

RAINFALL at Balton W.W., Browne's Lowe  
 County of S. Lancashire Observer J. K. Swales, Esq. C.E.  
 River Basin Mersey-Towell 3 1930. J. Pinnoworth C.E.

Rain Gauge, by \_\_\_\_\_

|              |      |      |      |      |      |      |       |       |       |        |       |
|--------------|------|------|------|------|------|------|-------|-------|-------|--------|-------|
| Diameter ... |      |      |      |      |      |      | 5     |       |       |        |       |
| Height ..... |      |      |      |      |      |      | 1.0   |       |       |        |       |
| Altitude ... |      |      |      |      |      |      | 1,200 |       |       |        |       |
| Year .....   | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926  | 1927  | 1928  | 1929   |       |
|              |      |      |      |      |      |      |       |       |       | MEANS. |       |
| January ...  |      |      |      |      |      |      | 6.24  | 5.49  | 13.71 | 2.21   | 7.24  |
| February ... |      |      |      |      |      |      | 6.04  | 2.83  | 5.98  | 1.62   | 4.8   |
| March .....  |      |      |      |      |      |      | 2.72  | 6.27  | 3.97  | 2.21   | 3.53  |
| April.....   |      |      |      |      |      |      | 2.12  | 4.38  | 1.67  | 1.60   | 3.17  |
| May .....    |      |      |      |      |      |      | 4.05  | 2.05  | 1.30  | 4.17   | 3.27  |
| June .....   |      |      |      |      |      |      | 3.52  | 6.07  | 8.34  | 2.61   | 2.91  |
| July .....   |      |      |      |      |      |      | 4.73  | 5.38  | 3.68  | 5.33   | 7.54  |
| August ..... |      |      |      |      |      |      | 5.25  | 8.05  | 9.24  | 7.27   | 9.83  |
| September... |      |      |      |      |      |      | 5.63  | 8.27  | 1.65  | 2.73   | 4.58  |
| October..... |      |      |      |      |      |      | 4.50  | 5.51  | 7.81  | 9.64   | 8.16  |
| November...  |      |      |      |      |      |      | 8.46  | 6.38  | 8.84  | 10.63  | 8.62  |
| December...  |      |      |      |      |      |      | 2.62  | 1.55  | 4.05  | 9.17   | 5.83. |
| TOTALS...    |      |      |      |      |      |      | 76.50 | 67.58 | 59.00 | 55.88  | 62.33 |
|              |      |      |      |      |      |      |       |       |       |        | 59.49 |
|              |      |      |      |      |      |      |       |       |       |        | 65.16 |

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

| Date. | Lat. N. | Long. W. | Railway Station. | Distance from gauge | Direction from gauge | Parish Church. | Distance from gauge | Direction from gauge |
|-------|---------|----------|------------------|---------------------|----------------------|----------------|---------------------|----------------------|
| 1926  | 53° 40' | 2° 29'   |                  |                     |                      |                |                     |                      |

## RAINFALL at Bolton W.W. (Brown Lowe)

County of South Lancashire

Observer Bolton Corp. W.W.

River Basin Mersey Irwell-3

Type of Gauge Standard

Annual Average 51.8 in. based on X years obs. un-weighted. Period of average 1881-1916 Ref. 1.W.S.  
(1939) 53.8 13 Jul 1916/27.

| Diameter  | 5'    |       |       |       |       |       |       |       |       |        |               |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------------|
| Height    | 1.0   |       |       |       |       |       |       |       |       |        |               |
| Altitude  | 1200  |       |       |       |       |       |       |       |       |        |               |
| Year      | 1931  | 1932  | 1933  | 1934  | 1935  | 1936  | 1937  | 1938  | 1939  | 1940   | Mean<br>Total |
| January   | 8.13  | 6.35  | 3.63  | 4.62  | 3.12  | 3.75  | 4.71  | 6.25  | 6.08  | (370)  | 52.54         |
| February  | 6.92  | 1.18  | 4.53  | 5.6   | 7.82  | 2.85  | 6.80  | 2.43  | 5.50  | (350)  | 41.15         |
| March     | 8.85  | 4.85  | 3.81  | 3.37  | 2.10  | 4.94  | 2.10  | 2.46  | 3.04  | 3.97   | 30.65         |
| April     | 4.38  | 4.80  | 2.76  | 3.29  | 4.23  | 1.35  | 5.42  | 1.07  | 3.57  | 3.31   | 34.28         |
| May       | 3.09  | 5.71  | 2.67  | 5.24  | 1.39  | 1.14  | 2.63  | 5.50  | 2.26  | 1.05   | 30.68         |
| June      | 7.33  | 1.35  | 3.46  | 2.72  | 4.55  | 5.42  | 2.91  | 6.09  | 4.73  | 7.19   | 40.25         |
| July      | 6.00  | 5.86  | 4.20  | 2.78  | 2.55  | 6.70  | 2.82  | 6.98  | 9.32  | 7.22   | 54.43         |
| August    | 6.70  | 1.83  | 4.05  | 7.14  | 2.31  | 3.57  | 3.81  | 3.69  | 4.02  | 3.94   | 40.96         |
| September | 5.22  | 8.52  | 1.29  | 4.74  | 8.91  | 5.84  | 2.43  | 3.57  | 2.04  | 6.38   | 48.94         |
| October   | 3.75  | 10.13 | 5.44  | 7.91  | 11.88 | 6.85  | 2.80  | 12.02 | 3.17  | 5.66   | 67.61         |
| November  | 10.20 | 4.46  | 3.04  | 3.18  | 6.19  | 8.19  | 2.33  | 8.40  | 9.47  | 9.03   | 64.49         |
| December  | 3.70  | 2.82  | 1.79  | 8.92  | 5.38  | 6.27  | 2.87  | 6.35  | 3.83  | 6.70   | 47.73         |
| TOTALS    | 66.27 | 56.36 | 39.67 | 54.57 | 60.43 | 58.97 | 41.79 | 64.81 | 57.09 | (5575) | 555.71        |

