

## RAINFALL AT Ruthwell Comlongon

Lat. \_\_\_\_\_

Lon. \_\_\_\_\_

County of Dumfries

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

Observer Scotch Meteorological Soc

with scale - 3.

| Diameter ... |      |      |      |      |      |      |      |      |      |       | MEANS. |
|--------------|------|------|------|------|------|------|------|------|------|-------|--------|
| Height ..... |      |      |      |      |      |      |      |      |      |       |        |
| Altitude ... |      |      |      |      |      |      |      |      |      | 75?   |        |
| Year ...     | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 | 1906 | 1907 | 1908 | 1909  |        |
| January ...  |      |      |      |      |      |      |      |      |      | 4.15  | 4.08   |
| February ... |      |      |      |      |      |      |      |      |      | 2.47  | 1.49   |
| March .....  |      |      |      |      |      |      |      |      |      | 3.96  | 4.14   |
| April .....  |      |      |      |      |      |      |      |      |      | 1.39  | 2.98   |
| May .....    |      |      |      |      |      |      |      |      |      | 4.02  | 2.11   |
| June.....    |      |      |      |      |      |      |      |      |      | 2.77  | 3.28   |
| July .....   |      |      |      |      |      |      |      |      |      | 3.40  | 3.80   |
| August.....  |      |      |      |      |      |      |      |      |      | 3.93  | 1.99   |
| September .. |      |      |      |      |      |      |      |      |      | 5.03  | 2.21   |
| October ...  |      |      |      |      |      |      |      |      |      | 2.37  | 8.19   |
| November ..  |      |      |      |      |      |      |      |      |      | 2.55  | 1.66   |
| December...  |      |      |      |      |      |      |      |      |      | 3.57  | 5.75   |
| TOTALS ...   |      |      |      |      |      |      |      |      |      | 39.61 | 41.68  |

1908 Gummerrees Station 1 1/2 mile S

RAINFALL at Ruthwell, Comlongan

10 SO26

County of DumfriesObserver Mr. W. H. HellensRiver Basin Nith S.

3

for A. Johnstone Douglas Esq.

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

Mr. Wm. Brown (1913)  
for Earl of Mansfield 1918

| Diameter ... | 5     | 1910  | 1911  | 1912  | 1913  | 1914  | 1915  | 1916  | 1917  | 1918  | 1919   | MEANS. |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| Height ..... | 10    |       |       |       |       |       |       |       |       |       |        |        |
| Altitude ... | 68 ft |       |       |       |       | 74    | 68    | 74    | 70    |       |        |        |
| Year ...     |       | 1910  | 1911  | 1912  | 1913  | 1914  | 1915  | 1916  | 1917  | 1918  | 1919   |        |
| January ...  | 2.92  | 1.63  | 2.96  | 2.61  | 3.31  | 2.78  | 4.93  | 1.77  | 5.42  | 3.01  | 15.13  |        |
| February ... | 4.85  | 4.19  | 2.85  | 2.45  | 5.49  | 6.18  | 3.65  | 1.04  | 4.34  | .66   | 9.69   |        |
| March .....  | 2.48  | .96   | 4.54  | 4.27  | 3.56  | 1.25  | 1.16  | 2.15  | 1.59  | 3.16  | 8.06   |        |
| April .....  | 3.10  | 3.82  | 37    | 394   | 1.47  | 2.09  | 2.01  | 1.82  | .58   | 2.10  | 6.51   |        |
| May .....    | 2.68  | 2.22  | 1.62  | 3.52  | 2.10  | 1.66  | 3.57  | 3.00  | 1.89  | 1.00  | 9.46   |        |
| June .....   | 1.31  | 2.79  | 5.52  | 3.20  | .62   | .55   | 2.46  | 2.30  | 1.51  | 1.69  | 7.96   |        |
| July .....   | 4.90  | 1.41  | 3.93  | .74   | 3.25  | 4.58  | 3.57  | 2.17  | 3.38  | 1.24  | 10.36  |        |
| August.....  | 7.12  | 2.00  | 5.26  | 1.40  | 3.89  | 1.75  | 3.34  | 6.18  | 3.43  | 3.00  | 15.95  |        |
| September .. | 7.4   | 1.77  | 1.97  | 2.20  | 1.83  | .95   | 1.16  | 3.70  | 6.22  | 2.72  | 14.10  |        |
| October ...  | 2.43  | 4.01  | 4.10  | 3.29  | 1.19  | 3.04  | 6.62  | 5.71  | 5.19  | 1.58  | 19.10  |        |
| November ..  | 4.82  | 5.71  | 2.96  | 4.69  | 5.05  | 1.60  | 4.53  | 2.98  | 3.01  | 2.13  | 12.65  |        |
| December ... | 3.72  | 6.24  | 6.11  | 2.36  | 5.39  | 6.48  | 4.14  | 2.43  | 4.58  | 5.31  | 16.46  |        |
| TOTALS ...   | 41.07 | 36.75 | 42.19 | 34.67 | 37.11 | 32.30 | 41.44 | 35.25 | 41.14 | 27.60 | 145.43 |        |

