

RAINFALL AT

Doe Park Reservoir Sandoline

6 Gts

Bradford Yorks

60

Rain { By
Gauge { Diameter.....*0*.....in.

Height above Ground, ft. *9* in.

Above Mean Sea Level, *0.10* ft.

YEAR	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January							6.55	3.33	4.20	4.14	
February							7.48	5.02	6.57	7.97	
March							2.08	2.56	5.35	1.51	
April						<i>0</i> 36	1.35	5.19	2.13	2.47	
May						2.57	1.18	3.58	1.40	5.86	
June .....						.85	4.30	2.36	.20	.70	
July						1.68	5.37	4.41	41	.75	
August						5.24	4.52	2.12	4.04	1.93	
September ...						.39	7.76	2.98	3.83	7.10	
October						5.89	2.93	3.09	4.82	2.56	
November ...						4.02	6.48	.97	3.53	5.22	
December						1.39	7.91	3.52	11.25	7.11	
TOTALS							57.91	39.13	47.89	47.32	

C C C C C

RAINFALL AT Bradford Doar Park Reservoir

Lat.....

Lon.....

County of.....

Yorkshire N.R.

Rain Gauge, by.....

Observer.....

E. Gott Esq. C.E.

Diameter	8										
Height	9										
Altitude	810										
YEAR	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	4.65	2.16	6.50	6.46	4.46	6.60	1.53	6.58	5.22	1.36	4.542
February	2.73	4.46	3.52	9.7	1.70	1.83	5.64	4.55	1.92	3.75	3.107
March	1.96	2.17	3.54	3.98	4.59	1.01	5.62	4.19	2.50	2.48	3.204
April	1.28	4.30	4.43	3.7	2.06	1.29	3.11	3.98	2.27	3.47	2.656
May	2.03	2.11	2.25	2.56	1.71	2.16	1.09	2.86	5.59	1.49	2.385
June	1.96	3.42	6.18	1.49	1.63	4.01	2.90	1.28	3.41	6.24	3.252
July	1.40	3.65	3.24	3.21	3.65	5.50	2.57	4.87	1.32	5.39	3.380
August.....	1.82	1.87	4.19	4.00	5.06	3.32	2.92	5.54	7.18	4.75	4.065
September.....	2.40	4.78	6.98	2.16	4.52	5.01	4.62	4.00	5.15	2.25	4.187
October.....	1.66	3.59	6.35	5.29	5.44	5.46	3.17	6.42	5.13	2.45	5.496
November.....	3.76	1.00	6.75	3.38	3.94	5.87	4.58	6.77	3.28	1.82	4.115
December.....	3.65	2.15	5.10	1.74	4.85	2.68	3.88	5.51	3.11	3.61	4.128
TOTALS	38.30	35.66	59.03	35.61	4.361	44.64	46.63	56.55	46.08	39.06	44.577

RAINFALL AT *Bradford, Doe Park* 80

Lat. _____

Lon. _____

County of *York*

Rain Gauge, by *No*

Observer *A. R. Bunnell, Esq., C.E.*

Case - Air 9

No 72

Diameter	8											
Height	1.0											
Altitude	50 T											
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January	4.40	4.49	5.30	7.44	7.44	2.34	7.41	2.49	2.26	2.19	3.796	
February	4.16	5.82	3.55	3.44	4.24	4.11	8.14	.93	.71	2.92	3.072	
March	3.68	5.58	5.23	1.44	3.21	2.70	4.96	2.61	4.50	2.83	3.671	
April	2.30	1.70	3.94	3.50	1.78	2.46	3.48	1.40	3.64	4.17	2.836	
May	2.72	2.81	1.65	1.08	2.54	3.28	5.55	2.30	1.49	2.55	2.597	
June	3.31	2.54	5.05	3.48	1.32	4.02	1.72	.23	2.84	.83	2.534	
July	6.02	5.46	4.47	3.84	5.15	1.47	5.09	1.98	7.64	3.21	4.433	
August	1.88	5.25	2.24	2.21	1.33	1.64	1.61	1.84	4.21	4.73	2.694	
September	4.22	3.03	2.07	8.51	2.41	5.63	3.04	5.25	1.33	1.85	3.734	
October	4.61	5.53	5.34	5.91	2.62	6.90	6.19	3.36	1.68	5.47	4.791	
November	4.76	6.64	8.86	5.87	2.25	3.67	3.66	3.68	11.28	1.06	5.173	
December	6.74	4.96	5.74	3.87	6.97	2.02	6.99	3.89	3.35	3.26	4.779	
TOTALS	44.80	49.81	53.74	50.56	41.26	40.43	50.54	29.96	44.93	35.07	44.110	

N.B. Records from June 20 to 5-1-1890.