1940 Jan + Feb total by observer.

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 | Patch Church.  | Distance from gauge | Direction |
|-------|---------|-------|------------------|---------------------|-----------|----------------|---------------------|-----------|
| 1940  |         |       | Spring Vale      | 15m                 | N.E.      | Narrow Belmont | 2m                  | S.W.      |

Station No. T.F. 2889

41

## RAINFALL at Bacton W.W. (Brown Lane)

County of South Lancashire Observer Bolton Corp. W.W.

River Basin Mersey Irwell - 3

Type of Gauge Snowdon

Annual Average 53.5 in. based on 13 years obs. un-weighted. Period of average 1881-1915 Ref. 1.W.S.

File No. 741918/27

| Diameter  | 5"    |       | 562   | 065   |       |       |        |       |       |       |                |
|-----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|----------------|
| Height    | 10'   |       |       |       | 1     |       |        |       |       |       |                |
| Altitude  | 1200' |       |       |       | 47    |       |        |       |       |       |                |
| Year      | 1941  | 1942  | 1943  | 1944  | 1945  | 1946  | 1947   | 1948  | 1949  | 1950  | Means<br>Total |
| January   | 1.65  | 5.41  | 7.44  | 7.49  | 4.32  | 5.97  | 4.36   | 10.73 | 4.02  | 4.79  | 56.18          |
| February  | 5.92  | 2.21  | 4.38  | 2.81  | 7.11  | 7.48  | (1.46) | 3.62  | 3.56  | 5.92  | 44.47          |
| March     | 4.12  | 3.88  | 1.57  | 1.45  | 1.85  | 1.36  | 6.62   | 2.59  | 2.36  | 3.39  | 29.19          |
| April     | 2.29  | 2.72  | 3.15  | 3.11  | 2.60  | 1.53  | 3.72   | 2.61  | 5.22  | 4.52  | 31.47          |
| May       | 3.96  | 4.74  | 3.89  | 4.15  | 4.27  | 1.79  | 3.01   | 2.24  | 4.28  | 2.51  | 34.84          |
| June      | 1.85  | 1.01  | 4.87  | 4.49  | 5.19  | 3.84  | 3.75   | 7.38  | 1.43  | 3.21  | 36.02          |
| July      | 2.84  | 8.04  | 4.08  | 5.21  | 4.01  | 4.74  | 4.25   | 3.45  | 3.11  | 5.46  | 45.19          |
| August    | 8.24  | 7.37  | 9.35  | 4.40  | 3.45  | 8.83  | .29    | 7.28  | 3.48  | 8.31  | 61.00          |
| September | 1.83  | 4.44  | 6.72  | 8.54  | 3.83  | 8.90  | 5.22   | 4.13  | 3.15  | 10.77 | 57.53          |
| October   | 6.00  | 11.01 | 5.10  | 7.45  | 7.60  | 1.82  | 1.59   | 4.18  | 5.74  | 4.52  | 56.01          |
| November  | 3.98  | 1.75  | 5.22  | 8.42  | 9.6   | 8.77  | 6.72   | 3.89  | 7.73  | 8.28  | 54.72          |
| December  | 4.12  | 5.93  | 3.62  | 5.24  | 4.12  | 5.36  | 5.06   | 5.81  | 8.66  | 4.08  | 52.00          |
| TOTALS    | 45.80 | 58.51 | 59.39 | 62.76 | 49.31 | 60.39 | 46.05  | 56.91 | 52.74 | 65.76 | 557.62         |

