

RAINFALL AT *Wroot Engine*

Lat.

Lon.

County of *Lincoln*

Rain Gauge, by

Observer *A. L. Read Esq. C.E.*

Trent, Lebank 7.

| | | | | | | | | | | | |
|----------------|------|------|------|------|--------------|--------------|--------------|--------------|--------------|--------------|--------|
| Diameter | | | | | <i>10</i> | | | | | | |
| Height | | | | | <i>5.6</i> | | | <i>6.0</i> | | | |
| Altitude | | | | | | | | | | | |
| Year | 1880 | 1881 | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | MEANS. |
| January | | | | | <i>2.38</i> | <i>1.45</i> | <i>2.72</i> | <i>1.99</i> | <i>.61</i> | <i>1.54</i> | |
| February | | | | | <i>1.02</i> | <i>1.92</i> | <i>.31</i> | <i>.40</i> | <i>1.04</i> | <i>.92</i> | |
| March | | | | | <i>1.19</i> | <i>1.08</i> | <i>2.04</i> | <i>1.15</i> | <i>2.02</i> | <i>3.12</i> | |
| April | | | | | <i>1.02</i> | <i>1.47</i> | <i>1.78</i> | <i>.98</i> | <i>1.27</i> | <i>2.40</i> | |
| May | | | | | <i>.65</i> | <i>1.58</i> | <i>4.37</i> | <i>1.53</i> | <i>.52</i> | <i>3.42</i> | |
| June | | | | | <i>.69</i> | <i>3.15</i> | <i>.87</i> | <i>.22</i> | <i>2.23</i> | <i>.46</i> | |
| July | | | | | <i>2.81</i> | <i>.58</i> | <i>2.31</i> | <i>1.30</i> | <i>6.02</i> | <i>1.35</i> | |
| August | | | | | <i>1.16</i> | <i>1.44</i> | <i>1.86</i> | <i>1.99</i> | <i>2.08</i> | <i>3.28</i> | |
| September | | | | | <i>1.02</i> | <i>1.87</i> | <i>1.05</i> | <i>1.59</i> | <i>1.24</i> | <i>1.50</i> | |
| October | | | | | <i>.85</i> | <i>3.64</i> | <i>3.50</i> | <i>1.82</i> | <i>.81</i> | <i>3.12</i> | |
| November | | | | | <i>.80</i> | <i>2.03</i> | <i>1.33</i> | <i>1.52</i> | <i>2.91</i> | <i>.39</i> | |
| December | | | | | <i>1.50</i> | <i>.95</i> | <i>3.60</i> | <i>.74</i> | <i>1.81</i> | <i>1.08</i> | |
| TOTALS | | | | | <i>15.09</i> | <i>21.13</i> | <i>25.74</i> | <i>15.23</i> | <i>22.56</i> | <i>22.68</i> | |

1 1/2 N.Y.

Wroot Church 1 mile N.

1886 House 23ft high 16ft N.

RAINFALL AT Wroost Engine

Lat. _____

Lon. _____

County of _____

Lincoln

Rain Gauge, by _____

Observer _____

A. L. Kace Esq CE

Inst. L bank - 7.

| | | | | | | | | | | | | |
|---------------------|-------|-------|--------|------|------|-------|----------------|------|------|------|--------|--|
| Diameter . . . | 10 | | | | | | | | | | | |
| Height | 60 | | | | | | | | | | | |
| Altitude | . . . | | | | | | | | | | | |
| Year | 1890 | 1891 | 1892 | 1893 | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 | MEANS. | |
| January | 1.93 | 1.15 | | | | 3.27 | | | | | | |
| February | .98 | .12 | | | | .33 | | | | | | |
| March | 1.76 | 1.33 | | | | 1.75 | | | | | | |
| April | .50 | 1.30 | | | | 1.38 | | | | | | |
| May | 2.37 | 2.87 | | | | .61 | | | | | | |
| June | 3.02 | 1.48 | | | | 2.28 | | | | | | |
| July | 2.36 | 2.74 | | | | 4.54 | | | | | | |
| August | 2.74 | 3.31 | | | | 1.57 | | | | | | |
| September | 1.29 | 1.15 | | | | .93 | | | | | | |
| October | .87 | 3.19 | | | | 2.55 | | | | | | |
| November | 2.68 | 2.64 | | | | 2.33 | | | | | | |
| December | .55 | 2.86 | | | | 2.14 | | | | | | |
| TOTALS | 21.05 | 24.14 | No Obs | | | 23.68 | No Observation | | | | | |

