

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 18<sup>th</sup> to 31<sup>st</sup> only  
 " Sept. 1<sup>st</sup> to 14<sup>th</sup> only

## New Observatory

B Stewart Esq<sup>r</sup>

1 ft 3 in 6 3 4 5

20 66

19 63 45

10 in sq<sup>t</sup> + 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. Stewartof 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 <sup>121</sup>	.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 <sup>4.60</sup>	4.42 <sup>11.58</sup>	1.29 <sup>6.07</sup>	2.11 <sup>8.72</sup>	2.93 <sup>7.50</sup>	2.02 <sup>10.67</sup>	2.61 <sup>6.92</sup>	.69 <sup>8.16</sup>	.97 <sup>12.56</sup>	2.86 <sup>16.07</sup>	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	

24.765

1.664

23.101 +

2.973

25.974



# RAINFALL AT *New Observatory* 162 80

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

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

County of \_\_\_\_\_

*Surrey*

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

Observer \_\_\_\_\_

*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 \_\_\_\_\_

Surrey

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

Observer \_\_\_\_\_

The New Committee

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	6.76	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

Richmond New Observatory

County of

Surrey

Observer

Dr C Chree F.R.S.

Met Office

River Basin

Thames Mole S

Self Recording Beckley

Rain Gauge, by

Diameter ...	11											
Height .....	19											
Altitude ...	19 ft											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	
January ...	1.69	1.19	3.46	2.56	.54	4.19	1.20	1.14	2.96			
February ...	2.78	1.31	1.38	.78	2.47	3.32	3.15	.79	.79			
March .....	.95	1.31	2.81	2.13	3.93	.80	3.93	1.73	.91			
April .....	1.06	1.86	.05	2.54	.87	1.26	1.03	2.13	3.15			
May .....	1.85	1.66	1.29	1.77	1.76	2.15	1.66	2.05	1.81			
June .....	2.66	1.98	3.19	.43	2.29	.58	2.16	3.70	1.19			
July .....	2.49	.82	1.72	1.91	1.96	4.25	1.39	4.73	4.72			
August .....	2.79	.81	5.40	1.44	1.76	3.26	4.00	4.14	1.42			
September ...	.46 8.40	1.37 4.93	2.11 12.12	1.69 5.47	1.00 7.01	2.32 10.41	1.54 9.09	2.05 14.53	5.71 13.02			
October ...	2.62	3.01	2.22	3.45	1.18	2.29	3.66	3.39	1.14			
November ..	2.84	3.40	1.67	2.23	2.97	2.04	3.91	1.30	2.09			
December ...	3.36	4.44	2.71	.92	6.37	5.40	2.26	1.18	2.13			
TOTALS ...	25.55	23.06	28.01	21.87	27.10	32.86	29.89	28.20	28.01	NR 24.29		

+ Inspected

Annual average (London Survey) = 28.8

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911	51.28.6 N	0.17.15 W	Richmond	3/4 m	E SE	Elewood	500 yds	NW



## RAINFALL at

New Observatory

Check Gauge

County of

Surrey

Observer

Meteorological Office

River Basin

Thames-Mole &amp;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

5.79

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 of 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. 421. J. T. &amp; S., Ltd. 160.

RAINFALL at Richmond (Kew Observatory) M.W.R.County of SurreyObserver The Meteorological OfficeRiver Basin Thames Met. 5The SuperintendentType of Gauge (+A)Meteorological OfficeAnnual Average 23.8 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. D of N

Diameter	8											
Height	10					0	10	10				
Altitude	18											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	1.07	1.61	1.34	1.20	.87	3.84	2.76	2.24	4.17	2.48	2.58	
February	1.58	.17	2.65	.22	2.31	1.64	4.05	.33	.80	1.68	1.53	
March	.20	1.29	2.17	2.12	.35	.98	2.76	.23	1.00	3.39	1.49	
April	3.66	2.23	.66	1.46	2.76	1.57	1.98	.10	2.32	1.61	1.83	
May	2.48	4.03	1.83	.44	1.33	.51	2.15	1.30	1.28	1.21	1.65	
June	1.65	.85	1.93	1.00	3.37	3.53	1.81	.35	1.15	1.20	1.68	
July	2.91	1.86	1.74	3.19	1.63	2.35	.95	1.02	1.79	2.69	2.03	
August	4.85	1.17	.50	1.77	1.99	.48	2.98	2.70	3.43	.09	1.99	
September	2.09	2.32	2.72	1.26	2.55	2.81	2.04	1.94	.91	1.37	2.01	
October	.65	5.00	1.44	.87	2.09	1.79	2.27	2.13	4.93	2.41	2.36	
November	2.14	1.07	.94	1.76	4.25	2.79	1.38	2.57	4.41	6.76	2.80	
December	.54	.41	.32	4.42	2.20	1.44	3.44	3.39	.84	1.12	1.81	
TOTALS	23.82	23.01	18.24	19.71	25.70	23.73	29.67	18.30	27.03	26.91	23.42	KM

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



## 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:-

\*Each note to be dated. Continue notes overleaf if necessary.

RAINFALL at Kew Observatory M.M.F. 22

41

County of GloucesterObserver Meteorological OfficeRiver Basin Thames-Mole &c.Type of Gauge (A)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.

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 but not from Kew on 109' hence after this report a separate gauge certificate.

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

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