RAINFALL AT *Bradford, Doe Park* 80

Lat. _____

Lon. _____

County of _____

Yorks

Rain Gauge, by _____

 Observer *A. R. Brinley, Esq., L.C.*
Case No. 7

Diameter	5											
Height	1.0											
Altitude	811 ft											
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January ....	.36	.49	5.18	7.14	7.34	2.58	7.15	2.31	2.01	2.02	3.658	
February	3.95	5.52	3.45	3.18	3.94	4.03	.80	.82	.68	2.74	2.911	
March	3.52	5.28	5.00	1.39	2.89	2.60	4.81	2.37	4.29	2.72	3.487	
April	2.12	1.59	3.57	3.42	1.74	2.36	3.25	1.27	3.28	3.89	2.649	
May	2.61	2.67	1.59	1.02	2.49	3.17	5.36	2.09	1.33	2.43	2.476	
June	3.06	2.40	5.01	3.42	1.26	3.88	1.66	.22	2.71	.85	2.447	
July	5.72	5.25	4.31	3.69	5.03	1.31	4.86	1.76	6.96	3.08	4.197	
August	1.78	5.05	2.14	2.17	1.29	1.49	1.52	1.72	3.89	4.50	2.555	
September	4.02	3.10	1.96	8.36	2.60	4.91	2.98	4.93	1.25	1.76	3.587	
October	4.38	5.41	5.40	5.66	2.51	6.76	5.84	3.01	1.52	5.04	4.553	
November	4.55	6.22	8.42	5.66	2.12	3.54	3.27	3.36	10.16	.98	4.828	
December	6.43	4.67	5.35	3.67	6.91	1.83	6.47	3.47	3.02	3.11	4.493	
TOTALS	42.50	47.65	51.38	48.78	40.12	38.46	47.97	27.33	41.10	33.12	41.841	

N.B. Rejected from Survey as 5" low.

RAINFALL AT *Bradford Doe Park*

Lat. _____

Lon. _____

County of _____

York W.R.

 Case - *Air 9*

Rain Gauge, by _____

Observer _____

*J. Webster Esq. C.E.
J. Matson Esq. C.E.*
Old Gauge No 72

Diameter	8											
Height	1 0											
Altitude	810 A											
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January	6.85	4.02	4.42	1.34	6.64	4.81	2.18	2.86	4.73	5.70	4.656	
February ....	.79	.29	3.93	6.93	9.09	.27	2.04	4.35	4.84	3.24	3.577	
March	3.94	2.60	1.41	1.51	4.77	4.00	7.00	7.39	1.87	2.97	3.746	
April	1.64	2.81	1.92	.97	2.64	3.26	2.83	2.57	3.92	3.32	2.688	
May	3.91	3.32	3.55	2.42	2.50	.86	.84	1.64	3.39	3.48	2.591	
June	3.95	1.76	4.42	2.90	4.21	2.97	5.03	4.94	3.19	1.94	3.531	
July	2.54	2.96	3.07	3.43	4.39	7.37	2.39	1.58	1.19	1.66	3.058	
August	6.29	5.47	4.14	2.92	4.65	6.03	2.23	4.56	5.10	1.85	4.324	
September....	2.28	3.40	3.09	3.68	.75	2.13	7.75	4.83	.97	7.68	3.656	
October	2.88	5.97	9.33	4.31	7.73	4.98	6.47	2.30	6.84	2.68	5.349	
November....	6.41	5.33	3.09	3.48	3.11	6.10	1.89	5.14	3.86	3.03	4.144	
December	1.11	10.74	3.02	5.61	4.34	5.46	6.06	7.32	6.67	3.48	5.981	
TOTALS . . .	42.59	48.67	45.39	39.50	54.82	48.24	46.71	50.48	46.57	44.03	46.700	