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| Date. | Lat. N.    | Long. <small>W.</small> | Railway Station.   | Distance.                 | Direction. | Church.            | Distance.               | Direction. |
|-------|------------|-------------------------|--------------------|---------------------------|------------|--------------------|-------------------------|------------|
| 1911. |            |                         | Ruthwell<br>(1914) | 1 mile<br>$\frac{1}{2}$ m | NE.        | Ruthwell<br>(1914) | 1 ml. 1000 yds.<br>2½ m | ESE        |
| 1912  | 55° 0' 16" | 3° 26' 41"              |                    |                           |            |                    |                         | NE         |

## RAINFALL at Ruthwell (Cumbrian Castle)

County of Dumfries Observer East of MansfieldRiver Basin S Nith & C.

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

| Diameter ... | 5"   |       |       |       |       |       |       |       |       |       |              |        |
|--------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|--------|
| Height ..... | 1.0  |       |       |       |       |       |       |       |       |       |              |        |
| Altitude ... | 74   |       |       |       |       |       |       |       |       |       | 68           |        |
| Year .....   | 1920 | 1921  | 1922  | 1923  | 1924  | 1925  | 1926  | 1927  | 1928  | 1929  | 1930<br>MEAN |        |
| January      | 4.74 | 6.57  | 4.70  | 1.69  | 4.64  | 2.04  | 4.92  | 3.55  | 7.46  | 1.78  | 5.16         | 47.25  |
| February     | 2.48 | 2.24  | 2.94  | 4.54  | 3.8   | 4.38  | 4.63  | 2.31  | 3.37  | 1.35  | .16          | 27.78  |
| March        | 2.88 | 4.60  | 1.58  | 0.88  | 1.98  | 1.74  | 1.69  | 2.60  | 3.86  | 1.17  | 2.65         | 24.63  |
| April        | 2.32 | .94   | 1.94  | 3.34  | 2.35  | 3.34  | 2.44  | 1.65  | 1.26  | .99   | 1.28         | 22.18  |
| May          | 4.20 | 2.23  | 1.52  | 1.31  | 3.70  | 3.63  | 2.57  | 2.04  | 1.64  | 2.19  | 1.88         | 26.51  |
| June         | 1.99 | 47    | 1.39  | .93   | 1.39  | 1.23  | 2.78  | 3.12  | 6.30  | 1.94  | 2.68         | 23.22  |
| July         | 4.08 | 3.67  | 2.88  | 3.32  | 3.20  | 1.81  | 4.31  | 4.97  | 3.71  | 4.83  | 4.90         | 41.6.8 |
| August       | 2.24 | 5.98  | 2.59  | 8.74  | 3.15  | 3.82  | 4.54  | 5.12  | 7.45  | 6.69  | 8.51         | 59.73  |
| September    | 2.02 | 1.76  | 2.18  | 3.76  | 3.50  | 2.82  | 3.47  | 5.85  | 2.26  | .89   | 2.64         | 30.65  |
| October      | 1.93 | 2.44  | 1.23  | 4.82  | 2.64  | 4.08  | 3.35  | 3.61  | 7.27  | 4.95  | 6.12         | 42.44  |
| November     | 2.72 | 2.52  | .80   | 3.17  | 1.71  | 1.57  | 4.83  | 3.55  | 5.19  | 6.29  | 5.56         | 35.91  |
| December     | 4.57 | 4.73  | 3.07  | 3.97  | 6.59  | 3.16  | 6.8   | 1.16  | 3.88  | 5.65  | 3.59         | 40.99  |
| TOTALS...    | 29.2 | 36.15 | 26.82 | 40.47 | 34.23 | 31.62 | 40.54 | 39.53 | 53.65 | 38.12 | 42.63        | 422.97 |
|              | 0.   | 2.    | 0.    | D     | D     | D     | D     | D     | D     | D     | D            | JT8    |

