

RAINFALL AT Westerham Hill Estate

375

Lat.

Lon.

County of Kent West

Rain Gauge, by

Observer F. C. Bayard Esq

5- Ducent

Met. Water Board

W. M. Esq

Diameter ..	5										
Height	10										
Altitude ..	539										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	4.37	.91	.78	2.70	5.21	1.23	5.60	1.34	1.55	1.11	2.480
February ..	4.87	1.53	1.41	1.97	3.62	.93	2.93	1.68	1.29	.65	2.088
March	1.06	2.95	1.83	3.15	1.63	4.21	1.89	1.30	2.98	3.81	2.481
April	1.18	2.42	.85	2.48	1.30	1.97	1.03	3.41	3.00	1.65	1.929
May	1.45	.81	2.81	2.43	2.50	.69	1.48	1.66	2.13	1.36	1.732
June	2.82	1.79	4.72	5.58	.76	5.62	2.52	2.19	2.01	3.74	3.175
July	1.17	2.13	1.61	5.21	1.41	.71	1.38	1.00	3.62	3.38	2.162
August	3.37	2.12	3.10	4.71	1.12	2.50	.60	2.47	4.28	2.15	2.642
September ..	1.41	1.99	.36	2.23	1.92	2.30	2.35	.62	1.40	3.66	1.824
October	2.31	2.60	2.65	7.25	2.38	1.60	4.74	3.55	1.72	6.24	3.504
November ..	3.48	.91	2.28	2.93	1.71	4.33	6.34	2.19	1.35	1.21	2.673
December ..	3.68	5.06	1.90	2.14	3.60	.73	2.96	3.08	2.62	4.04	2.981
TOTALS ..	31.17	25.22	24.30	42.78	27.16	26.82	33.82	24.49	27.95	33.00	29.671

H. H. S.

RAINFALL at Westonham Hill EstateCounty of KentObserver Met. Water Board2 MelhuishRiver Basin Thames. Darent 5

01 .009
10 .102
20 .210
30 .306
40 .400
50 .504

Copper B.A. Rain Gauge, by Hudson Bros
4.92, 4.97, 4.96, 4.97. altered to 4.95 all over.
balanced gauge

Diameter ...	5										
Height	10				54						
Altitude ...	539										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	TOTAL MEANS 1916-19
January ...	2.38	1.60	5.69	3.58	.77	4.15	2.69	1.79	3.61	4.24	12.33
February ...	4.02	1.68	2.36	.93	3.67	4.24	4.58	.90	1.57	2.35	9.40
March	1.45	2.44	3.71	2.77	5.65	.76	5.44	1.95	1.05	3.89	12.33
April	1.90	2.46	.11	3.42	1.14	1.86	2.16	2.55	3.81	2.97	11.49
May	2.66	1.01	.94	1.06	1.70	3.83	2.78	2.00	2.39	.09	7.26
June	2.23	2.26	2.93	.26	1.01	.63	3.18	2.26	1.05	1.10	7.59
July	2.65	.35	1.59	1.73	1.79	4.62	1.04	4.96	4.85	2.03	12.88
August	2.08	.62	5.81	1.57	1.29	3.05	3.04	6.63	1.13	2.57	13.37
September ..	.85	1.65	3.31	1.54	1.00	2.64	1.38	2.19	5.57	1.36	10.50
October ...	2.89	4.75	3.15	4.26	1.94	2.51	4.78	4.43	2.38	1.01	12.60
November ...	3.85	5.68	3.02	3.51	4.01	3.62	5.28	2.18	2.15	2.19	11.80
December ...	3.82	6.32	3.45	1.42	8.28	6.78	3.32	2.66	3.13	4.77	13.58
TOTALS ...	30.78	30.82	36.06	26.05	32.25	37.89	39.67	34.50	32.69	28.57	135.43

— Nov '14 was 50 yds N of previous position sheltered on S by sandstone
+ 21.V.1915 Outcrops lower. Beach here 20 ft. high 20 ft. NW and 20 ft. high 40 ft. S.
Bank falling 2 ft to path 12 ft E. very open situation, sloping to S.
Removed to fair site on dune sloping slightly to S. Small hedge on S.
Home 20 ft high 40 ft SW.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.