RAINFALL at Woot S Level Pumping StationCounty of LincolnshireObserver Mr F. L. ToppadRiver Basin Trent - Left Bank Tributaries

Rain Gauge, by _____

| | | | | | | | | | | | | |
|--------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--|
| Diameter ... | | | 10 | | | | | | | | | |
| Height | | | 50 | | | | 40 | | | | | |
| Altitude ... | | | 13 T | | | | | 12 | | | | |
| Year ... | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | MEANS. | |
| January ... | | | 2.66 | 2.14 | .91 | 1.68 | .33 | 2.00 | 1.36 | 2.94 | 663 | |
| February ... | | | .56 | .45 | .46 | 1.79 | 2.62 | .58 | 1.30 | 1.74 | 624 | |
| March | | | 1.92 | 1.65 | 1.45 | .79 | 2.84 | .80 | .64 | 2.39 | 667 | |
| April | | | .11 | 1.72 | .50 | .63 | .74 | 1.46 | .87 | 1.38 | 445 | |
| May | | | 2.39 | 1.89 | 1.36 | 1.09 | 2.14 | 1.51 | 2.27 | 1.04 | 696 | |
| June | | | 2.70 | .73 | 1.20 | .64 | 1.25 | 1.06 | .60 | 1.24 | 415 | |
| July | | | 3.81 | .44 | 3.03 | 3.74 | 1.07 | 1.01 | 3.72 | 2.00 | 780 | |
| August | | | 4.15 | .72 | 2.34 | 2.69 | 1.62 | 4.35 | 2.34 | 2.07 | 1038 | |
| September .. | | | 1.08 | 2.73 | .78 | .81 | 1.15 | .80 | 4.10 | 1.30 | 735 | |
| October ... | | | 2.07 | 2.43 | 1.71 | .94 | 1.36 | 2.45 | .96 | 2.39 | 716 | |
| November .. | | | 1.49 | 1.46 | 1.75 | 1.92 | 2.01 | .95 | 1.49 | 1.52 | 597 | |
| December ... | | | 2.19 | 1.21 | 3.58 | 4.55 | 1.91 | .75 | 2.97 | 3.14 | 877 | |
| TOTALS ... | | | 26.43 | 17.57 | 19.07 | 21.27 | 19.04 | 17.72 | 22.62 | 23.15 | 8253 | |

1912 Barometer 30 ft high 18 ft S.E.
 Woots 18. 21 N.W.

| Date. | Lat. N. | Long. | Railway Station. | Distance. | Direction. | Church. | Distance. | Direction. |
|-------|---------|-------|------------------|-----------|------------|---------|-----------|------------|
| | | | Park Drain | 2 Miles | S | Woot | 2 9/11 | W |

RAINFALL at Woot & Level Pumping StationCounty of LincolnshireObserver Mr. F. S. GrappardRiver Basin Great Ouse Bank Pits 7A. J. Taffers

