

RAINFALL AT

Eccles (Worsley Hall)

80

Lat.

Lon. County of Lancashire

Rain Gauge, by

Observer W. W. B. Higgins

Messrs. Inwell & Co

| | | | | | | | | | | | |
|----------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|--------|
| Diameter | | | | 8 | | | | | | | |
| Height | | | | 6 | 10. | | | | | | |
| Altitude | | | | 80 | | | | | | | |
| Year | 1880 | 1881 | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | MEANS. |
| January | | | | 4.18 | 3.48 | 1.69 | 4.31 | 2.43 | 1.51 | .94 | |
| February | | | | 2.45 | 3.12 | 2.55 | .71 | .88 | .74 | 1.93 | |
| March | | | | .98 | 1.61 | 1.67 | 2.25 | 1.44 | 1.70 | 1.85 | |
| April | | | | 1.87 | .79 | 1.46 | 1.32 | .84 | 1.13 | 1.63 | |
| May | | | | .56 | 1.50 | 1.83 | 4.34 | 1.88 | .57 | 3.18 | |
| June | | | | 4.09 | .85 | 3.55 | 2.10 | .95 | 3.04 | .71 | |
| July | | | | 2.63 | 3.89 | 1.53 | 2.98 | .91 | 6.85 | 3.81 | |
| August | | | | 2.49 | .70 | 1.69 | 1.76 | 1.07 | 3.63 | 5.17 | |
| September | | | | 5.75 | 3.16 | 4.91 | 3.97 | 4.32 | 1.06 | 2.60 | |
| October | | | | 5.35 | 1.73 | 5.57 | 5.04 | 1.71 | 1.74 | 2.38 | |
| November | | | | 3.20 | 1.05 | 3.26 | 2.51 | 1.21 | 4.51 | 1.75 | |
| December | | | | 3.86 | 4.08 | 2.03 | 4.28 | 2.02 | 2.07 | 1.63 | |
| TOTALS | | | | 57.41 | 26.46 | 31.70 | 35.57 | 19.66 | 28.55 | 27.58 | |

1883. Worsley Ch. In. E.N.E.

Chimney 60 ft high 40 ft N.E.

Values rejected from Survey (5" low).

RAINFALL AT Eccles Worsley Hall Garden

Lat. _____

Lon. _____

County of Lancashire

Rain Gauge, by _____

Observer Mr W.B. Upjohn

Musey - Jewell 3

| | | | | | | | | | | | |
|---------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Diameter | 8 | | | | | | | | | | |
| Height | 10 0 8.6 | | | | | | | 8-0 | | | |
| Altitude | 80 L | | | | | | | 100 | | | |
| Year | 1890 | 1891 | 1892 | 1893 | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 | MEANS. |
| January | 3.03 | 1.84 | 2.88 | .69 | 1.33 | 2.08 | .50 | 1.31 | 1.45 | 3.46 | |
| February | .21 | .05 | 2.10 | 3.12 | 3.20 | .22 | 1.17 | 1.99 | 1.47 | 1.00 | |
| March | 2.23 | 1.44 | .77 | .59 | 2.03 | 2.64 | 3.69 | 2.03 | .86 | .94 | |
| April | .63 | 1.70 | .98 | .51 | 1.22 | 1.44 | 1.18 | 2.04 | .74 | 2.35 | |
| May | 1.58 | 1.74 | 2.82 | 1.43 | 2.05 | .67 | .30 | 1.48 | 2.27 | 2.44 | |
| June | 1.90? | 2.53 | 3.45 | 1.47 | 2.59 | 1.38 | 1.54 | 3.35 | 1.83 | 1.25 | |
| July | 2.57 | .82 | 3.35 | 2.62 | 2.32 | 4.40 | 1.70 | 1.21 | .15 | 2.31 | |
| August | 3.57 | 6.15 | 4.78 | 1.75 | 3.09 | 2.37 | 1.91 | 2.64 | 3.60 | 1.32 | |
| September.... | .69 | 2.78 | 3.53 | 3.35 | .69 | 2.12 | 4.98 | 3.86 | .33 | 5.23 | |
| October | 1.89 | 3.61 | 4.28 | 2.13 | 2.51 | 3.16 | 3.72 | 1.79 | 3.09 | 2.93 | |
| November | 2.81? | 3.13 | 2.17 | 1.81 | 1.78 | 1.64 | .93 | 1.53 | 1.79 | 1.66 | |
| December | .45 | 5.15 | 2.69 | 3.10 | 2.42 | 2.56 | 3.84 | 4.43 | 2.29 | 2.34 | |
| TOTALS | 21.56? | 30.94 | 33.80 | 22.57 | 25.23 | 24.68 | 25.46 | 27.66 | 19.87 | 27.23 | |