1920. Draining Gauge 25' high. 2056 off. N.W.

S.E. 60" " 30" " N.

P.T.O.

Position of Station on reduced Ordnance Survey } No. of Map \_\_\_\_\_ Reference No. \_\_\_\_\_

| Date. | Lat. N.      | Long.        | Railway Station. | Distance from gauge | Direction | Parish Church.   | Distance from gauge | Direction |
|-------|--------------|--------------|------------------|---------------------|-----------|------------------|---------------------|-----------|
| 1920, | 55° 0' 16" N | 3° 26' 44" E | Ruthwell         | 1 1/4 m.            | N.E.      | Ruthwell (Rugby) | 2 1/2 m.            | E.        |

RAINFALL at Ruthwell (Comlongon Castle) M.W.R.  
 County of Dumfries Wm. Brown F.R.S. Observer The Earl of Mansfield  
 River Basin. 3 - Nith & C. Type of Gauge M.O.  
 Annual Average 35.5 in. based on 25 years obs. un-weighted. Period of average 1881-1915 Ref. 5

| Diameter  | 5"    |       |       |       |       |       |       |       |       |       |       |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Height    | 1' 0" |       |       |       |       |       |       |       |       |       |       |
| Altitude  | 67'   | 74'   | 67'   |       |       |       |       |       |       |       |       |
| Year      | 1931  | 1932  | 1933  | 1934  | 1935  | 1936  | 1937  | 1938  | 1939  | 1940  | Means |
| January   | 3.03  | 4.88  | 4.58  | 4.75  | 1.34  | 4.01  | 3.20  | 4.32  | 4.45  | 4.04  | 3860  |
| February  | 2.43  | .05   | 2.25  | .26   | 3.72  | 2.08  | 4.22  | 1.63  | 3.00  | 1.37  | 21.01 |
| March     | .82   | 2.88  | 1.47  | 2.12  | .92   | 2.04  | 1.33  | 1.61  | 2.58  | 5.36  | 2113  |
| April     | 1.82  | 2.46  | 1.20  | 2.76  | 3.53  | 82    | 2.70  | .24   | 1.01  | 2.17  | 1871  |
| May       | 2.70  | 2.68  | 3.05  | 2.52  | .53   | .91   | 1.70  | 3.71  | .71   | .98   | 1949  |
| June      | 6.28  | 1.83  | 2.22  | 3.42  | 3.78  | 3.22  | 2.62  | 3.59  | 3.01  | .85   | 3082  |
| July      | 4.34  | 3.34  | 3.99  | 1.40  | 1.24  | 4.65  | 2.58  | 4.90  | 5.39  | 5.72  | 3755  |
| August    | 2.63  | 1.21  | 1.51  | 5.82  | 3.38  | 2.13  | 1.84  | 1.90  | 1.95  | .82   | 2319  |
| September | 1.88  | 3.40  | 1.09  | 5.40  | 4.37  | 5.10  | 3.04  | 2.29  | 1.39  | 3.25  | 3121  |
| October   | 2.98  | 5.97  | 2.17  | 4.03  | 7.06  | 3.44  | 3.71  | 5.82  | 2.65  | 3.41  | 4124  |
| November  | 8.55  | 2.23  | 1.42  | .33   | 5.68  | 3.66  | 1.25  | 5.35  | 4.75  | 4.53  | 3775  |
| December  | 2.99  | 5.92  | .76   | 5.89  | 1.87  | 3.89  | 2.91  | 2.75  | 1.41  | 3.41  | 3180  |
| TOTALS    | 40.45 | 36.86 | 25.71 | 38.70 | 37.42 | 35.95 | 31.10 | 38.11 | 32.30 | 35.91 | 35250 |