10" Square Rain Gauge, by

(1925) Blanchard

| Diameter ... | 10 | | | | | | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|------|
| Height | 4.0 | | | | | | | | | | 1.6 | |
| Altitude ... | 12 | | | | | 8 | | | | | | |
| Year | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 MEANS | |
| January ... | 2.19 | 1.35 | 2.19 | 1.44 | 1.48 | 1.34 | 1.98 | 1.46 | 3.47 | 1.50 | 2.48 | 2088 |
| February ... | 1.72 | .21 | 2.57 | 3.56 | .73 | 2.26 | 1.11 | 1.27 | 1.63 | .45 | .49 | 1600 |
| March | 2.29 | .45 | 1.48 | 1.67 | .76 | .58 | .47 | 1.08 | 1.55 | .11 | 2.04 | 1248 |
| April | 3.54 | 1.11 | 2.25 | 1.01 | 1.05 | 1.89 | 1.56 | 1.55 | .66 | .75 | 2.10 | 1747 |
| May | 1.80 | 1.20 | .98 | 3.12 | 2.62 | 3.67 | 2.14 | 1.01 | 1.63 | .84 | 1.42 | 2046 |
| June | 1.55 | .22 | 1.07 | 1.25 | 1.29 | .07 | 4.06 | 2.25 | 2.16 | .74 | 1.22 | 1588 |
| July | 3.80 | .60 | 3.53 | 3.18 | 2.07 | 1.06 | 1.10 | 1.74 | .62 | 1.42 | 4.32 | 2344 |
| August | .96 | 3.81 | 3.02 | 2.02 | 3.12 | 2.35 | 2.36 | 3.76 | 2.36 | 1.89 | 2.70 | 2835 |
| September... | 1.74 | .58 | 2.06 | 2.14 | 2.19 | 2.55 | .91 | 3.76 | .16 | 1.08 | 3.22 | 2039 |
| October | 1.73 | 1.26 | .84 | 1.18 | 3.44 | 2.07 | 1.98 | 1.21 | 3.84 | 2.92 | 1.98 | 2248 |
| November... | 1.09 | 1.43 | .80 | 2.16 | 1.27 | 1.69 | 2.20 | 2.04 | 2.48 | 3.74 | 2.98 | 2188 |
| December... | 1.96 | 1.82 | 2.85 | 2.27 | 1.72 | 1.58 | .58 | 1.88 | 1.52 | 3.38 | 1.45 | 2101 |
| TOTALS... | 24.37 | 14.04 | 23.64 | 25.00 | 21.74 | 21.11 | 20.45 | 23.01 | 22.11 | 18.85 | 26.40 | 2407 |

1920 Workshop 18 ft high 21 ft N.W.

Boiler House 30 " " 18 " S.E.

1928 Gauge moved during summer 150 yds E.

1930 Hedge 4 ft high 20 yds N.

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 from gauge | Parish Church. | Distance from gauge | Direction from gauge |
|-------|---------|-------|------------------|---------------------|----------------------|----------------|---------------------|----------------------|
| 1920 | | | Park Drain | 2 mi | S | Woot | 2 mi | N. |

RAINFALL at Wroast (S Level Pump Station)County of LincolnshireObserver Mr. J. J. PaffordRiver Basin Trent-Left Bank Tribs 7R. H. Summing Esq. C.E. (from 1936)

Type of Gauge.....

W. H. Haile Esq. C.E. (1940)

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

Ref.

126488/38

| Diameter | 10 | | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Height | 1 | 6 | | | | | | | | | | |
| Altitude | 8 | | | | | | | | 7 | | | |
| Year | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | Means | Total |
| January | 1.69 | .72 | 1.74 | 1.27 | 1.25 | 3.40 | 3.56 | 1.43 | 4.03 | 1.03 | 2012 | |
| February | 2.08 | .50 | 1.88 | .39 | 2.58 | 2.37 | 2.09 | 1.20 | .93 | 1.89 | 1591 | |
| March | .15 | 1.15 | 2.56 | 1.90 | .57 | 1.08 | 2.46 | .27 | 1.84 | 1.54 | 1352 | |
| April | 2.80 | 1.66 | .64 | 2.50 | 1.96 | 1.26 | 3.44 | .07 | 1.18 | 1.76 | 1727 | |
| May | 2.29 | 6.44 | 2.03 | .85 | .40 | .99 | 3.80 | 3.34 | 1.37 | .36 | 2187 | |
| June | 4.55 | .48 | 2.75 | 1.14 | 3.89 | 3.81 | 3.06 | 2.06 | 2.10 | 1.17 | 2801 | |
| July | 3.54 | 2.70 | 1.38 | 1.68 | .55 | 6.48 | 2.81 | 3.54 | 2.11 | 5.10 | 2989 | |
| August | 4.20 | 1.47 | .36 | 1.12 | 1.78 | 2.08 | .19 | 2.51 | 3.38 | .63 | 1772 | |
| September | 2.36 | 1.20 | 1.87 | 1.43 | 3.47 | 2.00 | .71 | 1.64 | .82 | .54 | 1604 | |
| October | .57 | 3.09 | 4.72 | 1.25 | 3.17 | 1.95 | 2.92 | 2.37 | 3.03 | 3.85 | 2692 | |
| November | 2.52 | 1.14 | 1.80 | 2.35 | 4.31 | 2.65 | 1.63 | 2.12 | 4.17 | 5.72 | 2831 | |
| December | .83 | .88 | .27 | 3.36 | 2.40 | 1.17 | 4.88 | 3.17 | 2.83 | 2.68 | 2247 | |
| TOTALS | 27.58 | 21.43 | 22.00 | 19.24 | 26.33 | 29.24 | 31.45 | 23.72 | 27.79 | 26.27 | 25505 | |
| | D | D | D | D | D | D | D | D | D | D | | |

