

RAINFALL AT *Purley Pumping Station*

Lat. Lon. County of *E Surrey*

Symonds Rain Gauge, by *Johnson & Marcer* Observer *A. L. Cornwall Walker Esq*

H. - Shames, Wardsle.

| | | | | | | | | | | | |
|--------------|------|------|------|------|------|--------|-------|-------|-------|-------|--------|
| Diameter .. | | | | | | 5 | | | | | |
| Height | | | | | | 1 0 | | | | | |
| Altitude .. | | | | | | 215 ft | | | | | |
| Year | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 | 1906 | 1907 | 1908 | 1909 | MEANS. |
| January .. | | | | | | 1.13 | 4.82 | 1.04 | 1.66 | 1.13 | |
| February .. | | | | | | 1.00 | 2.39 | 1.51 | 1.55 | .94 | |
| March | | | | | | 3.11 | 1.13 | .86 | 3.75 | 3.66 | |
| April | | | | | | 1.68 | .68 | 3.12 | 2.55 | 2.01 | |
| May | | | | | | .88 | 1.52 | 1.97 | 2.38 | 1.19 | |
| June | | | | | | 5.39 | 2.90 | 2.20 | 1.70 | 2.76 | |
| July | | | | | | 1.95 | .75 | 1.32 | 3.13 | 3.71 | |
| August | | | | | | 2.51 | 1.36 | 2.40 | 3.87 | 2.16 | |
| September .. | | | | | | 1.90 | 1.61 | .86 | 1.35 | 3.45 | |
| October | | | | | | 1.23 | 4.16 | 4.34 | 2.56 | 4.74 | |
| November .. | | | | | | 4.29 | 4.95 | 2.72 | .79 | 1.12 | |
| December .. | | | | | | .52 | 1.55 | 3.46 | 2.75 | 3.67 | |
| TOTALS .. | | | | | | 25.59 | 27.82 | 25.50 | 28.04 | 30.54 | |

1905 *Purley Parish Church*

700 yards

N E 1906

Purley Station

190 "

N.W. E 1906

Office 19 ft high

60 ft

N.E. S.W. 1906

1907 Hedge 3 ft 6" high

20 + 2 ft

N + E

RAINFALL at Purley Pumping StationCounty of SurreyObserver A. E. Cornwall-Walker Esq.
East Surrey W.C. RushallRiver Basin Thames - Wandle 4Symons Rain Gauge, by T. J. Mercer

| Diameter ... | 5 | | | | | | | | | | | | | |
|--------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------------|--|--|
| Height | 10 | | | | | | | | | | | | | |
| Altitude ... | 215 $\overline{\text{A}}$ | | | | | | | 225 | | | | | | |
| Year ... | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | MEANS. | 1916-19 SUMS | | |
| January ... | 2.42 | 1.42 | 3.10 | 4.11 | .70 | 4.32 | 1.20 | 1.59 | 3.31 | 3.75 | 2.592 | 9.75 | | |
| February ... | 4.19 | 1.37 | 2.25 | .95 | 4.44 | 5.39 | 4.59 | .82 | 1.30 | 2.57 | 2.787 | 9.28 | | |
| March | 1.43 | 2.13 | 4.12 | 2.81 | 4.41 | .65 | 4.69 | 1.72 | 1.06 | 3.84 | 2.686 | 11.31 | | |
| April | 1.74 | 2.22 | .09 | 2.97 | .91 | 1.53 | 1.31 | 2.68 | 4.24 | 3.18 | 2.087 | 11.41 | | |
| May | 2.02 | 1.39 | 1.22 | 1.55 | 1.36 | 3.01 | 2.86 | 1.65 | 2.14 | .12 | 1.732 | 6.77 | | |
| June | 2.42 | 2.20 | 3.06 | .26 | 1.11 | .71 | 2.86 | 1.67 | .91 | 1.16 | 1.636 | 6.60 | | |
| July | 2.46 | .33 | 2.04 | 2.79 | 1.84 | 3.54 | 1.21 | 5.19 | 6.14 | 2.05 | 2.759 | 14.59 | | |
| August | 3.55 | .85 | 5.59 | 1.95 | 1.61 | 2.18 | 3.23 | 5.51 | 1.07 | 2.71 | 2.825 | 12.52 | | |
| September .. | 1.09 | .99 | 3.61 | 2.02 | .75 | 2.08 | 1.49 | 2.75 | 4.91 | 1.40 | 2.109 | 10.55 | | |
| October ... | 2.91 | 4.23 | 2.82 | 4.17 | 1.63 | 2.34 | 4.37 | 4.10 | 1.90 | 1.00 | 2.947 | 11.37 | | |
| November .. | 3.47 | 4.49 | 2.36 | 2.85 | 3.85 | 2.67 | 5.72 | 1.65 | 2.72 | 1.67 | 3.145 | 11.76 | | |
| December ... | 4.41 | 7.06 | 3.38 | 1.22 | 8.21 | 5.70 | 3.18 | 1.97 | 2.93 | 4.28 | 4.254 | 12.50 | | |
| TOTALS ... | 32.11 | 28.68 | 33.64 | 27.65 | 30.82 | 34.12 | 36.71 | 31.30 | 32.63 | 27.93 | 31.559 | 128.57 | | |

