

RAINFALL AT *Middleborough Park*

70

Lat.

Lon.

County of *York* N.R.

Rain Gauge, by

Observer

| | | | | | | | | | | | |
|----------------|------|------|------|------|------|-------|-------|-------|-------|-------|--------|
| Diameter. | | | | | | | | | | | |
| Height. | | | | | | | | | | | |
| Altitude. | | | | | | | | | | | |
| Year | 1870 | 1871 | 1872 | 1873 | 1874 | 1875 | 1876 | 1877 | 1878 | 1879 | MEANS. |
| January..... | | | | | | 1.80 | .50 | 2.15 | 1.56 | .74 | |
| February. | | | | | | .58 | 1.77 | 1.24 | .43 | 2.11 | |
| March..... | | | | | | .26 | 2.20 | 2.24 | .76 | .61 | |
| April..... | | | | | | .72 | 1.73 | 3.31 | 1.33 | 1.37 | |
| May..... | | | | | | .90 | 1.09 | 2.44 | 2.03 | 4.45 | |
| June..... | | | | | | 3.09 | 3.31 | 1.27 | 1.95 | 2.60 | |
| July..... | | | | | | 2.93 | 2.93 | 2.18 | .38 | 3.49 | |
| August..... | | | | | | 2.31 | 1.39 | 4.23 | 5.91 | 2.92 | |
| September.... | | | | | | 1.66 | 3.00 | 2.73 | 1.43 | .88 | |
| October..... | | | | | | 2.49 | 1.50 | 2.44 | 1.64 | .59 | |
| November.... | | | | | | 5.65 | 2.96 | 1.33 | 5.62 | 2.43 | |
| December.... | | | | | | 1.33 | 4.22 | 1.68 | 4.40 | 1.01 | |
| TOTALS.... | | | | | | 23.72 | 26.60 | 27.24 | 27.44 | 23.20 | |

RAINFALL AT

Middleborough Albert Park

80

Lat.

Lon.

County of

York N.H.

Rain Gauge, by

Observer

J. Mansergh Esq. C.E.

J. Hallam Esq.

Tree 6

| | | | | | | | | | | | | |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--|
| Diameter | 8 | | | | | | | | | | | |
| Height | 20 | | | | | | | | | | | |
| Altitude | 30 | | | | | | | | | | | |
| Year..... | 1880 | 1881 | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | MEANS. | |
| January | .31 | .82 | .74 | 1.32 | 2.95 | 1.83 | 3.02 | 1.33 | .58 | 1.36 | 1.426 | |
| February | 1.22 | 2.71 | .48 | 1.45 | 1.15 | .87 | .56 | .50 | 1.19 | .82 | 1.095 | |
| March | .78 | 1.36 | 1.23 | 1.43 | 1.81 | 1.57 | 1.75 | 1.44 | 3.05 | 1.53 | 1.595 | |
| April | 2.76 | .86 | 3.74 | .83 | 1.61 | 1.51 | 2.06 | .76 | 1.58 | 1.87 | 1.758 | |
| May | 2.14 | 1.11 | 2.11 | 1.46 | .33 | 2.95 | 3.16 | 1.85 | .70 | 1.70 | 1.751 | |
| June | 2.06 | 1.00 | 2.49 | 1.53 | .55 | 1.89 | .54 | .15 | 1.79 | .31 | 1.231 | |
| July | 4.33 | 3.90 | 2.48 | 5.83 | 2.33 | .58 | 4.64 | .95 | 5.07 | 2.37 | 3.248 | |
| August | 1.80 | 4.21 | 2.42 | 1.71 | 2.05 | 2.46 | 1.73 | 1.72 | 2.09 | 3.98 | 2.417 | |
| September.... | 5.10 | 2.79 | 2.02 | 2.80 | .98 | 2.18 | 1.50 | 2.76 | 1.32 | 1.13 | 2.258 | |
| October | 5.77 | 2.81 | 3.35 | 1.96 | 1.03 | 3.59 | 1.65 | 2.84 | .60 | 5.30 | 2.890 | |
| November.... | 2.05 | 1.93 | 3.45 | 1.09 | 1.00 | .97 | 2.48 | 2.46 | 2.28 | 1.10 | 1.881 | |
| December | 3.87 | 2.11 | 2.71 | 1.67 | 1.37 | .89 | 2.66 | 2.64 | .85 | 1.59 | 2.036 | |
| TOTALS | 32.19 | 25.61 | 27.22 | 23.08 | 17.16 | 21.29 | 25.75 | 19.40 | 21.10 | 23.06 | 23.586 | |

