

Kew

Observatory

10 in sq. + Ground 0-0
Survey of Thames - Male.

+ Sea Level 18 ft.

YEAR - -	1850	1851	1852	1853	1854	1855	1856	1857	1858	1859	MEANS.
January - -						1.50	2.58	.96	.69		
February - -						1.06	.42	1.80	1.34		
March - - -						.95	1.22	1.39	1.47		
April - - -						2.22	2.09	2.37	2.57		
May - - -						4.19	.66	2.17	1.85		
June - - -						.89	.75	1.15	3.19		
July - - -						1.18	1.25	.85	2.35		
August - -						3.15	2.78	1.47	1.98		
September -						1.92	3.79	.52	4.39		
October - -						2.56	4.46	1.84	2.53		
November -						1.05	1.47	.38	2.60		
December -						1.95	.34	1.73	1.77		
TOTALS -						(73.62)	21.81	16.63	26.73		

* 1858 August 18th to 31st only
 " Sept. 1st to 14th only

New Observatory

B Stewart Esq^r

1 ft 3 in 6 3 4 5

20 66

19 63 45

10 in sq^t + ground to 2
5/4 times - mole.

10 ft + 5 l

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	2.36	.46	1.64	2.49	.96	3.10	3.43	2.21	3.35	2.30	2.230
February - -	1.03	1.57	.41	.51	.73	1.95	3.39	1.25	1.08	1.94	1.380
March - - -	1.66	2.30	4.47	.68	2.63	.81	1.23	1.98	.95	1.06	1.777
April - - -	1.40	1.08	2.58	30	.86	.45	1.72	1.69	1.48	1.26	1.282
May - - - -	2.56	1.06	3.77	1.39	1.59	3.27	1.32	1.22	.77	3.06	2.001
June - - -	5.35	2.29	2.37	4.17	2.06	1.58	4.02	1.36	.43	1.04	2.467
July - - - -	2.82	2.10	2.05	.76	.67	1.82	1.20	3.61	1.62	.88	1.753
August - - -	4.89	.59	2.69	1.75	1.25	4.34	2.31	2.06	2.52	1.17	2.357
September -	2.02	1.83	2.60	2.82	2.50	.47	3.59	2.26	2.24	3.75	2.408
October - -	1.22	.75	3.22	2.04	1.28	6.15	1.63	1.62	2.27	1.44	2.162
November -	1.96	3.96	.91	1.92	1.93	1.86	1.27	.78	.92	2.27	1.778
December -	1.45	.93	1.58	1.17	.49	.65	1.70	1.29	5.20	2.46	1.687
TOTALS -	28.72	18.86	28.29	19.95	16.95	26.45	26.81	24.33	22.83	22.63	23.282

* Out of order 3 days.

RAINFALL AT New Observatory

Lat..... Lon..... County of... Surrey

Rain Gauge, by..... Observer J. B. Stewart

of Thames. Mole.

Diameter	□	10	11									
Height	1.3					1.9						
Altitude	19.											
YEAR	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....	1.23	1.76	3.43	2.15	.98	3.00	.82	4.89	1.19	2.71	2.216	
February.....	1.27	.99	.81	1.57	1.16	.93	2.01	1.73	1.23	4.12	1.582	
March.....	1.78	.98	1.74	1.37	.44	.62	2.51	2.20	1.03	.95	1.362	
April.....	.40	2.69	1.43	.41	1.26	1.70	2.08	2.70	3.99	3.05	1.971	
May .....	.82	.79	2.95	1.32	.60	1.39	.76	1.90	4.01	3.94	1.848	
June.....	.56	2.98	1.48	2.79	2.52	2.63	1.47	1.53	2.74	4.18	2.288	
July .....	.65	3.23	1.81	1.98	1.16	4.77 ¹²¹	.91	3.12	2.35	4.11	2.409	
August.....	2.02	.95	1.45	1.84	1.29	.65	1.93	2.82	6.50	4.92	2.437	
September.....	1.37 ^{4.60}	4.42 ^{11.58}	1.29 ^{6.09}	2.11 ^{8.72}	2.93 ^{7.50}	2.02 ^{10.67}	2.61 ^{6.92}	.69 ^{8.16}	.97 ^{12.56}	2.86 ^{16.07}	2.127	
October.....	2.57	1.02	4.31	2.91	3.55	3.81	1.31	1.99	2.11	.70	2.428	
November.....	1.36	.51	2.96	1.96	2.31	2.94	2.72	3.49	2.51	.77	2.153	
December.....	2.61	1.12	3.73	.40	1.42	.93	5.84	1.30	1.32	.77	1.944	
TOTALS	16.64	21.44	27.39	20.81	19.62	25.39	24.97	28.36	29.95	33.08	24.765	