1890-

RAINFALL AT *Bradford Doe Park*

Lat. _____

Lon. _____

County of *York W.P.*

Rain Gauge, by _____

Observer

J. Webster Esq. C.E.
J. Watson Esq. C.E.

Rise - Air 9 No 7

Diameter	5										
Height	1 0										
Altitude	811 N										
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	6.35	3.10	3.47	1.11	5.56	4.44	1.76	2.64	4.27	7.59	4.029
February ....	.75	.25	3.28	6.00	8.29	.23	1.83	4.18	4.29	2.89	3.199
March	3.60	2.18	1.27	1.19	4.45	2.48	6.02	6.73	1.61	2.56	3.209
April	1.53	2.62	1.70	.85	2.31	2.79	2.44	3.20	3.53	2.82	2.379
May	3.61	2.83	2.91	2.11	2.03	.73	.71	1.47	2.88	3.04	2.232
June	3.79	1.55	3.92	2.27	3.76	2.58	4.63	4.47	2.85	1.76	3.158
July	2.37	2.41	2.76	2.86	3.81	6.53	2.05	1.38	1.15	1.36	2.668
August	5.76	4.87	3.36	2.54	3.93	5.26	1.92	3.91	4.57	1.59	3.771
September	2.15	3.06	2.53	2.99	.62	1.84	6.88	4.12	.85	6.95	3.199
October	2.55	4.87	8.46	3.75	7.18	4.31	5.85	1.86	6.18	2.25	4.726
November	5.92	4.29	2.59	3.04	2.66	5.42	1.72	4.68	3.28	2.52	3.612
December	1.00	9.33	2.43	4.81	3.90	4.85	5.40	6.35	5.85	3.15	4.707
TOTALS . . .	39.38	41.36 ⁸	38.68	33.52	48.50	42.46	41.21	44.99	41.31	38.48	40.789

1880 -

N.B. Rejected from Survey as too low.

RAINFALL AT

Bradford Doe Park

Lat.

Lon:

County of *York W.R. Central*

Rain Gauge, by

Observer

J. W. Eaton Esq. C.E.

Cuse - Use 9 old gauge

Diameter ..	8										
Height	10										
Altitude ..	810 ft										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	6.02	4.09	3.07	4.95	4.59	2.28	8.63	2.31	4.24	3.34	4.352
February ..	5.26	2.33	1.85	5.44	4.72	2.85	3.43	3.64	4.13	3.48	3.713
March	1.15	4.76	2.57	6.79	2.06	4.96	4.31	4.04	4.97	2.73	3.834
April	2.71	2.38	2.16	2.58	2.06	3.07	2.27	3.62	3.53	4.12	2.845
May	1.81	1.72	3.18	4.89	3.09	1.00	4.69	4.22	3.57	2.87	3.104
June	4.06	1.06	2.23	1.55	1.25	3.06	2.17	7.47	2.39	3.00	2.824
July	2.70	1.89	3.75	6.12	1.26	2.05	3.33	3.02	5.49	4.46	3.407
August	6.86	1.69	5.43	4.98	4.19	5.82	6.65	3.77	3.65	3.20	4.624
September ..	1.18	1.54	1.82	5.80	.51	2.32	1.16	1.03	3.75	3.21	2.232
October	4.29	2.87	5.30	12.51	1.58	4.35	8.33	6.70	3.10	3.68	5.271
November ..	5.10	6.93	2.89	1.85	3.71	6.25	5.56	3.83	3.76	1.78	4.166
December ..	6.65	7.11	4.91	2.14	3.41	1.58	5.29	6.65	3.42	6.48	4.764
TOTALS ..	47.79	38.37	39.16	59.55	32.43	39.59	55.82	50.30	46.00	42.35	45.136

H. H. H.

Not Reported from Aug. 1905 to 1906.

RAINFALL AT *Bradford Do Park*

Lat. Lon. County of *York W.R. Central*

Rain Gauge, by Observer *J. Watson Esq. C.E.*

Cause - Acre 9 New Gauge

Diameter ..	5											
Height	1 0											
Altitude ..	811 ft											
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.	
January ..	5.09	3.44	2.58	4.33	4.07	1.86	7.66	1.92	3.77	2.85	3757	
February ..	4.48	1.89	1.58	4.84	4.24	2.39	2.88	3.23	3.57	3.12	3222	
March ....	.91	4.23	2.21	6.09	1.94	4.32	3.72	3.51	4.49	2.53	3395	
April	2.24	1.97	1.82	2.20	1.76	2.60	1.89	3.00	3.22	3.64	2434	
May	1.55	1.38	2.55	4.46	2.81	.87	4.12	3.39	3.04	2.58	2675	
June	3.42	.77	1.82	1.32	1.10	2.79	1.79	6.45	2.25	2.59	2433	
July	2.28	1.61	3.10	5.61	1.04	1.77	2.92	2.68	4.57	3.79	2937	
August	6.22	1.34	4.78	4.47	3.81	5.23	5.95	3.13	3.32	2.95	4120	
September ..	.86	1.24	1.42	5.45	.44	1.92	.96	.83	3.30	3.05	1947	
October	3.58	2.37	4.46	11.66	1.37	3.91	7.33	5.54	2.76	3.34	4632	
November ..	4.32	6.40	2.44	1.57	3.18	5.44	4.82	3.14	3.31	1.63	3625	
December ..	5.63	6.12	4.32	1.86	2.94	1.33	4.62	5.55	2.91	5.77	4105	
TOTALS ..	40.58	32.76	33.08	53.86	28.70	34.43	48.66	42.37	40.54	37.84	89.282	

N.B. Corrected from Survey as 5' low.

