

# RAINFALL at Pennith, Barton House,

County of Westmorland Observer Mrs. Legh Jackson

River Basin Eden - 1

Howard Rain Gauge, by (126)

|              |      |      |      |      |       |       |       |       |       |       |                 |
|--------------|------|------|------|------|-------|-------|-------|-------|-------|-------|-----------------|
| Diameter ... |      |      |      |      | 5     |       |       |       |       |       |                 |
| Height ..... |      |      |      |      | 10    |       |       |       |       | 3     |                 |
| Altitude ... |      |      |      |      | 500   |       |       |       |       |       |                 |
| Year .....   | 1920 | 1921 | 1922 | 1923 | 1924  | 1925  | 1926  | 1927  | 1928  | 1929  | 1930.<br>MEANS. |
| January ...  |      |      |      |      | 3.91  | 2.96  | 6.50  | 5.19  | 9.11  | 1.35  | 7.14            |
| February ... |      |      |      |      | .65   | 6.52  | 4.01  | 2.13  | 5.20  | .72   | .64             |
| March .....  |      |      |      |      | 1.09  | 1.81  | 1.98  | 4.43  | 5.59  | .29   | 2.95            |
| April .....  |      |      |      |      | 1.58  | 5.15  | 2.57  | 2.54  | 1.23  | 1.35  | 1.69            |
| May .....    |      |      |      |      | 4.24  | 4.77  | 2.24  | 2.75  | 1.90  | 2.84  | 2.08            |
| June .....   |      |      |      |      | 1.56  | .24   | 3.98  | 3.20  | 5.71  | 1.62  | 2.17            |
| July .....   |      |      |      |      | 4.22  | 1.68  | 3.58  | 5.43  | 7.79  | 3.98  | 3.42            |
| August ..... |      |      |      |      | 2.85  | 3.42  | 4.83  | 8.18  | 8.03  | 4.26  | 7.85            |
| September... |      |      |      |      | 5.80  | 4.07  | 4.95  | 6.90  | 2.15  | 2.25  | 3.20            |
| October..... |      |      |      |      | 3.55  | 5.47  | 4.57  | 4.71  | 8.22  | 5.35  | 6.73            |
| November...  |      |      |      |      | 4.07  | 1.52  | 8.71  | 3.88  | 9.01  | 7.59  | 5.01            |
| December...  |      |      |      |      | 8.23  | 5.87  | 1.07  | 1.47  | 2.99  | 11.17 | 4.89            |
| TOTALS...    |      |      |      |      | 41.75 | 44.48 | 48.99 | 50.84 | 62.93 | 42.77 | 47.77           |
|              |      |      |      |      | D     | D     | D     | D     | D     | D     | D               |

1925 Herbaceous border 6' NE

1930 Inspected June. Gauge & measure good.  
Gauge surrounded with bits of stone which may cause  
splashing. Their removal recommended.

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

| Date. | Lat. N. | Long.  | Railway Station. | Distance from gauge | Direction from gauge | Parish Church. | Distance from gauge | Direction from gauge |
|-------|---------|--------|------------------|---------------------|----------------------|----------------|---------------------|----------------------|
| 1924  | 54° 40' | 2° 50' | Pennith          | 4 1/2 m             | NE                   | Barton         | 3 1/4 m             | NE                   |

RAINFALL at Penrith (Barton House) Pooly BridgeCounty of WestmorlandObserver Mrs. Legh Tolson,River Basin Eden - 1.

Type of Gauge .....

Annual Average 42.4 in. based on 5 years obs. unweighted. Period of average 1881-1910 Ref. 5