Dec. 1947. Inquiry station which contained precipitation to be seen in 1947. Feb point which you show

20004

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

Reference No.....

| Date. | Lat. N. | Long. | Railway Station. | Distance from gauge | Direction | Parish Church. | Distance from gauge | Direction |
|-------|---------|-------|------------------|---------------------|-----------|----------------|---------------------|-----------|
| 1941  |         |       | Spring Vale      | 2 m.                | N.E.      | Belmont        | 2 1/4 m.            | S.S.W.    |

Station No. 2889

TF 36

## RAINFALL at Bolton W.W. (Brown Lowe)

51

County of Lancashire

Observer Bolton Corporation Waterworks

River Basin Mersey-Tewell-3

Type of Gauge Standard

Annual Average 52.09 in. based on 13 years obs. un-weighted. Period of average 1881-1915 Ref. I.W.S.  
 " " 52.09 " 20 " 1916-50 File No. 74-1918/27  
 " " 57.00 " 34 " within 1923-57 "

| Diameter  | 5"    |       |       |       | 562065 |       |       |        |       |       |             |
|-----------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------------|
| Height    | 1' 0" |       |       |       | 1      |       |       |        |       |       |             |
| Altitude  | 126   |       |       |       | 51     |       |       |        |       |       |             |
| Year      | 1951  | 1952  | 1953  | 1954  | 1955   | 1956  | 1957  | 1958   | 1959  | 1960  | Means Total |
| January   | 5.41  | 4.59  | 2.87  | 6.54  | 3.08   | 6.21  | 4.89  | 5.53   | 3.46  | 6.60  | 49.18       |
| February  | 3.64  | 2.26  | 1.58  | 4.67  | 2.62   | 1.24  | 4.12  | 9.83   | 1.13  | 4.15  | 34.24       |
| March     | 5.44  | 2.95  | 2.84  | 3.67  | 2.46   | 2.13  | 5.18  | 2.59   | 2.62  | 1.74  | 31.82       |
| April     | 3.33  | 4.26  | 4.22  | 1.41  | 3.89   | 3.16  | .83   | 2.08   | 3.77  | 3.21  | 30.16       |
| May       | 2.98  | 3.02  | 3.56  | 3.48  | 5.29   | 2.29  | 2.70  | 5.68   | 2.15  | 2.55  | 33.70       |
| June      | 1.74  | 5.63  | 3.64  | 4.62  | 4.59   | 3.34  | 2.86  | 5.11   | 2.83  | 1.70  | 36.12       |
| July      | 5.28  | 4.03  | 6.54  | 9.82  | 1.26   | 7.45  | 9.18  | 4.85   | 6.00  | 11.60 | 66.06       |
| August    | 5.77  | 5.84  | 6.13  | 8.30  | 1.74   | 14.22 | 9.06  | 5.58   | .61   | 6.38  | 63.63       |
| September | 4.09  | 6.31  | 5.98  | 6.86  | 6.04   | 4.53  | 11.25 | 5.66   | .51   | 3.97  | 55.23       |
| October   | 1.24  | 5.96  | 2.75  | 10.85 | 3.65   | 3.54  | 9.73  | (3.93) | 6.03  | 5.37  | 55.05       |
| November  | 10.26 | 3.73  | 7.69  | 9.57  | 3.76   | 2.31  | 2.68  | 2.27   | 6.40  | 8.38  | 57.05       |
| December  | 12.44 | 5.64  | 2.58  | 8.83  | 6.75   | 5.48  | 7.09  | 5.05   | 10.62 | 6.03  | 70.01       |
| TOTALS    | 61.82 | 54.27 | 50.38 | 78.12 | 45.16  | 55.90 | 69.57 | 54.16  | 46.13 | 61.74 | 582.25      |

1958 Oct est N.O.S.

00044

1960 A little low but accept.

Position of Station on Ordnance One-Inch map : No. of Map ..... National Grid Reference 34/682193

| Date. | Lat. N. | Long. | Railway Station. | Distance from gauge | Parish Church. | Distance from gauge |
|-------|---------|-------|------------------|---------------------|----------------|---------------------|
| 1951  |         |       | Shrigley Vale    | S.E. N.E.           | Belmont        | S.E. S.W.           |

Summary of Earlier Records from 10-year Sheets :

| Record D, or d |  | 1910-19 | 1920-30         | 1931-40 | 1941-50 | 1951-60 |
|----------------|--|---------|-----------------|---------|---------|---------|
|                |  |         | C1923<br>A23-25 | V<br>—  | V<br>—  |         |