

RAINFALL AT

RAINFALL AT Buckhurst Hill Reservoir

Lat.

Lon.

County of _____

Essex

Rain Gauge, by

Observer

W.B. Bryan Esq C.E

W Blackburn Esq C C

Lea - 1.

Diameter ..	8												Mt. Water Pond	
Height	10	17												
Altitude ..	275													
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.			
January ..	2.41	.42	.76	1.81	1.91	1.17	3.77	.95	1.03	.72	1.495			
February ..	2.90	1.14	1.30	.68	2.41	.70	1.89	1.14	1.51	.77	1.444			
March ....	.63	1.94	1.55	1.96	1.69	2.69	.91	.75	2.12	2.52	1.676			
April .....	.84	1.59	.42	1.73	.79	1.81	.42	2.99	2.67	1.70	1.496			
May	1.03	1.44	3.03	2.12	1.67	.81	1.46	1.88	1.78	1.42	1.664			
June	1.80	.93	3.20	5.60	.92	3.08	2.10	2.12	2.11	3.97	2.586			
July	1.60	2.12	1.46	7.36	1.84	1.52	.72	2.51	4.56	3.44	2.713			
August	2.62	1.55	3.46	4.44	1.76	2.20	.88	1.70	2.77	1.97	2.335			
September..	.84	1.57	.65	2.52	1.02	2.42	1.64	.75	1.89	2.40	1.570			
October....	1.92	2.29	1.09	5.90	1.15	.88	3.18	2.70	1.51	3.96	2.458			
November..	1.81	.65	1.54	1.73	1.46	2.62	3.83	2.19	.63	.85	1.731			
December ..	2.73	2.88	1.23	1.15	1.41	.68	1.96	3.54	1.85	2.68	2.011			
TOTALS ..	21.13	18.52	19.69	37.00	18.03	20.58	22.79	23.22	24.43	26.40	23.19			

+ Inspected

RAINFALL at Buckhurst Hill ReservoirCounty of EssexObserver Met Water BoardRiver Basin Thames Lea 1at Blackburn Ck
WoodCopper-Blairish Rain Gauge, by StanleyDiam { $\begin{matrix} 7.93 \\ 8.02 \\ 7.99 \\ 8.01 \end{matrix}$ } (199)glass { $\begin{matrix} .01 \\ .15 \\ .30 \\ .45 \\ .50 \end{matrix}$ } in use till X11-13 new glass recommended

Diameter ...	8											
Height	17											
Altitude ...	275 ft											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	
January ...	1.54	1.40	3.49	2.96	.58	3.51	1.39	1.24	2.74	3.44		Total 16.17 8.81
February ...	2.60	1.52	1.49	.79	2.29	3.18	3.36	.72	.96	2.91		7.95
March .....	.89	1.82	2.74	1.88	4.06	.97	4.04	1.69	.97	2.79		7.47
April	1.27	1.43	.08	2.79	.87	.92	1.32	2.27	3.18	3.10		7.87
May	2.01	1.72	.92	1.38	1.82	2.68	1.96	2.23	2.31	.28		6.78
June	3.44	2.75	3.13	.37	2.03	1.45	2.04	1.33	.93	1.48		5.78
July	2.31	.50	1.44	1.71	1.37	4.55	1.53	3.58	6.10	2.16		13.37
August	2.23	.89	4.35	1.75	1.55	2.25	4.87	4.25	1.71	2.53		13.26
September ..	.83	1.40	2.20	1.38	.89	1.98	1.07	1.88	4.38	1.06		8.39
October ...	2.13	2.93	1.86	3.44	1.14	1.77	3.17	3.39	1.41	.57		8.54
November ..	3.20	3.46	1.85	2.46	2.93	2.60	4.56	1.55	2.18	1.65		7.94
December ...	3.31	4.68	2.81	.78	6.28	5.18	2.75	.89	2.31	3.49		7.44
TOTALS ...	25.76	24.53	26.36	21.69	25.81	31.04	32.06	25.02	29.18	25.46		111.72 485

+ Inspected CS. 19-XII-13

g. set in end of pipe on cement slab on top of covered Reservoir. Reservoir is 40-50 ft square & then slopes down about 15 ft to level ground. Rather overexposed. Slight leak under flange to be repaired.

Date.	Lat. N.	Long. E.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	51.37.31	0.26	Buckhurst Hill					

RAINFALL at Buckhurst Hill ReservoirCounty of EssexObserver Met. Water Board
1921 3rd WeekRiver Basin Hames LeeWorham District
1929 12th MonthCoppesfield Rain Gauge, by Stanley
pipe requires strengthening

x.25 Condenser glass correct

G. still sound.

V1.21 Gauge cracked - new one required (21) error of .01 above .25.

x.25 Snowdon gauge sound and correct.

