Joseph Parker Egg for L' Souther W" Browned to the + Sea Level 340 pt.

| Year | 1860 | 1861 | 1862 | 1063 | 1064 | 1865 | 1866 | 1867 | 1868 | 1869 | MEANS |
|-------------|-------|-------|------|------|-------|------|-------|------|-------|------|-------|
| January | 7.03 | | | 7.72 | 3.29 | | | | | | |
| February | 2.27 | | | | 2.94 | | | | | | |
| March | 4.51 | | | 1.77 | 2.81 | | | | | | |
| April | 1.66 | | | 2.96 | 1.41 | | | | | 1372 | |
| May | 2.57 | | | 2.27 | 1.20 | | | | | | |
| June | 6.39 | | | 4.32 | 3.57 | | | | | | |
| July | 2.64 | | | 1.26 | / | | | | | | |
| August | 5.09 | | 2.67 | 3.82 | 1.51 | | | | | | |
| September - | 1.25 | | 25 | 6.33 | 4.83 | | | | 202 | | |
| October | 6.20 | 2.27 | 1.32 | 5:64 | 4.63 | | | | | | |
| November - | 2 18 | | 230 | 3.57 | 5.00 | | | | | | |
| December - | 3.54 | 5. Jà | | 3.22 | | | 4.36 | 1 63 | A 1/3 | 200 | |
| Totals - | 45.33 | 7-44 | | 4576 | 35.08 | 1-00 | 44.39 | 2520 | 4-5 | | |

| RAINFALL | AT Lowther Castle [Penrith, | 1 |
|----------|-----------------------------|---|
| `Lat | Lon county of Nesdansorland | 7 |
| | observer Mi N. Shand | |

| Diameter | | | | | | 8 | | | | | |
|-----------|------|------|------|------|-------|-------|-------|--------|------|-------|--------|
| Height | | | | | 3.6 | 4. | 3.6 | | | | |
| Altitude | | | | | 750 | | | | | | |
| Year | 1870 | 1871 | 1872 | 1873 | 1874 | 1875 | 1876 | 1877 | 1878 | 1879 | MEANS. |
| January | | | | | 4.74 | 6.57 | 1.41 | 7.35 | 2.63 | .87 | |
| February | | | | | 3.01 | -69 | 4.00 | 2.91 | 1.85 | 2.05 | |
| March | | | | | 2.82 | 1.39 | 4.04 | 217 | 2.04 | 2.83 | |
| April | | | | | 3.05 | .83 | 1.60 | 2.19 | 1.91 | 1.94 | |
| Мау | | | | | 1.48 | 1.86 | .78 | 2.36 | 4:58 | 1.85 | |
| June | | | | | 1.56 | 4.31 | 2.10 | 1.56 | 2.30 | 3.06 | |
| July | | | | | 1.62 | 3.27 | 2.07. | 4.07 | 1.03 | 5.17 | |
| August | | | | | 4.48 | 1.94 | 4.23 | 2.45 | 3.68 | 7:04 | |
| September | | | | | 5.29 | 2.91 | 4.23 | 4.56 | 4.69 | 2:49 | |
| October | | | | | 9.67 | 2.97 | 3.58 | 6.70 | 4.81 | 1.34 | |
| November | | | | | 1 | | | | | 1.38 | |
| December | | 100 | | | 1 | | | | | 2.88 | |
| Totals | | (159 | 00 | | 43.26 | 31.23 | 38.09 | 148.08 | 3490 | 32'90 | 88-64 |