Hick

RAINFALL at Bradford Dock Park Reservoir No 7a

County of W. Yorkshire Observer W. J. Watson Esq C.E.
 River Basin Ause-Ause 9 L. Mitchell Esq. C.E.
 Rain Gauge, by _____

Old Gauge

Diameter ...	8										
Height	10										
Altitude ...	810 ft										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	6.57	1.62	6.16	5.45	3.79	6.79	4.46	3.07	3.74	6.02	
February ...	5.21	5.59	2.72	1.94	4.02	5.74	6.25	.87	7.12	1.74	
March .....	.89	2.39	5.93	6.08	5.19	.95	4.93	3.63	2.32	5.07	
April	3.68	2.08	1.05	4.36	2.09	1.79	3.01	2.12	1.09	2.12	
May	2.84	1.24	3.49	3.57	1.63	2.14	2.74	2.21	4.32	2.68	
June	2.58	4.07	7.13	2.04	2.70	.62	2.14	2.27	1.68	1.19	
July	3.93	.36	6.00	.95	3.19	5.28	2.30	1.75	5.14	2.70	
August	6.31	2.53	6.98	1.33	2.48	6.74	2.67	6.62	2.26	3.05	
September ..	.20	3.62	2.03	1.83	2.42	.67	2.15	1.61	10.60	1.96	
October ...	4.00	4.94	5.03	2.69	2.61	2.14	8.74	8.28	2.62	2.51	
November ..	5.45	5.06	4.17	5.07	6.84	2.97	4.64	5.07	2.04	4.17	
December ...	5.37	6.35	5.62	3.32	8.24	9.20	3.77	2.41	7.87	7.16	
TOTALS ...	47.03	39.85	56.31	38.63	45.39	45.03	47.80	39.91	50.80	40.75	45.150

N.B. Directed from Surveyor E. W. Lister.

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

RAINFALL at Bradford Dock Reservoir No. 7County of W YorkshreObserver late J. Watson Esq. C.E.River Basin Churn. Ave 9Shutell by C.E.

Rain Gauge, by _____

New Gauge

Diameter ...	5										
Height	1	0									
Altitude ...	811	ft									
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	6.22	1.14	4.27	5.00	3.11	6.53	4.19	2.76	3.31	5.96	
February ...	4.70	3.69	2.56	1.66	3.83	5.42	5.96	.78	6.72	1.72	
March .....	.80	1.76	5.39	5.68	4.56	.83	4.59	3.36	2.13	5.43	
April	3.38	1.33	.89	4.12	1.92	1.72	2.73	1.93	.93	2.02	
May	2.50	.87	3.17	3.28	1.45	1.99	2.54	2.08	4.05	2.71	
June	2.31	2.28	6.58	1.93	2.56	.59	1.97	2.07	1.49	1.21	
July	3.47	.30	5.75	.88	3.03	5.05	2.12	1.64	4.86	2.76	
August	5.80	1.93	6.34	1.28	2.40	6.46	2.58	6.28	2.03	2.98	
September ..	.20	2.96	1.88	1.75	2.21	.63	1.99	1.46	10.04	1.82	
October ...	2.78	3.10	4.76	2.40	2.45	2.00	8.42	7.86	2.31	3.49	
November ...	4.35	3.16	3.70	4.62	6.49	2.85	4.38	4.73	1.67	4.10	
December ...	4.21	4.15	5.24	2.96	8.12	8.94	3.52	2.18	7.38	7.47	
TOTALS ...	40.72	26.67	50.53	35.56	42.13	43.01	44.99	37.13	46.92	40.67	

1911 not printed - low (3500) rough estimate 9/12

NA. Expected from Survey as 5' low.

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

RAINFALL at Bradford (Dee Park Reservoir)

County of West RidingObserver Bradford Corpn. W.W.River Basin Ouse-Aire-9.W. Newlands Esq. C.E.Type of Gauge SnowdonThe Waterworks Engineer.* Annual Average 4.67 in. based on 25 years obs. un-weighted. Period of average 1881-1905 Ref A.V.S.

