

RAINFALL AT Chelsea Pumping Station

Lat.

Lon.

County of Middlesex

Rain Gauge, by

Observer A. R. Bunn Esq C.E.

LONDON

2 - Thames - Left Bank Liver.

Diameter	8'										
Height	1.0										
Altitude	19 ft										
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	1.35	.52	1.42	2.81	1.64	.64	1.84	.70	2.51		
February01	1.42	2.67	1.67	.13	.28	2.29	1.14	1.94		
March	1.52	.97	.39	.91	1.11	2.88	3.45	1.18	.41		
April82	1.02	.06	1.46	1.52	.51	1.95	.84	2.50		
May	2.60	1.61	.53	1.42	.55	.14	1.16	2.32	1.46		
June	1.31	2.37	.73	1.93	.26	1.65	1.69	.98	.66		
July	3.59	1.42	2.09	2.66	3.83	1.37	.70	.85	1.52		
August	4.18	3.26	1.84	3.07	2.60	1.63	2.74	.85	.42		
September	1.08	2.39	1.02	1.07	1.47	5.83	2.79	.29	3.02		
October	4.60	3.79	4.07	4.19	3.12	2.76	.53	2.87	2.06		
November	2.13	2.46	2.03	2.73	2.92	1.17	.97	2.16	4.10		
December	3.06	1.32	1.98	2.01	2.18	3.34	2.04	2.34	1.16		
TOTALS	26.28	22.55	18.83	25.93	21.33	22.20	22.15	16.52	21.76		

1891 St Georges Ch St Georges Square 58 mile E
 Shaft 132 ft high 140 ft S.W.

(Federated)
RAINFALL AT Chelsea Pumping Station ~~London~~
London, N.W. of the Thames, 1903

Lat. Lon. County of Middlesex

Rain Gauge, by

Observer Sir A.R. Binnie C.B.

Thames - 2.

Maurice Fitzmaurice C.E.

Diameter ..	8										
Height	10										
Altitude ..	19 ft										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	
										MEANS.	
January ..	2.64	.68	.60	2.20	2.16	1.19	3.43	.71	1.65	.72	1.598
February ..	3.93	.84	.91	.81	2.35	.64	1.60	1.13	1.53	.47	1.451
March ..	.86	2.04	1.44	2.11	1.67	3.55	1.02	.97	2.38	2.79	1.888
April ..	.85	1.75	.43	1.98	1.13	1.56	.65	3.18	2.31	1.84	1.568
May ..	.92	.54	2.63	3.41	2.04	.80	1.16	1.79	1.78	1.49	1.656
June ..	2.37	1.77	3.28	5.76	.78	4.79	2.73	2.49	1.55	2.96	2.848
July ..	1.00	3.79	1.28	4.44	1.80	.75	.70	1.09	3.17	3.43	2.145
August ..	1.96	1.82	2.96	4.77	1.46	3.14	.94	1.80	2.57	1.41	2.473
September ..	.89	1.62	1.12	2.42	1.02	1.61	1.53	.61	1.24	2.08	1.414
October ..	1.56	2.28	1.45	5.42	1.52	1.11	3.10	2.70	2.15	3.74	2.506
November ..	1.71	.61	1.76	1.91	1.73	3.18	3.74	1.99	.58	.65	1.786
December ..	2.42	2.96	1.50	1.30	2.02	.73	2.00	3.10	1.93	2.22	2.018
TOTALS ..	21.11	20.70	19.36	36.53	19.68	23.05	22.60	21.59	22.84	23.80	23.126

D D S D D S

1902 St Georges Square Ch 5/8 mile E

Shaft 132 ft High 160 ft S.W.