1890 Record doubtful

1891 Worsley Church 1 Mile NE by E

Chimney 50 ft high 30 ft NE

1898 Eight or ten inches too small. New g. fixed in 1899

Annual values rejected from survey (5.10)

RAINFALL AT Eccles Worley Old Hall

Lat. _____

Lon. _____

County of _____

Lancashire

Rain Gauge, by _____

Observer _____

W. Bourke Esq C.E.
Mersey - Inwell 3

| | | | | | | | | | | | |
|---------------|------|------|------|------|------------------|-------|-------|-------|-------|-------|--------|
| Diameter | | | | | 5 | | | | | | |
| Height | | | | | 1 0 | | | | | | |
| Altitude | | | | | 185 R | | | | | | |
| Year | 1890 | 1891 | 1892 | 1893 | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 | MEANS. |
| January | | | | | 2.41 | 3.06 | 1.37 | 1.72 | 2.36 | 4.40 | |
| February | | | | | 4.82 | .43 | 2.38 | 2.85 | 2.42 | 1.09 | |
| March | | | | | 3.08 | 3.00 | 4.37 | 2.89 | 1.20 | 1.71 | |
| April | | | | | 1.54 | 2.08 | 1.89 | 2.46 | 1.86 | 3.30 | |
| May | | | | | 2.79 | .70 | .50 | 1.96 | 3.33 | 2.62 | |
| June | | | | | 3.16 | 1.72 | 2.52 | 4.77 | 2.70 | 1.28 | |
| July | | | | | 3.57 | 5.24 | 2.37 | 1.50 | .47 | 2.26 | |
| August | | | | | 4.11 | 3.62 | 2.85 | 3.75 | 5.07 | 1.32 | |
| September.... | | | | | .81 | 2.38 | 6.33 | 4.17 | .53 | 5.62 | |
| October..... | | | | | 3.79 | 3.80 | 4.66 | 2.09 | 3.71 | 3.09 | |
| November.... | | | | | 2.25 | 2.93 | 1.22 | 4.75 | 2.79 | 1.58 | |
| December | | | | | 3.17 | 3.87 | 4.42 | 4.29 | 3.33 | 2.78 | |
| TOTALS . . . | | | | | 35.50 | 32.83 | 34.88 | 37.20 | 29.77 | 31.05 | |

1894 Worley Church $\frac{1}{4}$ mile E
 Bushes 8 ft high 15 ft N. W. SE.

RAINFALL AT Eccles Worsley New Hall

Lat.

Lon.

County of Lancashire South

Rain Gauge, by

Observer

For W.B. Uppin

Mersey Swell 3

| | | | | | | | | | | | |
|---------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Diameter .. | 8 | | | | | | | | | | |
| Height | 8 0 | | | | | | | 10 0 | | | |
| Altitude .. | 100 ft | | | | | | | | 80 | | |
| Year | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 | 1906 | 1907 | 1908 | 1909 | MEANS. |
| January .. | 4.34 | 2.28 | 2.49 | 2.01 | 2.45 | 1.68 | 4.19 | 1.19 | 2.22 | 1.32 | 2.417 |
| February .. | 2.89 | 1.04 | 1.18 | 2.33 | 2.86 | 1.57 | 2.57 | 1.32 | 2.79 | .88 | 1.943 |
| March | .59 | 2.29 | 1.54 | 3.20 | 1.34 | 3.08 | 2.06 | 2.29 | 2.28 | 2.63 | 2.130 |
| April | 1.55 | 2.05 | 1.87 | 1.02 | 1.50 | 2.26 | 1.90 | 1.23 | 2.76 | 3.05 | 1.919 |
| May | 1.61 | .70 | 3.21 | 4.35 | 2.39 | .50 | 2.56 | 3.41 | 2.74 | 1.84 | 2.331 |
| June | 2.74 | 1.77 | 1.79 | 2.33 | 1.40 | 1.91 | 1.22 | 5.31 | 2.08 | 2.13 | 2.268 |
| July | 2.47 | 2.40 | 1.63 | 3.39 | 1.55 | 2.20 | 1.63 | 3.27 | 4.63 | 4.91 | 2.808 |
| August | 6.34 | 1.87 | 2.56 | 3.56 | 4.05 | 3.88 | 3.27 | 3.89 | 2.98 | 3.14 | 3.554 |
| September .. | 1.00 | .63 | .77 | 4.49 | 1.65 | 2.24 | 1.76 | .70 | 2.99 | 2.36 | 1.859 |
| October | 5.45 | 2.95 | 4.09 | 7.03 | 1.96 | 3.06 | 5.42 | 3.41 | 1.82 | 4.97 | 4.016 |
| November .. | 2.44 | 3.66 | 1.92 | 3.64 | 2.48 | 2.90 | 2.49 | 2.61 | 2.53 | 1.03 | 2.570 |
| December .. | 3.98 | 3.56 | 2.26 | 1.09 | 2.89 | .26 | 3.79 | 3.08 | 1.88 | 6.25 | 2.904 |
| TOTALS .. | 35.40 | 25.20 | 25.31 | 38.44 | 26.52 | 25.54 | 32.86 | 31.71 | 31.70 | 34.51 | 30.719 |