1889 St Barnabas Church 1/4 mile S

Tree 30 ft high 150 ft N

RAINFALL AT Middlesborough Albert Park

Lat. _____

Lon. _____

County of _____

York N.R.

Rain Gauge, by _____

Observer _____

J. Hallam Esq
McLanahan Esq

Feet . 6

| | | | | | | | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---|
| Diameter | 8 | | | | | | | | | | | |
| Height | 2 0 | | | | | | | | | | | |
| Altitude | 30 | | | | | | | | | | | |
| Year | 1890 | 1891 | 1892 | 1893 | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 | MEANS. | |
| January | 1.68 | 1.25 | 1.45 | 2.00 | 1.47 | 3.20 | .94 | 2.10 | .94 | 2.42 | 1.715 | ✓ |
| February | 1.20 | .11 | 1.76 | 1.83 | 2.10 | .99 | .37 | 1.83 | 1.04 | .96 | 1.219 | |
| March | 1.27 | 1.81 | 1.50 | .30 | .75 | 1.60 | 2.17 | 2.44 | 1.87 | 1.71 | 1.512 | |
| April | .66 | 1.25 | 1.76 | .32 | 1.03 | 1.68 | .75 | 1.84 | 1.77 | 1.75 | 1.281 | |
| May | 2.74 | 2.45 | 2.69 | 1.91 | 2.02 | .54 | 1.06 | 1.42 | 1.98 | 3.72 | 2.053 | |
| June | 2.06 | .20 | 3.71 | 1.24 | 3.26 | 3.65 | 2.93 | 2.34 | 2.14 | 1.53 | 2.306 | |
| July | 1.22 | 5.25 | 1.56 | 1.97 | 2.70 | 6.83 | 1.18 | .94 | .88 | 1.47 | 2.400 | |
| August | 6.30 | 3.41 | 3.52 | 2.02 | 3.10 | 3.09 | 2.09 | 4.14 | 2.53 | 1.22 | 3.112 | |
| September.... | 1.77 | 2.42 | 2.40 | 2.03 | 1.15 | .86 | 2.44 | 2.28 | .38 | 3.21 | 1.894 | |
| October | 1.95 | 2.19 | 6.55 | 1.02 | 4.68 | 3.95 | 4.98 | 1.67 | 3.08 | 3.83 | 3.290 | |
| November.... | 3.13 | 1.88 | 1.10 | 2.99 | .86 | 1.83 | 1.78 | 2.50 | 1.87 | 1.64 | 1.958 | |
| December | 1.44 | 2.10 | .97 | 1.66 | 1.54 | 1.22 | 3.46 | 1.76 | 1.35 | 2.44 | 1.794 | |
| TOTALS . . . | 25.42 | 24.32 | 28.97 | 19.29 | 24.66 | 29.44 | 24.15 | 25.26 | 19.83 | 25.90 | 24.724 | |

RAINFALL AT Middlesbrough Albert Park

Lat.

Lon.

County of York N.R.

