

RAINFALL at Rainham, Riverside Sewage WorksCounty of EssexObserver H. J. Grant Esq.River Basin Thames, Roding & C. 2.Surveyor H. J. Lightfoot (C.E.)
Engage, 10 Age Farm UDC (16)
Dist. A. R. R. Works Manager(1925) n.o. Rain Gauge, by _____

| | | | | | | | | | | | |
|---------------|------|------|------|------|------|------------|-------------------------|------------------------------|---------------------|---------------------|-------------------------|
| Diameter ... | | | | | | 8 | | | | | |
| Height | | | | | | 1.3 | | | 1.6 | | |
| Altitude ... | | | | | | 5- | | | | | |
| Year | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | Mean 1930 |
| January ... | | | | | | 1.22 | 1.54 | 1.11 | 2.29 | .74 | 1.59 |
| February ... | | | | | | 2.41 | 2.55 | 2.92 | .95 | .33 | 1.05 |
| March | | | | | | .68 | .08 | 1.72 | 1.57 | .02 | 1.28 |
| April | | | | | | 1.10 | 4.09 | 1.58 ⁶ | 1.12 | 1.09 | 1.23 |
| May | | | | | | 1.53 | .91 | .81 | 2.23 | 1.00 | 2.58 |
| June | | | | | | .12 | 2.58 | 2.09 | 2.13 | .44 | .58 |
| July | | | | | | 3.06 | 2.13 | 2.63 ² | 1.64 | 1.74 | 1.67 |
| August | | | | | | 1.97 | 1.62 | 3.15 ³ 2.45 | 2.92 | 1.69 | 3.00 |
| September... | | | | | | 1.97 | .56 | 3.44 ⁸ | .60 | .12 | 1.73 |
| October | | | | | | 2.41 | 2.15 | 1.24 | 3.09 | 2.10 | .65 |
| November... | | | | | | 1.00 | 3.32 | 1.84 ^{1.22} 1.84 | 1.44 | 4.17 | 3.51 |
| December... | | | | | | 2.78 | .59 | 2.33 ³ | 2.49 | 3.41 | 1.39 |
| TOTALS... | | | | | | 20.25 2 | 22.12 ² 2 | 25.00 24.55 2 | 22.47 22.47 2 | 16.85 16.85 2 | 20.26 20.26 2 |

1927 Rainfall data sent to Observer on 22/7/59/ly

1930. Offices 20' high 20 yds N.
Cottages 40' .. 40 yds SE.

Annual Average (London Survey) = 19.2

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 |
|-------|------------|-----------|---------------------|---------------------|----------------------|----------------|---------------------|----------------------|
| 1925 | 51° 31' 0" | 0° 11' 0" | Rainham L.N.E.R. Ry | 500 yds | E | Rainham | 500 yds | E. |

Hornchurch Marshes,

RAINFALL at Rainham (Riverside Sew. Works)

County of Essex

Observer Dagenham U.D.C.

River Basin Thames - Roding etc. 2.

Type of Gauge No. 7. Hygrometer (Snowdon 1937)

Annual Average 19.3 in. based on 8 years obs. un-weighted. Period of average 1881-1915 Ref. S.

771595/27

| Diameter | 8. | | | | | | 5 2 | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| Height | 1.0. | 1. 4. | | | 1 6 | | | | | | |
| Altitude | 5. | | | 0 | | | | | | | |
| Year | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | Means |
| January | 1.07 | 1.07 | 1.00 | 1.06 | .99 | 3.26 | 3.02 | 2.06 | 3.84 | 1.85 | 1922 |
| February | 1.38 | .12 | 1.26 | .05 | 1.71 | 1.17 | 3.52 | .41 | .82 | 1.04 | 1148 |
| March | .19 | 1.46 | 1.58 | 1.91 | .36 | .87 | 2.69 | .34 | 1.19 | 2.82 | 1341 |
| April | 3.51 | 1.42 | .57 | 1.39 | 2.42 | 1.17 | 2.24 | .22 | 1.93 | 1.63 | 1650 |
| May | 2.37 | 3.02 | 2.10 | .39 | 1.13 | 2.64 | 2.42 | 1.53 | 1.59 | 1.49 | 1918 |
| June | 1.10 | .73 | 1.37 | 1.20 | 2.34 | 2.76 | 1.87 | .41 | 1.13 | .37 | 1328 |
| July | 2.20 | 1.95 | 1.47 | 1.11 | .75 | 3.05 | 1.41 | 1.10 | 2.90 | 3.69 | 1963 |
| August | 3.51 | 1.61 | .41 | 1.63 | 1.67 | .22 | 1.17 | 1.00 | 3.42 | .05 | 1469 |
| September | 1.14 | 1.87 | 1.98 | .98 | 2.24 | 2.33 | .84 | 1.99 | 1.02 | 1.35 | 1564 |
| October | .54 | 4.47 | .94 | 1.37 | 2.02 | 1.23 | 1.64 | 2.04 | 5.76 | 2.32 | 2236 |
| November | 2.12 | .71 | .74 | 1.53 | 3.21 | 2.92 | 1.43 | 2.34 | 1.16 | 5.51 | 2367 |
| December | .52 | .46 | .32 | 3.77 | 1.87 | 1.69 | 3.50 | 2.08 | .98 | 1.02 | 1621 |
| TOTALS | 19.65 | 18.89 | 13.64 | 16.39 | 20.71 | 23.31 | 26.30 | 15.52 | 27.72 | 23.14 | 20527 KM |