1910 Office's 1992 high 60 ft S.W.
 1911 Hedge 25 ft - 21 ft N.E.
 1919 Dwyer Hall 22 ft 64 N.E.

(128.57)

| Date. | Lat. N. | Long. | Railway Station. | Distance. | Direction. | Church. | Distance. | Direction. |
|-------|---------|-------|------------------|------------------|------------|----------------------|------------------|------------|
| 1910 | | | Purley | 190 yds W. of | E | Purley Parish Church | 700 yds N. of | N.E. |

RAINFALL at Purley Pumping StationCounty of SurreyObserver A. E. Cornwall Walker Esq.River Basin Thames - Wandle 4East Surrey Water Co.

cu B.A. Symonds Rain Gauge, by Townsend & Mercer
 4.99 mounted in iron holder
 4.99 inaffirmant capacity (suggested bottle)
 5.00 1/2 inches can opposite today.

To be

| | | | | | | | | | | | | | |
|--------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 32.31 | January ... | 3.12 | 2.06 | 3.31 | 1.86 | 2.68 | 2.33 | 3.99 | 3.24 | 4.42 | 1.86 | 3.74 | 2.94 |
| 25.86 | February ... | .68 | .31 | 2.72 | 4.92 | .84 | 5.02 | 2.64 | 5.13 | 1.96 | .80 | .84 | 2.35 |
| 18.69 | March | 1.98 | 1.64 | 2.22 | 2.18 | 1.06 | .97 | .45 | 3.21 | 2.96 | .08 | 1.94 | 1.10 |
| 29.30 | April | 3.28 | 1.15 | 3.15 | 2.11 | 4.41 | 3.14 | 4.81 | 2.06 | 2.12 | 1.28 | 1.79 | 2.66 |
| 22.51 | May | .66 | 1.62 | 1.14 | 3.05 | 3.57 | 2.16 | 1.77 | 1.03 | 2.20 | 2.23 | 3.08 | 2.05 |
| 19.54 | June | 1.69 | .31 | 1.40 | .47 | 2.52 | .18 | 4.05 | 4.05 | 3.06 | 1.06 | .75 | 1.77 |
| 30.71 | July | 5.05 | .18 | 3.47 | 2.75 | 3.74 | 3.84 | 2.50 | 2.50 | 2.11 | 2.23 | 2.34 | 2.79 |
| 29.00 | August | 1.48 | 1.28 | 2.60 | 2.88 | 3.40 | 2.56 | 2.09 | 4.73 | 2.75 | 2.01 | 3.22 | 2.64 |
| 27.04 | September... | 3.41 | 1.19 | 2.29 | 1.58 | 3.54 | 3.06 | 1.50 | 5.81 | .77 | .13 | 3.76 | 2.46 |
| 33.74 | October | 1.22 | .83 | 1.52 | 6.43 | 3.72 | 3.56 | 3.15 | 1.75 | 6.27 | 8.95 | 1.34 | 3.07 |
| 38.64 | November... | 1.39 | 1.90 | 2.03 | 2.01 | 3.73 | 3.22 | 6.50 | 3.07 | 3.22 | 6.83 | 4.74 | 3.51 |
| 37.77 | December... | 2.32 | 1.42 | 4.81 | 3.00 | 4.68 | 3.23 | .63 | 4.55 | 3.30 | 7.35 | 2.48 | 3.43 |
| 345.11 | TOTALS... | 26.28 | 13.89 | 30.66 | 33.24 | 37.89 | 33.27 | 34.08 | 41.13 | 35.14 | 89.51 | 30.02 | 31.37 |

Inspected 18. 24. XI. 22. 6. on top of covered reservoir, well sealed on E & W.
 with steep drop 18 ft. exp 40 ft. N } 3. mps is in poor condition but
 Bank (top) 10 ft. 40 ft E } no fault can be found with
 (down) 18 ft. 40 ft N } the site.