1870-1873 computed from Great Strickland & Brougham Hall

RAINFALL AT Swither bout County of West worda Lat. Observer MEN Shaun Rain Gauge, by Mr. F. Clarke Coden -1 Diameter Height 3.6 4.0 3.6 Altitude 2507 Year 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 MEANS. January 14 2. 12 7.60 6.32 1.88 3.08 3.29 2.19 4.58 February 5.33 3.55 (2.33) 5.96 5.70 5.71 2.40 1.99 1.26 March 207 3.67 28 3.04 3.38 1.26 2.94 1.97 2.32 April 2 69 1.33 4 2 1.74 1.17 49 5 65 1.85 2.03 2.39 May 34 2.12 88 1.13 1.65 1.89 5.87 1.69 2.75 3.19 June 4.06 2.72 344 89 1.03 1.65 .14 1.29 July 4.83 3.71 4.22 4.31 5.30 1.34 4.48 2.14 5.64 August 1.29 4.95 30 1.52 50 2:22 98 1.86 2.96 4.10 September 4.01 3.95 20 4:56 2 50 3 45 4:14 4:35 - 68 October..... 1.60 2:25 27 4233 1:43 6:01 6:70 1.86 2.93 5.37 November 3 99 7.36 522 477 3:57 3:16 3:50 3.46 4.58 December 1.425.04 3 2.96 3.83 2.06 5.84 4.18

Rejected from survey : 6" too Low.

24536 36-24 30 50 4723 28.78

35.85

TOTALS 32.5H 4099 87.00

RAINFALL AT Lowher Caste [Pennth]

| Lat. | | | | Lon. | | | | West | | | |
|-----------|-------|---------|------------|-------|-------|--------|-------|-------|-------|-------|-------|
| Eden - 1 | | _Rain G | auge, by . | | | Observ | er M | 7.7. | Sarke | | |
| Diameter | 8 | | | | | | | | | | |
| Height | 36 | | | | | 3.0 | | | | 3 6 | |
| Altitude, | 750 T | | | | | | | | | 760 | |
| Year | 1890 | 1891 | 1892 | 1893 | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 | MEANS |
| January | 7.79 | 2.85 | 2.04 | 1.84 | 7.96 | 1.63 | 2.05 | 1.05 | 2.34 | 7.25 | 3.68 |
| February | | | | | | 1.08 | | | | | |
| March | | | | | | 4.63 | | | | | |
| April | | | | | | 1.64 | | | | | |
| May | | | | | | 1.69 | | | | | |
| June | | | | | | .96 | | | | | |
| July | | | | | | 5.53 | | | | | |
| August | | | | | | 3.87 | | | | | |
| September | | | | | | 2.82 | | | | | |
| October | | | | | | 4.53 | | | | | |
| November, | | | | | | 6.67 | | | | | |
| December | | | | | | 3.27 | | | | | |
| Totals | 36-85 | 48.71 | 37.26 | 37.28 | 52.01 | 38-32 | 39.69 | 43.21 | 35.29 | 44-44 | 41-30 |

Repected from Durvey: 6" too Low.

RAINFALL AT Low ther land [Penasth]
Lat. Low. Country of Westmoreland,
Rain Gauge, by Observer M. F. Clarke

| Eden | -1. | | | | | | | | 0 | | |
|-----------|-------|-------|-------|-------|----------|-------|-------------------|-------|-------|-------|--------|
| Diameter | 8 | | | | | | | | | | |
| Height | 3.0 | 50 | | 4 0 | | | | | | | |
| Altitude | 750 T | | | 760 | | | | | | | |
| Year | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 | 1906 | 1907 | 1908 | 1909 | MEANS. |
| January | 4.01 | 2.26 | 2.17 | 4.01 | 5.56 | 1.68 | 5.22 | .82 | 2.43 | 2.17 | 3.033 |
| February | | | | | | | | | | | 2.835 |
| March | | | | | | | | 1 | | 1 | 3.019 |
| April | | | | | | | | | | | 2096 |
| May | | | | | | | | | | | 2448 |
| June | | | | | 2010 701 | | The second second | | | | 2:011 |
| July | | | | | | | | | | | 2:119 |
| August | | | | | | | | | | | 3.2.83 |
| September | | | | | | | | | | | 2126 |
| October | 6.40 | 3.31 | 2.7.2 | 7.98 | .97 | 2.28 | 5.42 | 4.68 | 1.09 | 5.22 | 4:007 |
| November | 2.37 | 4.92 | 2.46 | 3.02 | 3.46 | 3.26 | 2.88 | 2.65 | 1.69 | 1.45 | 2816 |
| December | 6.65 | 4.31 | 4.71 | 3.21 | 3.19 | 1.65 | 2.13 | 6.23 | 1.13 | 3.88 | 3:709 |
| TOTALS | 40.96 | 31-33 | 28.41 | 54.06 | 33.80 | 27.61 | 32.41 | 30.93 | 24.34 | 31.17 | 33.502 |

