

RAINFALL AT *Shipton Upper Barden*

70

Lat.

Lon.

County of *York W.R.*

Rain Gauge, by

Observer *A. R. Binnie Esq C.E.*

(21)

Diameter ...							5	.	.	.	
Height ...							1	.	.	.	
Altitude ...							1250	.	.	.	
Year	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January						#	1.85	5.36	6.32	1.08	
February. . .							4.95	3.38	1.73	2.70	
March.....							4.19	3.79	2.16	1.96	
April							3.06	3.11	2.31	2.08	
May							1.19	2.73	5.68	1.67	
June							2.32	1.69	3.63	5.17	
July.....							3.73	6.65	1.29	5.91	
August							3.09	5.51	6.51	7.01	
September ..							4.82	3.45	4.88	2.06	
October							2.99	6.19	4.13	2.65	
November ..							3.76	5.89	3.39	1.52	
December ..							6.84	3.79	1.79	1.35	
TOTALS ..							42.79	51.54	43.82	35.16	

RAINFALL AT Skipton, Upper Res. Tarden

80

Lat. _____

Lon. _____

County of York

Rain Gauge, by _____

Observer. A. P. Binnie, Esq., C.E.

Cause - Wharf 10. No 21.

Diameter	5											
Height	1.0											
Altitude	1250											
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January	1.49	.54	3.69	4.99	5.60	2.43	4.87	2.33	1.77	2.03	2.974	
February	3.01	5.73	2.94	2.18	2.86	2.05	1.29	1.51	1.07	2.16	2.480	
March	2.28	4.83	5.14	.57	1.93	1.90	4.76	1.39	2.99	3.32	2.911	
April	3.13	1.77	4.72	2.87	1.89	1.45	3.42	1.97	2.79	2.54	2.655	
May	2.50	3.62	1.77	.81	2.50	2.20	4.77	2.37	1.07	2.24	2.385	
June	5.45	2.22	5.44	2.90	.36	2.98	1.49	.18	2.28	.77	2.407	
July	6.65	5.18	5.21	4.37	6.45	1.57	3.88	1.88	6.08	3.74	4.501	
August	2.24	6.61	3.87	3.02	1.75	1.23	2.27	2.12	4.78	7.78	3.567	
September...	4.26	3.11	2.83	6.44	2.73	4.22	3.66	7.17	1.41	1.73	3.764	
October	3.11	4.28	4.83	6.18	3.46	5.16	5.55	2.76	1.35	4.68	4.136	
November...	5.28	5.17	5.71	3.32	1.71	2.58	3.90	3.73	8.26	1.83	4.149	
December ...	6.82	3.44	3.84	3.08	5.47	1.60	4.41	2.50	2.17	1.72	3.502	
TOTALS	46.22	46.50	50.02	40.76	36.71	29.37	44.27	29.91	36.02	34.54	39.431	

Rejected from Survey : 4" too Low

RAINFALL AT *Skipton Upper Reservoir Barden*

Lat. _____

Lon. _____

County of _____

York W.R.

Rain Gauge, by _____

Observer _____

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

Cuse - W. Laife 10²¹

Diameter	5											
Height	1	0										
Altitude	1250	ft										
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January	3.18	2.26	2.93	1.69	4.56	4.30	2.68	2.51	3.24	5.75	3.810	
February ....	.72	.49	2.44	5.59	5.99	1.08	1.85	3.22	3.47	2.42	2.727	
March	4.21	1.78	1.69	1.30	3.62	3.46	5.18	5.08	2.54	2.23	3.109	
April	1.33	1.83	2.49	1.45	2.52	2.30	2.43	2.48	3.74	3.79	2.436	
May	2.24	1.97	4.47	2.83	2.47	.74	.61	2.07	3.17	4.36	2.493	
June	3.98	1.20	4.60	3.53	3.19	2.34	3.02	4.26	3.19	1.98	3.129	
July	3.74	4.09	2.75	4.97	3.69	5.83	3.58	1.94	1.43	3.23	3.525	
August	7.01	6.42	6.14	4.75	4.04	3.87	2.03	5.39	5.24	2.68	4.757	
September....	2.36	2.39	3.57	4.22	.70	2.10	5.83	4.28	1.01	5.86	3.232	
October	2.73	4.00	8.19	4.53	4.63	5.42	4.29	2.27	6.32	3.28	4.566	
November....	4.46	4.31	2.35	2.56	2.94	3.20	1.33	3.21	2.67	2.47	2.950	
December	1.05	5.76	1.81	3.99	3.54	4.02	4.96	4.40	4.59	4.18	3.830	
TOTALS	37.01	36.50	43.43	41.41	41.89	38.66	37.79	41.11	40.61	42.23	40.064	

1880 -

Rejected from Survey : 4" too low

RAINFALL AT *Upper Barden Reservoir*

Lat.