1903 Grosvenor Road Station adjoining E

Westminster, Wc2
RAINFALL at Chelse Pumping Station

County of London

Observation in Fitzroviae & Cmty
London County Council

River Basin Thames - Left Bank Tributary 2

Rain Gauge, by

Diameter ...	8												
Height	1.0												
Altitude ...	19 ft												
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MRENS.	1916-19 SUMS	
January	1.54	1.16	3.57	2.54	.45	3.85	1.21	1.16	2.69	2.49	2.066	7.55	
February ...	2.58	1.35	1.55	.73	2.26	3.13	3.19	.78	.85	2.02	1.844	6.84	
March87	1.45	2.44	2.21	3.74	.57	3.56	1.81	.89	2.97	2.051	9.23	
April	1.52	1.49	.04	2.42	.73	1.18	1.10	1.80	3.21	2.42	1.591	8.53	
May	2.08	1.30	1.15	1.49	1.66	2.45	1.72	2.35	1.72	.20	1.612	5.99	
June	1.97	2.30	3.22	.42	1.73	.72	1.49	1.61	.92	1.40	1.578	5.42	
July	2.71	1.92	1.26	1.53	1.27	3.74	1.15	3.95	6.79	2.55	2.687	14.44	
August	2.54	.59	4.78	1.48	1.57	2.34	4.84	3.68	1.43	1.76	2.501	11.71	
September ..	.51	1.14	1.86	1.66	.67	1.75	1.40	2.22	5.00	.86	1.707	9.48	
October ...	1.76	2.96	1.94	3.08	.93	2.16	3.07	2.89	1.20	.63	2.062	7.79	
November ...	3.63	3.23	1.45	2.09	3.00	2.10	3.93	1.29	1.99	1.13	2.324	9.34	
December ...	3.03	4.39	2.91	.86	5.48	5.42	2.29	.99	1.95	2.98	3.030	8.21	
TOTALS ...	24.14	23.28	26.17	20.51	23.49	29.41	28.95	24.53	28.64	21.41	25.058		

1910
1916
Shaft 132 ft high 140 ft 8.45
ree 19. 20. 5.45

103.53

Date.	Lat. N.	Long. W	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1910	51°29' 9	0°8' 47"	Borough Rd. Stane Sq	Near 1150 yds.	W E NW	St George Sq & Barnet	1/2 mile	NW

Westminster.

RAINFALL at Chelms Western Pumping Station

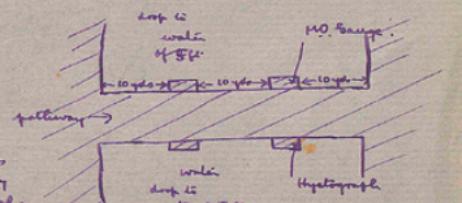
County of London
River Basin Thames 2Observer Sir M. Glynne & Son Ltd.
London County Council8.00 } Stand 190 Rain Gauge, by
8.00 } Hydrograph stand 5ft above pumping.
8.00 } is about 1ft above water level.in ft
Glasses both read to low - 50 standard = .49
.40 = .39

Diameter ...	8												
Height	1.0												
Altitude ...	19												
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	Mean	
21.24	January ...	2.21	1.65	2.14	1.30	2.66	1.54	2.18	1.49	2.89	.77	2.41	1.93
16.14	February46	.19	1.84	2.60	.48	2.63	2.62	3.07	1.81	.43	0.51	1.47
12.47	March	1.20	.99	1.55	2.06	.75	.63	.19	2.32	1.34	.00	1.444	1.13
19.91	April.....	2.36	1.21	2.65	1.33	2.85	1.40	2.81	1.84	1.13	.10	1.23	1.81
18.38	May59	1.21	.97	2.09	2.74	1.41	1.61	1.20	2.21	.16	3.19	1.67
16.20	June	1.43	.22	1.10	.38	2.21	.11	3.14	2.57	2.14	.94	1.96	1.47
26.26	July	3.78	.09	3.56	2.77	2.88	3.45	1.76	2.66	2.11	1.44	1.76	2.39
22.56	August	1.86	.95	1.93	1.23	2.34	2.54	1.64	3.43	2.64	.70	2.30	2.05
21.41	September...	3.31	1.98	1.86	.98	2.30	1.92	1.6	4.09	.64	.16	2.98	1.95
23.88	October.....	.78	.72	.78	5.05	3.97	2.60	2.11	1.23	3.26	2.64	0.94	2.17
27.02	November...	.92	2.03	1.23	1.44	2.26	1.52	4.89	2.37	1.45	4.88	3.73	2.46
24.02	December...	1.71	.96	3.08	1.91	2.86	2.36	.24	3.42	2.18	3.80	1.50	2.18
219.49	TOTALS...	20.61	12.20	22.69	23.14	28.30	21.91	24.35	29.69	23.63	19.02	23.95	22.68

Shaft 132 ft high 140 ft S.W.