1932 No objects near gauge.

1933 House 25 ft. high 60 ft. E.

Office 15 " " 50 " W.

Sewage Tank 12 " " 35 " S.

Various small clipped bushes now within 15 ft. of gauge.

1935 n/p.

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

1 mile to 1 inch Series

Reference No.....

| Date. | Lat. N. | Long. | Railway Station. | Distance from gauge | Direction | Parish Church. | Distance from gauge | Direction |
|-------|---------|-------|------------------|---------------------|-----------|----------------|---------------------|-----------|
| 1932 | | | Rainham | 2 m. | E. | Rainham | 2 m. | E. |

RAINFALL at Hornchurch, Essex, (Riverside Sew. Works) Station No. 1248 41

County of Essex Observer Dagenham U.D.C.

River Basin Thames-Loding St-2

Type of Gauge N.T.Z. Hyetograph

Annual Average 19.3 in. based on 8 years obs. un-weighted. Period of average 1881-1915 Ref S

File No. 71595/27

| Diameter | 5" | | 8" | 1" | 237 | 867 | | | 8" | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Height | 1'6" | | | | | | | | | | |
| Altitude | 1'05" | | | | | | | | 5' | | |
| Year | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | Means |
| January | 2.01 | 1.63 | 4.10 | 1.01 | 1.31 | 1.24 | 1.34 | 2.65 | .93 | 1.42 | 17.64 |
| February | 1.15 | .69 | 1.28 | .76 | .94 | 1.91 | .64 | 1.10 | .72 | 2.66 | 11.85 |
| March | 2.29 | 2.09 | .38 | .06 | 1.15 | .88 | 4.12 | .64 | .81 | .67 | 12.09 |
| April | 1.77 | .63 | 1.26 | 1.14 | .90 | 1.29 | 1.15 | 1.07 | 1.41 | 2.15 | 12.77 |
| May | 1.25 | 2.51 | 1.49 | .30 | 2.08 | 3.12 | .72 | 1.61 | 1.42 | 1.28 | 15.78 |
| June | .87 | .39 | 1.57 | 1.79 | 1.47 | 1.81 | 1.87 | 2.25 | .61 | 1.12 | 13.75 |
| July | 2.49 | 1.36 | 1.27 | 1.34 | 3.62 | .95 | 2.85 | .75 | 1.40 | 2.49 | 19.57 |
| August | 3.62 | 2.04 | .95 | 2.53 | 1.53 | 3.35 | .10 | 3.61 | 1.53 | 1.19 | 20.45 |
| September | .49 | 1.77 | 1.45 | 3.01 | .87 | 2.33 | 1.20 | 1.02 | 1.22 | 2.21 | 15.57 |
| October | .84 | 3.12 | 1.90 | 2.89 | 1.44 | .99 | .14 | 1.64 | 4.84 | .36 | 12.16 |
| November | 2.35 | 1.37 | 1.10 | 3.03 | .12 | 2.19 | .80 | 1.63 | 2.05 | 4.52 | 19.16 |
| December | 1.51 | 1.90 | 1.50 | 1.05 | 2.26 | 1.74 | 2.07 | 1.29 | 1.25 | 1.41 | 16.48 |
| TOTALS | 20.64 | 19.50 | 18.25 | 18.91 | 17.69 | 21.80 | 14.00 | 19.76 | 18.19 | 21.48 | 143.22 |
| | D | D | D | D | D | D | D | D | D | D | |

#2 Sewage tanks 12' 35" S. Office 15' 50" W. House 25' 60" E.