C C C

24.765
1.664
23.101 +
2.973
25.974

RAINFALL AT *New Observatory* 162 80

Lat. _____

Lon. _____

County of _____

Rain Gauge, by _____

Observer _____

Surrey
The New Committee

5/ change - made.

Diameter	11										
Height	1.9										
Altitude	197										
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January	4.4	1.17	1.28	2.22	2.30	1.54	3.51	1.47	.87	.91	1.571
February	2.22	2.55	1.52	3.40	1.40	2.86	.67	.57	.90	2.07	1.816
March .....	.73	1.98	1.03	.95	1.24	1.47	1.35	1.70	3.05	1.36	1.486
April	1.95	.76	2.66	1.60	1.25	1.78	1.50	1.31	2.22	2.24	1.727
May .....	.28	1.12	1.24	1.82	.64	2.90	1.10	1.68	1.13	3.04	1.795
June	2.22	1.62	2.04	1.17	2.20	1.83	.84	1.13	2.35	1.28	1.668
July	4.88	1.91	2.20	2.03	2.24	.48	2.38	.82	4.61	3.05	2.460
August .....	.56	4.77	1.14	.93	.96	1.08	.68	2.68	2.81	2.17	1.778
September	4.42	2.22	2.36	3.27	1.69	4.33	1.79	2.17	1.43	1.57	2.525
October	12.08 0.95	10.52 2.39	2.74 5.78	7.46 1.75	7.99 1.11	7.72 3.86	5.69 2.31	6.39 1.46	11.20 1.33	8.07 3.99	2.993
November	1.78	2.50	2.34	2.54	1.77	2.97	2.84	3.05	3.89	.72	2.440
December	3.30	2.50	2.07	.68	2.14	1.17	3.47	1.36	1.39	1.20	1.928
TOTALS	28.73	25.49	25.66	22.36	18.94	26.27	25.44	19.40	25.98	23.60	24.187

1880. All Saints, Isleworth, 1600 ft distant. N.W.

Fruit trees 16 ft high 30 ft E & W

Annual average ~~reported from~~ (London Survey) = 23.8. BqN.

34.187 -
2.873

21.314 +
2.122

23.436

RAINFALL AT

Kew Observatory **80**

Lat. _____ Lon. _____ County of _____

Rain Gauge, by _____ Observer _____

5/Chambers-mole.

Diameter . . .											
Height											
Altitude											
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January			1.23	2.24							
February			1.48	3.46							
March			1.03	.96							
April			2.62	1.57							
May			1.21	1.78							
June			1.99	1.12							
July			2.02	2.01							
August			1.10	.91							
September . . .			2.33	3.21							
October			5.73	1.71							
November . . .			2.31	2.59							
December . . .			2.14	.64							
TOTALS			25.19	22.20							

RAINFALL AT

New Observatory

162
287049

Lat. _____

Lon. _____

County of _____

Rain Gauge, by _____

Observer _____

St. James, Moles.

