

RAINFALL AT

Barking Outfall

Woolwich.

Lat.

Lon.

County of *Essex*

London.

LONDON

Rain Gauge, by

Observer

A R Binnie Esq C.E.

Left Bank Thames - 2.

Diameter				8							
Height				6							
Altitude				6 ft							
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January				1.33	2.72	1.32	.48	1.40	.47	2.08	
February				2.47	1.56	.20	.28	1.89	.79	1.65	
March .....				.29	.76	1.15	2.68	2.66	.58	.47	
April .....				.06	1.34	1.07	.43	1.64	1.00	2.29	
May .....				.49	1.65	.26	.26	1.25	1.88	1.21	
June .....				.72	1.93	.22	2.40	1.39	1.09	1.38	
July				2.05	2.62	3.21	1.53	.92	.60	1.45	
August				1.35	2.42	1.63	2.22	2.14	.64	.93	
September....				.99	1.31	.86	4.93	2.60	.23	2.09	
October				3.30	3.60	2.78	2.71	.48	2.02	2.13	
November....				2.04	2.92	2.60	1.01	.89	1.77	3.43	
December				1.88	2.09	2.02	2.63	1.53	1.97	1.07	
TOTALS				16.97	24.92	17.32	21.56	18.79	13.04	20.18	

1893 East Ham Church 1 mile W

Sewer Bank 20 ft high 300 ft W

RAINFALL AT Barking Outfall

Lat. London Lon. High of the Thames - 1903 County of Essex

Rain Gauge, by Thames 2. Observer Sir A.R. Binnie, Cl.
M. H. Maurice Esq. Cl. cmg

Diameter ..	8										
Height	0 6	0.9			0.6						
Altitude ..	6 ft										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEAN.
January ..	2.03	.48	.55	1.92	1.94	1.09	3.47	.86	1.20	.78	1.432
February ..	2.60	.83	.92	.80	2.35	.63	1.72	.93	1.19	.71	1.263
March ....	.86	1.62	1.11	1.74	1.21	3.05	.85	.72	1.89	2.13	1.518
April .....	.85	1.47	.29	1.54	.74	1.69	.66	2.83	2.12	1.40	1.359
May	1.09	1.21	2.84	1.32	1.73	.77	1.22	2.31	1.54	1.26	1.529
June	2.79	.92	3.00	5.87	.90	3.64	2.18	1.65	1.87	2.55	2.537
July	1.96	2.39	1.13	6.05	2.24	.66	.81	1.75	3.66	2.89	2.354
August	2.05	1.47	2.99	3.45	1.37	1.97	1.50	1.35	2.60	1.64	2.039
September ..	.54	1.19	1.24	1.89	.98	2.14	1.56	.64	1.10	1.99	1.327
October	1.47	2.64	1.07	4.19	1.46	.93	2.90	2.57	1.59	3.60	2.242
November ..	1.44	.62	1.21	1.86	1.50	2.56	3.52	2.08	.59	.78	1.616
December ..	1.75	2.69	1.24	1.13	1.96	.31	1.76	2.49	1.42	2.36	1.711
TOTALS ..	19.43	17.53	17.59	31.76	18.38	19.44	22.15	20.18	20.77	22.09	20.032

1900 East Ham Church 1 mile W
 Sewer Bank 20 ft high 300 ft N
 1903 Beckton Station $\frac{3}{4}$ mile S.W

RAINFALL at Woolwich Becking OutfallCounty of LondonObserver W. M. Fitzmaurice Esq CML
London County CouncilRiver Basin Thames - Left Bank Tributary 2