1903 Lowthen Church 1 Mile N.W. Clyfur for then Statum 2 " KE Janger apen garden

Rejected from survey : 6" too Sas.

RAINFALL at Lowherfacthe [Pernith]
County of Sestmodand Observer In 7. Clarke Imp. Joffrey 944
Biver Bavin Educ (

Resording Rain Gauge, by N+3

| Diameter | 8 | | | | | | | | | | |
|-------------|--------------|-------|-----------------|------|----------------------|--------|------|------|------|------|-------|
| Height | 4 0 | | | | | | | | | | |
| Altitude | 760 T | | | | | | | | | | |
| Year | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | MEANS |
| January 3 | .90 | 1-18 | 3.50 | 3.73 | 1.21 | (3.54) | | | | | |
| February \$ | | | | | | | | | | | |
| March 2 | and the same | | rotter License | | | | | | | | |
| April 2 | .63 | 1-94 | .85 | 5.69 | 1.20 | (207) | | | | | |
| May / | | | | | | | | | | | |
| June / | .10 | 3.77 | 3.91 | 1.10 | 1.63 | | | | | | |
| July 2 | | | | | | | | | | | |
| August 4 | | | | | | | | | | | |
| September | | | | | | | | | | | |
| October | | | ALCOHOLD STREET | | Professional Control | | | | | | |
| November 2 | | | | | | | | | | | |
| December 3 | | | | | Service State | | | | | | |
| TOTALS 3; | 200 | 20 11 | 261 | 3/10 | 1163 | 31.0 | | | | | |

gu frenhour 20 phyl 40 ft N

Rejected from Survey 6" los Sous

| Date. | Lat. N. | Long- | Railway Station. | Distance. | Direction. | Church, | Distance. | Direction. |
|-------|---------|-------|------------------|-----------|------------|---------|-----------|------------|
| | 54.39. | 2.40 | Pleftond another | 2 m | NE | Lowsher | 1 30 | NW |
| | | | | | | | | |

| 0 | - |
|---|---|
| / | l |
| _ | - |

| | | | | P | tn. A | J. | 1916. | -50 | 42. | 15" | |
|-----------|------|------|------|------|-------|--|-------|------|------|------|------|
| Diameter | | | | | | 5 | | | | | |
| Height | | | | | | 1.0 | | | | | |
| Altitude | | | | | | 760 | | | | | |
| Year | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | MEAN |
| January | | | | | | 7.01 | 6.36 | и 95 | 9.63 | .77 | 745 |
| February | | | | | | 6 53 | 3.78 | 1.74 | 4:35 | .84 | .45 |
| March | | | | | | 1.52 | 2.09 | 4:45 | 5.08 | .14 | 2.96 |
| April | | | | | | 4.35 | 2.69 | | | | 1.65 |
| May | | | | | | A Committee of the Comm | 1.84 | | | | 1.79 |
| June | | | | | | 16 | 3.57 | 2.89 | 5 32 | 1.69 | 1.99 |
| July | | | | | | 1.59 | 3.51 | 5.38 | 2.85 | 305 | 3.97 |
| August | | | | | | 3.80 | 3.89 | 7.45 | 6:31 | 4.46 | 8.73 |
| September | | | | | | 4.24 | 4.47 | 5.97 | 1.65 | 1.92 | 3.40 |
| October | | | | | | | 3.95 | | | | 6.26 |
| November | | | | | | | 9.31 | | | | 5.19 |
| December | | | | | | | .98 | | | | 6.21 |

NATE Record 61874 book cased during was period 1915-1924.