1949 note on reverse F.1090 states that the earlier statement gauge drain 5" should have been 8" ground altitude 0' " " " 5'

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 | Parish Church. | Distance from gauge. | Direction |
|-------|---------|-------|------------------|---------------------|-----------|----------------|----------------------|-----------|
| 1942 | | | Rainham | 700 yds | NE | Rainham | 800 yds | NE |

Harroworth Markes, Station No. 1248

RAINFALL at Rainham (Riverside Sew. Works) 51

County of Essex Observer Dagenham U.D.C.

River Basin Thames - Roding & C. 2

Type of Gauge Snowdon

The Manager & Members
Riverside Sewage Works

Annual Average 19.3 in. based on 8 years obs. un-weighted. Period of average 1881-1915 Ref. S

" 21.83 " " 9 " " 1949-57 " " " " " "

File No. 771595/27

| Diameter ... | 8' | | | 237 | 867 | | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Height ... | 1' 6" | | | | | | | | | | | |
| Altitude ... | 5' | | | | | | | | | | | |
| Year ... | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | Means | |
| January ... | 2.02 | 1.43 | .90 | 1.08 | 1.87 | 3.07 | .94 | 1.25 | 1.70 | 1.41 | | 15.67 |
| February ... | 5.53 | .80 | 1.49 | 2.06 | 1.42 | .23 | 2.51 | 1.86 | .06 | 1.26 | | 17.22 |
| March ... | 2.33 | 2.30 | .40 | 1.59 | .95 | .99 | .88 | .90 | 1.40 | .74 | | 12.48 |
| April ... | 2.91 | .84 | 2.34 | .28 | .31 | 1.05 | .22 | 1.67 | 1.54 | .30 | | 11.46 |
| May ... | 2.00 | 1.33 | 1.18 | 1.93 | 4.04 | .45 | .97 | 2.07 | 1.01 | 1.80 | | 16.78 |
| June ... | .62 | 1.49 | 1.77 | 2.86 | 1.91 | 1.55 | .94 | 5.06 | .34 | 1.98 | | 18.52 |
| July ... | 1.70 | .66 | 3.33 | 2.68 | .07 | 3.21 | 3.60 | 1.66 | .93 | 2.13 | | 19.97 |
| August ... | 2.42 | 2.27 | 1.62 | 2.77 | 1.44 | 4.08 | 1.35 | 3.64 | 1.15 | 4.44 | | 20.18 |
| September ... | 2.74 | 2.73 | 2.01 | 1.88 | 2.68 | 2.04 | 1.89 | 5.34 | .08 | 3.91 | | 25.20 |
| October ... | .76 | 2.22 | 3.38 | 1.42 | 3.67 | 1.17 | 1.57 | 2.12 | 1.95 | 4.94 | | 23.20 |
| November ... | 3.71 | 3.69 | .68 | 3.15 | .50 | .77 | 2.36 | 1.71 | 2.71 | 2.99 | | 22.27 |
| December ... | 1.73 | 1.75 | .79 | 1.30 | 1.58 | 2.65 | 1.26 | 2.54 | 3.04 | 2.13 | | 18.77 |
| TOTALS ... | 28.47 | 21.51 | 19.89 | 23.00 | 20.44 | 21.26 | 18.49 | 29.82 | 15.91 | 28.03 | | 226.82 |
| | D | D | D | D | D | D | D | D | D | D | | |

1951 S sewage Tanks 12' 31.5"; Office 15' 56" W; House 25' 60" E.

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference Ta(5)516823

| Date. | Lat. N. | Long. | Railway Station. | Distance Direction from gauge | | Parish Church. | Distance Direction from gauge. | |
|-------|---------|-------|------------------|-------------------------------|----|----------------|--------------------------------|----|
| 1951 | | | Rainham | 700 yd | NE | Rainham | 800 yd | NE |

Summary of Earlier Records from 10-year Sheets :

| Record D, or d | 1910-19 | 1920-30 | 1931-40 | 1941-50 | 1951-60 |
|----------------|---------|----------------|---------|---------|---------|
| | | 0'25 ✓ | ✓ | ✓ | |
| | | ✓ lat. d 25.36 | ✓ | ✓ | |