Rain Gauge, by

Observer J. W. Parnaby Esq.See - 6.

| | | | | | | | | | | | |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Diameter .. | 8 | | | | | | | | | | |
| Height | 10 | | | | | | | | | | |
| Altitude .. | 30 | | | | | | | | | | |
| Year | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 | 1906 | 1907 | 1908 | 1909 | MEANS. |
| January .. | 2.24 | 1.18 | .55 | 2.04 | 1.76 | .29 | 2.36 | .41 | 1.35 | .54 | 1.272 |
| February .. | 4.37 | 1.89 | 1.13 | .91 | 2.20 | .67 | .91 | 1.07 | 1.44 | 1.15 | 1.574 |
| March | 1.20 | 1.72 | .60 | 1.97 | 1.12 | 1.42 | 1.05 | .77 | 1.81 | 3.81 | 1.550 |
| April | 1.12 | 1.02 | 1.32 | 1.56 | 1.10 | 2.00 | .52 | 1.38 | 2.19 | 1.73 | 1.394 |
| May | 1.10 | 1.54 | 2.31 | 2.81 | 3.28 | .58 | 2.63 | 3.65 | 1.70 | 1.73 | 2.133 |
| June | 3.10 | 1.37 | 1.94 | 2.74 | 1.25 | .89 | .70 | 3.13 | .50 | 1.62 | 1.724 |
| July | 1.34 | 4.16 | 2.44 | 3.12 | 1.68 | .65 | .91 | 1.35 | 2.78 | 2.74 | 2.117 |
| August | 6.79 | 1.45 | 1.80 | 1.81 | 2.50 | 3.14 | 2.57 | 1.73 | 1.02 | 5.59 | 2.840 |
| September .. | .70 | .66 | .74 | 3.22 | 1.28 | 2.16 | .47 | .38 | 1.67 | 1.72 | 1.300 |
| October | 6.71 | 1.67 | 2.99 | 6.88 | .52 | 2.22 | 4.11 | 4.31 | 1.18 | 2.30 | 3.280 |
| November .. | 2.57 | 3.99 | .63 | 1.77 | 2.25 | 4.62 | 2.50 | 2.05 | 1.34 | 1.55 | 2.327 |
| December .. | 2.09 | 3.39 | 1.44 | .96 | 1.91 | .31 | 1.74 | 3.15 | .83 | 2.82 | 1.864 |
| TOTALS .. | 33.33 | 24.04 | 17.92 | 29.79 | 20.85 | 18.95 | 20.47 | 23.38 | 17.81 | 27.30 | 23.384 |

1909 Middlesbrough Station 1 Mile S

RAINFALL at Middlesbrough Albert ParkCounty of N.R. YorkshireObserver J.M. Parnaby EsqRiver Basin Tees 6

Rain Gauge, by _____

| Diameter ... | 8 | | | | | | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|------|
| Height | 1.0 | | | | | | | | | | | |
| Altitude ... | 30 | | | | | | | | | | | |
| Year ... | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | MEANS. | |
| January ... | 1.55 | 1.04 | 2.11 | 2.72 | 1.62 | 2.10 | .59 | 3.09 | 1.65 | 2.57 | 19.11 | 790 |
| February ... | 1.79 | .93 | 1.89 | .82 | 1.04 | 2.40 | 2.70 | 1.07 | 1.62 | 1.46 | 14.98 | 685 |
| March | .35 | 2.00 | 2.52 | 2.00 | 1.16 | 1.48 | 3.91 | 2.20 | .74 | 2.51 | 17.74 | 936 |
| April | 1.67 | 1.07 | .16 | 2.57 | .43 | .97 | 1.57 | 1.97 | 1.31 | 1.59 | 13.05 | 684 |
| May | 1.67 | .63 | 2.16 | 2.20 | 1.95 | 1.56 | 2.30 | .75 | 1.00 | .72 | 14.94 | 477 |
| June | 1.35 | 4.12 | 4.91 | 2.27 | 4.06 | .46 | 1.54 | 2.60 | .51 | .74 | 20.79 | 539 |
| July | 2.47 | .57 | 3.49 | 1.08 | 4.85 | 5.59 | 1.94 | 1.22 | 3.85 | 1.64 | 25.81 | 865 |
| August | 2.95 | 2.93 | 1.41 | 1.16 | .91 | 2.59 | 2.36 | 7.08 | 1.71 | 2.50 | 27.89 | 1365 |
| September ... | .21 | 2.16 | 1.46 | 2.25 | 2.27 | 1.27 | 1.99 | .88 | 4.38 | .68 | 16.73 | 793 |
| October ... | 2.88 | 2.65 | 2.79 | 4.05 | 2.20 | 1.91 | 2.24 | 2.25 | 1.64 | 5.83 | 26.41 | 1196 |
| November .. | 2.00 | 4.50 | 3.08 | 2.08 | 2.51 | 1.85 | 2.07 | 1.50 | .98 | 3.19 | 22.13 | 774 |
| December ... | 1.29 | 3.73 | 1.36 | 1.90 | 3.66 | 4.53 | 2.86 | 2.32 | 2.76 | 1.79 | 23.84 | 983 |
| TOTALS ... | 20.18 | 26.15 | 32.16 | 26.57 | 26.66 | 26.71 | 25.57 | 26.93 | 22.15 | 25.02 | | |