Tree 19 " 20 " SW

Inspected 1st, 5.11.23
 The gauge stood on the edge of a pumping
 house foundation - the water being about 5ft below
 the surface. The whole foundation was in eight hollow
 stones which of course were at the
 same level as surrounding ground. While it was
 not considered that the position was in any way
 likely to give apparently low results it was not ideal.
 Another position was chosen on a flat lawn which includes good soil. This is 50 yds from the first
 position and an angle of about 60°. At gauge height it is considered a better position and a good one.



Position of Station on reduced Ordnance Survey Map, 2 miles to 1 inch Series } No. of Map Reference No.

Date.	Lat. N.	Long. W.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1920	51°29'9" N	0°8'4" W	Grosvenor Rd Sloane Sq	near	E	St. Georges Sq	5/8 mi E	

WESTMINSTER

RAINFALL at Western Pumping Station

County of London

Observer London County Council

River Basin Thames Left Bank trib 2

Type of Gauge Glaisher (+A)

Annual Average ~~1955~~ in. based on 47 years obs. un-weighted. Period of average 1881-1955

Ref. 8

660624/26

Diameter	8										Sums Means
Height	10										1.9
Altitude	19										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	
January	1.00	1.32	1.03	1.06	1.1	3.68	2.97	2.33	4.18	1.80	20.28
February	1.40	0.16	1.57	0.22	1.88	1.24	3.93	4.9	1.02	1.24	13.15
March	1.16	1.17	2.09	1.76	1.34	1.06	2.62	1.26	1.18	3.45	14.09
April	3.51	2.35	1.78	1.70	2.62	1.37	2.05	1.06	2.01	1.83	18.28
May	2.61	3.89	1.49	0.41	1.25	0.43	2.40	1.23	1.43	1.00	16.14
June	1.45	0.66	1.75	0.95	3.20	2.52	1.73	1.37	1.36	.36	14.35
July	2.21	2.39	1.33	1.70	1.59	2.57	1.56	1.67	2.05	3.05	17.12
August	3.68	1.66	1.55	1.83	1.86	0.39	1.78	2.51	2.76	.07	16.09
September	2.16	1.95	3.20	1.46	2.52	2.40	1.61	2.32	1.79	1.04	20.45
October	1.68	4.84	1.34	0.83	2.29	1.70	2.07	2.20	5.34	2.18	23.47
November	2.18	1.02	1.73	1.74	3.55	2.86	1.13	3.30	4.44	6.95	27.90
December	1.68	0.42	1.32	4.35	2.31	1.70	3.82	2.60	0.92	1.14	18.26
TOTALS	21.72	21.83	16.18	18.01	23.32	21.92	25.67	19.34	28.48	24.11	219.58

46

DP

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

BRITISH RAINFALL ORGANIZATION, EXHIBITION ROAD, LONDON, S.W.7.

Station No. 33

RAINFALL at WESTMINSTER Western Pumping Station (+A) 41

County of London..... Observer London, County Council.....

River Basin Thames, left Bank, Mile 2.....

Type of Gauge 6 ft. when (+A).....

Snowdon.

Annual Average 12 in. based on years obs. un-weighted. Period of average.....

Ref.....

File No. bbo b27/2b

Diameter	8"		246	277									
Height	1' 9"				1								
Altitude	20'	16.5			41								
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950			Sums Means
January	2.24	2.11	4.74	1.47	1.25	1.32	1.40	2.51	.74	.88	18.66		
February	1.70	.90	1.32	.66	.85	2.15	1.47	1.06	.80	3.00	13.91		
March	3.19	2.20	1.30	.05	.76	1.02	4.54	.52	.91	.57	14.00		
April	1.38	.73	.96	1.03	.93	1.74	1.50	1.03	1.47	2.18	13.01		
May	1.53	2.45	1.98	.79	3.65	3.28	1.05	2.23	1.84	1.48	20.28		
June	1.71	.65	1.54	1.56	1.42	2.49	2.37	1.86	.69	1.53	15.82		
July	4.63	1.34	1.28	1.60	3.00	1.32	2.23	.92	.78	3.32	20.45		
August	5.14	1.90	1.06	2.68	1.10	4.26	.10	2.67	1.21	1.59	21.71		
September	5.0	1.24	1.96	2.72	1.10	3.06	1.20	.98	.38	2.37	15.57		
October	6.3	3.69	2.70	2.61	1.83	1.20	.05	2.16	5.15	.28	20.25		
November	2.20	2.11	1.18	3.51	.12	2.73	.99	1.49	2.16	4.53	21.02		
December	1.59	2.25	1.38	1.07	2.35	1.85	2.07	2.49	1.20	1.46	17.71		
TOTALS	26.50	21.60	20.40	19.81	18.36	26.42	18.97	19.92	17.33	23.08	232.31		

