

RAINFALL AT Buckhurst Hill Reservoir

Lat.

Lon.

County of Essex

Rain Gauge, by

Observer W.B. Bryan Esq. C.E.

W. Blackburn Esq. C.E.

Lea - 1.

Diameter ..	8										MENS.
Height ..	1.0	1.7									
Altitude ..	275										
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	
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	2.12	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	1.781
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	231.9 882

mm mm mm + mm mm mm

H.W.

+ Inspected

RAINFALL at Buckhurst Hill Reservoir

County of Essex

Observer Met. Water Board

River Basin Thame. Lea 1

W. Blackburn C.L.
G. M. Wood

Copper Glaisher Rain Gauge, by Stanley

Diam { 7.93
8.62
7.99
8.01 } (7.99)glass { .91
.93
.952
.90
.93
.96
.90 } in use till X-11-13 new glass recommended

Diameter ...	8												MEANS.
Height	17												
Altitude ...	275 ft												
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919			
January ...	1.54	1.40	3.49	2.96	.58	3.51	1.39	1.24	2.74	3.44			
February ...	2.60	1.52	1.49	.79	2.29	3.18	3.36	.72	.96	2.91			
March89	1.82	2.74	1.88	4.06	.97	4.04	1.69	.97	2.79			
April	1.27	1.43	.08	2.79	.87	.92	1.32	2.27	.18	3.10			
May	2.01	1.72	.92	1.38	1.82	2.68	1.96	2.23	2.31	.28			
June	3.44	2.75	3.13	.37	2.03	1.45	2.04	1.33	.93	1.48			
July	2.31	.58	1.44	1.71	1.37	4.55	1.53	3.58	6.10	2.16			
August	2.23	.89	4.35	1.75	1.55	2.25	4.87	4.25	1.71	2.53			
September ..	.83	1.40	2.20	1.38	.89	1.98	1.07	1.88	4.38	1.06			
October ...	2.13	2.93	1.86	6.44	1.14	1.77	3.17	3.39	1.41	.57			
November ..	3.20	3.46	1.85	2.46	2.93	2.60	4.56	1.65	2.18	1.65			
December ...	3.31	4.68	2.81	.78	6.28	5.18	2.75	.89	2.31	3.49			
TOTALS ...	25.76	24.53	26.36	21.69	25.81	31.04	32.06	25.02	29.18	25.46			

+ Inspected 03.19.XII-13. G. set in end of pipe on cement slab on top of covered Reservoir. Reservoir is 40x50 ft square & the slopes down about 15% 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 Ben Churhst Hill Reservoir

County of Essex

Observer M.W. Water Board
1921 1922 1923 1924 1925 1926 1927 1928 1929 1930

River Basin Thames Feb 1.

Northern District
1929 R.E. MinistryCopper Gauge Rain Gauge, by Stanley
of pipe square straightening

x-25 Camerons glass correct

S. still sound.

VI-21 Glass coated - new - one required (21) error of .01 above .25.

X-25 Snowdrift gauge sound and correct.

Diameter ...	8		5		8.4		5				
Height	1	7						1	0		
Altitude ...	275										
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	
January ...	2.78	2.06	2.85	1.09	2.83	1.76	2.98	1.55	3.42	1.20	2.25
February54	.51	1.86	3.25	.78	2.58	3.03	3.29	1.71	.54	.82
March	1.42	.95	1.56	2.08	.88	.66	.25	2.10	1.37	.00	1.60
April.....	3.81	1.20	3.11	1.48	3.03	2.02	3.53	1.93	1.15	1.26	1.84
May70	1.26	.48	1.74	3.07	1.84	1.09	1.69	2.50	1.95	3.07
June	1.49	.44	1.27	.68	2.28	.14	3.68	2.70	2.45	.98	2.53
July	4.31	.14	3.67	2.82	4.14	3.88	2.48	2.92	2.03	1.91	2.01
August	1.99	1.25	2.81	1.89	2.34	2.31	2.21	3.59	1.89	1.71	2.99
September...	3.22	2.60	2.26	1.61	2.98	2.27	1.51	4.53	.60	.49	3.13
October.....	1.21	.64	.98	4.94	3.52	2.77	2.17	1.61	3.50	3.28	1.04
November...	.84	1.95	1.53	1.82	2.53	1.54	4.69	2.28	2.30	5.57	4.42
December...	2.57	1.16	2.75	2.19	3.26	2.25	.38	2.93	2.58	4.14	2.23
TOTALS...	26.68	14.16	25.13	25.59	31.64	24.02	28.00	31.12	25.50	23.03	27.93
	D	D	D	D	D	D	D	D	D	D	D

Inspected 28.2.21 position as before.

" 3.9.21 6.XI.23. 5" g. has been purchased for 8". Recommend packing pipe in which it stands.

To prevent damage to pipe.