1911

g. found to be defective

24342

T.V. 1914 "Gauge repaired a short time ago and now accurate"

1911-1913 totals adopted from the proportions
for averages x 1.20
Monthly figures 1911-13 re-estimated. 13/8/37.

| Date. | Lat. N. | Long. | Railway Station. | Distance. | Direction. | Church. | Distance. | Direction. |
|-------|---------|-------|------------------|-----------|------------|---------|-----------|------------|
| | | | | | | | | |

RAINFALL at Middlesbrough Albert ParkCounty of N. R. YorkshireObserver: J. M. Tarnaby EsqRiver Basin Yees 6J. A. R. Readman (1921)R. Sutcliffe, Esq. (126)Glaisher Rain Gauge, byM.O. (27) ('25)

| Diameter ... | 8 | | | | | | | | | | 5 | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|--------|
| Height | 10 | | | | | | | | | | | |
| Altitude ... | 30 | | | | | | | | | | | |
| Year | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 Actual | |
| January ... | 3.12 | 3.58 | 1.77 | 1.18 | 1.51 | 1.08 | 1.69 | 1.43 | 2.73 | 2.41 | 2.71 | 23.21 |
| February ... | .78 | .15 | 1.54 | 2.04 | 1.27 | 2.31 | 1.54 | .56 | .99 | .55 | 1.25 | 13.01 |
| March | 2.40 | .86 | 1.44 | 1.28 | 1.01 | 1.52 | .77 | 1.83 | 2.12 | .11 | 2.82 | 16.16 |
| April | 2.37 | 1.00 | 1.33 | 1.31 | 1.79 | 2.04 | 1.20 | 1.41 | .78 | .99 | 1.96 | 16.18 |
| May | 2.06 | 1.08 | 1.55 | 2.40 | 3.82 | 2.47 | 1.64 | 1.66 | 1.19 | 1.16 | 1.12 | 20.15 |
| June | .69 | .36 | 1.65 | .74 | 1.49 | .08 | 2.45 | 2.31 | 5.14 | 2.14 | 1.16 | 18.21 |
| July | 5.05 | 1.66 | 3.90 | 2.29 | 3.61 | 2.89 | 4.70 | 4.32 | 1.17 | 2.08 | 4.89 | 36.56 |
| August | 1.65 | 5.46 | 2.28 | 2.67 | 3.32 | 3.14 | 2.02 | 4.69 | 3.42 | 2.53 | 3.38 | 34.56 |
| September... | 1.36 | .63 | 2.63 | 1.56 | 1.83 | 2.29 | 2.25 | 3.37 | .53 | 1.13 | 2.54 | 20.12 |
| October | 2.19 | 1.51 | 1.42 | 1.99 | 3.05 | 2.53 | 2.70 | 2.19 | 2.56 | 2.22 | 2.08 | 24.44 |
| November... | .65 | 2.09 | .72 | 3.79 | .70 | 2.74 | 3.37 | 3.73 | 2.17 | 2.48 | 3.10 | 25.54 |
| December... | 3.24 | 1.96 | 3.48 | 2.11 | 2.64 | 2.76 | 1.12 | 1.77 | 1.19 | 2.51 | 1.78 | 24.56 |
| TOTALS... | 25.56 | 20.37 | 23.71 | 23.36 | 26.04 | 25.85 | 25.45 | 29.27 | 23.99 | 20.31 | 28.79 | 272.70 |