Diameter	11											
Height	1.9											
Altitude	19											
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January	2.17	1.61	.44	1.43	2.90	1.44	.60	1.93	.91	2.39	1.582	
February ....	.90	.09	1.40	2.66	1.56	.09	.28	2.19	1.28	2.02	1.217	
March	1.53	1.32	1.04	.23	1.22	1.23	2.87	3.61	1.17	.56	1.478	
April	1.74	.99	1.08	.10	1.46	1.63	.59	1.31	1.03	2.37	1.230	
May	1.41	2.52	1.47	1.40	1.57	.44	.17	1.14	2.46	1.47	1.405	
June	3.39	1.75	2.79	.86	2.20	.23	1.64	2.53	1.37	1.61	1.837	
July	4.46	2.74	2.07	1.81	4.37	4.52	1.28	.94	.67	.61	2.316	
August	1.95	4.05	3.28	1.71	2.52	2.88	1.88	2.62	1.11	.44	2.214	
September....	.59	1.04	3.18	.39	1.37	1.53	5.06	1.95	.42	2.17	1.830	
October	1.38	9.58	11.32	5.37	10.46	9.16	9.86	2.04	3.57	6.43		
	1.02	5.89	2.63	4.12	3.88	3.00	2.38	.58	3.35	1.97	2.882	
November....	1.53	1.93	3.71	1.97	2.98	3.41	1.09	.90	2.05	3.98	2.353	
December ....	.54	2.92	1.18	2.22	1.99	1.96	3.14	2.14	2.40	1.26	1.975	
TOTALS . . .	21.22	26.85	24.27	19.50	28.02	22.36	20.98	21.84	18.22	20.85	22.411	

Annual average (London Survey) = 23.8 BafN.

22.411 -

2.122

20.289

2.127

22.416

RAINFALL AT Richmond New Observatory

Lat. Lon. County of Surrey East
Bedley St. Rain Gauge, by Observer D. C. Chree F.R.S.
5/Thames. mole.

Diameter ..	11										
Height	1.9										
Altitude ..	198										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	2.92	.85	.72	2.26	2.37	1.08	3.37	.67	1.84	.79	1.627
February ..	3.18	1.06	.85	.93	2.25	.68	1.71	1.15	1.19	.34	1.334
March ....	.93	1.86	1.75	2.35	1.31	3.18	1.05	.89	2.40	2.68	1.840
April .....	.93	2.12	.56	1.82	.91	1.55	.45	3.16	2.32	1.81	1.863
May	1.06	.45	2.40	3.28	2.89	.73	1.81	1.68	1.36	1.55	1.721
June	2.02	1.36	3.71	7.21	.57	4.99	2.83	2.81	1.93	3.42	3.115
July	1.36	2.02	1.13	4.27	2.03	.77	1.01	1.80	2.44	2.69	1.952
August	2.92	1.88	3.47	3.93	1.93	2.82	.77	1.79	2.46	1.32	2.329
September ..	.67	1.53	2.50	3.24	1.47	1.75	1.75	.53	1.40	2.58	1.742
October	6.97	6.79	6.81	18.65	6.30	10.33	6.736	6.93	8.23	10.01	2.591
November ..	1.66	1.88	1.39	5.55	1.55	1.32	3.19	3.67	2.17	3.53	2.591
December ..	1.68	.47	1.68	1.72	1.76	3.00	3.89	2.08	.68	.72	1.758
TOTALS ..	2.54	3.26	1.37	1.62	1.86	.74	1.85	3.62	2.08	2.32	2.126
TOTALS ..	21.87	18.74	21.43	38.18	21.20	22.61	23.68	23.85	22.27	23.75	23.758

1907 Richmond Church
 1909 Isleworth Church 500 yards N.W.
 Richmond Station 3/4 mile E.S.E.
 Low pencil ledge 4' 6" high on E. & W. sides of garden