1900 Worsley Church 1 mile E by NE

Chimney 50 ft high 90 ft NE

1908 Worsley Station 2 miles E

Annual average rejected from survey (5" loss)

RAINFALL AT Eccles Worsley Old Hall

Lat.

Lon.

County of Lancashire South

Rain Gauge, by Basartelli
1908

Observer W. B. Clarke
W. B. Clarke

Mersey Level 3

| | | | | | | | | | | | |
|--------------|--------|-------|-------|------|------|-------|-------|-------|-------|-------|--------|
| Diameter .. | 5 | | | | | | | | | | |
| Height | 1.0 | | | | | | | 1.6 | | | |
| Altitude .. | 185 ft | | | | | | | 150 | | | |
| Year | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 | 1906 | 1907 | 1908 | 1909 | MEANS. |
| January .. | 4.69 | 2.71 | 3.23 | 2.05 | | 2.14 | 4.61 | 2.12 | 3.34 | 2.01 | |
| February .. | 3.37 | 1.40 | 1.57 | 2.83 | | 1.92 | 3.14 | 2.52 | 3.51 | 1.10 | |
| March | .65 | 2.65 | 1.87 | 3.54 | | 3.83 | 1.73 | 4.53 | 3.02 | 3.50 | |
| April | 2.29 | 2.74 | 2.33 | 1.24 | | 3.02 | 1.96 | 1.98 | 2.76 | 3.16 | |
| May | 1.87 | .95 | 3.82 | 4.41 | | .61 | 2.54 | 6.14 | 3.27 | 2.04 | |
| June | 3.05 | 2.08 | 2.03 | 2.21 | | 2.43 | 1.07 | 7.35 | 2.22 | 2.19 | |
| July | 2.73 | 2.47 | 2.52 | 3.52 | | 2.05 | 1.37 | 4.65 | 4.46 | 5.04 | |
| August | 6.65 | 2.18 | 3.05 | 4.65 | | 4.35 | 3.35 | 6.64 | 2.98 | 3.18 | |
| September .. | 1.60 | .75 | 1.32 | 4.87 | | 2.77 | 3.05 | 1.19 | 2.90 | 2.51 | |
| October | 5.72 | 3.33 | 4.53 | 8.43 | | 3.49 | 8.77 | 4.85 | 1.98 | 5.29 | |
| November .. | 2.71 | 4.02 | 2.25 | | | 3.88 | 4.02 | 4.33 | 2.78 | 1.51 | |
| December .. | 4.39 | 4.13 | 2.59 | | | .32 | 7.54 | 5.51 | 2.87 | 6.84 | |
| TOTALS .. | 39.72 | 29.41 | 31.11 | | | 30.81 | 43.15 | 51.81 | 36.09 | 38.37 | |

- 1900 Worsley Church $\frac{1}{4}$ mile E
Bushes 8 ft high 15 ft N.W. + S.E.
- 1905 Wood 60 ft high 30 yards S.W.
The two gauges are kept by two farmers & are $\frac{1}{4}$ mile apart & separated by a wood on rising ground
- 1907 Bad - not printed.
- 1908 New g. by Basartelli of Manchester.
Not printed too big.
- 1909 Worsley Station 1 mile S.E.