1925. Greenhouses 10' high, 15' wide. W.
 Lathing shed 14' " 20' " N.W.
 Stable &c. 20' " 20' " S.W.
 Trees 20' " 12' " E.

1927. Oct. 9 New g. erected. 50 yds. W.

Inspected by R. Searpoule Sept 1927. see green file

Position of Station on reduced Ordnance Survey
 Map, 2 miles to 1 inch Series

No. of Map

Reference No.

| Date. | Lat. N. | Long. | Railway Station. | Distance from gauge | Direction | Parish Church. | Distance from gauge | Direction |
|-------|----------------|-------|------------------|---------------------|-----------|----------------|---------------------|-----------|
| 1925 | 54° 34' 1" 14" | | Middlesbro' | 1 m. | N. | St. Barnabas | 1/2 m. | W. |

RAINFALL at Middlesbrough (Albert Park)County of North RidingObserver R. Sutcliffe, Esq.River Basin Tees - 6Type of Gauge M.O.Annual Average 23.7 in. based on 35 years obs. un-weighted. Period of average 1881 - 1915 Ref B. 19

796230/27

| Diameter | 5. | | | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|------|
| Height | 1.0. | | | | | | | | | | | |
| Altitude | 30. | | | | | | | | | | | |
| Year | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | Means | 1940 |
| January | 1.70 | 1.17 | 2.39 | .83 | 2.12 | 3.04 | 1.94 | 1.77 | 3.93 | 1.88 | 60.77 | |
| February | 1.16 | .86 | 3.04 | .75 | 3.01 | 2.95 | 2.26 | 1.40 | .63 | 1.80 | 17.86 | |
| March | 1.25 | 2.17 | 1.41 | 1.43 | .53 | 1.30 | 2.93 | .04 | 2.08 | 2.02 | 15.16 | |
| April | 2.87 | .76 | .94 | 2.40 | 2.48 | 1.10 | 2.15 | .11 | 1.19 | 2.00 | 16.00 | |
| May | 2.30 | 4.46 | 1.98 | .66 | .69 | 1.70 | 2.51 | 2.97 | 1.48 | 1.55 | 20.30 | |
| June | 3.29 | .94 | 1.62 | 2.34 | 2.69 | 3.57 | 1.69 | 1.87 | 2.08 | .85 | 20.94 | |
| July | 4.78 | 3.54 | 1.64 | 1.56 | .48 | 3.45 | 1.04 | 2.85 | 2.72 | 6.63 | 28.69 | |
| August | 2.15 | 2.41 | .52 | 2.26 | 2.29 | 2.10 | 1.13 | 2.64 | 2.45 | 1.29 | 20.24 | |
| September | 4.62 | 2.19 | 1.32 | 1.72 | 4.00 | 2.93 | 1.52 | 1.76 | 1.08 | 1.14 | 22.28 | |
| October | 1.21 | 2.91 | 3.88 | 2.65 | 3.78 | 1.34 | 1.23 | 3.08 | 4.58 | 2.90 | 27.56 | |
| November | 1.87 | 1.42 | 3.24 | 2.05 | 3.73 | 2.42 | 2.19 | 2.32 | 1.64 | 3.02 | 23.90 | |
| December | .96 | .87 | 1.61 | 3.27 | 1.92 | 1.13 | 3.71 | 2.87 | 1.10 | 2.11 | 19.55 | |
| TOTALS | 28.16 | 23.70 | 23.59 | 21.92 | 27.72 | 27.03 | 24.30 | 24.68 | 24.94 | 27.19 | 253.25 | |
| | D | D | D | D | D | D | D | D | D | D | D | |

