

394

80
Notes for

RAINFALL AT Orpington Kent Water Works Co.

Lat.

Tom.

County of _____

Kent

Rain Gauge, by

Observer

W Morris Esq C.E.

5-Parent

[illegible]

RAINFALL AT Orpington Kent Waterworks

Lat. _____

Lon. _____

County of _____

Kent

Rain Gauge, by _____

Observer _____

F. C. Bayard Esq.

S. Daint.

Diameter	5											
Height	10											
Altitude	220											
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January	2.49	2.03	.19	1.84	2.95	1.52	.53	1.83	.47	3.03	1.688	
February ....	.95	.01	1.08	3.49	1.71	.21	.29	2.03	1.21	2.44	1.342	
March	2.57	2.08	1.46	.56	1.07	1.00	3.66	4.23	1.42	.67	1.872	
April	1.97	.57	1.21	.07	2.10	1.42	.67	.99	1.26	2.60	1.286	
May	1.32	2.27	.93	.77	1.47	.41	.27	1.22	3.22	1.46	1.334	
June	1.80	1.38	3.68	.82	2.18	.23	3.80	1.98	2.63	1.03	1.953	
July	4.12	3.97	2.16	2.22	3.35	3.16	2.65	1.12	.52	.83	2.410	
August	2.28	3.37	3.38	.67	3.01	1.93	1.96	2.62	1.13	.88	2.123	
September....	.57	.32	1.75	1.27	1.72	.76	7.49	2.49	.38	2.36	1.911	
October	1.12	5.71	4.66	4.05	4.57	3.01	4.06	.37	3.06	2.04	3.265	
November....	1.89	2.09	2.95	2.12	4.49	4.07	1.68	1.14	3.54	4.95	2.892	
December ....	.78	3.11	1.58	3.02	1.39	2.14	3.58	3.02	2.63	1.49	2.244	
TOTALS	21.86	26.91	25.03	20.90	30.01	19.86	30.64	23.04	21.47	23.78	24.350	

RAINFALL AT

Orpington Kent Waterworks

Lat.

Lon.

County of

Kent West

in Standard Rain Gauge, by

Observer

(F. C. Bayard Esq.)

5-Diameter

W. H. M. S. M. W. B.

Diameter ..	5										
Height	1 0		8								
Altitude ..	220										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	3.15	.69	.76	2.23	3.73	1.01	4.38	1.54	1.43	1.12	2.004
February ..	4.74	1.45	.94	1.57	3.53	.98	2.35	1.40	1.28	.78	1.902
March	1.03	2.78	1.47	2.28	1.47	3.57	1.07	.83	2.75	3.23	2.046
April .....	.71	1.49	.48	1.62	.88	1.91	.59	2.97	2.86	1.56	1.507
May	1.09	.94	2.88	1.93	1.81	1.25	1.51	2.15	1.80	1.17	1.653
June	2.22	1.94	3.58	6.18	1.00	5.64	2.17	2.07	2.16	3.47	3.043
July .....	.96	1.72	1.81	5.76	1.27	.63	1.93	.59	4.06	3.16	2.189
August	2.84	1.84	3.11	3.22	1.63	2.28	.49	1.99	3.57	1.85	2.282
September ..	.98	1.31	.77	2.14	1.33	1.99	2.05	.45	1.36	3.79	1.617
October	1.67	2.65	1.72	6.00	2.04	1.37	4.70	3.20	1.70	4.62	2.967
November ..	2.42	.76	1.79	2.52	1.40	4.05	5.10	1.96	.81	1.05	2.186
December ..	2.76	4.52	1.48	2.06	2.60	.57	1.60	2.91	2.10	3.36	2.396
TOTALS ..	24.57	22.09	20.79	37.51	22.69	25.25	27.94	22.06	25.88	29.16	25.794

+ 9.11.02 A.M. J. suffering from age - pipe broken; rim worn on edge & part of outer case perforated. Open level ground, no objects, here well beyond range.