846954/28

| Diameter  | 5.    |       |       |       |       |       |       |       |       |       |       |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Height    | 1.0.  |       |       |       |       |       |       |       |       |       |       |
| Altitude  | 500.  |       |       |       |       |       |       |       |       |       |       |
| Year      | 1931  | 1932  | 1933  | 1934  | 1935  | 1936  | 1937  | 1938  | 1939  | 1940  | Means |
| January   | 4.34  | 6.96  | 6.46  | 5.24  | 1.99  | 5.89  | 6.36  | 6.10  | 6.29  | 2.31  |       |
| February  | 3.34  | .16   | 4.40  | .22   | 6.87  | 2.47  | 5.03  | 1.63  | 4.84  | 1.00  |       |
| March     | .81   | 3.31  | 3.17  | 3.12  | 1.04  | 2.18  | 2.30  | 2.12  | 3.21  | 4.81  |       |
| April     | 2.35  | 3.43  | 1.35  | 3.61  | 4.58  | .83   | 2.40  | .42   | 1.56  | 1.94  |       |
| May       | 2.72  | 2.63  | 3.37  | 3.57  | .82   | 2.04  | 2.51  | 2.47  | .57   | 1.40  |       |
| June      | 5.17  | 2.41  | 2.27  | 2.50  | 4.00  | 2.74  | 1.73  | 4.24  | 2.53  | .79   |       |
| July      | 3.97  | 4.68  | 2.89  | 2.24  | 1.63  | 4.78  | 1.79  | 4.55  | 5.84  | 4.67  |       |
| August    | 3.44  | 1.09  | 1.79  | 3.91  | 1.74  | 1.67  | 2.22  | 3.77  | 2.78  | 1.49  |       |
| September | 1.86  | 4.93  | 1.52  | 4.03  | 6.98  | 3.89  | 3.08  | 2.07  | 1.38  | 4.17  |       |
| October   | 2.59  | 6.61  | 3.72  | 6.60  | 7.54  | 4.40  | 3.47  | 10.23 | 3.78  | 5.26  |       |
| November  | 6.85  | 2.65  | 1.59  | .72   | 4.64  | 5.04  | 1.36  | 7.10  | 6.05  | 4.69  |       |
| December  | 2.71  | 4.47  | .46   | 7.33  | 2.91  | 6.56  | 2.61  | 4.80  | 2.03  | 3.41  |       |
| TOTALS    | 40.15 | 43.33 | 32.79 | 43.09 | 45.34 | 42.49 | 34.86 | 50.10 | 40.86 | 36.94 |       |
|           | D.    | D.    | D.    | D.    | D.    | D.    | D.    | D.    | D.    | D.    |       |

1933. Herbaceous border 5' high N.  
1940. Feb. part coll.

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 |
|-------|---------|-------|------------------|---------------------|----------------------|----------------|---------------------|----------------------|
|       |         |       | Penrith          | 5m                  | N.                   | Barton         | 3m                  | N.                   |

Station No. 3691

RAINFALL at Penrith (Barton House)

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County of Westmorland

Observer Mrs Legh Tolson.

River Basin Eden - 1

Type of Gauge

Annual Average 42.4 in. based on 5 years obs. unweighted. Period of average 1881-1915 Ref S

File No. 846951/28

|           |            |            |                                |            |            |            |            |            |            |            |       |
|-----------|------------|------------|--------------------------------|------------|------------|------------|------------|------------|------------|------------|-------|
| Diameter  | 5"         |            |                                |            | 600        | 679        |            |            |            |            |       |
| Height    | 1'         |            |                                |            |            | 1          |            |            |            |            |       |
| Altitude  | 500'       |            | X                              |            |            | 41         |            |            |            |            |       |
| Year      | 1941       | 1942       | 1943                           | 1944       | 1945       | 1946       | 1947       | 1948       | 1949       | 1950       | Means |
| January   | 1.01       | 3.03       | 7.10                           | 3.95       | 3.54       | 4.11       | 5.58       | 8.92       | 1.85       | 2.67       |       |
| February  | 4.98       | 1.61       | 3.13                           | 1.44       | 3.43       | 3.19       | 1.38       | 3.21       | 3.08       | 5.49       |       |
| March     | 2.70       | 3.32       | .81                            | .71        | 2.24       | 1.77       | 7.13       | 3.56       | 1.14       | 3.11       |       |
| April     | 1.19       | 3.15       | 2.61                           | 1.58       | 1.97       | 1.39       | 5.17       | 2.52       | 3.99       | 2.56       |       |
| May       | 2.57       | 3.91       | 3.92                           | 1.90       | 4.55       | 1.30       | 3.07       | 1.36       | 2.82       | 1.87       |       |
| June      | .35        | .82        | 2.38                           | 2.42       | 4.53       | 2.84       | 2.98       | 5.89       | .51        | 1.82       |       |
| July      | .73        | 4.90       | 3.27                           | 3.51       | 3.60       | 4.56       | 2.78       | 1.41       | 2.88       | 4.24       |       |
| August    | 6.40       | 3.90       | 7.13                           | 1.14       | 2.27       | 6.96       | .14        | 4.04       | 2.25       | 6.17       |       |
| September | 1.25       | 4.70       | 5.12                           | 5.37       | 4.19       | 5.39       | 1.94       | 4.08       | 1.07       | 7.16       |       |
| October   | 5.03       | 4.23       | 6.27                           | 5.28       | 5.55       | 1.02       | .78        | 2.90       | 6.26       | 4.13       |       |
| November  | 3.02       | 1.03       | 2.94                           | 8.74       | .25        | 7.40       | (4.98)     | 2.63       | 6.83       | 4.61       |       |
| December  | 2.06       | 4.78       | 2.79                           | 4.78       | 2.67       | 3.53       | 2.28       | 5.82       | 7.11       | 1.88       |       |
| TOTALS    | 31.29<br>D | 39.38<br>D | 47.53<br><del>48.53</del><br>D | 40.82<br>D | 38.79<br>D | 43.46<br>D | 38.21<br>D | 46.44<br>D | 39.79<br>D | 45.71<br>D |       |