17. XI. 30 Inspected. 9 on covered res. Recommended that go to work to replace
 on ground level see green file.

Position of Station on reduced Ordnance Survey } 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. | | | Purley | 190 yds (W) 300 yds | E NE | Purley Parish Church | 700 yds | NE |

RAINFALL at Purley (Pumping Station)

County of Surrey

Observer A. E. Cornwell-Walker, Esq.

River Basin Thames Wandle 4

Type of Gauge M.O.

Annual Average 29.3 in. based on 34 years obs. ~~un~~-weighted. Period of average 1881-1915 Ref. I.H.S.

667 036 / 26

| | | | | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|
| Diameter | 5 | | | | | | | | | | | |
| Height | 1 3 | | | 1 0 | | | | | | | | |
| Altitude | 225 | | | 214 | | | | | | | | |
| Year | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | Means | |
| January | 2.18 | 3.33 | 2.27 | 2.46 | 1.27 | 5.89 | 5.39 | 3.02 | 5.73 | 2.52 | 3.45 | 6 |
| February | 2.26 | 3.4 | 3.05 | .43 | 3.73 | 2.32 | 5.14 | .92 | 1.61 | 2.25 | 2.21 | |
| March | .37 | 1.82 | 3.92 | 2.77 | .26 | 1.31 | 4.03 | .42 | 1.43 | 3.71 | 2.00 | 4 |
| April | 4.58 | 2.48 | .68 | 3.19 | 3.24 | 1.96 | 2.74 | .26 | 2.88 | 2.11 | 2.41 | 2 |
| May | 3.04 | 4.67 | 2.57 | .72 | 1.42 | .41 | 2.53 | 2.19 | 2.02 | 1.14 | 2.07 | 1 |
| June | 2.07 | 1.08 | 2.26 | 1.02 | 2.99 | 2.74 | 1.62 | .61 | 1.05 | .29 | 1.57 | 3 |
| July | 2.79 | 2.31 | 2.02 | 1.85 | 1.27 | 4.15 | .87 | 1.94 | 2.79 | 2.56 | 2.25 | 5 |
| August | 4.60 | 1.07 | .81 | 2.33 | 3.43 | 1.51 | 2.99 | 4.07 | 3.40 | .04 | 2.42 | 5 |
| September | 1.74 | 2.02 | 2.70 | 1.55 | 3.90 | 2.85 | 2.51 | 2.68 | 1.72 | 1.59 | 2.32 | 6 |
| October | .77 | 6.08 | 2.29 | 2.10 | 4.37 | 2.47 | 3.66 | 3.34 | 6.60 | 3.61 | 3.52 | 9 |
| November | 3.48 | 1.16 | 1.31 | 2.83 | 5.36 | 4.69 | 2.05 | 4.13 | 5.33 | 8.17 | 3.85 | 1 |
| December | .81 | .76 | .47 | 7.72 | 4.60 | 3.77 | 4.81 | 3.81 | 1.92 | 1.48 | 3.01 | 5 |
| TOTALS | 28.69 | 27.12 | 24.35 | 28.97 | 35.84 | 34.07 | 38.84 | 27.39 | 36.54 | 29.47 | 31.28 | 1 |

1921, Grass Bank 10' 6" high, 39' 6" dia
- Jan. 17. New R. on new site 90' N.

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

Station No. 95

RAINFALL at Purley Pumping Station

41

County of SurreyObserver A. E. Hammond Esq. CBE.River Basin Thames & Wandle

EAST SUSSEX WATER CO.

Type of Gauge M.O.Annual Average 29.3 in. based on 34 years obs. un-weighted. Period of average 1881-1915 Ref. I.W.S.File No. bb702b/26