RAINFALL at Orpington Kent WaterworksCounty of KentObserver Met Water Board

+ method

River Basin Thames. Darent 5

Rain Gauge, by _____

Diameter ...	5										
Height	1 0										
Altitude ...	220										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	TOTAL MEANS. 1916-19
January ...	2.84	1.26	4.79	3.85	.69	3.69	1.01	1.29	3.22	3.70	9.22
February ...	4.05	1.22	1.79	.88	3.95	5.14	4.22	.63	1.03	2.77	8.65
March	1.42	1.97	3.71	2.98	4.76	.48	4.64	1.55	.99	3.69	10.87
April	1.84	2.03	.05	3.04	1.07	1.91	1.67	2.11	3.80	3.33	10.91
May	2.55	1.24	1.03	.94	1.84	3.37	3.16	2.06	2.04	.13	7.39
June	2.52	2.06	2.80	.55	.82	.37	3.39	2.39	1.05	1.09	7.92
July	2.80	.63	1.21	2.20	1.50	3.94	1.26	5.64	5.34	2.25	14.49
August	1.82	1.05	4.81	2.20	1.22	2.66	2.25	6.17	1.09	2.26	11.77
September ...	1.06	1.45	3.31	1.54	.81	2.36	1.16	1.46	4.61	1.29	8.52
October ...	2.81	3.59	2.99	4.09	1.77	1.82	3.63	3.71	2.22	.82	10.38
November ...	3.67	4.79	2.38	2.77	3.60	2.83	5.56	1.58	2.31	1.61	11.06
December ...	4.19	6.06	3.26	1.27	8.40	5.55	3.38	2.07	2.22	3.90	11.57
TOTALS ...	31.07	27.35	32.13	26.31	30.43	34.12	35.33	30.66	29.92	26.84	122.75

+ Inspector

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

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Observer Mt. Water Board
7. Melhuish
Kent District

River Basin Thames - Darent - 5 -

Kent District

5.00 } Cu. B.A. Rain Gauge, by Hudson Bros
4.98 } in excellent condition
4.99 }
4.96 } new bottle required in receiver.

$\begin{matrix} \text{glass} & \cdot 01 = 012 & \cdot 10 = 102 \\ & \cdot 25 = 258 & \cdot 39 = 397 \\ & \cdot 50 = 510 \end{matrix} \left. \vphantom{\begin{matrix} \text{glass} \\ \cdot 01 \\ \cdot 25 \\ \cdot 50 \end{matrix}} \right\} \begin{matrix} \text{new glass} \\ \text{reported as} \\ \text{necessary} \\ (\text{v. 21}) \end{matrix}$

X. 219 BA gauge sound + correct.

X.25 Glass flat bottom

X-25 8A gauge sand + correct.												X-25 glass flat bottom.		(4 vi. 23)	
Diameter ...	5"												1930 Meters.	TOTAL	
Height	1 0														
Altitude ...	220														
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929					
January ...	2.98	1.94	3.28	1.60	2.37	2.32	2.77	2.35	3.28	1.03		2.96	26.88		
February ...	.53	.36	2.28	4.34	.88	4.46	2.46	4.47	1.52	.46		1.20	22.96	
March	1.12	1.54	2.10	2.26	1.10	1.17	.24	2.83	2.51	.00		1.73	16.60		
April	3.49	1.61	3.78	1.89	3.76	2.45	5.45	1.53	1.78	1.19		1.47	2840		
May .....	.66	1.40	1.66	2.35	3.03	2.16	1.51	1.03	2.03	1.42		4.33	21.58	
June	1.26	.30	1.60	.66	2.61	.20	3.29	3.26	2.55	.85		.72	17.30		
July	3.82	.23	3.17	2.10	3.46	3.34	1.71	2.37	1.94	1.74		2.08	25.99		
August	1.45	2.13	2.25	2.02	2.80	1.78	2.60	3.75	2.82	1.85		3.48	26.97		
September...	4.40	1.50	2.32	1.60	3.86	2.61	1.23	4.57	.76	.08		4.35	27.27		
October .....	.90	.84	1.71	5.87	3.15	3.68	3.15	1.50	4.72	3.88		1.43	30.83	
November...	1.12	2.23	1.83	2.01	3.55	2.91	6.53	2.89	2.38	6.65		4.65	36.25		
December...	2.24	1.45	1.77	2.59	3.94	3.08	.65	4.55	3.14	6.80		2.31	35.55		
TOTALS...	23.97	15.53	30.75	29.29	34.51	30.16	31.59	34.60	29.48	25.95		30.71	316.54		