1931. Building 30' high 80yds. W. Hedge 6' high 40' N. Chimney 120' high 80yds. W.

1934. Hedge 2'6" high 20yds N.

1936 " 3' " 10yds S.

1939 " " " 30ft "

1.5.40. Gauge taken over by W. H. Haile Esq. of River Trent Catchment Bd.

Bulgyao 1940-1946 and 12/46. 1940 total reassembler. HR. 13/12/46

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 |
|-------|---------|-------|------------------|---------------------|----------------------|----------------|---------------------|----------------------|
| 1931. | | | Park Drain | 2m | S.W. | Wroast | 2m | S.E. |
| | | | | | S | Haxey. | 2m | S.E. |
| | | | | | | Wroast | 1m | N.W. |

Station No. 2586RAINFALL at West S. Level Pumping Station

41

County of LincolnshireObserver W. H. Hale Esq. C.E.River Basin Thant - left Bank - 7

Type of Gauge

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

File No. 726 488/38

| | | | | | | | | | | | |
|-----------|-------|-------|-------|-------|---------------|-------|-------|-------|-------|-------|-----------------|
| Diameter | 10" | | | 128 | 086 | | 5' | | | | |
| Height | 1' 6" | | | | 1 | | | | | | |
| Altitude | 8' | | | | 41 | | 7' | | | | |
| Year | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | Means Totals |
| January | 1.45 | 1.31 | 3.21 | 2.35 | 1.53 | 1.80 | 1.87 | 3.88 | .90 | 1.07 | 1937 |
| February | 2.53 | .52 | .94 | 1.92 | 1.53 | 2.60 | 1.25 | 1.19 | .58 | 3.16 | 1622 |
| March | 2.56 | 2.51 | .58 | .46 | .57 | 1.20 | 3.85 | .44 | 1.28 | .81 | 1426 |
| April | 1.12 | .69 | .97 | 2.37 | 1.56 | 1.80 | 1.74 | .90 | 1.71 | 3.40 | 1526 |
| May | 1.65 | 3.01 | 2.39 | 2.31 | 1.49 | 1.46 | 1.17 | 1.34 | 1.53 | 2.01 | 1836 |
| June | .49 | 1.63 | 1.72 | 2.03 | 2.45 | 1.98 | 2.18 | 2.48 | .59 | 1.25 | 1680 |
| July | 3.23 | 1.28 | 1.52 | 1.89 | 1.70 | 2.69 | 1.75 | 1.07 | 3.21 | 1.97 | 2031 |
| August | 2.69 | 2.38 | 2.18 | 4.62 | 2.43 | 2.77 | .37 | 2.87 | 1.70 | 2.24 | 2625 |
| September | .39 | 1.45 | 2.87 | 4.98 | .89 | 2.97 | 1.10 | 2.20 | .66 | 2.88 | 2039 |
| October | 2.59 | 1.74 | 1.60 | 2.62 | 2.50 | 1.90 | 1.08 | 1.58 | 2.50 | .74 | 1785 |
| November | 3.01 | 1.61 | 1.72 | 3.61 | 1.60 | 1.45 | .98 | 1.01 | 2.86 | 3.48 | 2338 |
| December | .13 | 1.58 | .68 | 1.54 | 1.30 | 2.70 | 2.29 | 2.65 | 1.58 | 1.28 | 1573 |
| TOTALS | 21.84 | 19.71 | 20.38 | 30.70 | 18.50 inc. | 28.37 | 19.63 | 21.61 | 19.10 | 24.29 | 22418 |

1941-1946 R.R. By gauge 1940 Sep 1945 and 1946. Annual totals sum reasonable RR 12.1246
 Our 1945-April 1946 Normal gauge out of commission (measured by hand).

