

2808/5

RAINFALL AT Formby (Hightown)

Lat.

Lon.

County of Lancashire

Rain Gauge, by

Observer R.W. Eaton Esq.

Alt. accr 1

| | | | | | | | | | | | |
|-----------------|------|------|------|------|-------|-------|-------|-------|-------|-------|--------|
| Diameter | | | | | 5 | | | | | | |
| Height | | | | | | | | | | | |
| Altitude | | | | | | | | | | | |
| Year | 1890 | 1891 | 1892 | 1893 | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 | MEANS. |
| January | | | | | 1.99 | 2.93 | .95 | 1.29 | 2.08 | 3.67 | |
| February | | | | | 3.41 | 2.20 | .89 | 2.11 | 2.15 | 1.16 | |
| March | | | | | 1.82 | 2.17 | 4.09 | 2.57 | .84 | 1.21 | |
| April | | | | | .97 | 1.48 | .85 | 2.57 | 1.71 | 2.45 | |
| May | | | | | 2.40 | 1.07 | .30 | 1.22 | 3.27 | 1.93 | |
| June | | | | | 2.03 | .41 | 2.05 | 4.14 | 2.86 | 1.17 | |
| July | | | | | 1.36 | 2.74 | 4.03 | 1.09 | .33 | 1.95 | |
| August | | | | | 3.27 | 2.54 | 2.49 | 5.34 | 4.17 | 1.32 | |
| September | | | | | .67 | 1.11 | 3.98 | 3.27 | 1.71 | 3.57 | |
| October | | | | | 3.63 | 5.11 | 4.68 | 1.13 | 2.65 | 2.03 | |
| November | | | | | 2.72 | 2.10 | 1.55 | 1.51 | 2.74 | 1.41 | |
| December | | | | | 3.18 | 2.77 | 3.89 | 2.59 | 2.20 | 2.64 | |
| TOTALS | | | | | 27.35 | 24.63 | 29.75 | 28.83 | 26.71 | 24.53 | |

Back years 1894-1936 received 19.X.37.

RAINFALL at Formby (Hightown)

County of Lancashire

Observer R.W. Eaton Esq.

River Basin. Alt. 42 - 1

Type of Gauge.

Annual Average.....in. based on.....years obs. un-weighted. Period of average.....

Ref.....

| Diameter | | | | | | | | | | | | |
|-----------------|--|--|--|--|--|--|--------------------------------------|------------------------------|----------------------|--------------|------|-------|
| Height | | | | | | | | | | | | |
| Altitude | | | | | | | | | | | | |
| Year | 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 | 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 | 1902 1903 1904 1905 1906 1907 1908 1909 1910 | 1903 1904 1905 1906 1907 1908 1909 1910 | 1904 1905 1906 1907 1908 1909 1910 | 1905 1906 1907 1908 1909 1910 | 1906 1907 1908 1909 1910 | 1907 1908 1909 1910 | 1908 1909 1910 | 1909 1910 | 1910 | Means |
| January | 2.64 | 2.11 | 2.10 | 2.24 | 3.14 | 1.16 | 3.60 | 1.23 | 2.33 | 2.53 | | |
| February | 3.46 | 1.32 | 2.00 | 2.13 | 3.81 | 1.23 | 2.73 | 1.59 | 3.25 | 1.21 | | |
| March | 2.33 | 2.27 | 2.02 | 2.86 | 1.54 | 3.06 | 2.35 | 2.10 | 3.41 | 2.67 | | |
| April | 1.64 | .86 | 1.39 | 1.79 | 1.44 | 2.06 | .87 | 1.01 | 2.55 | 3.78 | | |
| May | 1.60 | 1.20 | 2.59 | 3.07 | 1.22 | .59 | 2.94 | 1.99 | 2.72 | 1.36 | | |
| June | 2.74 | 1.60 | 1.88 | 1.89 | 1.70 | 1.76 | 1.45 | 5.77 | 1.87 | 4.09 | | |
| July | .82 | 1.58 | 2.53 | 1.77 | .75 | 2.33 | 1.26 | 2.74 | 3.20 | 5.10 | | |
| August | 5.97 | 2.96 | 1.75 | 4.31 | 2.96 | 2.57 | 2.88 | 3.42 | 2.92 | 4.61 | | |
| September | 1.14 | .96 | .94 | 4.42 | 1.67 | 1.68 | 1.56 | .75 | 4.25 | 3.01 | | |
| October | 4.29 | 3.66 | 3.02 | 6.49 | 2.32 | 2.13 | 5.18 | 4.08 | 2.09 | 4.30 | | |
| November | 3.23 | 3.77 | 1.52 | 3.70 | 1.88 | 3.73 | 1.98 | 3.26 | 2.88 | 1.44 | | |
| December | 2.93 | 3.42 | 2.60 | 1.61 | 2.82 | .85 | 3.47 | 3.45 | 2.72 | 7.34 | | |
| TOTALS | 32.79 | 25.71 | 24.34 | 36.28 | 25.25 | 23.14 | 30.27 | 31.39 | 34.19 | 41.144 | | |