660554/26

Diameter	5.											
Height	1.0.											
Altitude	760.			756				754				
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942
January	3.88	4.29	2.61	3.95	2.09	5.42	5.33	6.31	6.86	2.80	4.04	
February	4.65	4.40	4.35	3.33	6.68	3.24	7.47	1.93	4.86	2.20	36.16	
March	4.8	2.30	2.67	3.65	2.26	3.05	3.63	1.90	5.28	3.07	25.29	
April	3.95	4.21	1.73	3.02	5.60	2.02	2.87	1.46	1.72	3.52	29.10	
May	4.34	4.85	3.04	2.61	1.94	1.50	3.13	4.31	1.31	1.65	26.68	
June	5.95	1.75	2.09	2.54	3.92	4.61	2.93	4.45	2.95	1.47	30.96	
July	(5.00)	4.19	2.46	2.06	1.32	4.57	3.03	4.45	5.20	3.05	35.93	
August	4.87	1.80	0.87	2.70	1.67	2.69	2.22	5.23	2.83	1.14	26.02	
September	4.21	2.65	2.15	2.06	6.70	4.60	1.56	1.84	1.55	3.69	33.01	
October	(3.00)	6.87	5.85	4.18	9.32	4.34	3.06	9.59	3.48	4.80	54.29	
November	8.98	2.95	3.78	2.24	7.49	5.95	2.34	6.19	6.56	7.13	53.61	
December	2.20	1.86	0.78	6.71	3.86	4.58	2.89	4.87	2.85	3.23	33.83	
TOTALS	(51.51)	38.62	32.68	36.05	51.85	47.07	40.46	50.88	44.05	35.75	428.92	

1931. July + Oct. estimated by surrounding stations.

Inspected June 1934:- Exposure seems satisfactory. Recommended that the gauge be moved to a better site to the east of the present position some 8 yds from the wall to ensure reliability of the readings. Recommended that gauge be replaced by one of daily (1/2) readings.

1934. Gauge moved to selected site to the east of old gauge + some 8 yds. from the wall 1.8.34. A new M.O. gauge replaced the old g. on this date.

12.12.38. Gauge moved 15 yds W.

* Rejected from Survey.

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 Bradford (Doe Park Reservoir) Station No. TF 3272 41County of West Riding Observer The Watkinson EngineerRiver Basin Ouse-AireType of Gauge SnowdonAnnual Average in. based on years obs. un-weighted. Period of average 1881-1915 Ref.File No. 660554/26

Diameter	5"		075	247							
Height	1' 0"			1							
Altitude	754'			41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means Totals
January	3.15	3.74	5.81	6.82	4.10	4.64	3.72	10.21	2.22	2.77	47.18
February	5.03	1.55	2.88	2.08	4.78	6.27	3.55	3.71	3.10	6.88	39.83
March	4.86	3.14	1.30	3.0	1.09	1.67	7.57	1.81	1.03	2.15	24.92
April	2.90	2.31	2.28	3.26	2.51	1.65	4.09	2.87	4.21	3.94	30.02
May	2.83	4.69	2.94	2.19	3.83	2.04	4.12	1.31	2.63	2.61	29.19
June	1.53	1.37	3.34	2.57	3.13	2.89	2.93	4.21	6.0	98	22.55
July	1.47	2.85	2.17	4.31	1.99	3.98	2.01	1.01	3.87	3.96	27.62
August	6.09	4.04	4.52	3.25	5.32	6.54	4.6	4.05	4.74	5.91	44.92
September	4.8	2.43	4.83	6.14	2.33	7.58	2.17	1.89	1.04	5.88	34.83
October	4.56	5.25	2.36	4.61	6.68	1.32	1.17	1.49	4.38	2.63	34.45
November	3.65	1.76	3.40	7.21	6.3	6.77	5.74	1.73	6.79	5.28	42.96
December	2.18	3.12	2.66	4.83	2.64	3.50	4.31	4.58	7.82	2.58	38.22
TOTALS	37.73 D	36.31 D	38.49 D	47.57 D	39.03 D	48.85 D	41.84 D	38.87 D	42.43 D	45.57 D	416.69

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.

51

" " 42.58 " " 22 " " within 1934-57 " " 1916-1950
File No. 66084/26 G22802/58

Insp. Mr. O'Karo 23/9/58 *by sound. O'impact to NW otherwise satisfactory. by sound.*

(62) Wt. 13072-1350 10M 6/50 T.S. 841