Annual average (B. of N.) = 23.8

+ Inspected

RAINFALL at

New Observatory

Check Gauge

County of

Surrey

Observer

Meteorological Office

River Basin

Thames-Mole &c 5

Rain Gauge, by

Diameter ...											
Height											
Altitude ...											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...						4.01	1.15	1.12	2.92	3.53	
February ...						3.15	3.09	.79	.85	2.21	
March .....						.77	3.85	1.75	.88	3.06	
April						1.20	1.00	2.13	3.10	2.34	
May						3.08	1.61	2.04	1.78	.36	
June .....						.57	2.04	3.71	1.15	1.18	
July						4.07	1.35	4.71	4.66	2.65	
August						3.21	3.92	4.12	1.42	2.16	
September ..						2.28	1.46	2.03	5.70	1.45	
October ...						10.13 2.21	8.77 3.67	14.57 3.39	12.93 1.18	7.44 .57	
November ..						1.97	3.91	1.32	2.16	1.05	
December...						5.18	2.18	1.18	2.10	3.75	
TOTALS ...						31.70	29.23	28.29	27.90	24.31	

Sums

16.19

8.72

6.94

9.54

8.59

57.9

8.08

13.37

11.62

10.64

8.81

8.44

9.21

109.73

109.73 ✓

Annual average (London Survey) = 23.5

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1919	51° 25'	0° 19' W						

River Basin Thames. Mole 5-

In B.R 1928 onwards data are for period of 24 hrs 7h-7h.
instead of period 0h-24h as previously used and still used
in M.W.R. see SMC 15A 4836512/88

1930. G. read from 0700 hrs - 0700 hrs

C1383) Wt. 1671-0044. 10,000. 4/21. J.T. & S., Ltd. 160

RAINFALL 1931-1970

Station Kew Observatory No. 162.
 County Surrey (Old No. _____)
 Authority _____ Grid Ref. _____
 _____ Altitude _____ ft.
 _____ River Basin _____
 File _____ TF _____ / MWR / m / a Tributary _____

	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January ...	1.07	1.61	1.34	1.20	.87	3.84	3.71	2.24	4.17	2.48	
February ...	1.58	.17	2.65	.21	2.31	1.64	4.04	.33	.80	1.58	
March ...	.20	1.29	2.17	2.12	.35	.98	2.75	.23	1.00	3.39	
April ...	3.66	2.23	.66	1.46	2.76	1.57	1.98	.10	2.32	1.61	
May ...	2.48	4.03	1.83	.44	1.33	.51	2.15	1.30	1.28	1.21	
June ...	1.65	.85	1.93	1.00	3.37	3.53	1.81	.35	1.15	1.20	
July ...	2.91	1.86	1.74	3.19	1.63	2.35	.95	1.02	1.79	2.69	
August ...	4.85	1.17	.50	1.77	1.99	.48	2.98	2.70	3.43	.09	
September ...	2.09	2.32	2.72	1.26	2.55	2.81	2.04	1.94	.91	1.37	
October ...	.65	5.00	1.44	.87	2.09	1.79	2.37	2.13	4.93	2.41	
November ...	2.14	1.07	.94	1.76	4.25	2.79	1.39	2.57	4.41	6.76	
December ...	.54	.41	.32	4.44	2.20	1.44	3.43	3.39	.84	1.12	
TOTAL ...	23.82	22.01	18.24	19.72	25.70	23.73	29.60	18.30	27.03	25.91	
Percentage ...											

AVERAGE ANNUAL RAINFALL

Actual

Estimated from data for:-

1881-1915 _____ in. _____
 1916-1950 _____ in. _____
 _____ in. _____

Type and capacity of gauge _____

*NOTES on unorthodox equipment or exposure, inspections, changes of equipment, site or altitude:-

Earliest year with complete data (D : W : M) _____

*NOTES on years with incomplete or unsatisfactory data:-

RAINFALL at Kew Observatory M.M.F. 22

41

County of GloucesterObserver Meteorological OfficeRiver Basin Thames-Mole &c.Type of Gauge (A.G.)Annual Average 23.9 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. B. of N.

File No.