RAINFALL at Westerham Hill Pumping StationCounty of HertObserver Met. Water Board F. GilhuishRiver Basin Thames-Darent-5(21) Copper Rain Gauge, by Hudson Bros
fitted perfectly detached from collar
ready from run.4.97
4.98
4.97
4.95Glass in error at .43
of .008 but can be retainednew G. recommended. (error in
glass + glass in error)

X.25 new 2.2 fanged sound correct													X.25 Glass No. 220 (N+2)
Diameter ...	5"												
Height	1 0												
Altitude ...	539												
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS.		
35.34 January ...	3.74	3.13	3.79	1.83	3.28	3.02	3.93	2.70	4.70	1.25	3.97	3.21	
26.12 February ...	.75	.57	3.04	4.24	.96	4.19	3.26	5.16	1.89	.08	1.48	2.37	
20.24 March	1.35	2.08	2.62	2.67	1.47	1.24	.58	3.78	2.52	.06	1.88	1.84	
32.18 April	3.33	1.79	4.10	2.71	4.51	2.92	4.97	2.07	2.44	1.26	2.08	2.93	
24.97 May .....	.80	1.60	1.49	3.20	3.70	3.08	1.57	1.41	2.52	2.07	3.53	2.27	
21.32 June	1.98	.16	1.83	.62	2.71	.23	3.69	4.58	3.58	1.31	.63	1.94	
34.03 July	4.98	.28	3.68	2.90	5.50	3.99	2.09	2.78	2.04	2.23	3.53	3.09	
33.36 August	1.82	1.70	3.07	2.35	4.08	2.24	3.50	5.99	2.88	2.62	4.54	3.03	
30.81 September...	4.27	1.26	2.65	2.12	5.16	3.39	.99	5.47	.73	.23	4.54	2.80	
35.30 October	1.65	1.34	1.34	6.83	3.29	4.05	3.28	2.31	5.33	4.15	2.03	3.21	
41.63 November...	1.81	1.82	2.20	2.39	4.01	3.24	6.45	3.33	3.32	7.80	5.26	3.79	
42.26 December...	3.66	2.47	4.22	3.43	4.20	4.01	.76	5.80	4.29	7.02	2.40	3.84	
377.56 TOTALS...	30.14	18.20	34.03	34.99	42.87	35.60	35.07	45.38	36.24	20.67	34.44	34.32	
	D	D	D	D	D	D	D	D	D	D	D	D	

Inspected 25.1.21 G. in an indifferent position but no better is available.
Land slopes to S with ledge & shrubs about 3 ft. high at 30 ft. distant
House on N 20-25 ft. high 30 ft. away
Inspected 3.11.23. Funnel has no rim & g. should be replaced at once. Glass is
certified & will prove for new 5" g.
Inspected 7.20.25 as in 1921 a standard gauge is recommended.
21 x 27 see green file

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

RAINFALL at Westerham Hill Pumping StationCounty of Kent Observer Met. Water BoardRiver Basin Thames - Darent - 5

Type of Gauge

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

883891/28.

Diameter	5											
Height	1	0										
Altitude	539											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	TOTAL	MEANS
January	2.27	2.36	1.86	2.60	1.59	5.95	6.18	4.20	5.49	2.83	35.53	
February	2.96	.83	2.53	.31	4.48	2.24	5.47	1.34	1.73	2.69	24.58	
March	.45	1.81	3.64	2.57	.47	1.42	4.34	.48	1.59	3.22	19.99	
April	5.01	2.66	.86	3.02	3.75	2.63	3.52	.47	2.69	2.03	26.64	
May	3.31	4.73	1.97	.67	1.76	.45	2.33	2.68	1.81	1.71	21.42	
June	1.62	1.13	1.81	1.65	3.64	3.38	2.27	.66	.91	.66	17.73	
July	2.89	2.45	2.13	2.52	.84	4.58	.94	2.21	2.53	3.27	24.36	
August	5.08	1.33	.97	2.17	3.97	.75	2.86	1.75	3.68	.08	22.14	
September	2.06	2.21	3.29	2.18	4.42	2.33	2.09	2.65	1.31	1.49	24.01	
October	.87	6.80	2.16	2.24	4.86	2.97	3.32	3.92	8.39	8.97	39.20	
November	3.98	1.49	1.27	4.10	6.61	4.81	1.98	3.76	6.53	8.73	43.26	
December	.75	.75	.61	7.40	4.34	3.93	5.68	4.37	1.88	2.17	31.88	
TOTALS	31.25	28.55	23.10	31.43	40.43	35.44	40.46	28.49	38.74	32.85	330.74	
	D	D	D	D	D	D	D	D	D	D	D	

Inspected 7/3/34 turf wall round gauge recommended.

+ Inspected 8/2/38 Turf wall has been set up round g.