Rain Gauge, by

Diameter ...	8													
Height	0.6						0.9							
Altitude ...	6						9							
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	1916	1917	1918
January ...	1.28	.98	3.15	2.54	.31	3.29	.85	1.08	2.69	2.44	1.861	706	706	706
February ...	2.06	.96	1.27	.69	2.22	2.31	3.11	.66	.85	2.06	1.619	6.68	6.68	6.68
March .....	.89	1.74	1.94	1.97	3.54	.72	3.42	1.66	.98	2.70	1.956	876	876	876
April	1.21	1.45	.00	2.04	1.14	1.10	.96	1.45	2.68	2.62	1.465	771	771	771
May	1.75	.76	.90	1.19	1.46	3.09	1.48	4.00	1.98	.25	1.686	771	771	771
June	1.77	1.60	2.39	.38	1.33	.47	1.63	1.34	.69	1.52	1.312	5.18	5.18	5.18
July	2.68	.28	1.30	1.90	1.27	4.07	1.58	4.07	6.67	1.92	2.574	14.24	14.24	14.24
August	1.97	.84	3.44	1.89	.74	3.15	4.06	4.39	1.00	2.17	2.365	11.62	11.62	11.62
September ..	.77	1.06	2.10	1.42	.61	1.77	1.01	1.63	3.77	.90	1.504	7.31	7.31	7.31
October ...	1.94	2.72	1.62	3.47	1.06	1.60	2.51	2.25	1.31	.90	1.938	6.77	6.77	6.77
November ..	3.00	2.97	1.32	2.34	2.23	2.19	3.77	1.27	1.68	1.31	2.208	8.03	8.03	8.03
December ...	2.57	3.38	2.18	.61	5.09	4.68	2.43	1.16	1.63	2.81	2.654	8.03	8.03	8.03
TOTALS ...	21.87	18.74	21.61	20.44	21.00	28.44	26.81	24.96	25.93	21.60	23.142			

Sewer Bank 20 ft high 300 ft N
 Stone Shed 10 - 32 ft S

99.30

9.15

Date.	Lat. N.	Long. E.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1910	51.30.28	0.5.25	Beckton L. 1/4 m	3/4 mile	SW	East Ham S. 1/2 m	1 mile	N

RAINFALL at Hoolwich Parking OutfallCounty of LondonObserver: Lin M. Fitzmaurice C.M.G.
London County CouncilRiver Basin Thames 2Station No. Rain Gauge, by
South East No. 6000
to mill can.

Diameter ...	8												
Height	0	9											
Altitude ...	9												
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 1930		Kans
18.27 January ...	1.95	1.44	1.94	.76	2.32	1.31	1.90	1.17	2.64	.77	2.07	1.66	
15.79 February ...	.40	.15	1.44	2.19	.69	2.64	2.89	3.06	1.13	.33	0.87	1.44	
11.55 March	1.18	.96	1.00	1.85	.72	.68	.14	2.08	1.42	.04	1.48	1.05	
20.15 April	2.31	1.14	2.26	1.23	2.80	1.11	4.25	1.50	1.04	1.11	1.37	1.83	
17.78 May .....	.47	1.12	.71	1.72	3.24	1.20	1.50	1.38	2.24	1.31	2.86	1.62	
14.86 June	1.31	.45	1.14	.44	2.39	.17	2.99	2.22	2.22	.86	0.67	1.35	
24.43 July	3.06	.08	2.35	2.34	2.60	3.88	2.19	2.32	1.91	1.76	1.94	2.22	
24.64 August	1.72	1.19	1.55	1.72	1.59	3.06	2.70	3.69	2.48	1.68	3.26	2.24	
20.33 September...	3.03	1.59	1.87	1.01	2.86	1.76	1.05	3.96	.80	.87	2.30	1.85	
22.78 October.....	1.00	.65	1.37	4.36	3.05	2.10	2.43	1.10	3.41	2.38	0.93	2.07	
25.23 November...	.66	1.73	1.12	1.49	2.81	1.16	4.39	2.09	1.63	4.40	3.75	2.29	
22.89 December...	1.71	.93	2.29	1.76	2.39	2.48	.58	3.06	2.42	3.78	1.49	2.08	
238.70 TOTALS...	18.80	11.43	19.04	20.87	27.46	21.55	27.01	27.63	23.13	18.79	22.99	21.70	
	D	D	D	D	D	D	D	D	D	D	D	D	

Sever Bank 20 ft high 300 ft N

Stone Shed 10 " " 293 " S

Imperial ft. 5. 81.23.

