

# RAINFALL AT Loughton High Beech

Lat.

Lon.

County of

Essex

Rain Gauge, by

Observer

W.B. Bryan Esq. C.E.

Lea - 1.

Diameter ....	8										
Height .....	10										
Altitude ....	376 ft										
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January ....	2.45	1.81	.54	1.52	2.64	1.40	.48	1.77	.75	2.18	1.554
February ....	1.01	.01	1.43	2.76	1.65	.06	.37	2.28	.97	1.82	1.236
March ....	1.52	1.22	1.06	.42	.93	1.36	2.84	3.59	.97	.56	1.447
April .....	1.36	.86	.86	.09	1.64	1.35	.69	1.34	1.29	2.39	1.187
May .....	1.78	3.39	1.50	.67	1.40	.21	.20	1.57	2.35	1.05	1.412
June .....	3.87	1.18	2.36	.72	1.83	.28	2.48	2.17	1.18	1.32	1.739
July .....	5.02	2.91	1.83	2.30	3.01	3.37	1.60	.79	.86	1.63	2.332
August .....	3.87	4.42	3.15	1.66	2.77	1.96	2.02	2.96	1.15	.61	2.457
September....	65	.97	2.48	.67	1.16	1.01	5.64	2.37	.39	2.78	1.812
October.....	1.52	5.21	3.56	3.08	3.65	2.43	3.17	.64	3.21	2.30	2.877
November....	2.46	2.26	2.23	1.93	2.60	2.85	1.09	.97	1.46	4.22	2.207
December ....	.46	3.55	1.45	2.08	2.12	2.24	3.16	2.43	2.25	1.32	2.106
TOTALS . .	25.97	27.79	22.45	17.90	25.40	18.52	23.74	22.88	16.83	22.18	22.366

1890 This gauge is 200 yards West of the "King's Oak" P.H. High Beech

# RAINFALL AT Loughton High Beech

Lat.

Lon.

County of Essex

Rain Gauge, by

Observer W. B. Bryan Esq CL

W. Blackburn Esq CL

Lea - 1.

Diameter ..	8											met Waterboard
Height ....	1.0											
Altitude ..	376 ft											
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.	
January ..	2.62	.53	.81	1.86	2.27	1.29	3.79	.93	1.46	.71	1.6217	
February ..	2.73	1.02	1.25	.73	2.69	.87	2.14	1.19	1.66	.78	1.506	
March .....	.60	1.89	1.56	2.15	1.48	2.81	1.12	.80	2.26	2.59	1.7216	
April .....	.97	1.80	.49	1.61	.70	1.94	.43	3.15	2.65	2.00	1.574	
May .....	.97	1.92	2.75	2.44	1.85	1.01	1.43	1.85	2.08	1.65	1.795	
June .....	2.29	.55	3.15	6.02	1.18	2.76	2.44	1.72	1.94	4.15	2.620	
July .....	1.23	1.74	1.46	6.78	2.36	1.74	1.51	2.46	4.51	4.36	2.815	
August .....	2.72	1.52	4.37	4.58	1.91	2.54	.69	1.95	3.01	1.77	2.506	
September ..	.97	1.79	.52	2.58	1.30	2.21	1.76	.70	1.72	2.25	1.580	
October .....	2.03	2.10	1.07	6.34	1.29	1.26	3.58	3.05	1.44	3.94	2.610	
November ..	1.89	.41	1.54	1.84	1.46	2.72	4.09	2.58	.59	.76	1.788	
December ..	3.05	3.13	1.16	1.41	1.63	.83	2.26	3.54	1.89	2.70	2.160	
TOTALS ..	22.07	18.40	20.13	38.34	20.12	21.98	25.24	23.92	25.21	27.66	24.30	443

m m m m D S ✓

Hub

+ Inspected

## RAINFALL at Loughton High Beech Reservoir

County of Essex

Observer Mel Water Board

River Basin Harnes. Lea

W. Blackman Ch.  
J. M. Wood

Painted Copper Glaisher Rain Gauge, by.

$$\text{Dinner} \left\{ \begin{array}{l} 7.97 \\ 8.00 \\ 8.06 \\ 7.93 \end{array} \right\} (799) \quad \text{Glass} \left\{ \begin{array}{l} .15 = .150 \\ .30 = .290 \\ .45 = .444 \\ .50 = .496 \end{array} \right\}$$

glass { -15 = -150  
           -30 = -290  
           -45 = -444  
           -50 = -496

+ Inspected c. 19-11-13 On top of covered Reservoir. A good exposure, no shelter, rather too open if anything.