RAINFALL at Eccles Worsley New HallCounty of South LancashireObserver Mr W.B. UpjohnRiver Basin Messy, Inwell 3

Rain Gauge, by _____

| | | | | | | | | | | | |
|--------------|-------|------------|-------|-------|-------|-------|-------|------|------|------|--------|
| Diameter ... | 8 | | | | | | | | | | |
| Height | 10 .0 | | | | | | | | | | |
| Altitude ... | 80 T | | | | | | | | | | |
| Year ... | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | MEANS. |
| January ... | 3.48 | .83 | 3.45 | 3.84 | 2.01 | 4.87 | 2.31 | | | | |
| February ... | 2.09 | 2.58 | 1.23 | 1.16 | 1.78 | 3.09 | 3.84 | | | | |
| March | .58 | .83 | 4.58 | 2.99 | 3.34 | 1.47 | 1.59 | | | | |
| April | 2.64 | 2.09 | .57 | 3.84 | 1.17 | 1.43 | 2.69 | | | | |
| May | 3.20 | .99 | 2.06 | 2.52 | 2.00 | 1.37 | 2.72 | | | | |
| June | 2.73 | 2.44 | 4.32 | 1.99 | 2.08 | 3.39 | 3.09 | | | | |
| July | 3.85 | .27 | 5.15 | .90 | 3.54 | 4.53 | 2.17 | | | | |
| August | 4.95 | 3.05 | 6.44 | 2.45 | 4.21 | 5.18 | 2.88 | | | | |
| September .. | .22 | 3.93 | 2.19 | 1.63 | 3.27 | .76 | 2.65 | | | | |
| October ... | 3.24 | 2.31 | 4.22 | 1.87 | 2.41 | 1.64 | 5.30 | | | | |
| November .. | 4.85 | 3.09 | 2.85 | 3.48 | 4.18 | 1.81 | 2.66 | | | | |
| December ... | 2.24 | 5.13 | 3.44 | 2.10 | 5.20 | 6.52 | 2.43 | | | | |
| TOTALS ... | 34.07 | 27.54 D | 40.50 | 28.77 | 35.19 | 36.06 | 34.33 | NO. | | | |

Rejected from Survey (5" low)

| Date. | Lat. N. | Long. | Railway Station. | Distance. | Direction. | Church. | Distance. | Direction. |
|-------|---------|-------|------------------|-----------|------------|---------|-----------|------------|
| | | | Worsley | 2 M | E | Worsley | 1 M | NE |

RAINFALL at Eckes Worsley Old HallCounty of South LancashireObserver Mr W.D. UpjohnRiver Basin Mersey, Inwell 3

Rain Gauge, by _____

| | | | | | | | | | | | |
|--------------|-------|-------|-------|-------|-------|-------|------|------|------|------|--------|
| Diameter ... | 6 | | | | | | | | | | |
| Height | 1 6 | | | | | | | | | | |
| Altitude ... | 150 | | | | | | | | | | |
| Year ... | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | MEANS. |
| January ... | 4.16 | 1.19 | 3.59 | 4.02 | 2.75 | 5.93 | | | | | |
| February ... | 2.47 | 2.92 | 1.30 | 1.35 | 1.91 | 3.71 | | | | | |
| March | .65 | 1.23 | 5.06 | 3.54 | 2.62 | 1.38 | | | | | |
| April | 3.13 | 2.45 | .80 | 4.28 | 1.39 | 1.55 | | | | | |
| May | 3.63 | 1.02 | 2.18 | 2.67 | 1.52 | 1.32 | | | | | |
| June | 2.92 | 2.38 | 4.47 | 2.32 | 2.01 | 3.53 | | | | | |
| July | 3.83 | .44 | 5.31 | .97 | 4.45 | 4.35 | | | | | |
| August | 5.50 | 3.12 | 6.20 | 2.81 | 3.75 | 4.87 | | | | | |
| September .. | .53 | 3.96 | 2.51 | 1.76 | 3.59 | .56 | | | | | |
| October ... | 3.37 | 2.47 | 4.19 | 1.75 | 2.30 | 1.72 | | | | | |
| November .. | 5.01 | 3.08 | 3.35 | 3.85 | 4.65 | 1.76 | | | | | |
| December ... | 2.54 | 5.67 | 4.17 | 2.73 | 6.25 | 6.62 | | | | | |
| TOTALS ... | 37.74 | 29.93 | 43.13 | 32.05 | 37.19 | 37.30 | NO. | NO. | | | |

1911 911 printed record too late
 1913 near 60 high 100

S15

| Date. | Lat. N. | Long. | Railway Station. | Distance. | Direction. | Church. | Distance. | Direction. |
|-------|---------|-------|------------------|-----------|------------|---------|-----------|------------|
| | | | Worsley | 1 m | SE | Worsley | 1/4 m | SE |