Gauge was situated on very flat land but only a short distance
but ditch to north. The gauge was on slightly high land and a little overgrown.
a position was chosen for 5 in. gauge (bladed) a short distance away and down
recommended that the two be read for a period together.

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

No. of Map

Reference No.

Date.	Lat. N.	Long. E	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1920	51°30'28"	0°5'25"	East Ham	1 mi	W	Beckton	3/4 mi	S.W.

WOOLWICH
RAINFALL at Barking OutfallCounty of LondonObserver London County CouncilRiver Basin Thames left Bank tribut.Type of Gauge ShowerAnnual Average 20.8 in. based on 40 years obs. ~~un~~-weighted. Period of average 1861-1915 Ref. 8

660627/26

Diameter	6										5	
Height	0.9										1.0	
Altitude	2										25	
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Totals	Means
January	1.16	1.28	1.04	1.15	1.11	2.90	(3.00)	2.09	3.93	2.38	20.04	
February	1.50	0.13	1.37	0.09	1.93	1.38	(3.75)	.48	.80	1.22	12.65	
March	.17	1.40	1.65	1.99	.36	1.04	2.63	.20	1.10	3.14	13.78	
April	3.81	1.97	.63	2.60	2.57	1.21	2.33	.09	2.22	1.45	18.28	
May	2.62	3.33	1.87	0.40	1.43	0.50	3.55	1.44	1.25	1.32	17.71	
June	1.51	.72	1.97	1.36	2.75	3.46	1.95	.32	1.46	.65	16.15	
July	2.59	2.42	2.13	0.90	.47	2.71	1.41	1.22	2.88	4.01	20.74	
August	3.87	2.37	.46	1.76	1.86	0.47	.97	1.47	3.71	.03	16.97	
September	1.50	1.82	2.35	1.42	2.74	2.29	.98	2.57	1.22	1.30	18.19	
October	.63	4.79	1.35	1.09	2.53	1.42	1.91	1.87	5.30	2.24	23.13	
November	2.14	.88	1.03	2.15	3.14	2.98	1.26	2.75	3.16	5.36	24.85	
December	.67	.37	.39	4.08	2.22	1.44	3.11	(2.31)	.92	1.02	16.53	
TOTALS	22.17	21.48	16.24	18.39	23.11	21.80	(26.85)	16.91	27.95	24.12	219.02	KH.
	D.	D.	D.	D.	D.	D.	D.	D.	D.	np		4th

1927 Jan. & Feb. with by gauging Station.
 1938 Dec. partly used for snow.
 1940 np roof gauge.

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
1940			Barking	1 1/2 m	N	Barking	1 1/2 m	N.

Station No. 58 M.T.**RAINFALL** at WOOLWICH Banking Outfall (+A)

41

County of London Observer London County CouncilRiver Basin Thames, Left Bank, Miles 2Type of Gauge LondonAnnual Average 22.8 in. based on 42 years obs. ~~un~~ weighted. Period of average 1881-1915 Ref. 5File No. 46062724