Date.	Lat. N.	Long. E.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	51.39.46	0.228	Loughton					

## RAINFALL at Loughton High Beech Reservoir

County of Essex

Observer Met. Water Board

1921 g/m broad

River Basin Shire Lea /

Northern District

1929, 1.5 m wide

Copper Glauber Rain Gauge, by  
Painted.

Funnel all 16 pieces &amp; no good. Newb. is necessary VI. 21. x. 25 Culmwood Sound tested.

Diameter ...	8									5	
Height .....	1	0							0	8	
Altitude ...	376										
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	<del>MEAN</del> 1930
January ...	2.89	2.39	3.08	1.24	2.70	1.78	2.88	1.58	3.49	1.40	2.67
February ...	.58	.59	2.13	3.20	.72	2.76	2.95	3.59	1.65	.70	.70
March .....	1.54	1.10	1.93	2.01	1.19	.55	.48	2.43	1.90	.02	1.65
April.....	3.98	1.70	3.12	1.73	3.32	1.97	3.15	1.92	1.17	1.44	2.09
May .....	.88	1.38	1.14	1.67	3.29	1.90	1.30	1.16	2.52	1.82	3.31
June .....	1.68	.38	1.44	.70	2.33	.14	3.48	2.78	2.90	.97	3.55
July .....	5.16	.26	3.65	2.82	4.16	3.70	2.58	3.22	1.93	1.66	2.00
August .....	1.76	1.17	3.51	1.60	2.65	2.20	2.06	4.36	2.38	1.72	3.09
September...	3.18	2.90	2.24	1.67	3.27	2.61	1.55	4.85	.66	.71	3.10
October.....	1.24	1.04	.93	5.18	3.75	3.06	2.51	2.13	4.02	3.61	1.20
November...	.90	2.24	1.50	1.97	2.49	1.56	5.10	2.13	2.46	5.70	4.17
December...	2.84	1.45	2.68	2.29	3.13	2.29	.35	3.00	2.56	4.55	2.54
TOTALS...	26.60	16.60	27.35	26.08	33.00	24.52	28.39	33.15	27.64	24.30	30.07
	D	D	D	D	D	D	D	D	D	D	D

Expected C.S. 2. VI. 21. Site is as good as can be obtained.

" F.J.W. 6. XI. 23. Satisfactory.

" qd. 20. x. 25. Is. on reservoir on high ridge and somewhat overexposed but as good

as available there

28/x/25 see green file

1929! Gauge house 10 ft. high 47 ft. E.

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

Reference No. \_\_\_\_\_

Date.	Lat. N.	Long E	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
	57.3946	0.2.28	Loughton			(1929) High Beech	400	W.S. S.

## RAINFALL at Loughion (High Beech Res.)

County of Essex.

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.....*

" " 25.1 is computed by Mr. Cornish (1938) Ref. 561245/36 883894/28

Diameter	5.							8				
Height	0.8.	1.	0.									
Altitude	376.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Totals.	Means
January	1.61	1.76	1.64	1.62	2.29	4.84	3.92	2.94	5.58	2.29	284.9	
February	2.11	1.18	1.40	.23	2.55	1.78	4.11	.83	.94	1.55	156.8	
March	.21	1.53	2.40	2.22	.55	1.24	2.64	.56	1.70	3.08	161.3	
April	3.59	2.50	1.05	2.17	3.11	1.27	3.08	.16	2.67	1.73	213.3	
May	3.06	2.73	1.94	.57	1.28	.47	2.86	1.98	1.61	1.74	182.4	
June	1.69	.63	1.97	1.35	3.76	4.97	2.04	.47	1.43	.51	188.2	
July	2.76	2.25	1.03	.91	.45	2.76	2.63	1.85	2.66	3.34	205.4	
August	5.35	1.58	.63	2.42	1.64	.53	1.72	1.49	3.49	.08	188.3	
September	1.94	1.92	2.81	1.51	3.55	3.10	1.48	3.13	1.50	.95	218.9	
October	.68	5.32	1.74	1.26	3.00	1.88	2.13	2.88	5.73	3.19	278.1	
November	2.28	1.36	.99	2.17	3.77	3.47	1.55	3.46	4.64	6.83	304.2	
December	.87	4.9	.47	5.08	3.12	1.97	3.60	3.51	1.18	1.24	215.3	
TOTALS	26.15	22.25	18.07	21.51	28.97	28.28	31.76	23.26	32.93	26.53	25971	KM

1931. Gauge House 10' high 47' E

+ Inspected 16/2/38. Gauge set in dip 9" deep on top of 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	Parish Church.	Distance from gauge	Direction
1931.						High Beech	400 yds	S

Station No. 1235

## RAINFALL at Loughton (High Beech Res.)

41

County of Essex

Observer Met. Water Board

River Basin Thames - Lea - 1

Type of Gauge.....