1931. Dwelling house 24' high 50° W.N.W. Tree 60' high 40° N.  
 1935 Tree 66' high 50° N.E.

| 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     |
| 1931.   |         |       | Ruthwell        | 1/2 m               | N.E.          |

63-619257

Station No. M.W.R. 5026

## RAINFALL at Ruthwell (Cawlongan Castle)

41

County of Dumfriesshire

Observer Wm. Brown

The Rt. Hon.

River Basin 3 - Nith + C.

The Earl

of Mansfield

Type of Gauge M.Q.

Annual Average 25.5 in. based on 25 years obs. &amp; weighted. Period of average 1915-1915 Ref. S

File No.

|           |       |       |       |       |       |       |       |       |       |       |        |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Diameter  | 5"    |       |       |       | 619   | 257   |       |       |       |       |        |
| Height    | 1'0"  |       |       |       |       | 1     |       |       |       |       |        |
| Altitude  | 67'   |       |       |       |       | 41    |       | 95'   |       |       |        |
| Year      | 1941  | 1942  | 1943  | 1944  | 1945  | 1946  | 1947  | 1948  | 1949  | 1950  | Means  |
| January   | 0.94  | 5.25  | 4.19  | 3.37  | 3.09  | 4.21  | 3.62  | 7.15  | 2.14  | 1.85  | 35.81  |
| February  | 3.87  | 1.64  | 2.38  | .71   | 4.23  | 1.35  | .64   | 2.57  | 2.38  | 3.04  | 22.71  |
| March     | 3.32  | 3.73  | .77   | .17   | 2.31  | 3.12  | 4.99  | 2.05  | 1.56  | 4.16  | 26.18  |
| April     | 1.69  | 1.75  | 1.59  | 1.83  | 2.20  | 1.06  | 4.62  | 3.04  | 2.00  | 2.74  | 22.58  |
| May       | 2.92  | 3.13  | 3.81  | 1.99  | 3.47  | 1.36  | 3.31  | 1.96  | 2.25  | 1.96  | 26.16  |
| June      | .73   | .58   | 2.83  | 3.05  | 2.70  | 4.39  | 3.43  | 5.27  | .83   | 2.86  | 26.67  |
| July      | 3.24  | 2.15  | 2.31  | 3.46  | 3.46  | 3.41  | 4.33  | 2.14  | 2.72  | 3.69  | 30.91  |
| August    | 5.09  | 3.39  | 5.24  | 3.03  | 1.22  | 4.55  | .23   | 6.44  | 2.84  | 6.14  | 38.17  |
| September | 1.85  | 3.32  | 2.96  | 5.13  | 3.77  | 6.12  | 2.38  | 4.30  | 2.51  | 4.96  | 40.30  |
| October   | 4.76  | 3.10  | 6.79  | 3.71  | 4.02  | .91   | .86   | 3.67  | 5.10  | 2.35  | 35.27  |
| November  | 2.76  | 7.4   | 2.56  | 6.12  | .26   | 4.12  | 4.52  | 4.64  | 4.47  | 2.58  | 32.77  |
| December  | 1.84  | 3.04  | 1.49  | 4.74  | 2.48  | 3.73  | 1.83  | 4.81  | 6.61  | 1.81  | 32.38  |
| TOTALS    | 33.01 | 31.82 | 36.92 | 37.37 | 33.21 | 38.33 | 34.66 | 48.04 | 35.41 | 41.14 | 369.91 |

1947 Gauge moved May 23rd from nurseries to gardens at Cawlongan Castle

M.C.