Diameter	8"	5"			5	2 3/4	6 2/6					
Height	9"	1' 2"		0' 10"	10 1/2"		1					
Altitude	9	24'	6		24 1/2'		41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	Totals.
January	2.48	2.25	4.09	1.20	1.40	1.40	1.18	2.77	1.33	.97		17.07
February	1.65	.71	1.42	.63	1.73	2.15	1.48	1.32	.84	2.63		14.56
March	2.63	2.00	.31	.06	1.00	.89	(4.82)	.64	.68	.79		13.82
April	1.88	.70	1.21	1.21	.79	1.42	(1.40)	1.09	1.32	1.86		12.88
May	1.57	2.41	1.92	.75	2.23	3.31	.98	1.84	1.64	1.20		17.83
June	1.41	.13	1.35	1.66	1.29	2.00	2.28	5.03	.58	1.17		16.90
July	2.30	1.52	2.00	.89	3.33	2.09	2.32	.89	2.50	2.67		20.51
August	3.84	2.19	1.24	2.69	1.38	3.57	.13	3.86	1.74	1.06		21.70
September	.62	1.41	1.53	2.86	1.10	2.39	1.12	.76	1.14	2.16		15.09
October	.21	3.25	2.42	2.87	1.21	.84	.17	1.85	4.90	.24		17.96
November	2.16	1.68	1.18	3.25	.15	3.39	.83	1.72	1.81	4.41		20.52
December	1.63	2.21	1.49	1.32	2.44	2.14	2.25	2.07	1.27	1.25		18.07
TOTALS	22.38	20.46	20.16	19.39	18.05	25.59	(18.96)	23.84	19.75	20.41		202.97

8741. Instrument of diameter height next to gauge - no roof gauge
 + being to certain some the gauge was placed 25 ft. above ground & 50 ft. above in S.W. The gauge will hang from
 at ground level - letter p 2.11.42
 1947. March & April est. by ref to same show

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			Barking	1 1/2	N	Barking	1 1/2	N

BRITISH RAINFALL ORGANIZATION

was 246001 - now 239626

Station No. 58 M.T.

RAINFALL at WOOLWICH Barking Outfall (W.A.)

51

County of London Observer London County Council.

River Basin Lower Left Bank Trib 2.

Type of Gauge Standard

Annual Average 20.8 in. based on 40 years obs. un-weighted. Period of average 1881-1915 Ref. S
21.89 " " 35 " 1916-1950 File No. 60497126 E 2455/58

Diameter in.	5"			239	626						
Height ft. in.	10"				1		8				
Altitude ft.	24'				51						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	1.93	1.47	.78	1.02	2.14	2.90	1.14	1.44	1.55	1.26	15.63
February ...	5.94	.80	1.55	1.90	1.17	.15	2.53	1.81	.04	1.55	17.44
March ...	2.48	2.09	.42	1.37	.96	.83	.70	0.74	1.12	1.14	11.85
April ...	2.89	.67	1.98	0.21	.26	.80	.13	1.58	1.60	0.39	10.51
May ...	1.69	.98	.95	1.72	3.98	.62	.81	1.71	.98	1.95	15.39
June ...	.95	1.18	1.22	2.71	2.07	2.83	.68	4.37	.34	1.54	17.89
July ...	1.49	.56	3.46	2.29	.08	3.02	4.30	1.43	.93	2.08	19.64
August ...	3.49	2.40	1.44	3.03	.82	3.30	2.48	3.68	1.38	2.71	24.73
September ...	2.49	2.30	2.03	1.55	2.34	1.89	1.95	4.21	.10	4.14	23.00
October ...	.79	2.07	3.22	1.44	3.49	.91	1.69	2.28	1.84	5.39	23.12
November ...	3.73	3.07	1.44	2.04	.35	.57	2.29	1.69	2.51	3.22	21.91
December ...	1.80	1.65	.60	1.34	1.43	2.43	1.45	2.46	2.85	1.93	17.94
TOTALS ...	29.67	19.24	19.09	21.62	19.09	20.25	20.15	27.40	15.24	27.30	219.05
	D	D	D	D	D	D	D	D	D	D	

W.P. JAN 1954 E.B.O.K. See orig

Moved at sometime after this inspection to TQ 452822 2001 3.
5/7/69

Position of Station on Ordnance One-Inch map : No. of Map 161 National Grid Reference TQ 452822

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.
1941			Barking	1 1/2 m N.	Barking	1 1/2 m N.

Summary of Earlier Records from 10-year Sheets :

1916-1950, P-accepted

	1910-19	1920-30	1931-40	1941-50	1951-60
Record D, or d	Jan 1893. ✓	✓	✓ NP 40 ✓ bud 27	✓ NP 11 ✓ bud 42, 47	