

RAINFALL at Horndon Eastern Sewage WorksCounty of EssexObserver W. J. Grant Esq.River Basin Thames - Roding & C. 2Survey or Record R.R.C.M.O. Rain Gauge, by

| | | | | | | | | | | | | |
|---------------|------|------|------|------|------|-------|-------|-------|-------|-------|-------------------------|--|
| Diameter ... | | | | | | 9 | | | | | | |
| Height | | | | | | 1.6 | | | | | | |
| Altitude ... | | | | | | 23 | | | | | | |
| Year | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 1930 | |
| January ... | | | | | | 1.11 | 1.44 | .96 | 2.38 | .95 | 1.66 | |
| February ... | | | | | | 1.93 | 2.63 | 2.80 | 1.12 | .34 | .48 | |
| March | | | | | | .82 | .09 | 1.68 | 1.73 | .02 | 1.03 | |
| April | | | | | | 1.61 | 4.16 | 1.66 | 1.19 | .96 | 1.43 | |
| May | | | | | | 1.66 | .85 | 1.15 | 2.22 | 1.24 | 2.61 | |
| June | | | | | | .23 | 3.21 | 2.51 | 2.45 | 1.02 | .70 | |
| July | | | | | | 3.68 | 2.20 | 2.41 | 1.74 | 2.12 | 2.26 | |
| August | | | | | | 2.15 | 1.23 | 3.16 | 2.84 | 1.77 | 2.20 | |
| September... | | | | | | 2.13 | .65 | 3.91 | .44 | .09 | 2.28 | |
| October | | | | | | 2.50 | 2.25 | 1.08 | 2.73 | 2.23 | .97 | |
| November... | | | | | | 1.27 | 3.67 | 2.12 | 1.82 | 4.06 | 3.48 | |
| December... | | | | | | 2.23 | .57 | 2.16 | 2.74 | 2.84 | 1.54 | |
| TOTALS... | | | | | | 21.37 | 23.00 | 25.60 | 23.40 | 17.64 | 20.64 | |

Position of Station on reduced Ordnance Survey } No. of Map

Map, 2 miles to 1 inch Series

Reference No.

| Date. | Lat. N. | Long. | Railway Station. | Distance from gauge | Direction | Parish Church. | Distance from gauge | Direction |
|-------|------------|------------|------------------|---------------------|-----------|--------------------|---------------------|-----------|
| 1925 | 51° 34' 0" | 0° 20' 30" | East Horndon | 2060 yds | E.N.E. | St. Mary's, Harley | 2050 yds | N.W. |

RAINFALL at Hamdon (Eastern Sew. Works)County EssexObserver W. J. Frank, Esq.River Basin Thames - Roding etc - 2Hamchurch V.D.C. (1914)Type of Gauge MO

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

" 20.5 computed by Mr. Grimsh (1940) 156/245/36 745/72/2 66527/26

| Diameter | 8. | | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Height | 1.6. | | | | | | | | | | |
| Altitude | 23. | | | | | | | | | | |
| Year | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | Means |
| January | 1.07 | .80 | .95 | 1.16 | 1.03 | 3.16 | 2.81 | 1.93 | 3.78 | 1.59 | 1828 |
| February | 1.57 | .17 | .76 | .24 | 1.55 | 1.33 | 3.26 | .45 | .94 | 1.15 | 1165 |
| March | .18 | 1.05 | 1.09 | 1.89 | .32 | .94 | 2.33 | .36 | 1.35 | 2.68 | 1222 |
| April | 3.43 | 1.40 | .76 | 1.33 | 2.92 | 1.24 | 2.19 | .17 | 1.99 | 1.55 | 1698 |
| May | 2.76 | 2.73 | 1.93 | .34 | 1.17 | .34 | 2.37 | 1.31 | 1.71 | 1.59 | 1628 |
| June | 1.39 | .70 | 3.26 | 1.09 | 2.33 | 3.22 | 2.06 | .48 | .85 | .38 | 1579 |
| July | 2.69 | 2.07 | 1.61 | .68 | .46 | 4.10 | 2.70 | 1.44 | 3.25 | 3.33 | 2236 |
| August | 2.53 | 1.46 | .32 | 1.08 | 2.26 | .38 | .60 | 1.73 | 3.57 | .08 | 1516 |
| September | 1.54 | 1.63 | 2.76 | 1.04 | 2.17 | 2.32 | 1.22 | 2.27 | .88 | 1.16 | 1702 |
| October | .56 | 4.35 | 1.14 | 1.85 | 1.74 | 1.40 | 1.23 | 2.18 | 0.07 | 2.13 | 2265 |
| November | 1.59 | .59 | .80 | 1.54 | 3.68 | 2.94 | 1.45 | 2.23 | 3.14 | 5.68 | 2367 |
| December | .59 | .28 | .52 | 3.32 | 2.01 | 1.31 | 3.76 | 2.19 | .93 | 1.08 | 1599 |
| TOTALS | 19.95 | 17.23 | 16.10 | 16.58 | 21.64 | 22.68 | 26.18 | 16.74 | 25.55 | 22.40 | 20805 |