1931. Greenhouses 13' high 27' E + S.

Trees 15' " 27' N, S + W

253.25
253.25Position 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 |
|-------|---------|-------|------------------|---------------------|----------------------|-----------------|---------------------|----------------------|
| 1931 | | | Middlesbrough | 1 1/4 mls | N | St. Barnabas Rd | 1/2 ml | W |

Station No. M.3487
RAINFALL at Middlebury (Albert Park)
 County of North Riding Observer R. Sutcliffe Esq.
 River Basin Tees - 6 H.C. Hildyard Esq. (1946)
 Type of Gauge M.O.

41

Annual Average 23.7 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. B.F.N.

File No. 796230/21

| | | | | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Diameter | 5" | | | 033 | 148 | | | | | | | |
| Height | 1' 0" | | | | 1 | | | | | | | |
| Altitude | 30' | | | | 61 | | | | | | | |
| Year | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | Means | Total |
| January | 2.84 | 2.36 | 2.73 | 1.06 | 4.71 | 1.08 | .99 | 5.48 | .60 | 1.17 | | 2302 |
| February | 5.91 | 1.62 | .45 | 1.88 | 1.52 | .43 | 2.37 | .67 | .44 | 2.46 | | 1775 |
| March | 1.93 | .68 | .45 | .50 | .35 | 1.07 | 2.73 | .92 | 1.02 | .67 | | 1032 |
| April | .67 | .43 | .81 | 1.81 | 1.21 | 1.97 | 2.85 | .71 | 2.02 | 1.88 | | 1436 |
| May | 1.11 | 1.18 | 1.59 | .77 | 2.82 | 1.67 | 1.48 | 1.20 | .89 | 1.40 | | 1411 |
| June | .33 | .87 | 1.07 | 2.12 | 1.69 | 1.92 | 2.37 | 4.80 | .53 | 1.47 | | 1717 |
| July | .98 | 3.33 | 1.40 | 2.18 | 1.55 | 4.13 | 2.13 | .79 | 1.36 | 2.87 | | 2072 |
| August | 2.48 | 2.05 | 4.03 | 2.34 | 3.14 | 2.86 | .46 | 3.63 | 1.98 | 4.66 | | 2762 |
| September | .70 | 2.34 | 3.62 | 3.78 | 1.19 | 2.42 | 2.29 | 1.17 | .60 | 2.33 | | 2044 |
| October | 3.72 | 2.41 | 1.59 | 2.15 | 2.83 | 1.36 | .28 | 1.12 | 2.40 | 1.00 | | 1886 |
| November | 2.46 | 1.67 | 2.95 | 4.04 | 1.01 | 3.09 | 1.72 | 1.34 | 2.82 | 5.47 | | 2697 |
| December | .30 | 1.90 | 1.01 | 1.20 | .82 | 2.04 | 1.41 | 1.17 | 2.13 | 2.89 | | 1467 |
| TOTALS | 23.43 | 20.84 | 21.70 | 23.83 | 22.84 | 24.44 | 21.08 | 23.00 | 16.79 | 28.27 | | 22622 |

197.95

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. |
|-------|---------|-------|------------------|---------------------|----------------------|----------------|----------------------|-----------------------|
| | | | | | | | | |

51

River Basin Lees - 6th

Type of Gauge..... M.D.

Annual Average 23.7 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref B. N.

24-34 " " " " " 1916-1950

File No. 796230/27

80

No. of Map.....

National Grid Reference NZ451494191

Summary of Earlier Records from 10-year Sheets :

1916-1950, P - accepted

(62) Wt. 13072—389 10M 6/50 T.S. 841