

## RAINFALL AT Skipton Upper Barden No.

70

Lat.

Long.

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	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	2.81	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. Bardean

Lat.

Lon.

County of Yorks

Rain Gauge, by

Observer

A. R. Binnie, Esq., C.E.

Case - Wafer 10 No 21.

Diameter .....	5										
Height .....	1.0										
Altitude .....	250 ft										
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	2.85	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	3.05	5.47	1.60	4.44	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

Reputed 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.

Ouse Water 10<sup>ft</sup>

Diameter ....	5										
Height ....	10										
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	2.810
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	2.136
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	3.52	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	4.754
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 Parden Reservoir

Lat.

Lon.

County of York wth. Northam

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

Hub

Rejected from Survey: 4° too low.

062 234

10 3335

RAINFALL at Barden Reservoir Upper No. 2County of W.R. YorkshireObserver late J. Watson Esq. C.B.River Basin Osse - Wharfe 10L. Mitchell Esq. C.B.

Rain Gauge, by \_\_\_\_\_

Diameter ...	5											
Height .....	1 0											
Altitude ...	1250 ft											
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	3.00		
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	.93	2.78	2.23	1.83	1.19		
July .....	3.36	.88	4.73	.91	3.10	1.02	3.03	1.67	5.34	3.21		
August .....	5.73	2.63	6.04	2.06	2.79	2.91	4.80	8.03	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	5.07		
November ..	4.25	3.33	3.08	3.88	5.32	1.99	3.76	3.92	2.13	5.18		
December ...	4.05	5.41	4.57	2.76	6.54	6.27	3.30	2.95	7.51	5.69		
TOTALS ...	39.51	32.88	47.36	32.82	38.63	34.80	46.64	37.98	48.62	55.15		

Rejected from Survey: H\* too low

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

## RAINFALL at Upper Barden Reservoir

County of N. R. Yorkshire

Observer L. Mitchell Esq. C.E.

River Basin Guse-Wharfe 10

Lengt Bradford

Ground  
Brodfor Rain Gauge, by

10. Newlands, Eq. &amp; P. (1930)

5.00 }  
5.00 }  
5.00 }  
L. in good equitation

Diameter ...	5"										
Height .....	1	0									
Altitude ...	1250		170								
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 Means
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	2.6	2.48	1.96	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	3.98	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	3.50	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	47.70	44.41	42.37	47.21	50.41	48.32	38.53	45.20

Inspected 8.10.22. L. in open moor exposed to S. + SW.

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

5 miles April 1923, 100 yds away to South.

Reflected from Survey: 4" 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	Parish Church.	Distance from gauge	

## RAINFALL at Upper Barden Reservoir

County of West Riding

Observer Bradford Corporation W.W.

River Basin Ouse - Wharfe 10

W. Newlands Esq. C.E.

Type of Gauge Snowdon

The Engineer, Bradford W.W.

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

660554/26

Diameter	5'												
Height	10.												
Altitude	1170.				1163 <del>1000</del>								
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means		
January	3.62	4.68	2.68	3.57	2.46	5.19	5.03	9.27	7.09	(2.52)			
February	5.41	3.81	4.47	2.27	4.54	2.89	6.79	3.26	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	1.94	3.19	3.95	.98	1.89			
June	7.81	.91	3.52	2.88	4.48	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	2.20	3.41	8.86	3.52	2.10	1.80	1.53	5.69			
October	2.27	6.56	3.61	6.13	10.80	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	5.38	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	45.75	44.71			

Inspected June 1934.—Recommended gauge best up in site below dam [possibly 100ft (metre) below present level].  
 by man to new site (as recommended) below the dam end about 100 ft lower. 1/VIII/24  
 Continuation record.  
 1940. In which appurtenant.

Rejected from survey as 12" too low. Letter 16/833

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

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

Station No. T.F. 3335

41

RAINFALL at Upper Bartram Reservoir /

County of West Riding Observer The Engineer

River Basin Ouse - Wharfe 10 Bradford WW

Type of Gauge Standard ?

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)	3.59	
February	4.57	2.23	4.26	3.11	6.28	6.44	5.53	3.74	3.57	7.69	
March	4.62	3.23	1.93	1.84	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	4.55	
May	2.05	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	3.81	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	1.87	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	4.80	
December	3.24	4.77	2.79	5.24	3.18	3.84	4.11	2.87	8.72	3.43	
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, 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

BRITISH RAINFALL ORGANIZATION

Station No. 3335

T.F. 46

51

## RAINFALL at Upper Barden Reservoir.

County of West Riding - Yorks.

Observer Mr. Engineer,

River Basin Dales - Wharfe - 10

Bradford W.W.

Type of Gauge Bradford (1624 m. w.s.p.)

Annual Average in. based on years obs. un-weighted. Period of average Ref. 1916-50  
" 50.00 " " 23 " within 1931-57 " " File No. 61284/26 E 22802/58

Diameter ...	5"		062	234							
Height ...	1' 0"				1						
Altitude ...	1164'				51						
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	2.96	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	12.49	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	5.26	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.

Surf IV affected by gauge completely washed by floods - 6/51 - 6/52 values. Measure inaccurate.

New gauge to be supplied &amp; set up in stone shaft (quarried) (stepped) see 3334).

1952. n.p. low. + poor inspection report  
Inspl. Mr. O'Kane 25.9.53 Some form of protection required from sheep. Top of junction of ditches a fence  
Row to be made circular. Height 4" measure.

Position of Station on Ordnance One-Inch map : No. of Map 96 National Grid Reference 414 016576

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

Summary of Earlier Records from 10-year Sheets :

Record D. or d		1910-19 13	1920-30 13	1931-40 13	1941-50 13	1951-60
		✓	✓	✓	✓	