↓ Back yrs. 1894-1936 received 19.x.37. (The records 1909-1911 may be too big)

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 | Parish Church. | Distance from gauge |
|-------|---------|-------|------------------|---------------------|-----------|----------------|---------------------|
| | | | | | | | |

RAINFALL at Formby (Hightown).

County of Lancashire

Observer R.W. Eaton Esq.

River Basin. Alt. c. 1

Type of Gauge.

Annual Average.....in. based on.....years obs. un-weighted. Period of average.....Ref.

| Diameter | | | | | | | | | | | | |
|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------------------|------|
| Height | | | | | | | | | | | | |
| Altitude | | | | | | | | | | | | |
| Year | 1910 1931 | 1911 1932 | 1912 1933 | 1913 1934 | 1914 1935 | 1915 1936 | 1916 1937 | 1917 1938 | 1918 1939 | 1919 1940 | 1916-19 Means Total | |
| January | 3.97 | 1.12 | 5.78 | 2.48 | 1.57 | 3.63 | 1.40 | 1.64 | 2.48 | 3.28 | 8.80 | |
| February | 3.27 | 2.27 | 1.59 | .94 | 1.65 | 2.70 | 2.81 | 1.21 | 2.75 | 1.12 | 7.89 | |
| March | 1.13 | 1.80 | 4.25 | 3.29 | 2.99 | 1.45 | 1.69 | 2.27 | .73 | 4.91 | 9.60 | |
| April | 2.38 | 2.37 | .62 | 3.18 | .62 | 1.66 | 1.92 | 2.81 | 1.36 | 1.53 | 7.62 | |
| May | 3.25 | .82 | 1.61 | 2.45 | 1.77 | 1.20 | 2.25 | 2.69 | 3.36 | 1.40 | 9.70 | |
| June | 4.16 | 3.50 | 3.54 | 2.67 | 1.72 | 1.20 | 1.71 | 1.61 | 1.56 | 1.26 | 6.14 | |
| July | 4.21 | .86 | 2.18 | 2.42 | 4.68 | 2.83 | 1.17 | 1.31 | 4.02 | 1.85 | 8.35 | |
| August | 4.69 | 3.71 | 7.28 | 3.34 | 2.01 | 4.04 | 1.62 | 5.76 | 2.33 | 3.28 | 12.99 | |
| September | .64 | 6.07 | 1.82 | 2.63 | 3.47 | 1.28 | 2.98 | 2.36 | 7.64 | 2.16 | 15.14 | |
| October | 3.16 | 2.82 | 4.24 | 2.31 | 1.66 | 1.38 | 5.42 | 6.13 | 2.68 | 2.89 | 17.12 | |
| November | 7.57 | 3.38 | 2.11 | 3.21 | 3.01 | 2.15 | 2.08 | 3.37 | 1.65 | 1.70 | 8.80 | |
| December | 3.33 | 6.15 | 2.47 | 2.27 | 5.30 | 5.37 | 1.80 | 1.68 | 5.41 | 4.78 | 13.67 | |
| TOTALS | 41.76 | 34.87 | 37.49 | 31.19 | 30.45 | 28.89 | 26.85 | 32.84 | 35.97 | 30.16 | 125.82 | Holt |

✓ Back years 1894-1936 received 19-2-37. (the years 1909-1911
will be later)

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 | Parish Church. | Distance from gauge |
|-------|---------|-------|------------------|---------------------|-----------|----------------|---------------------|
| | | | | | | | |

RAINFALL at Formby (Hightown)

County of Lancashire

Observer. R.W. Eaton Esq.