1940. Sept. & Nov. parts 200.

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 Direction from gauge | Parish Church. | Distance Direction from gauge |
|-------|---------|-------|------------------|-------------------------------|------------------|-------------------------------|
| 1931. | | | E. Hamdon LMS | 2060 yds ENE | St. Marys Warley | 2050 yds NW. |

Station No. 1259

RAINFALL at Haslemere (Eastern Penn. Works)

41

County of Surrey Observer Haslemere U.D.C.

River Basin Thames - Reading 10-2

Type of Gauge M.D. Snowdon 1941
as from 1st Sept '49. MG Gauge No 4732/49 Mk 2

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

20.5 in. computed by M. Gornish (1940) ref. 561245/36 File No. 745172/27

| Diameter | 8" | | | 237 | 162 | | | | 8" | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Height | 1'6" | | 1 3 | | | | | | 1' 3" | | |
| Altitude | 23' | | | | | | | | | | |
| Year | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | Means |
| January | 1.79 | 1.72 | 3.86 | .91 | 1.21 | .98 | 1.72 | 2.53 | .84 | 1.32 | 16.98 |
| February | 1.22 | .81 | 1.01 | .75 | 1.16 | 1.66 | 1.12 | 1.02 | .45 | 3.07 | 12.27 |
| March | 2.13 | 2.37 | .27 | .17 | .97 | 1.11 | 4.45 | .56 | .72 | .36 | 12.11 |
| April | 1.91 | .49 | .97 | 1.37 | .81 | 1.34 | 1.03 | 1.30 | 1.14 | 1.77 | 12.13 |
| May | 1.40 | 1.95 | .97 | .42 | 2.82 | 2.52 | .60 | 1.88 | 2.07 | 1.18 | 15.21 |
| June | .72 | .26 | 1.40 | 1.57 | 1.02 | 2.59 | 1.79 | 2.01 | .50 | .94 | 12.80 |
| July | 2.26 | 1.74 | 1.19 | 1.57 | 2.84 | 1.08 | 2.81 | .78 | 2.10 | 2.26 | 19.63 |
| August | 3.58 | 1.89 | 1.09 | 3.21 | 1.75 | 3.20 | .21 | 3.53 | 1.53 | 1.36 | 21.35 |
| September | .37 | 1.31 | 1.94 | 2.74 | .72 | 1.76 | 1.36 | .76 | 1.00 | 2.31 | 14.27 |
| October | .88 | 3.08 | 1.91 | 3.04 | 1.44 | 1.03 | .09 | 1.58 | 5.05 | .21 | 18.31 |
| November | 2.22 | 1.87 | 1.35 | 2.87 | .25 | 1.96 | .70 | 1.62 | 1.97 | 4.28 | 19.09 |
| December | 1.38 | 1.81 | 1.38 | .93 | 2.35 | 1.73 | 2.11 | 1.62 | 1.16 | .87 | 15.34 |
| TOTALS | 19.86 | 19.30 | 17.34 | 19.55 | 17.34 | 20.96 | 17.99 | 18.59 | 18.53 | 19.93 | 189.39 |
| | D | 2 | 2 | D | 2 | D | D | D | 2 | D | |

1941. Open situation

1949 New gauge. as from 1st Sept 49.

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. |
|-------|---------|-------|------------------|---------------------|----------------------|----------------|----------------------|-----------------------|
| 1941. | | | Upminster | 2 3/4 mls. | W. | Cranham | 2 1/4 m. | W. |

Station No. 1259

RAINFALL at Horndon (Eastern Sew. Works)

51

County of Essex

Observer Horchurch U.D.C.