| Diameter | 5" | | | 287 | 567 | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Height | 1' 0" | | | | 1 | | | | | | |
| Altitude | 214' | | | | 41 | | | | | | |
| Year | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | Means |
| January | 2.22 | 3.27 | 6.18 | 2.10 | 2.34 | 2.54 | 2.25 | 4.03 | 1.50 | 1.98 | 27.41 |
| February | 2.82 | .65 | 2.05 | .70 | 1.91 | 2.43 | 1.37 | 1.48 | 1.44 | 5.28 | 26.73 |
| March | 3.28 | 2.08 | .29 | .07 | 1.27 | 1.62 | 5.55 | 1.02 | .92 | 1.39 | 17.49 |
| April | 2.05 | 1.77 | 1.10 | 1.41 | 1.37 | 2.49 | 1.91 | 1.76 | 1.73 | 3.34 | 18.93 |
| May | 2.04 | 3.29 | 2.76 | .48 | 2.89 | 3.12 | 1.44 | 1.59 | 1.72 | 1.27 | 20.60 |
| June | 1.99 | .73 | 1.31 | 1.84 | 1.98 | 3.39 | 2.68 | 2.97 | 1.16 | 1.60 | 19.65 |
| July | 2.70 | 2.25 | 1.55 | 2.08 | 3.87 | 2.35 | 1.15 | 1.19 | 1.41 | 2.84 | 21.39 |
| August | 4.00 | 2.25 | 1.33 | 2.66 | 2.02 | 4.46 | .22 | 3.74 | 1.71 | 1.87 | 24.26 |
| September | .51 | 1.97 | 1.53 | 2.90 | 2.02 | 3.06 | 1.29 | 1.89 | .39 | 3.03 | 18.59 |
| October | 1.04 | 3.87 | 3.10 | 4.30 | 3.08 | 1.38 | .29 | 1.94 | 6.55 | .39 | 25.94 |
| November | 3.03 | 1.97 | 1.49 | 4.55 | .25 | 4.67 | 1.00 | 1.95 | 2.93 | 6.33 | 28.17 |
| December | 2.20 | 3.32 | 2.29 | 2.76 | 3.72 | 3.09 | 2.86 | 4.26 | 1.37 | 1.88 | 27.75 |
| TOTALS | 27.88 | 27.42 | 24.98 | 25.85 | 26.72 | 34.60 | 22.01 | 27.82 | 22.83 | 30.20 | 270.31 |

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. 95

RAINFALL at PURLEY (Pumping Station)

51

County of SurreyObserver East Surrey Water Co.River Basin A Thames WandleType of Gauge M.O. Mk II anemosp.Annual Average 29.3 in. based on 34 years obs. un-weighted. Period of average 1881-1915 Ref. 1.208
30.15 " " 35 " " 1916-1950 1916-1935 PFile No. 15702/2
E22529/58

| | | | | | | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Diameter ... | 5" | | | 287 | 567 | | | | | | |
| Height ... | 1' 0" | | | | 1 | | | | | | |
| Altitude ... | 214' | | | | 51 | | | | | | |
| Year ... | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | Means |
| January ... | 4.09 | 2.56 | 1.83 | 1.43 | 2.98 | 4.63 | 1.89 | 2.55 | 2.76 | 2.71 | 2.743 |
| February ... | 7.10 | .98 | 1.54 | 2.54 | 1.83 | .38 | 3.65 | 2.13 | .06 | 2.24 | 2.245 |
| March ... | 3.51 | 2.62 | 4.44 | 2.39 | 1.24 | .94 | 1.02 | 1.36 | 2.37 | 1.89 | 1.778 |
| April ... | 2.91 | 1.36 | 2.59 | .33 | .27 | 1.45 | .19 | 1.45 | 2.68 | 0.71 | 1.400 |
| May ... | 2.16 | 1.19 | 1.87 | 3.10 | 4.09 | .36 | 1.60 | 2.34 | .97 | 1.59 | 1.927 |
| June ... | .93 | 1.59 | 1.69 | 3.45 | 2.17 | 2.90 | 1.01 | 4.86 | .92 | 1.16 | 2.068 |
| July ... | 2.50 | .75 | 3.79 | 2.62 | 1.02 | 5.89 | 3.08 | 2.55 | 1.28 | 3.14 | 2.662 |
| August ... | 3.56 | 2.95 | 1.70 | 3.22 | 1.48 | 2.99 | 2.77 | 2.99 | 1.32 | .352 | 2.650 |
| September ... | 3.02 | 3.06 | 3.73 | 2.29 | 2.11 | 2.43 | 2.35 | 5.59 | .21 | 3.42 | 2.821 |
| October ... | 1.08 | 3.11 | 4.04 | 2.00 | 3.71 | 1.30 | 1.73 | 3.59 | 2.51 | 6.27 | 2.934 |
| November ... | 6.76 | 3.54 | 1.60 | 5.76 | 1.11 | .84 | 3.13 | 1.74 | 3.62 | 5.21 | 3.331 |
| December ... | 3.02 | 2.62 | .41 | 2.21 | 2.58 | 3.91 | 2.55 | 3.34 | 5.55 | 3.08 | 2.957 |
| TOTALS ... | 40.70 | 26.33 | 25.53 | 31.34 | 24.59 | 28.02 | 24.97 | 34.49 | 24.25 | 34.94 | 29.516 |
| | D | D | D | D | D | D | D | D | D | D | |

Inspected 18.155 Mr. P.H. G. Deedes. Gauge leaks, measure certified. Site reasonable beside Kitchen garden in grounds P/S building 60' E to, but only the top corner shelters.

Position of Station on Ordnance One-Inch map :

No. of Map... (70).....

National Grid Reference T62.312.614.

| 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-accepted

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