Wine Time 4 ft. Ligh. 40 ft. N.

Position of Station on veduced Ordnance Sur

1930 Inspected June. Repower gauge satisfactory

Previous record 1874-1914 Rejected from Savey: 6 " too Low. as reworked 1925-32 = 41.8, O.X.

| Date. | Lat. N. | Long. | Railway Station. | Distance Direction from gauge | Parish Church. | Distance Direction |
|-------|---------|-------|------------------|----------------------------------|----------------|--------------------|
| 1925 | | | CLIFTON 8 | | | |
| | | | | | | |
| | | | | | | |

RAINFALL at Penrith (Lowther Castle)

County of West morland, Observer Mr. J. Jeffrey. River Basin Eden-1.

Type of Gauge Snowdon BA 1940

1926-1982 Ref. Av W Shee Annual Average 3.7.2 in based on 35 years obs. un-weighted. Period of average 1831 1916

| , | 42. | 15 | | 1916- | 50 | | | 688 | 124/26 | | | |
|---|-----------|--------------|------|-------|--------|--------|-------|-------|--------|-------|--------|-------|
| | Diameter | 5. | | | | | | | | | | |
| | Height | 1.0 | | | 16 | | 1 0 | | | | | |
| | Altitude | 760. | | | 750 | | | | | | | |
| | Year | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | Means |
|) | January | 3.97 | 9.41 | 6.85 | 5.42 | 2.40 | 6.98 | 5.84 | 6.75 | 6.92 | (1.15) | |
| | February | | -11 | | | | | 4.23 | | | | |
|) | March | | 3.15 | 2.68 | 2.56 | 1.35 | 2.88 | 2.10 | 2.06 | 3.94 | 4.01 | |
| | April | 2.43 | 4.55 | 1.45 | 3.43 | 4.23 | 1-11 | 2.04 | .33 | 1-24 | 2.25 | |
| | May | 2.66 | 3.33 | 3.64 | 3.46 | .80 | 1.63 | 2.45 | 2.83 | -59 | 1.33 | |
| | June | 4.82 | 2.56 | 2.30 | 1.98 | 3.86 | 3.11 | 1.46 | 4-88 | 2.49 | .48 | |
| | July | | | 2.88 | 1.74 | 1.80 | 5.34 | 2.06 | 5.14 | 4-14 | 4.76 | |
| | August | | | 2.22 | 3.58 | 1.84 | 1.49 | 2.10 | 3.56 | 2-14 | 1.38 | |
| | September | 2.04 | 4.54 | 1.95 | 4:64 | 7.12 | 4-33 | 3.11 | 2.18 | 1. 68 | 4.26 | |
| | October | 239 | 696 | 4.01 | 7.68 | 8.24 | 4.56 | 2.62 | 11-49 | 3-11 | 5.59 | |
| | November | 9.00 | 2.90 | 1.87 | .59 | 4.39 | 4 .48 | .96 | 8.51 | b-51 | 5.32 | |
| 6 | December | 3.34 | 5.97 | .52 | 7.74 | 2.52 | 7.56 | 2.82 | 4-61 | 1.96 | 3.84 | |
| | (Fam. 10) | . 2 0 | 1011 | 261 | 112.00 | 111168 | 4500 | 31.82 | 54.20 | 39.26 | 34.02 | 0.16 |
| - | Totals | 145.21 D. | D | D. | J. | J. | #398. | D | D | D | "d" | |