Diameter ...	8		5				2 1/2			5		
Height	1	7								1	0	
Altitude ...	275											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	<u>Means</u> 1920	
January ...	2.78	2.06	2.85	1.09	2.33	1.76	2.98	1.55	3.42	1.20	2.25	<u>Totals</u> 24.77
February ...	1.54	.51	1.86	3.25	.78	2.58	3.03	3.29	1.71	.54	.82	18.91
March	1.42	.95	1.56	2.08	.88	.66	.25	2.10	1.37	.00	1.60	12.87
April	3.81	1.20	3.11	1.48	3.03	2.02	3.53	1.93	1.15	1.26	1.84	24.36
May .....	.70	1.26	.48	1.74	3.07	1.84	1.09	1.69	2.50	1.95	3.07	19.39
June	1.49	.44	1.27	.68	2.28	.14	3.68	2.70	2.45	.98	2.53	18.64
July	4.31	.14	3.67	2.82	4.14	3.88	2.48	2.92	2.03	1.91	2.01	30.31
August	1.99	1.25	2.81	1.89	2.34	2.31	2.21	3.59	1.89	1.71	2.99	24.78
September...	3.22	2.60	2.26	1.61	2.98	2.27	1.51	4.53	.60	.49	3.13	25.20
October	1.21	.64	.98	4.94	3.52	2.77	2.17	1.61	3.50	3.28	1.04	25.66
November...	.84	1.95	1.53	1.82	2.53	1.54	4.69	2.28	2.30	5.57	4.42	29.47
December...	2.57	1.16	2.75	2.19	3.26	2.25	.38	2.93	2.58	4.14	2.23	26.44
TOTALS...	24.68	14.16	25.13	25.59	31.64	24.02	28.00	31.12	25.50	23.03	27.93	270.80
	D	D	D	D	D	D	D	D	D	D	D	326

Inspected CS. 2. VI. 21 position as before.

" 3 ft. 6. XI. 23. 5' g. has been put in place for 8'. Recommend packing pipe in which it stands, to prevent damage.

Inspected 75. 10. x. 25 5' on top of reservoir somewhat open.

" 28 x 77 See green file.

1929. Gauge House 10 ft. high 37 ft. N.

Fire Station 12 " " 39 " N.W.

Position of Station on reduced Ordnance Survey } No. of Map

Map, 2 miles to 1 inch Series

Reference No.

Date.	Lat. N.	Long. E.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
1929.	51.27.31	0.26	Buckhurst Hill			St. Johns	400 yds	N.

RAINFALL at Buckhurst Hill ReservoirCounty of EssexObserver Mel. Water BoardRiver Basin Thames - Lea - I

Type of Gauge.....

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

" 23.9 in. computed by Mr. Cornish (1938) Ref. 561245/36 883894/28

Diameter	2.5											
Height	1.0											
Altitude	275	274										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Totals	Means
January	1.54	1.59	1.41	1.55	1.76	4.51	3.49	2.91	4.88	2.19	2583	
February	1.99	1.8	1.06	1.5	2.03	1.87	4.11	.69	.92	1.68	1438	
March	.16	1.43	2.04	2.16	.53	1.13	2.44	.35	1.51	3.29	1509	
April	3.41	2.38	.71	2.15	3.09	1.22	2.88	.73	2.46	1.78	2021	
May	2.88	2.85	2.53	.63	1.15	.70	2.71	1.62	1.46	1.81	1834	
June	1.43	.56	2.85	1.34	3.64	3.92	1.98	.42	1.21	.73	1808	
July	2.86	2.34	1.02	.95	.45	2.59	1.82	1.54	2.79	3.07	1943	
August	5.25	1.50	.47	2.07	1.64	.41	2.32	1.51	2.70	.10	1797	
September	1.88	2.15	2.50	1.71	3.26	3.01	1.66	3.38	1.23	.86	2174	
October	.65	5.27	1.61	1.23	2.64	1.74	2.06	2.66	6.09	2.88	2683	
November	2.06	1.23	1.07	2.21	3.83	3.46	1.41	3.27	4.52	6.41	2947	
December	.84	.54	.46	5.17	2.89	2.03	3.51	3.31	1.29	1.28	2132	
TOTALS	24.95	22.02	17.73	21.32	27.01	26.34	30.39	21.79	31.06	26.08	24869	24869

Inspected 6/3/34. Another gauge should be set up with turf wall round it, some 5 yards east of present gauge and comparative readings taken for a year or so.
 † Inspected 10/2/36 by Mr. Bennell. Turf wall all correct.

The sit. of gauge is on top of a reservoir

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	Direction from gauge

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

Station No. 1231

RAINFALL at Buckhurst Hill Reservoir

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County of Essex Observer Mt. Water BoardRiver Basin Thames-Sea-1

Type of Gauge.....