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

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

Station No. 375.0**RAINFALL** at Westonham Hill Pumping Station

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County of KentObserver Met. Wain. BoardRiver Basin Thames Darent 5

Type of Gauge

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

File No. 883891/29

Diameter	5"				290	115					
Height	1' 0"					1					
Altitude	539'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	TOTAL -Means-
January	3.10	3.96	6.17	2.47	2.60	2.58	3.25	4.46	1.51	1.48	31.78
February	3.81	1.00	2.25	1.46	2.27	3.23	1.97	2.67	1.42	5.28	25.36
March	3.54	2.83	.40	.08	1.51	1.79	6.62	.88	1.03	1.49	20.17
April	2.01	1.69	1.50	1.72	1.39	2.32	2.01	1.66	1.94	4.19	21.43
May	2.43	3.67	2.85	.59	2.68	3.63	1.83	1.98	1.82	1.30	22.68
June	2.69	.14	1.34	2.01	2.03	2.69	2.67	3.86	1.09	2.70	21.22
July	2.43	2.55	2.89	1.96	3.78	2.44	1.82	1.96	.83	2.90	23.56
August	4.86	3.78	1.47	3.65	2.09	5.02	.24	5.48	1.33	2.46	30.38
September	.80	2.34	2.66	3.35	2.01	3.71	1.44	2.04	.87	3.80	23.02
October	1.73	4.02	3.03	5.15	3.63	1.52	.34	2.11	8.86	.35	30.74
November	3.44	2.25	2.39	4.46	.94	4.88	1.49	2.32	3.03	6.73	31.93
December	3.03	3.55	2.16	2.28	3.91	3.20	3.44	4.36	2.13	2.60	30.66
TOTALS	33.87	31.78	29.11	29.18	28.94	38.01	27.12	33.78	25.86	35.28	312.93

8.8.45. Obs. stated gauge over sheltered by vegetation. New site to be found.

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

RAINFALL at WESTERHAM HILL (PUMPING STATION) Station No. 375 ~~TF86~~ **51**
 County of KENT Observer MET. WATER BOARD
 River Basin THAMES - DARENT & C.
 Type of Gauge Snowdon (No. 2)

Annual Average 32.6 in. based on 11 years obs. un-weighted. Period of average 1881 - 1915 Ref. C. 3.578
 " " 33.97 " " 21 " within 1926-56 " " " 1916-50 File No. E 3460/46
E 22626/58

Diameter ...	5"				290	115						
Height ...	1' 0"					1						
Altitude ...	539'					51						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	Total
January ...	3.50	2.76	1.16	2.00	4.35	4.89	2.18	3.27	3.08	3.24	30.73	
February ...	7.03	1.23	2.03	2.56	2.34	.89	4.41	2.84	.19	2.62	26.14	
March ...	4.37	4.10	.48	2.84	1.75	1.14	1.61	1.98	1.94	2.24	22.45	
April ...	3.39	1.70	2.60	0.37	.30	1.77	.31	1.71	2.34	0.90	15.39	
May ...	2.25	1.48	1.86	3.01	4.43	.56	1.74	1.78	1.17	2.01	20.29	
June ...	1.50	1.85	1.69	4.32	2.11	3.93	1.52	4.73	1.37	1.92	24.96	
July ...	2.46	.86	4.17	3.25	.57	4.84	3.13	2.43	1.36	3.66	26.73	
August ...	5.48	5.23	1.94	3.25	1.03	2.87	3.04	3.66	1.42	3.76	31.68	
September ...	3.12	3.64	3.82	2.65	2.54	3.13	3.29	6.22	.18	4.54	33.13	
October ...	1.51	3.47	4.33	2.66	5.25	1.77	2.04	3.47	3.76	7.76	36.02	
November ...	5.40	4.92	1.47	5.39	1.24	.97	3.09	1.98	3.00	5.56	32.97	
December ...	3.15	3.03	.98	1.86	2.88	4.28	2.88	3.76	5.82	3.96	32.60	
TOTALS ...	43.16	34.27	26.83	34.16	28.84	31.04	29.24	37.73	25.65	42.17	333.09	

plus. 5/54. G. sound. G. 27' from edge of reservoir bearing 210°. Steep 25' drop. Turf wall crumbling
 1897-1901 (1901) overgrown S-W. No bellu site available. 1.60K
 Inspected 13-10-60 by H. H. H. On reservoir. Inspected little effect of SW → SSE. Better site near P.S. but apparently not convenient

Position of Station on Ordnance One-Inch map : No. of Map. 171 National Grid Reference S143958

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 - Rejected

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