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

" " 25.1 in computed by Mr. Cornish (1938) Ref. 561245/36 File No. 883893/28

Diameter	8"			239	259							
Height	1' 0"											
Altitude	376'											
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	
January	3.00	2.44	4.85	1.80	2.44	1.87	1.93	4.41	1.13	1.36		25.23
February	2.69	1.41	1.33	1.01	1.55	2.90	1.69	1.96	1.14	3.45		19.13
March	3.21	2.19	1.44	1.14	1.85	1.56	5.98	.69	.84	.89		16.79
April	1.56	1.30	1.21	1.41	1.21	1.77	1.79	1.67	1.42	1.41		14.75
May	2.20	2.56	1.81	1.60	2.46	2.64	.82	2.07	1.96	1.55		18.67
June	.93	.21	1.69	1.76	1.90	2.83	2.52	2.32	.71	1.88		16.75
July	5.12	1.73	1.78	1.70	3.08	3.16	1.98	.81	1.24	3.86		24.76
August	4.36	2.20	1.52	3.09	1.47	4.06	.04	3.56	1.93	2.08		24.31
September	.86	1.46	2.23	3.10	1.72	3.20	1.51	1.73	.28	2.83		18.92
October	1.00	4.47	2.45	3.65	2.59	1.87	.19	1.96	5.50	.40		24.08
November	2.39	2.40	1.75	3.99	.29	4.36	.94	2.17	2.54	4.75		25.58
December	1.73	2.78	1.48	1.38	3.12	2.10	2.67	2.51	1.65	1.90		21.32
TOTALS	29.05	25.15	22.54	23.63	22.68	32.32	22.06	25.86	20.64	26.36		250.29
	D	D	D	D	D	D	D	D	D	D		✓

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	Parish Church.	Distance from gauge

6

Station No.

1235

T.F. 86

## RAINFALL at Loughton (High Beech Res.)

51

County of Essex

Observer Met. Water Board

River Basin Thames - Lea - 1

Type of Gauge Standard (basin)

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

" 25.1 computed by Mr. Cornish (1938) Ref 561245/36 File No. 883893/28 E 34/6/46  
15 22624/55

Diameter	26.52 based on 35 yrs.	1916-1950	Period of Av.	1916-1950	Ref	P					
Height	8"	239									
Altitude	1' 0"				11'						
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	3.00	2.09	1.08	1.23	2.77	3.56	1.55	2.45	2.07	2.06	21.86
February	5.88	.83	1.79	2.51	2.02	4.46	2.99	3.59	.11	2.27	22.45
March	3.46	3.62	.51	2.38	1.35	1.05	1.18	1.14	1.98	1.10	17.77
April	2.97	1.14	2.81	.28	.41	1.08	.16	1.58	2.77	.65	13.85
May	2.30	2.22	1.38	1.85	4.49	.71	.76	2.72	1.14	1.84	19.41
June	.66	1.43	1.34	2.67	2.28	3.58	.79	5.59	1.11	1.50	20.95
July	1.00	.71	4.28	2.88	.24	4.24	3.17	2.89	1.95	2.99	24.35
August	5.90	3.94	2.02	3.80	1.21	4.74	2.30	3.50	1.46	2.42	31.29
September	3.29	3.38	1.89	1.54	2.01	2.23	2.62	3.88	.04	3.98	24.86
October	.74	2.56	3.27	2.41	3.44	2.45	1.99	2.58	1.84	6.22	27.50
November	4.91	3.84	1.11	3.88	.89	.67	2.26	1.80	3.04	3.43	25.83
December	2.08	2.46	.68	1.60	1.87	2.91	1.86	2.98	3.74	2.81	22.99
TOTALS	36.19	28.22	22.16	27.03	22.98	27.68	21.63	34.70	21.25	31.27	27.31
	D	D	D	D	D	D	D	D	D	P	

Ins. 1.12.53. G. sound. Set in pit (diameter 6'8" depth 9") on reservoir roof. Good shelter all round but walls ~~is most exposed~~ is most exposed. Good turf wall recommended. Engr. asked stated he was informed M.O.3 when recommendations had been carried out no further information 26/5/55.

Inspected Sept 1956 Mr. Deeks. Gauge sound, measure etc. fed. Site over Chalk on top of reservoir. Protected all directions except S/E N. Gauge in pit with turf wall. Satisfied.

Inspected II 1958 J. B. K. Satisfactory.  
Inspected 10-10-60. G. in pipe and not level. like a ro. top but reasonably satisfactory.

Position of Station on Ordnance One-Inch map :

No. of Map 161

National Grid Reference 51/410980

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
		✓	✓	✓	✓	
		✓	✓	✓	✓	