Inspected 5-25-V-21-5 - in garden, stems 40 ft high 30 ft. S-S-E
also high lines & railway embankment in W.
To be moved 20 ft NW to better site.
Inspected 3 juv. 6-X-23. Glass immature by about .01 in.
Inspected 4-12-X-25. good exposure.
" " 21 X 57 see green file

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

No. of Maps

Reference No.

[illegible]

RAINFALL at Oxprington (Kent Waterworks)County of Kent Observer Met. Water Board.River Basin Thames Parent + c5

Type of Gauge.....

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

85389/28.

Diameter	5											
Height	10											
Altitude	220											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	TOTAL	Means
January	1.93	2.73	1.75	2.07	1.29	5.05	5.54	2.87	4.83	2.47	30.53	
February	1.68	.47	1.93	.15	3.68	1.92	4.59	.85	1.30	2.01	18.58	
March .....	.28	1.60	3.19	2.53	.47	1.14	3.91	.61	1.53	3.44	18.70	
April	4.10	2.23	.64	2.47	2.89	2.05	2.49	.45	2.45	2.14	21.91	
May	3.11	3.83	2.04	.76	1.77	.40	2.80	1.82	1.85	1.48	13.86	
June	1.55	1.02	1.33	1.59	2.98	3.09	2.45	.49	1.15	.55	16.20	
July	2.58	2.73	2.01	1.88	.87	3.26	.60	1.77	2.75	3.05	21.50	
August	4.20	.92	.66	2.03	2.96	.52	2.00	2.06	2.75	.05	18.15	
September	1.83	1.77	2.74	1.21	3.70	2.54	1.76	2.00	1.55	1.40	20.50	
October .....	.73	6.32	1.83	2.08	3.74	2.47	2.87	3.01	7.30	3.27	33.62	
November	3.56	1.12	1.34	3.44	5.48	3.88	1.78	3.39	4.98	7.91	36.88	
December .....	.66	.62	.53	6.03	3.47	3.01	5.46	2.91	1.39	1.26	25.34	
TOTALS	26.21	25.36	19.99	26.24	33.30	29.33	56.25	22.23	33.89	29.03	281.77	

Inspected 1/3/34. There is a space between the outer can of the gauge and the ground
and this should be filled in.
† Inspected 8/2/38 by Mrs Bennell.

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. 394.11A

RAINFALL at Ospington (Kent Waterworks)

41

County of KentObserver Met. W. J. R. BondRiver Basin Thames, Danesh 2.5.

