

# RAINFALL AT *West Ham Abbey Mills*

Lat. \_\_\_\_\_

Lon. \_\_\_\_\_

 County of *Essex*

Rain Gauge, by \_\_\_\_\_

 Observer *in AR Binnie Esq C.E.*
*Lea - 1.*

Diameter ....		8									
Height .....		10									
Altitude ....		11 $\text{ft}$									
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January ....		1.50	.46	1.43	2.70	1.26	.61	1.50	.67	2.07	
February ....		.01	1.41	2.72	1.62	.14	.26	2.25	.94	1.74	
March .....		1.54	.99	.41	.98	1.35	2.86	2.91	1.05	.41	
April .....		.60	1.22	.02	1.28	1.24	.48	1.60	1.28	2.43	
May .....		3.57	1.50	.51	1.60	.43	.24	1.67	1.77	1.46	
June .....		1.01	2.32	.66	1.74	.25	2.20	1.47	1.00	1.06	
July .....		4.17	1.37	2.90	3.15	3.15	.91	2.48	.51	1.25	
August .....		4.06	3.42	1.73	2.83	2.59	1.76	2.57	.78	.49	
September....		.83	2.41	.80	.97	1.22	4.24	2.60	.27	1.97	
October .....		3.95	3.88	3.96	3.93	2.67	2.60	.48	2.85	2.07	
November....		1.99	2.23	1.93	2.67	2.44	1.01	1.00	1.72	3.68	
December ....		2.75	1.13	1.72	2.14	2.04	2.91	1.77	2.12	1.21	
TOTALS ....		25.98	22.34	18.79	25.61	18.78	20.08	22.30	14.96	19.84	

1891 West Ham Church 1 Mile E  
 Shaft 200 ft high 100 ft SE

*Annual Average (London Survey) = 22.3.*

# RAINFALL AT *West Ham Abbey Mill*

Lat. ....

Lon. ....

County of *Essex*

Rain Gauge, by .....

Observer

*Sir A. R. Birnie G.E.*

*M. Fitzmaurice Esq C.E. 1888*

*See - 1.*

Diameter ..	8										
Height ....	10										
Altitude ..	<sup>715</sup> 11 $\pi$										
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	2.33	.81	.74	2.14	2.03	1.15	3.87	.86	1.40	.77	1.610
February ..	3.13	.87	1.01	.81	2.19	.68	1.59	1.00	1.31	.53	1.312
March ....	.84	1.62	1.50	2.02	1.43	2.91	.95	.85	1.84	2.67	1.663
April .....	.70	1.74	.33	1.80	.92	1.82	.73	3.13	2.01	1.66	1.484
May .....	1.17	1.82	2.80	1.66	1.90	.63	1.19	1.83	1.51	1.36	1.587
June .....	1.73	1.09	3.38	5.69	.92	3.70	2.89	2.47	2.04	3.86	2.777
July .....	1.59	3.88	1.10	7.33	1.84	.67	.41	1.31	3.15	3.34	2.462
August ....	2.48	1.65	3.20	4.54	1.51	2.40	1.46	1.52	2.91	1.43	2.310
September..	.53	1.37	.83	2.26	1.11	1.64	1.68	.86	1.16	2.06	1.350
October....	1.65	2.88	1.35	5.37	1.53	.85	2.86	2.44	1.66	3.50	2.409
November..	1.60	.58	1.31	1.71	1.53	2.71	3.52	1.96	.73	.73	1.633
December..	2.21	2.71	1.26	1.02	1.79	.58	1.96	2.77	1.58	2.29	1.817
TOTALS ..	19.96	21.02	18.81	36.35	18.70	19.74	23.11	21.00	21.30	24.20	22.410

1900 July Gauge moved

West Ham Church 1 mile E

Trees 20 ft high 60 ft N

Boiler House 30 ft high 15 ft S.E.