Lon.

County of *York Wb. Northern*

Rain Gauge, by

Observer *J. Watson Esq. Cr.*

Shape - 10.

Diameter ..	5										
Height	10										
Altitude ..	1250 ft										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	4.58	2.94	2.73	4.16	3.60	1.82	5.10	1.93	3.91	2.03	3280
February ..	5.03	2.04	1.87	4.33	3.46	1.98	2.71	2.13	3.14	3.06	2975
March	1.02	3.08	2.76	5.55	2.34	3.32	3.16	3.68	4.14	4.11	3316
April	2.28	2.84	1.95	2.10	3.31	3.45	1.58	2.71	2.92	3.63	2677
May	1.65	1.48	2.94	3.23	4.16	.71	5.16	3.88	3.17	3.00	2938
June	4.05	1.47	1.60	2.09	2.45	2.79	2.16	6.45	5.71	2.97	3174
July	3.53	2.31	3.58	4.92	1.97	1.53	2.23	2.92	5.64	5.72	3435
August	6.51	3.39	2.78	4.82	4.12	4.40	4.70	4.12	3.62	3.53	4199
September ..	1.46	2.50	1.99	4.48	1.61	3.45	.98	.88	4.79	3.95	2609
October	5.80	2.83	3.91	9.93	1.62	2.75	6.16	6.11	2.58	3.89	4558
November ..	5.10	5.27	3.01	2.80	3.86	4.58	4.67	2.63	3.10	1.93	3695
December ..	5.04	5.16	3.35	2.43	3.20	1.05	3.18	6.14	3.42	5.64	3861
TOTALS ..	46.05	35.31	32.47	50.84	35.70	31.83	41.79	43.58	46.14	43.46	40.71

Rejected from Survey: 14. too low.

Hubs

062 234

10 3335

RAINFALL at

Barden Reservoir Upper No. 21

County of W. R. Yorkshire

Observer ^{late} J. Watson Esq. Ch.

River Basin Ouse - Wharfe 10

L. Mitchell Esq. Ch.

Rain Gauge, by

Diameter ...	5										
Height	1 0										
Altitude ...	1250 N										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	6.10	1.15	4.69	4.30	2.84	5.63	4.16	3.48	3.51	4.57	
February ...	3.69	4.34	2.31	1.63	2.62	4.61	5.16	1.25	6.21	1.44	
March .....	.71	2.63	4.68	4.77	4.70	1.78	2.99	2.79	1.72	4.39	
April	2.67	2.27	1.02	3.39	.78	1.96	2.69	2.07	.90	2.00	
May	2.11	1.04	2.42	3.28	2.10	1.78	2.83	2.06	1.61	1.58	
June	3.02	2.57	6.95	2.39	2.88	.92	2.78	2.23	1.83	1.19	
July	3.36	.88	4.72	.91	3.10	4.02	3.03	1.67	5.34	3.21	
August	5.73	2.63	6.04	2.06	2.79	2.81	4.20	8.02	4.34	2.97	
September ..	.43	3.61	2.31	1.69	2.23	.76	2.39	2.46	10.27	1.85	
October ...	3.39	3.12	4.56	1.76	2.73	1.26	9.25	5.07	3.25	5.08	
November ..	4.25	3.33	3.08	3.88	5.32	1.99	3.76	3.92	2.13	3.18	
December ...	4.05	5.41	4.57	2.76	6.54	6.27	3.30	2.95	7.81	5.69	
TOTALS ...	39.51	32.88	47.26	32.82	38.63	34.80	46.64	37.98	48.62	35.15	

Rejected from Survey: H. too low

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

RAINFALL at Upper Barden ReservoirCounty of N. YorksObserver L. Mitchell Esq. C.E.River Basin Cuse-Wharfe 10Engl. Bradford