Inspected 28.X.25 b. on top of reservoir somewhat open.

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
Map, 2 miles to 1 inch Series } No. of Map

Reference No.

Date.	Lat. N.	Long. E.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
51.37 31.02.6			Buckhurst Hill					
1929						St. Johns	10072	N.

RAINFALL at Buckhurst Hill Reservoir.

County of E.S.S.R.T.

Observer Mel. Water Board

River Basin. Thames - Lea - 1

Type of Gauge.

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

Ref.

23.9 i. computed by Mr. Cornish (1938)

Ref. 561245/36

883894/28

Diameter	8.4	5										
Height	1.6	1.0										
Altitude	275	274										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Total	Means
January	1.54	1.59	1.61	1.55	1.76	4.51	3.29	2.91	4.88	2.19	25.83	
February	1.99	1.8	1.06	.15	2.03	1.87	4.11	.69	.92	1.68	14.38	
March	.16	1.43	2.04	2.16	.53	1.13	2.44	.35	1.51	3.29	15.09	
April	3.41	2.38	.71	2.16	3.09	1.22	2.88	.73	2.46	1.78	20.21	
May	2.88	2.85	2.53	.63	1.15	.70	2.71	1.62	1.46	1.81	18.34	
June	1.43	.56	2.85	1.34	3.64	3.92	1.48	.42	1.21	.73	18.08	
July	2.86	2.34	1.02	.95	1.45	2.59	1.82	1.54	2.79	3.07	19.43	
August	5.25	1.50	.47	2.09	1.64	1.41	2.32	1.51	2.70	.10	17.97	
September	1.88	2.15	2.50	1.71	3.26	3.01	1.66	3.38	1.23	.86	21.74	
October	.65	5.27	1.61	1.23	2.64	1.74	2.06	2.66	6.09	2.88	26.83	
November	2.06	1.23	1.07	2.21	3.82	3.46	1.41	3.27	4.82	6.41	29.47	
December	.84	.54	.46	5.17	2.89	2.03	3.51	3.31	1.29	1.28	21.32	
TOTALS	24.95	22.02	17.73	21.32	27.01	26.34	30.39	21.79	31.06	26.08	248.60	

† Inspected 10/2/34. 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.

The site of gauge is on top of a reservoir

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

References No.

Station No. 1231

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RAINFALL at Buckhurst Hill Reservoir.

County of Essex

Observer Met. Water Board

River Basin Thames Sea-1

Type of Gauge.

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

23.9 in. computed by Mr Cornish (1938) Ref. 5612260516 File No. 882893/28

Diameter	5"			244	8' 33							
Height	1' 0"											
Altitude	275											
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	
January	2.73	2.38	4.81	1.71	2.10	1.69	1.87	4.82	.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		18.07
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		14.43
May	1.80	2.43	1.55	.48	3.60	2.92	.82	2.23	1.94	1.72		19.49
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		22.08
August	4.23	2.66	1.79	2.61	1.32	4.65	.05	3.55	1.36	2.00		24.72
September	.75	1.34	1.74	3.39	1.45	3.16	1.61	1.35	.81	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		24.77
December	1.88	2.41	1.53	1.31	2.77	2.06	2.31	2.41	1.06	1.61		19.85
TOTALS	26.52	24.12	21.41	22.89	22.66	30.87	21.04	24.86	18.95	25.59		233.94 D

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

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

Station No. 1231 TF 86

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RAINFALL at Buckhurst Hill Reservoir

County of Essex

Observer Met. Water Board

River Basin Thames-Lea-1

Type of Gauge B.A. Mo Mk II

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

Ref.

" 23.9 in. computed by Mr. Cornish (1938) Ref. 56245/36

File No. 888897/28 E 3460/46
E 3460/46/59

Diameter	25.16 in. based on 35 years 1916-1950	Period of obs.	1916-1950	Ref. P.							
Height	5 ft										
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	20.19
February	5.64	.81	1.79	2.66	1.93	.45	3.06	2.93	.09	2.42	21.18
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	.66	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	.69	3.56	2.67	.72	4.20	3.77	2.60	1.52	3.78	24.48
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	24.46
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	1.992	32.40	262.63
	D	D	D	D	D	D	D	D	D	D	

In 1952-53. Located at junction of sheath & funnel. Outer case battered & painted. Mean diameter .08 in. too small. G. on reservoir roof, but good shelter all round & turf well in excellent condition. Catch should be representative.

Inspected Sept 1956 Mr. Deeks. Gauge sound, receiver cast tight. Site somewhat exposed top of reservoir but protected by trees etc. Turf well in good condition.

Inspected 10/10/60 by Hoblister site of SWWSW but good turf wall.

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

Position of Station on Ordnance One-Inch map : No. of Map 161 National Grid Reference 1/407938

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance 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	✓	✓	✓	✓