1903 Stratford Market Station 1/2 mile N

1904 Shaft 200 ft high 100 ft S.E.

Annual Average (London Survey) = 22.3.



RAINFALL at West Ham Abbey MillsCounty of EssexObserver M Fitzmaurice Esq C.M.B.  
London County CouncilRiver Basin Thames Lea 1

Rain Gauge, by

Diameter ...	8												
Height .....	1	0											
Altitude ...	11	7											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	Total	
January ...	1.40	1.13	3.56	2.46	.36	3.74	1.09	1.14	2.82	2.68		7.73	
February ...	2.32	1.22	1.47	.72	2.11	2.75	3.33	.85	.99	2.24		7.41	
March .....	.80	1.75	2.26	2.11	4.02	.80	3.86	1.73	.84	3.26		9.65	
April .....	1.76	1.56	.04	2.27	.78	1.02	1.25	1.81	2.97	3.18		9.2	
May .....	2.01	.98	1.03	1.37	2.02	3.21	1.59	4.04	2.42	.84		8.5	
June .....	2.01	2.20	3.11	.41	1.84	.82	1.97	2.52	1.00	1.63		7.0	
July .....	3.04	.23	1.15	2.55	1.33	3.73	1.43	3.79	7.14	2.45		14.5	
August .....	2.53	.61	4.55	1.55	1.02	3.31	4.26	3.91	1.74	2.00		11.9	
September ..	.65	1.61	1.97	1.22	.73	1.93	.93	1.67	5.11	.98		8.6	
October ...	1.73	3.23	1.92	3.57	1.01	1.68	2.56	2.69	1.17	.87		7.2	
November ..	3.10	3.40	1.47	2.17	2.75	2.40	4.05	1.48	1.82	1.24		8.5	
December ...	2.73	3.65	2.61	.83	5.47	4.78	2.60	1.02	2.09	3.34		9.0	
TOTALS ...	24.11	21.57	24.94	21.23	23.44	30.17	28.92	26.65	30.11	24.41		100.0	

1910 Shaft 200 ft high 100 ft SE  
 176 Rock 27 ft 50 ft SW  
 High Level 19 ft 66 ft NE

Annual Average (London Survey) = 22.3.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1910	51.31.48	0.0.0	Shatford Market	1/2 mile	N	West Ham	1 mile	E

RAINFALL at *West Ham, Abbey Mills*County of *Essex*Observer *Mr. Fitzmaurice Esq. C. Esq.*  
*London County Council.*River Basin *Thames Lea 1**no* Rain Gauge, by  
*Sound time*  
*but getting old.**glass used*

Diameter ...	8												
Height .....	10												
Altitude ...	15												
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEAN 1930		
January ...	2.42	1.90	2.09	1.91	2.56	1.49	1.95	1.18	23.00	1.04	2.31	20.58	1.60
February ...	.61	.19	1.89	2.55	.64	2.16	2.81	3.02	1.22	.43	.90	16.42	
March .....	1.37	1.16	1.35	2.10	.60	.58	.22	1.95	1.42	.04	1.45	12.44	
April .....	3.14	1.27	2.61	1.30	2.86	1.48	3.70	1.60	1.08	1.10	1.41	21.55	
May .....	.43	1.22	.49	1.50	2.88	1.19	1.42	1.53	2.05	1.80	2.87	17.38	
June .....	1.28	.41	1.14	.39	2.38	.08	2.99	2.40	2.09	1.04	2.94	17.04	
July .....	3.20	.08	3.48	2.62	2.96	4.29	2.07	2.34	1.93	1.97	1.28	26.02	
August .....	2.03	1.20	2.00	2.04	1.98	2.88	2.16	4.36	2.13	1.89	3.63	25.30	
September...	3.16	1.99	1.73	1.05	2.52	1.86	1.09	4.25	1.66	.51	2.48	21.50	
October .....	1.04	.72	1.08	4.72	3.20	2.30	2.20	1.06	3.11	2.63	1.00	23.06	
November...	.86	1.84	1.30	1.50	2.40	1.21	4.36	2.19	1.83	4.64	3.82	25.95	
December...	2.05	1.09	2.60	1.85	2.79	2.65	.57	3.13	2.47	3.65	1.72	21.50	
TOTALS...	51.66	13.07	21.76	22.53	27.77	22.17	25.54	29.01	22.99	20.74	25.81	253.05	21.00
	D	D	D	D	D	D	D	D	D	D	D	D	D