71
 part of 1946

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 |
|-------|---------|-------|------------------|---------------------|----------------------|----------------|---------------------|----------------------|
| | | | | | | | | |

BRITISH RAINFALL ORGANIZATION

Station No. 2586RAINFALL at WROOT (S. LEVER PUMPING STATION)

51

County of LINCOLNSHIREObserver W. H. HAILE, Esq., C.E.River Basin TRENT - L. BANK - 7

M. NIXON, Esq., M.B.E., B.Sc.

Type of Gauge MXIITrent River Board

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

22-88

11

1947-51

1916-50
File No.

326 488/38

| Diameter ... | 5" | | | 128 | 086 | | 5" | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|--|
| Height ... | 1' 6" | | | | 1 | | 1' 0" | | | | | |
| Altitude ... | 7' | | | | 51 | | 7' | | | | | |
| Year ... | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | Means- Total | |
| January ... | 1.49 | 1.57 | .49 | 1.01 | 1.38 | 3.40 | 1.22 | 1.87 | 1.75 | 4.43 | 18.61 | |
| February ... | 2.52 | .41 | 1.36 | 1.85 | 1.51 | 1.07 | 1.44 | 2.79 | .15 | 1.74 | 14.84 | |
| March ... | 2.61 | 1.89 | .53 | 1.46 | 2.22 | .85 | 1.43 | 1.64 | .69 | 1.04 | 14.36 | |
| April ... | .62 | .57 | 1.53 | .18 | 1.00 | 1.53 | .14 | .32 | 1.90 | 0.69 | 8.48 | |
| May ... | 3.79 | 1.04 | 1.23 | 2.82 | 2.61 | .47 | 1.18 | 1.72 | .41 | 0.59 | 15.86 | |
| June ... | .94 | 2.05 | 1.28 | 1.56 | 2.69 | 3.54 | 1.98 | 4.85 | .82 | 0.54 | 20.25 | |
| July ... | .96 | 1.46 | 1.97 | 1.96 | .62 | 3.66 | 4.43 | 6.14 | 1.23 | 2.90 | 25.32 | |
| August ... | 4.56 | .93 | 2.51 | 5.34 | .46 | 4.81 | 3.14 | 2.79 | .48 | 2.33 | 27.35 | |
| September ... | 1.40 | 2.25 | .93 | 1.55 | .98 | 1.70 | 3.51 | 1.51 | .02 | 2.16 | 16.01 | |
| October ... | 1.20 | 2.21 | 1.86 | 3.21 | 1.52 | 1.12 | 1.25 | 1.55 | 1.93 | 4.69 | 20.54 | |
| November ... | 4.70 | 1.66 | 1.40 | 4.15 | 1.24 | .58 | 2.13 | .81 | 2.52 | 3.30 | 22.19 | |
| December ... | 1.05 | 1.40 | 1.18 | 2.04 | 1.96 | 1.51 | 1.77 | 2.79 | 2.50 | 2.13 | 18.33 | |
| TOTALS ... | 25.84 | 17.44 | 15.97 | 27.13 | 18.19 | 24.23 | 23.62 | 28.78 | 14.40 | 26.54 | 222.14 | |
| | D | d | d | D | d | d | d | D | d | D | | |

1957: Old No. 7 gauge act. in concrete, replaced by new MXII gauge act. in accordance with B.R. rules. (8.10.57)

Imp. II 1957 B.O.K. Badly off level. Satisfactory exposure.

Position of Station on Ordnance One-Inch map :

No. of Map 103National Grid Reference SE(44) 132017

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

Summary of Earlier Records from 10-year Sheets :

1916-1950, P - Rejected

| Record D, or d | 1910-19 | 1920-30 | 1931-40 | 1941-50 | 1951-60 |
|----------------|------------------------|----------------------|--------------|-----------------------|---------|
| | C 1912 Dec 17, d 19 | ✓ 1912-22, 23, 25 | ✓ 1912-40 | 41-44, 47-50 47-50 | 1951-60 |