River Basin. Alt &c.

Rain Gauge, by

| Diameter | 5 | | | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|
| Height | | | | | | | | | | | | |
| Altitude | | | | | | | | | | | | |
| Year | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 | 1920-30 Total |
| January | 3.34 | 3.41 | 3.22 | 2.01 | 2.80 | 1.69 | 2.51 | 3.54 | 5.30 | 1.52 | 4.42 | 33.76 |
| February | 2.65 | 1.65 | 3.49 | 3.50 | 5.52 | 4.60 | 2.65 | 1.29 | 2.95 | .81 | .52 | 23.62 |
| March | 4.21 | 2.27 | 1.18 | 1.40 | 1.12 | .78 | .60 | 2.75 | 1.72 | 1.18 | 2.90 | 20.11 |
| April | 4.08 | 1.27 | 1.61 | 2.16 | 1.79 | 1.91 | 1.14 | 1.65 | .79 | .86 | 3.09 | 20.25 |
| May | 3.22 | 2.05 | 1.12 | 3.24 | 3.64 | 4.07 | 3.10 | .72 | 1.38 | 1.70 | .98 | 25.22 |
| June | 3.28 | 1.41 | 1.75 | .64 | 4.34 | .12 | 1.46 | 3.18 | 4.22 | 1.35 | 1.75 | 22.39 |
| July | 5.56 | 1.01 | 4.27 | 2.59 | 4.55 | 3.04 | 3.64 | 2.85 | 1.43 | 2.31 | 4.03 | 35.18 |
| August | 2.09 | 4.32 | 3.33 | 3.33 | 5.12 | 2.64 | 2.86 | 4.55 | 3.73 | 4.37 | 5.96 | 42.20 |
| September | 2.56 | 1.63 | 3.16 | 3.10 | 2.96 | 4.69 | 4.19 | 4.19 | 1.14 | 1.67 | 3.18 | 33.47 |
| October | 1.84 | 2.90 | 1.47 | 3.61 | 4.61 | 3.61 | 3.70 | 2.67 | 3.50 | 4.96 | 4.33 | 36.20 |
| November | 1.41 | 2.72 | 1.99 | 3.64 | 2.10 | 2.75 | 4.75 | 4.41 | 4.99 | 5.15 | 5.73 | 39.54 |
| December | 2.16 | 3.27 | 4.02 | 4.25 | 4.19 | 2.41 | 1.10 | .99 | 2.55 | 5.08 | 3.88 | 37.90 |
| TOTALS | 36.40 | 25.91 | 29.51 | 33.27 | 38.74 | 32.21 | 31.59 | 32.79 | 33.70 | 30.96 | 40.77 | 365.88 |

Back years 1894 - 1936 received 19.2.37.

40/6

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 | Parish Church. | Distance from gauge |
|-------|---------|-------|------------------|---------------------|-----------|----------------|---------------------|
| | | | | | | | |

RAINFALL at Formby (Hightown)

County of Lancashire

Observer R. W. Egerton Esq.

River Basin Alt. &c. - 1

Lancashire County Council *

Type of Gauge

Annual Average in. based on years obs. un-weighted. Period of average

Ref.