*Inspected by S. H. 23 gauge on large platform furnished for coal for station. Excellent position. The glass was enclosed in a wooden frame to prevent frost damage, the idea being good.*

*Annual Average (London Survey) = 22.8*

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	Parish Church.	Distance from gauge	Direction
	51. 21. 48	0. 0. 0	<i>Stratford Market</i> <i>7.2K</i>	<i>1 mi</i>	<i>N</i>	<i>West Ham</i>	<i>1 mi</i>	<i>E</i>



## RAINFALL at West Ham (Abbey Mills)

County of EssexObserver London County CouncilRiver Basin Thames - Lea - 1Type of Gauge GlaisherAnnual Average 22.3 in. based on 41 years obs. un-weighted. Period of average 1881-1925 Ref. S

66627/26

Diameter	8.											
Height	0.10.											
Altitude	15.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Totals	Means
January	1.12	1.46	.93	1.09	1.24	3.31	3.03	2.51	4.17	2.19	2105	
February	1.69	1.19	1.31	.15	1.96	1.32	4.04	.55	.92	1.28	1341	
March	.26	1.27	2.04	1.92	.36	1.20	2.79	.32	1.16	3.66	1498	
April	3.08	2.28	.65	1.95	2.68	1.30	2.45	.12	2.17	1.57	1823	
May	2.50	3.45	1.75	.74	1.32	.47	3.64	1.37	1.86	1.29	1814	
June	1.23	.47	2.17	1.61	2.94	2.83	1.66	.36	.89	.35	1451	
July	2.63	2.16	1.07	0.78	.60	2.53	1.42	1.36	2.52	3.35	1842	
August	4.47	3.07	.47	1.68	1.77	.36	1.14	1.30	4.11	.04	1847	
September	1.71	2.01	2.70	1.43	2.47	2.26	1.32	3.23	1.41	1.01	1955	
October	.68	5.28	1.52	1.04	2.61	1.52	2.18	2.54	5.86	2.02	2525	
November	2.02	1.05	.86	1.77	3.32	3.24	1.40	3.11	4.72	6.16	2765	
December	.68	.39	.36	4.25	2.18	1.80	3.50	2.66	1.05	1.05	1792	
TOTALS	22.07	23.08	15.83	18.11	23.45	22.14	28.60	19.43	30.84	23.97	22752	167
1940 Electric pump house 30' high 20 yds S.W. Gasometer 100 yds N.												

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, EXHIBITION ROAD, LONDON, S.W.7.

Station No. 1225

RAINFALL at West Ham (Abbey Mills)

41

County of Essex

Observer London County Council

River Basin Thames Lea - 1

Type of Gauge Glaisher

Annual Average 22.3 in. based on 41 years obs. un-weighted. Period of average 1881-1915 Ref S