1942. Low Buildings 25' high 50° E. 9 W. & 200° N. 8 S.

100

1943. Stone and office buildings 30 ft. high, 60 ft. W
18 ft high, 40 ft. E

DB

Dwelling house 30 ft high, 300° H. N.
1947. Cottages 30' high 100° N. Stables 30' high 60° E. Office 15' high 60° W. Engine 10.75' high 250° S.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	Parish Church.	Distance from gauge	Direction
1942			Victoria	1/2 m.	N.	Pimlico - St. Barnabas.	3 1/4 m.	N.E.
1949			Victoria	1 m.	N.	Pimlico	1/2 m.	NNW.

BRITISH RAINFALL ORGANIZATION

Station No. 33

RAINFALL at WESTMINSTER (Western Pumping Station) (4A)

51

County of London

Observer London County Council

River Basin Thames Left Bank Trib. 2.

Type of Gauge Standard (4A)

Annual Average R in. based on years obs. un-weighted. Period of average 1916-1950 Ref.

22.43 " 35 " 1916-1950 P

File No. 66089/26 P.22655/58

Diameter ...	8"	246	277								
Height ...	1' 9"		1			*					
Altitude ...	17'		51	16.5"							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	2.53	1.48	.80	.96	(2.56)	3.24	1.35	1.79	2.14	1.44	13.29
February	5.12	1.66	1.10	2.10	(1.35)	.27	2.71	2.08	.05	1.75	17.19
March	2.78	2.29	.49	2.14	.81	.83	.82	.99	1.72	1.59	16.46
April	2.45	1.64	2.31	.24	.27	.90	.15	1.36	2.13	0.85	11.40
May	1.95	1.46	1.23	1.69	4.31	.35	1.13	1.90	.69	1.64	16.35
June	.91	1.84	1.77	3.76	2.11	1.54	1.17	4.80	.82	1.07	19.79
July	1.19	.27	3.93	2.39	1.21	4.27	3.52	1.73	1.07	3.60	22.98
August	2.64	3.11	1.47	4.18	1.11	3.21	1.96	4.15	1.67	3.91	27.41
September	2.97	2.59	1.86	1.52	1.82	1.73	2.19	3.23	.09	4.07	22.07
October	.85	2.06	5.42	2.18	2.57	1.52	2.73	2.45	1.69	5.12	27.09
November	4.52	3.10	.51	2.98	.53	.38	1.92	1.20	2.27	3.27	20.68
December	1.60	2.16	.47	1.61	1.69	1.86	1.95	2.86	2.91	1.94	19.04
TOTALS ...	29.51	22.85	21.36	25.75	20.34	19.85	21.60	28.54	17.25	29.45	236.75
	d	d	d	d	d	d	D	d	d	d	

1951 Cottage 30° 100' N; Old Stone 15° 30' E; Office 15° 60' W; Engine Hse 200° 150' S;

1954 Jan. Feb. est. 1.05 in.

1956 below surface 1/2' below ground.

1950. 3.12.56 P.H.G. Deeks

1958 np low + T.M.E.

Q.P.

Position of Station on Ordnance One-Inch map :			No. of Map	National Grid Reference Topo 1:250,000			
Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge		Parish Church.	Distance Direction from gauge.
1949			Victoria	1 m	N.	Prinlaco	1 m. N.N.W.

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
Jan. 1951. Formerly CHISSEA Pumping Sta.		/	/	/	/ *	