Type of Gauge

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

File No. 333291/23

Diameter	5"				391	241						
Height	1' 0"					1		0' 7"				
Altitude	220'					41		214'		220'		
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	TOTAL	Means
January	2.53	2.17	5.22	1.95	2.34	2.13	2.12	2.95	1.27	1.06	23.74	
February	2.51	.76	1.68	.81	1.51	2.69	1.67	1.66	1.33	4.78	19.40	
March	3.36	2.03	.34	.17	1.26	1.52	5.69	.86	.69	1.21	17.13	
April	1.49	1.44	1.35	1.44	1.13	2.34	1.84	1.57	1.45	3.73	17.78	
May	1.88	3.46	2.93	.53	2.28	3.74	1.39	1.83	1.57	1.31	20.92	
June	2.13	.29	1.30	1.65	1.68	2.42	3.06	2.72	.88	1.46	17.59	
July	2.15	2.16	1.78	1.08	2.42	1.79	1.59	1.18	.44	2.23	16.82	
August	3.92	2.82	.81	3.37	1.69	4.09	.24	4.67	1.55	1.53	24.69	
September	.66	2.28	1.83	2.69	1.45	2.56	1.32	1.49	.70	2.85	17.83	
October	.76	3.45	2.70	3.84	3.49	1.10	.30	1.75	6.23	.29	23.91	
November	3.13	2.15	1.38	4.08	.37	4.16	1.10	1.66	3.08	5.60	26.71	
December	1.95	2.40	2.15	2.44	2.49	2.72	2.49	4.48	1.35	1.76	24.53	
TOTALS	26.47	25.41	23.47	24.05	22.11	31.26	23.11	26.82	20.54	27.81	251.05	

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.

Station No. 394

1986

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RAINFALL at GRAPINGTON (KENT WATERWORKS)County of KENT Observer MET. WATER BOARDRiver Basin THAMES - DARENTA & SType of Gauge M.O. 443Annual Average 26.7 in. based on 51 years obs. ~~un~~-weighted. Period of average 1881-1915 Ref. A.W. 2
27.7 " " 35 " " 1916-1950 File No. 1916-1950-2821/25 E 340/110
EX 2624/52

Diameter ...	5"				5"	291	241	211			
Height ...	0' 7"				1' 0"		1	1' 3"			
Altitude ...	220'				220		51				
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	2.69	2.43	1.20	1.69	3.35	3.86	1.38	2.70	3.14	2.33	2477
February ...	7.15	.93	1.78	2.27	1.89	.47	3.31	2.61	.12	2.23	2276
March ...	3.43	2.99	.37	2.19	1.10	1.05	1.02	1.65	1.79	1.79	1738
April ...	3.01	1.14	2.48	.27	.19	1.34	.27	1.54	2.37	0.59	1320
May ...	2.15	1.52	1.85	2.23	3.34	.43	1.13	1.78	1.49	1.85	1827
June ...	1.16	1.33	1.75	4.61	2.10	3.38	1.17	4.29	1.29	1.51	2259
July ...	1.86	.81	3.12	2.45	.03	4.75	3.40	1.78	1.63	3.54	2337
August ...	3.47	2.89	1.44	3.19	1.85	2.85	3.30	3.50	1.05	3.85	2689
September ...	2.77	3.50	3.55	2.23	2.53	2.39	2.48	5.64	.19	4.86	3014
October ...	.99	3.05	4.22	1.80	4.65	1.27	1.47	3.17	2.14	6.85	2961
November ...	4.49	4.22	1.23	5.26	.77	.59	3.12	1.64	3.04	4.60	2896
December ...	2.90	2.28	.81	1.96	2.00	2.87	2.03	2.93	4.72	2.93	2543
TOTALS ...	36.07	27.09	23.80	30.15	23.80	25.25	24.08	33.23	22.97	36.93	28337
	D	D	D	D	D	D	D	D	D	D	D

lim 5/54. G. sound but rain only at 8" and base set in brickwork.
 Rain to be raised to 1" and base set in ground. Good site.

1958. MAY 1958 J.M.B. from 62-75, 90-110 SW-NW. Chert 12, 20 NE, Chert 30, 100 NE
 Set in d. tube. Post site. It would seem that g. was moved since
 last inspection.

July 1955, M.W.B. G. in position & correct to 12"
 Inspected 3-10-60 by M.W.B. large tree 60'-60'SW also < lim NW-SE longest 40'-70'SW.
 10-10-60 Letter informing large tree to be removed.

Position of Station on Ordnance One-Inch map: No. of Map 17 National Grid Reference 51 2 2

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
<u>C Aug 1955</u>	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