File No. 660.627/26

Diameter	8"		245	430								
Height	0'10"			1	0	8						
Altitude	15'			41								
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	
January	2.39	3.07	5.13	1.63	1.98	1.43	1.87	3.05	.72	1.00		Total 22.27
February	2.01	1.15	1.63	.83	1.31	2.55	1.60	1.63	.84	3.15		16.70
March	3.13	1.98	.35	.09	.97	1.05	5.23	.67	.81	.65		14.93
April	1.79	.80	1.16	1.16	.95	1.48	1.78	1.35	1.57	2.49		14.53
May	1.90	2.83	1.74	1.16	2.63	3.26	1.07	2.84	1.73	1.42		20.58
June	1.79	.24	2.14	2.01	1.71	2.69	3.10	4.33	.53	1.38		19.72
July	2.90	1.82	1.93	1.18	3.02	2.32	2.14	1.04	1.96	3.30		21.61
August	4.86	2.01	1.36	2.65	1.45	3.96	.14	3.61	1.42	1.49		22.95
September	.69	1.33	1.92	2.85	1.34	2.85	1.52	1.15	.87	2.09		16.61
October	.75	4.73	2.40	3.09	1.82	.88	.09	1.97	5.49	.46		21.68
November	2.81	2.41	1.24	3.30	.27	3.27	.96	1.85	2.25	4.99		23.35
December	2.47	2.78	1.42	1.03	2.75	1.97	2.48	2.33	1.35	1.48		22.06
TOTALS	27.49	25.15	22.42	20.98	20.20	27.71	21.98	25.82	19.54	23.90		235.17

1941 Electric Pump House 30' high 20 yds. S.W.

Gaugometer 100 yds. N.

1945 Electric Pump House 30' high 25 yds. S.W. Gaugometer 75 yds. N.

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			West Ham	1/2 ml.	S.E.	West Ham	1 ml.	N.W.



Station No. 1225

RAINFALL at West Ham (Abbey Mills)

51

County of Essex

Observer London County Council

River Basin Thames - Lea - 1

Type of Gauge Glaisher

Annual Average 22.3 in. based on 41 years obs. unweighted. Period of average 1881-1915 Ref. S  
" " 24.23 " " 12 " " 1946-57 " " 1916-52 Ref. S  
File No. EA 27/26 1946/59

Diameter	8"			245	430							
Height	0' 8"				1							
Altitude	15'				51							
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	
January	2.53	1.79	1.16	1.12	2.90	3.58	1.33	2.04	1.61	1.42		19.58
February	5.62	.89	1.46	2.09	1.61	.25	2.81	2.36	.06	1.79		18.94
March	2.90	3.01	.56	2.52	1.13	.94	1.06	.84	1.36	1.54		15.86
April	2.76	.91	2.50	.20	.23	1.22	.14	1.78	1.93	.45		10.12
May	1.77	.93	1.26	1.98	4.42	.53	1.05	2.17	1.01	2.35		17.41
June	1.15	2.01	1.34	2.50	2.46	2.58	.81	4.95	.69	1.39		19.88
July	1.43	.62	3.20	3.13	1.25	3.52	3.57	2.41	1.37	<del>2.23</del> 2.23		22.58
August	3.42	3.52	1.87	3.93	1.01	3.80	1.53	3.27	2.32	3.20		27.91
September	3.26	2.36	1.91	1.89	2.46	2.47	2.15	3.62	.11	<del>4.91</del> 4.91		25.04
October	.85	2.26	3.44	1.80	3.21	1.59	1.78	2.25	1.90	5.17		24.25
November	4.57	3.97	.88	2.73	.47	.50	2.15	1.90	2.73	3.40		23.30
December	1.79	2.08	.59	1.42	1.44	2.69	1.70	3.09	3.11	2.49		20.90
TOTALS	32.05	24.39	20.17	25.31	22.59	23.67	20.08	30.68	18.20	30.34		247.45
	D	D	D	D	D	D	D	D	D	D		

1951 Elect. P. House 30.25 yd SW; Gasometer 75' N.

Position of Station on Ordnance One-Inch map:

No. of Map.....

National Grid Reference TQ(31) 387832

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge.	Direction from gauge.
1951			West Ham	1/2 mi	SE	West Ham	1 mi	NW

Summary of Earlier Records from 10-year Sheets:

1916-1950, P - Rejected

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	✓	✓	✓	
Sub-12	✓	✓	✓	✓	