579013/36

| Diameter | | | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|
| Height | | | | | | | | | | | |
| Altitude | | | | | | | | | | | |
| Year | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | Means Total |
| January | 2.87 | 3.03 | 1.84 | 2.00 | 1.56 | 4.23 | 2.24 | 3.09 | 4.91 | 2.82 | 28.69 |
| February | 2.72 | .05 | 2.33 | .14 | 2.76 | 2.24 | 4.79 | .98 | 2.28 | 2.43 | 20.72 |
| March | .59 | 1.92 | 1.87 | 1.35 | .91 | 1.80 | 1.75 | 1.20 | 1.71 | 2.03 | 15.13 |
| April | 2.25 | 2.73 | 1.32 | 1.64 | 2.02 | .93 | 2.93 | .21 | 2.30 | 1.84 | 18.17 |
| May | 2.46 | 4.11 | 1.94 | 2.27 | 1.39 | .64 | 2.22 | 3.11 | 1.45 | 2.54 | 22.13 |
| June | 5.25 | .44 | 1.48 | 1.92 | 2.77 | 3.51 | 1.80 | 3.68 | 3.55 | .63 | 25.03 |
| July | 3.07 | 4.64 | 1.52 | 1.20 | 1.74 | 3.17 | 1.70 | 2.96 | 5.91 | 4.22 | 30.13 |
| August | 5.01 | 1.53 | 1.79 | 2.78 | 3.14 | 1.61 | 1.46 | 4.28 | 1.44 | .97 | 23.91 |
| September | 3.08 | 3.81 | 1.09 | 2.06 | 5.86 | 3.50 | 2.07 | 2.22 | .91 | 2.84 | 27.44 |
| October | 2.30 | 6.86 | 3.23 | 4.12 | 5.05 | 2.20 | 2.32 | 6.44 | 2.27 | 3.94 | 38.75 |
| November | 5.53 | 2.01 | 1.53 | 2.44 | 3.30 | 3.87 | 1.68 | 4.24 | 4.51 | 5.39 | 34.50 |
| December | 1.35 | 1.77 | .66 | 3.76 | 3.16 | 3.23 | 1.96 | 3.80 | 3.74 | 2.59 | 26.02 |
| TOTALS | 36.48 | 32.92 | 20.60 | 25.68 | 33.66 | 30.93 | 26.92 | 36.21 | 34.98 | 32.24 | 310.62 |
| | mpv | d | d | ff |

Back years 1894-1936 received 19. x. 37.

1937 m/p late.

Inspected 19.9.38 - Gauge sound but situated on ground sloping down to north to R. alt.

Per Wand Draage Enginier

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 | Parish Church. | Distance from gauge | Direction |
|-------|---------|-------|------------------------------|---------------------|-----------|----------------------|---------------------|-----------|
| | 53° 32' | 3° 4' | Alcester Rifle Range Station | 500 yds ESE | | Formby Power Station | 1300 yds | N |

High Town Station No. T.F. 2808/5

RAINFALL at Townby (High Town) + A.

41

County of Lancashire

Observer Lancashire County Council*

River Basin Alt + 6 - 1

Mersey River Basin (1937)

Type of Gauge.

Annual Average in. based on years obs. un-weighted. Period of average.

Ref.

File No. 549013/36

| Diameter | 5" | 563 | 594 | | | | | | | | |
|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---------------------------|
| Height | 10" | | | 1 | | | | | | | |
| Altitude | | | | 41 | 25' | | | | | | |
| Year | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | 1941-50 Means Total |
| January | 1.59 | 4.11 | 3.66 | 4.00 | 2.18 | 4.24 | 2.53 | 6.22 | 2.65 | 1.28 | 32.51 |
| February | 3.45 | 1.37 | 1.70 | 1.42 | 3.21 | 4.69 | .88 | 1.82 | 1.32 | 4.36 | 24.22 |
| March | 2.92 | 2.73 | .59 | .77 | .99 | .85 | 4.49 | 1.15 | 2.23 | 1.29 | 18.01 |
| April | 1.66 | 1.57 | 1.51 | 2.54 | 1.94 | 1.07 | 2.91 | 1.35 | 2.54 | 2.61 | 19.63 |
| May | 1.43 | 3.39 | 3.12 | 1.75 | 3.87 | 1.92 | 4.25 | 1.90 | 2.52 | .80 | 25.25 |
| June | .38 | .25 | 2.26 | 1.93 | 2.56 | 3.50 | 2.50 | 3.80 | .69 | 1.32 | 19.19 |
| July | 1.75 | 2.92 | 4.55 | 2.65 | 3.73 | 4.29 | 3.54 | 2.16 | 1.79 | 2.62 | 30.00 |
| August | 3.10 | 5.25 | 4.52 | 2.67 | 1.58 | 4.70 | .23 | 3.69 | 2.06 | 5.90 | 33.70 |
| September | .84 | 2.34 | 3.58 | 5.80 | 2.15 | 3.83 | 2.81 | 2.64 | .77 | 5.47 | 30.23 |
| October | 4.26 | 2.51 | 4.05 | 3.77 | 4.02 | .71 | .75 | 2.65 | 4.20 | 2.53 | 29.44 |
| November | 2.09 | .86 | 2.16 | 5.77 | .25 | 4.88 | 3.50 | 2.23 | 4.44 | 4.28 | 30.71 |
| December | 1.10 | 3.17 | 1.76 | 2.37 | 2.68 | 3.59 | 2.04 | 3.37 | 5.14 | 3.32 | 28.54 |
| TOTALS | au.76 d | 30.47 d | 33.46 d | 35.44 d | 29.16 d | 38.32 d | 30.43 d | 32.98 d | 30.68 d | 35.73 d | 321.42 4100 |

* Per Land Drainage Engineer for Henry River Board (1930).