Diameter	8"			287	0.49				8"		
Height	1' 0"				3				1' 0"		
Altitude	18'				41				18'		
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.52	2.27	4.73	1.56	1.68	1.42	1.35	3.43	.89	.87	20.72
February	1.87	.80	1.38	.67	1.36	2.18	1.19	1.43	.89	3.16	14.93
March	3.29	1.66	.34	.09	.81	1.17	4.66	.58	.91	.65	14.16
April	1.68	.81	.73	1.31	1.12	1.91	1.71	1.24	1.46	2.44	14.41
May	1.83	3.00	1.91	.69	2.47	3.52	1.33	2.23	2.36	1.72	21.06
June	1.93	1.42	1.26	1.67	1.40	2.72	3.19	1.67	.44	1.85	17.87
July	4.06	1.74	1.67	1.50	2.69	3.11	1.39	1.17	1.12	3.16	21.61
August	5.90	2.21	1.17	1.97	1.26	3.74	.40	2.87	1.51	2.33	23.36
September	.35	1.04	2.25	2.26	1.68	3.46	1.17	1.24	.33	2.66	16.44
October	.76	3.43	2.54	2.69	2.08	1.39	.15	1.87	5.25	.36	20.52
November	2.53	1.98	1.29	3.42	.29	3.99	1.07	1.57	2.17	4.36	22.67
December	1.56	2.24	1.39	1.19	2.69	1.94	2.28	2.34	1.47	1.50	18.60
TOTALS	28.28	22.80	20.66	19.02	19.83	30.55	19.89	21.66	18.80	25.06	226.35

+ confirmed by a telephone call 20/1/50. 22.

Note. The readings used for B.R. are those from 9h-9h. Those used for M.O. are 0-24h. The details for gauge given above are correct indications from Kew on 109' hence after this no report is required.

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. 168RAINFALL at KEW OBSERVATORY

M. W. R. (174)

51

County of SURREYObserver METEOROLOGICAL OFFICERiver Basin 5 THAMES MOLE &cType of Gauge (4A)Annual Average 23.8 in. based on 35 years obs. un-weighted. Period of average 1891-1915 Ref. B. OF N.23.95 " " 35 " " 1916-19501916-1950
File No. C. 15900/63 P

Diameter ...	8"										
Height ...	0' 10"										
Altitude ...	18'										
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	2.88	1.82	.94	.92	1.92	3.61	1.52	1.91	2.13	1.70	19.25
February ...	4.99	.78	1.15	1.97	1.16	.21	2.91	2.32	.09	1.67	17.25
March ...	2.87	2.73	.43	1.95	.91	.77	1.02	1.12	1.56	1.59	14.95
April ...	2.33	1.28	2.41	.34	.32	.95	.34	1.16	2.04	0.52	11.69
May ...	1.99	2.30	1.37	1.78	3.72	.22	1.05	2.35	.53	1.65	16.96
June ...	.94	1.69	1.97	4.03	2.18	1.86	.99	4.08	.60	1.21	19.55
July ...	1.00	.54	3.48	2.31	.40	5.92	3.26	2.62	1.57	3.37	24.47
August ...	3.35	3.50	1.73	3.14	.71	3.68	3.92	3.27	H3	1.82	26.25
September ...	2.11	2.89	2.00	1.61	1.77	2.15	2.41	3.97	.10	3.41	22.42
October ...	.83	2.68	2.69	1.88	2.37	1.97	1.84	2.02	1.87	5.41	23.56
November ...	5.30	3.19	1.08	3.52	.91	.42	2.29	1.89	2.57	3.58	24.55
December ...	1.46	2.26	.50	1.96	1.85	2.55	1.73	2.97	3.13	1.98	20.49
TOTALS ...	30.05	25.76	19.65	25.41	18.22	24.31	23.28	29.68	17.12	27.91	241.39
	D	D	D	D	D	D	D	D	D	D	

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference (5) 71757

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
C. 400. 1950	c 1915	✓	✓	✓	✓
	✓	✓	✓	✓	✓