Spout

Bradford

Rain Gauge, by

W. Newlands, Esq. C.E. (1930)5.00
5.00
5.00Q. in good position

Diameter ...	5"											
Height	1	0										
Altitude ...	1250			1170								
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	Mean
January ...	4.84	6.91	3.77	3.00	3.09	4.21	4.50	4.60	8.98	1.89	6.67	
February ...	3.36	4.44	4.53	5.48	1.09	5.75	4.70	1.68	4.76	.90	.81	
March	3.06	2.80	2.94	2.23	1.72	1.28	2.26	3.25	3.30	.43	2.45	
April	4.35	1.14	3.22	2.88	2.10	3.47	1.80	4.50	1.10	1.97	3.22	
May	4.06	1.72	1.12	3.86	6.20	5.19	4.40	1.80	1.37	2.22	1.98	
June	2.38	.26	2.48	.96	2.33	.09	3.50	3.51	5.74	1.60	1.94	
July	6.75	2.72	5.40	3.86	5.04	1.69	3.65	5.73	2.21	3.16	5.16	
August	2.87	5.41	4.06	5.63	5.84	5.98	4.95	7.40	5.92	4.84	5.20	
September...	1.83	2.66	4.30	4.96	4.65	3.61	3.20	6.07	.73	1.58	4.11	
October	3.03	3.27	.71	5.80	4.47	4.85	4.65	4.92	5.88	6.43	5.29	
November...	2.85	2.94	2.25	5.03	3.70	2.30	7.30	4.73	5.50	6.22	5.03	
December...	3.97	6.20	3.53	4.02	4.18	3.95	2.30	2.22	2.83	7.29	3.34	
TOTALS...	43.35	36.47	38.31	47.71	44.41	42.37	47.21	50.41	48.32	38.53	45.20	

Inspected 25.5.10.22. Q. in open moor exposed to S. & S.W.

Suggested putting below dam at one end near house, in sheltered position free from snow drifts, which should give good results.

S. April 1923, 100 yds away to South.

Rejected from Survey: H. too low

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 from gauge	Parish Church.	Distance from gauge	Direction from gauge

RAINFALL at Upper Barden ReservoirCounty of West RidingObserver Bradford Corpn. W.W.River Basin Ouse - Wharfe - 10W Newlands Esq. C.E.Type of Gauge SnowdonThe Engineer, Bradford W.W.

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

660554/26

Diameter	5.											
Height	1.0.											
Altitude	1170.				1163 1163							
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	3.62	4.68	2.68	3.57	2.95	5.19	5.03	9.27	7.09	(2.52)		
February	5.41	.31	4.47	.27	9.54	2.89	6.79	3.25	5.31	(2.39)		
March	.56	3.06	2.38	3.05	2.16	2.56	3.81	2.73	2.91	3.72		
April	3.85	4.09	2.40	3.46	4.27	1.58	4.03	1.24	2.29	3.07		
May	2.77	4.60	2.46	2.71	1.24	.94	3.19	3.95	.98	1.89		
June	7.31	.91	3.52	2.88	4.43	4.61	3.18	5.31	4.37	.72		
July	4.76	6.48	2.78	2.17	2.31	5.88	3.29	4.77	7.81	5.09		
August	4.81	1.90	1.21	4.11	1.91	3.09	2.30	6.11	1.76	3.02		
September	3.55	5.34	2.30	3.41	8.86	3.52	2.10	1.80	1.53	5.69		
October	2.27	6.56	3.61	6.13	10.83	4.80	2.08	12.42	2.78	4.34		
November	6.84	3.52	2.75	1.97	6.19	6.22	1.44	6.63	7.86	6.63		
December	2.49	1.69	0.76	6.97	2.48	3.38	2.69	6.63	4.04	5.63		
TOTALS	48.74	43.14	31.32	40.70	57.22	46.66	39.93	64.11	43.75	44.71		

Impeded June 1934: - Recommended gauge bear up in site below dam, possibly 100ft (better) below present level.

4y. made to new site (as recommended) below the dam and about 100' lower. 1/ VIII 24

Continuation records.

1940. In solid operation.

Rejected from survey as it too low. Letter 16/8/33Position 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

Station No. T.F. 3335

RAINFALL at Upper Barden Reservoir

41

County of West Riding Observer The Engineer

River Basin Ouse - Wharfe - 10

Bradford NW

Type of Gauge Snotman?