942 Herbaceous Border 5' high - N.

1947 Nov. part ext.

00024

1943. corrected for windmeter, 17/9/57. RLB

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. |
|-------|---------|-------|------------------|---------------------|----------------------|----------------|----------------------|-----------------------|
| 1942  |         |       | Penrith          | 5 m 60              | N.                   | Barton         | 3 1/2 m.             | N.                    |

BRITISH RAINFALL ORGANIZATION



Station No. 3691RAINFALL at Penrith (Barton House)

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County of WestmorlandObserver Mrs. Leigh TolsonRiver Basin Eden - 1

Type of Gauge

Annual Average 42.4 in. based on 5 years obs. by recighted. Period of average 1881-1915 Ref. S" " 39.53 " 33 " within 1924-57 " " 1916-58 " 5File No. 846951/28

|               |        |       |       |       |       |       |        |      |      |      |       |
|---------------|--------|-------|-------|-------|-------|-------|--------|------|------|------|-------|
| Diameter ...  | 5"     |       |       |       | 600   | 679   |        |      |      |      |       |
| Height ...    | 10"    |       |       |       |       | 1     |        |      |      |      |       |
| Altitude ...  | 500'   |       |       |       |       | 51    |        |      |      |      |       |
| Year ...      | 1951   | 1952  | 1953  | 1954  | 1955  | 1956  | 1957   | 1958 | 1959 | 1960 | Means |
| January ...   | * 3.91 | 4.13  | * 94  | 3.29  | 2.73  | 3.07  | * 5.36 |      |      |      |       |
| February ...  | 5.42   | .82   | 1.12  | 3.44  | 1.65  | .77   | 4.15   |      |      |      |       |
| March ...     | 4.05   | 1.71  | .53   | 3.42  | 1.17  | 1.86  | 2.29   |      |      |      |       |
| April ...     | 2.40   | 2.62  | 3.15  | .86   | 1.24  | .91   | .25    |      |      |      |       |
| May ...       | 1.33   | 2.46  | 2.56  | 4.30  | 3.67  | 1.36  | 2.26   |      |      |      |       |
| June ...      | 1.06   | 2.19  | 2.36  | 3.02  | 2.40  | 2.79  | .94    |      |      |      |       |
| July ...      | 2.75   | 2.04  | 3.66  | 2.53  | 1.45  | 3.75  | 3.20   |      |      |      |       |
| August ...    | 3.73   | 5.29  | 4.93  | 4.50  | 2.46  | 7.32  | 4.82   |      |      |      |       |
| September ... | 4.51   | 3.82  | 5.68  | 6.20  | 2.58  | 3.95  | 4.18   |      |      |      |       |
| October ...   | .79    | 5.64  | 2.88  | 8.88  | 3.03  | 2.60  | 4.13   |      |      |      |       |
| November ...  | 10.87  | 1.98  | 4.32  | 10.49 | 2.77  | 1.54  | 1.32   |      |      |      |       |
| December ...  | 8.05   | 3.85  | 2.27  | 4.86  | 5.28  | 5.61  | 3.60   |      |      |      |       |
| TOTALS ...    | 48.87  | 36.65 | 34.30 | 55.79 | 30.43 | 35.53 | 36.50  |      |      |      |       |
|               | D      | D     | D     | D     | P     | d.    | d      |      |      |      |       |

1951 Herbaceous Border 4' 6" N:  
 1955 Wall 5' Distance 21' SW. Tall trees - Distance 8' N:  
 1954 Terminated - paper returned - gone away.

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference 35-483252

| Date. | Lat. N. | Long. | Railway Station. | Distance from gauge | Direction from gauge | Parish Church. | Distance from gauge. | Direction from gauge. |
|-------|---------|-------|------------------|---------------------|----------------------|----------------|----------------------|-----------------------|
| 1951  |         |       | Penrith          | 5 1/2               | N                    | Barton         | 1 1/2                | N                     |

Summary of Earlier Records from 10-year Sheets :

| Record D, or d | 1910-19 | 1920-30              | 1931-40 | 1941-50           | 1951-60 |
|----------------|---------|----------------------|---------|-------------------|---------|
|                | 7       | C 1924<br>V but d 24 | ✓<br>✓  | ✓<br>V but d 43.7 |         |