1931 Wise force 4' high 20' N. Wall 16 1934. Whose force 4'6' high 40'N. 1390. Wall 16 high 40'E. Fence 4'6'18'N. Wall 16 high 40'E. Thees 18 thigh 60's.

orked 1925-1982 = 41.8. O.K

Position of Station on reduced Ordnance Survey Map, No. of Map Reference No.

| Date. | Lat. N. | Long. | Railway Station, | Distance Direction from gauge | Parish Church. | Distance Direction from gauge | | |
|-------|---------|-------|-------------------|----------------------------------|----------------|-------------------------------|------|--|
| 1931. | | | Clifton + Lowther | Im N.E. | Lowther | 1m | N.W. | |
| | | | | | | | | |

Air Ministry, Meteorological Office. A.M. Form 1603. Station No. 3689 RAINFALL at Penrith (Low then Castle) County of West morland Observer Mr. I Teffrey Eden - 1 THE HEAD GRADENER River Basin B. A. Snowdon Tupe of Gauge.... Annual Average 418 in based on 8 years obs. we weighted. Period of average 1925-1932 Ref. Survey File No. 688124 26 42.15 1916-50 201 5 Diameter 604 760 Height 10 Altitude 450 41 1942 1943 1944 1945 1946 1947 1948 1949 1950 Means 1941 Year 882 2.37 4.13 3.36 4.32 5.45 2.98 January 76 3.72 7-18 2.06 3.69 3.77 1.13 3.36 3.39 February 5.27 3.59 5.19 2.99 59 2 13 1.90 6.71 3.41 .95 March 2.79 2.23 .92 2.52 258 4.41 2.56 April61 1.98 1.93 1.26 7.75 3.25 3.18 203 2.68 Mav 2.84 1.25 425 .77 3.16 2.19 3.27 3.53 5.28 .37 June -24 1.98 3.68 3.39 3.20 1.57 .76 3.22

452 185 August 579 97 1.62 4.76 '06 6.74 4.37 TOT 3.70 1.14 5.21 348 601 2.83 September 1.06 8.07 3.75 4.50 5.26 283 6.39 October 4.84 6.10 .96 .59 3.92 3.72 4:38 November ... 3.09 40 7.65 4.70 252 6.19 3.77 8.43 1.06 3.31 5.33 4.25 2.33 5.45 2.69 4:50 1.69 2.48 December ... 6.51 2.60

2.83 263 3.62 2.90

1.45 2.16

3.95

45.94

4543 39.72 35,96 4291 40.17 4583 39.15 1941: - Fence 5 ligh 30 5

31.5738.01

1.53

2.38 1.86

July

TOTALS

Position of Station on reduced Ordnance Survey Map, No. of Map. Reference No. 35- 525329 1 mile to 1 inch Series

| Date. | Lat. N. | Long. | Railway Station. | Distance Direction from gauge | Parish Church. | Distance Direction from gauge. | |
|-------|---------|-------|------------------|----------------------------------|----------------|--------------------------------|--|
| 1941 | | | blifton In ther | mile N. E | dowthen | mile N.W. | |

National Grid Reference 35-525329 Position of Station on Ordnance One-Inch map : No. of Map. Distance Direction Distance Direction Railway Station. Parish Church. Date. Lat. N. Long. from gauge from gauge. clifton NW Iml. NE 1952. 1-ml Lowther

Summary of Earlier Records from 10-year Sheets:

| Summary of E | arner Accords from | | | | T 00 I | 1074.00 |
|-------------------|--------------------|------------|---------|-----------|-------------|---------|
| | | 1910-19 -6 | 1920-30 | 1931-40 | 1941-50 | 1951-60 |
| Record D, or d | 2 | 10-14 | 25-30 | V | 1 | 1 |
| <i>D</i> , or u |) | - | / | Vouted 40 | but d 41-42 | 4 |
| (6-) Wt 12072-280 | row 6lso TS 841 | | | | | |