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<br>from gauge | Direction<br>from gauge | Parish Church. | Distance<br>from gauge |
|-------|---------|-------|------------------|------------------------|-------------------------|----------------|------------------------|
|       |         |       |                  |                        |                         |                |                        |

Station No. 5026

## RAINFALL at Ruthwelle (Conlongon Castle) M.W.R.

51

County of Dumfries Observer The Rt Hon The Earl

River Basin 3 - Nith &amp; C. of Mansfield

Type of Gauge m.o.

Annual Average 35.5 in. based on 25 years obs. unweighted. Period of average 1881-1915 Ref. S  
 36.88 " " 35 " 1916-1950 1916-1950 P  
 File No.

| Diameter  | 5"    |       |       | 619   | 257   |       |       |       | 5"    |       |       |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Height    | 1' 0" |       |       |       |       | 1     |       |       | 1' 0" |       |       |
| Altitude  | 95'   |       |       |       |       | 44    |       |       | .00'  |       |       |
| Year      | 1951  | 1952  | 1953  | 1954  | 1955  | 1956  | 1957  | 1958  | 1959  | 1960  | Means |
| January   | 5.94  | 3.14  | 1.19  | 3.19  | 3.31  | 3.43  | 5.38  | 4.57  | 1.80  | 4.48  |       |
| February  | 2.47  | 4.47  | 1.05  | 3.36  | 2.34  | 7.73  | 3.55  | 3.46  | 1.86  | 4.86  |       |
| March     | 3.18  | 2.28  | 4.49  | 3.03  | 2.58  | 1.24  | 2.95  | 1.48  | 2.93  | 1.44  |       |
| April     | 2.10  | 2.71  | 2.84  | .94   | 1.72  | 1.90  | 1.11  | 1.09  | 2.61  | 2.89  |       |
| May       | 2.48  | 3.22  | 2.48  | 3.72  | 2.70  | 1.62  | 2.74  | 3.41  | 1.39  | 1.59  |       |
| June      | 1.69  | 3.06  | .91   | 3.11  | 3.11  | 2.23  | .91   | 3.59  | 3.43  | 1.78  |       |
| July      | 2.61  | 2.53  | 6.20  | 3.76  | 2.39  | 5.62  | 4.11  | 4.08  | 3.34  | 3.73  |       |
| August    | 4.53  | 5.36  | 2.86  | 5.51  | 1.99  | 8.14  | 3.48  | 3.78  | .50   | 3.66  |       |
| September | 5.08  | 1.85  | 3.81  | 5.60  | 2.91  | 3.08  | 3.83  | 6.77  | 1.86  | 3.67  |       |
| October   | 0.34  | 4.46  | 2.70  | 8.24  | 2.30  | 2.54  | 3.96  | 3.59  | 4.16  | 3.21  |       |
| November  | 6.82  | 2.11  | 6.14  | 7.88  | 1.73  | 1.18  | 2.03  | 1.51  | 5.22  | 6.62  |       |
| December  | 5.69  | 3.08  | 2.60  | 3.89  | 4.97  | 3.67  | 2.81  | 3.60  | 6.04  | 2.87  |       |
| TOTALS    | 42.93 | 34.27 | 33.27 | 52.53 | 32.05 | 34.18 | 36.86 | 40.43 | 34.14 | 40.80 |       |
|           | D     | D     | D     | D     | D     | D     | D     | D     | D     | D     |       |

In Oct 1956 Mr MacRae, Bell's trees 50-60' high, 50-60' to west shelter the gauge. Suggested that these be lopped. Flat-bottomed measure.

Slope 20/5/60. 80° Day, 7/ gauge not level. General slope c. 5.1.30. High grass to N, bushes > 1m (23' 8" W). Open space c. 30 m N-S, 9.5 m E-W. No possible enforcement of impound. Owner poor and authority indifferent.

Position of Station on Ordnance One-Inch map : No. of Map ..... National Grid Reference 32/078691

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

Summary of Earlier Records from 10-year Sheets :

1916-1950, P accepted

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