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

" " 23.9 in. computed by Mr. Gornish (1938) Ref. 56124916 File No. 882893/28

Diameter	5"			244	833							
Height	1' 0"											
Altitude	275'											
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	Totals
January	2.73	2.38	4.81	1.71	2.10	1.69	1.87	4.32	.97	1.40		23.98
February	2.23	1.13	1.21	.89	1.69	2.82	1.60	1.64	1.05	3.81		12.07
March	2.95	2.29	.39	.10	.85	1.25	5.61	.71	.87	.77		15.79
April	1.55	1.11	1.35	1.41	1.03	1.55	1.71	1.51	1.52	1.71		16.45
May	1.80	2.43	1.55	.48	3.60	2.92	.82	2.23	1.94	1.72		17.49
June	1.22	.22	1.49	1.99	1.81	2.95	2.46	2.23	.71	1.33		16.41
July	4.03	1.62	1.41	1.77	3.44	2.25	1.83	.87	1.29	3.57		22.02
August	4.23	2.66	1.79	2.61	1.32	4.65	.05	3.55	1.36	2.00		24.22
September	.75	1.34	1.74	3.39	1.45	3.16	1.61	1.35	.51	2.56		17.86
October	.82	4.24	2.37	3.30	2.21	1.55	.21	1.88	4.90	.37		21.85
November	2.33	2.29	1.80	3.93	.39	4.02	.96	2.16	2.27	4.74		24.27
December	1.88	2.41	1.53	1.31	2.77	2.06	2.31	2.41	1.56	1.61		17.85
TOTALS	26.52	24.12	21.44	22.89	22.66	30.87	21.04	24.86	18.95	25.59		237.94
	D	D	D	D	D	D	D	D	D	D		406

* The site of gauge is on top of a reservoir. 5' Turf wall round gauge.

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 at Buckhurst Hill Reservoir

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County of Essex Observer Met. Water BoardRiver Basin Thames-Lea-1Type of Gauge G.A. No. HKII

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

" " 23.9 in. computed by Mr. Cornish (1938) Ref. 54245/36 File No. SS5893/28 E 3460/46
E 22624/28

Diameter ...	25.8" ³¹	based on 35 years	1916-1920	Period of obs.	1916-1920						Ref. P.
			244	833							
Height ...	1' 0"										
Altitude ...	275*										
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	2.47	1.73	1.09	1.09	2.63	3.43	1.49	2.41	1.91	1.89	20.14
February ...	5.64	.81	1.79	2.66	1.93	.45	3.06	2.93	.09	2.42	21.78
March ...	3.37	3.36	.48	2.34	1.20	1.17	1.26	1.11	1.76	1.27	17.32
April ...	2.83	1.21	2.56	.28	.41	1.18	.24	1.49	2.50	.63	13.33
May ...	2.34	1.60	1.33	1.92	4.71	.65	1.25	2.46	1.30	1.70	19.26
June ...	.54	1.40	1.49	2.88	2.27	3.02	.82	5.73	.76	1.27	20.18
July ...	.99	.61	3.56	2.67	.72	4.20	3.77	2.60	1.52	3.78	24.44
August ...	5.17	2.85	1.78	3.50	1.05	4.42	1.90	3.64	1.22	3.00	25.53
September ...	3.11	3.08	1.98	1.56	2.00	2.08	2.40	3.71	.04	4.16	24.12
October ...	.70	2.80	3.28	2.15	3.16	1.91	1.96	2.30	2.06	6.14	26.46
November ...	4.58	3.87	1.02	3.49	.76	.62	2.07	1.79	3.01	3.43	24.64
December ...	2.08	2.47	.66	1.72	1.65	2.62	1.66	3.07	3.75	2.71	22.39
TOTALS ...	33.82	25.85	21.02?	26.26	22.49	25.75	21.88	33.24	19.92	32.40	26.26
	D	D	D	D	D	D	D	D	D	D	D

Ins 112-53. Leak at junction of sheath & funnel. Outer can battered & painted. Mean diameter .08 in. Two small g. on reservoir roof but good shelter all round & turf wall in excellent condition. Catch should be representative. Inspected Sept 1956 Mr. Deeks. Gauge sound, measure cert. fixed. Site unorthodox on top of reservoir but protected by trees etc. Turf wall in good condition. Inspected 10/10/60 by M. Butler site of SW-WSW but good turf wall

* The site of gauge is on top of a reservoir & Turf wall round gauge

Position of Station on Ordnance One-Inch map: No. of Map... 161..... National Grid Reference 11/407938

Date.	Lat. N.	Long.	Railway Station.	Distance	Direction	Parish Church.	Distance
				from gauge			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
	✓	✓	✓	✓	
	✓ but -'16	✓	✓	✓	