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 | Parish Church. | Distance from gauge |
|-------|---------|-------|------------------|---------------------|-----------|----------------|---------------------|
| | | | | | | | |

Station No. 28085 N. 84

RAINFALL at Formby (Highdown)

51

County of Lancashire

Observer Lancashire County Council*

River Basin Alt & G-1

Mersey River Board 45°

Type of Gauge.

(A)

Annual Average in. based on years obs. un-weighted. Period of average.

32.10 " 35 " 1916-1950

Ref. E1007751/52 P

File No. E99012/26E672143

| Diameter ... | 5" | | | 568 | 594 | | | | | | |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Height ... | 1' 0" | | | | | 1 | | | | | |
| Altitude ... | 201 | | | | | 51 | | | | | |
| Year ... | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | Means |
| January | 2.88 | 3.28 | 1.25 | 2.83 | 2.67 | 3.82 | 2.03 | 2.73 | 3.11 | 4.83 | 29.43 |
| February | 2.46 | 1.84 | 1.11 | 3.50 | 2.26 | 3.3 | 2.22 | 4.59 | 2.24 | 2.18 | 19.73 |
| March | 4.50 | 1.68 | .98 | 2.38 | 1.62 | 1.30 | 2.11 | 1.46 | 1.50 | 1.65 | 19.18 |
| April | 1.41 | 1.93 | 2.08 | 1.10 | 1.62 | 2.16 | .92 | .90 | 2.36 | 1.33 | 15.21 |
| May | 2.90 | 2.08 | 1.96 | 2.55 | 2.62 | 1.11 | 1.59 | 3.37 | 1.93 | 2.29 | 22.40 |
| June | 81 | 1.76 | 1.58 | 3.23 | 3.22 | 1.91 | 1.22 | 3.22 | 3.24 | 0.94 | 20.53 |
| July | 1.66 | 1.23 | 2.22 | 3.48 | .85 | 4.20 | 3.63 | 3.83 | 3.42 | 4.16 | 28.68 |
| August | 5.12 | 2.08 | 3.73 | 3.78 | 1.21 | 11.71 | 4.10 | 3.49 | .61 | 3.65 | 39.48 |
| September | 2.40 | 4.15 | 3.69 | 3.97 | 2.27 | 2.99 | 5.04 | 3.74 | .45 | 2.75 | 31.45 |
| October | .90 | 3.33 | 1.40 | 5.99 | 2.23 | 2.13 | 3.34 | 2.93 | 3.00 | 3.00 | 28.30 |
| November | 4.40 | 2.44 | 3.82 | 6.58 | 1.34 | 1.67 | 1.16 | 1.71 | 4.93 | 5.93 | 36.98 |
| December | 5.23 | 3.65 | 1.57 | 3.39 | 3.62 | 2.48 | 2.60 | 3.35 | 5.38 | 3.26 | 34.43 |
| TOTALS ... | 37.67 | 28.36 | 26.39 | 42.78 | 25.53 | 35.21 | 29.36 | 35.37 | 30.17 | 35.97 | 325.80 |

1951 West fence 5' at 6' 6" Encircling hut 12' at 30° S. Bushes 15' at 40° W.

Inspected July 1958. Mr. Decl. Gauge sand. recent landslides. Site on bank of River alt. of fence 2' 58". Recommend site in nearby garden or move to site behind hut.

Local Drainage Engineer

Position of Station on Ordnance One-Inch map : No. of Map National Grid Reference 56f/286044

| Date. | Lat. N. | Long. | Railway Station. | Distance from gauge | Direction | 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 |
|-------------------|--|---------|---------|-------------------------|---------|---------|
| | | ✓ | ✓ | ✓ d 17, 39, 40 38 | ✓ | ✓ |