River Basin Thames - Roeding 16.2

Type of Gauge M. O Mk II

Annual Average 20.5 in. based on 20.5 years obs. un-weighted. Period of average 1915-35 Ref. 5

20.5 in. computed by Mr. Cornish (1938) ref. 561245/36

File No. 745172/27

| Diameter | 5 1/8" | | | 237 | 162 | | | 5" | | | | |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Height | 1' 3" | | | | | | | 10" | | | | |
| Altitude | 20' | | 23 | | | | | 23' | | | | |
| Year | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | Means | |
| January | 1.60 | 1.36 | .90 | 1.18 | 2.23 | 3.31 | .97 | 1.39 | 1.85 | 1.66 | | 16.45 |
| February | 4.70 | .83 | 1.42 | 2.04 | 1.32 | .28 | 2.68 | 2.55 | .05 | 1.51 | | 17.38 |
| March | 2.52 | 2.93 | .41 | 1.73 | 1.02 | .99 | 1.31 | .96 | 1.24 | .95 | | 14.06 |
| April | 2.48 | .64 | 2.11 | .36 | .15 | 1.24 | .19 | 1.70 | 1.88 | .41 | | 11.16 |
| May | 2.10 | 1.17 | 1.29 | 1.51 | 4.05 | .44 | 1.07 | 2.08 | .92 | 2.03 | | 16.66 |
| June | .89 | 2.59 | 1.57 | 2.68 | 3.43 | 1.63 | 1.00 | 4.57 | .95 | 1.43 | | 20.74 |
| July | 2.07 | .73 | 2.82 | 2.31 | .08 | 3.47 | 3.95 | 2.29 | 1.97 | 2.75 | | 22.44 |
| August | 2.38 | 1.61 | 1.36 | 3.10 | .53 | 2.58 | 1.74 | 4.10 | .95 | 3.02 | | 21.37 |
| September | 2.83 | 3.25 | 2.11 | 1.49 | 3.18 | 1.67 | 2.09 | 6.04 | .07 | 4.55 | | 27.28 |
| October | .58 | 2.13 | 2.67 | 1.51 | 3.68 | 1.19 | 1.46 | 2.56 | 1.95 | 5.13 | | 22.86 |
| November | 3.56 | 4.06 | .51 | 2.77 | .57 | .54 | 2.37 | 1.75 | 3.04 | 3.34 | | 22.51 |
| December | 1.77 | 1.91 | .59 | 1.31 | 1.50 | 2.36 | 1.57 | 2.96 | 3.20 | 2.17 | | 19.34 |
| TOTALS | 27.48 | 23.21 | 17.76 | 21.99 | 21.74 | 19.70 | 20.40 | 32.95 | 18.07 | 28.95 | | 232.25 |
| | D | D | D | D | D | D | D | D | D | D | | |

1954 - Olden situation.
 Insp. Feb. 1955 J.B.O.K. Good etc.

Position of Station on Ordnance One-Inch map:

No. of Map.....

National Grid Reference 51/606 8667

| Date. | Lat. N. | Long. | Railway Station. | Distance Direction from gauge | Parish Church. | Distance Direction from gauge. |
|-------|---------|-------|------------------|-------------------------------|----------------|--------------------------------|
| 1951 | | | Upminster | 2 1/2 m W | Ernham | 2 1/2 m W |

Summary of Earlier Records from 10-year Sheets:

| Record D, or d | 1910-19 | 1920-30 | 1931-40 | 1941-50 | 1951-60 |
|----------------|---------|---------|---------|---------|---------|
| | | C25 ✓ | ✓ | ✓ | ✓ |
| | | ✓ | ✓ | ✓ | ✓ |