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

File No. 660554/24

Diameter	5"		162	234							
Height	1' 0"			1							
Altitude	1164			41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	4.00	5.46	5.76	7.44	5.00	5.37	5.10	9.13	(2.13)	3.89	
February	4.54	2.23	4.26	3.11	6.28	6.44	5.53	3.74	3.57	7.69	
March	4.52	3.23	1.93	8.4	2.27	1.54	7.09	2.37	1.87	2.02	
April	2.52	1.67	3.07	4.11	3.94	2.17	5.15	2.87	3.24	4.58	
May	2.06	3.80	3.51	2.29	4.37	2.48	3.79	1.79	3.45	2.09	
June	.69	1.27	5.18	4.11	4.91	3.27	3.87	4.53	.60	3.20	
July	2.09	5.12	2.96	4.12	3.17	5.07	3.81	1.22	3.40	3.90	
August	7.71	4.65	6.49	2.93	4.54	8.62	.37	4.91	3.55	6.70	
September	1.84	3.26	5.27	7.84	4.10	8.06	2.76	3.17	.80	6.22	
October	4.42	6.21	3.63	5.14	7.87	1.90	1.58	2.73	5.61	2.60	
November	3.45	1.71	3.57	9.47	.87	6.78	7.63	2.64	6.92	4.30	
December	3.24	4.77	2.79	5.24	3.18	3.84	4.11	2.87	8.72	2.43	
TOTALS	43.13 11	43.38 M	48.42 M	56.64 M	50.50 M	55.54 M	50.79 M	41.97 M	43.86 M	56.29 M	

941 Jan. total est'd. from map.

40004

40004

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

Station No. 2235 *71.46*RAINFALL at Upper Barden Reservoir

51

County of West Riding - Yorks Observer J.H. EngineerRiver Basin Dune - Wharfe - 10 Bradford 10.10.Type of Gauge Standard (1674 in. map)Annual Average 50.00 in. based on 23 years obs. un-recited. Period of average 1916-50 Ref. 5
File No. 614576 E. 2.2802/58

Diameter ...	5"										
Height ...	1'0"										
Altitude ...	1164'										
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	3.32	4.51	1.98	3.91	2.95	5.57	6.52	4.53	4.08	6.99	
February ...	3.45	1.38	4.14	3.90	2.86	2.35	3.91	10.12	.95	4.46	
March ...	3.68	1.96	1.55	3.06	2.46	2.84	5.08	2.36	2.26	2.20	
April ...	1.50	1.68	3.31	1.08	2.39	2.23	.53	1.49	3.62	3.12	
May ...	2.46	1.42	2.19	3.29	4.73	2.36	1.45	5.91	.81	1.91	
June ...	.87	2.52	3.34	5.12	3.58	2.68	1.94	6.31	2.65	1.85	
July ...	2.04	2.10	6.05	6.58	1.18	5.56	5.25	4.22	2.79	9.72	
August ...	3.42	6.72	6.03	9.09	1.13	12.09	8.04	5.32	.64	4.17	
September ...	2.34	4.23	4.85	5.85	3.75	5.44	6.72	5.40	.35	3.34	
October ...	.82	4.29	2.65	10.66	3.60	2.93	7.26	4.28	5.06	5.13	
November ...	5.86	2.81	6.18	7.05	2.60	1.77	2.55	1.67	5.46	8.47	
December ...	6.20	4.23	2.66	9.16	7.95	5.89	5.33	5.70	8.71	6.04	
TOTALS ...	35.96	37.85	44.93	68.45	39.18	51.71	54.58	57.31	37.38	57.40	
	n.p.	n.p.	M	M	M	M	M	M	M	M	

1951: n.p. low.

Thp IV at Barden Reservoir gauge completely washed by rainwater 4/51 - 6/52 inches. Measure inaccurate.

New gauge to be supplied set up in same state (gauge & tented see 3334).

1952: n.p. low. + poor inspection report.

Insp. Mr. O'Kane 25.9.52. Some form of protection required from sheep. Failure of gate of ditch & fence. Rain to be made correct. (Measure 4" measure).

Position of Station on Ordnance One-Inch map: No. of Map 96 National Grid Reference 614576

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

Summary of Earlier Records from 10-year Sheets:

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