

70

RAINFALL AT Bradford Leeshaw Reservoir.

Lat.

Lon.

County of

York W. R.

Rain Gauge, by

Observer

A. R. Binnie by C. E.

13

Diameter...											
Height...											
Altitude...											
Year...	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January...							# 1.53	6.91	5.65	1.05	
February...							5.35	5.27	1.85	3.74	
March...							6.11	5.04	4.03	2.19	
April...							3.21	3.06	2.15	2.62	
May...							9.2	3.20	4.19	.80	
June...							3.17	1.71	3.49	5.55	
July...							3.53	4.57	.75	2.07	
August...							3.88	5.70	5.75	4.00	
September...							4.81	4.08	5.85	1.00 (1.08)	
October...							2.74	5.98	5.25	3.22	
November...							4.71	6.68	3.51	1.49	
December...							8.33	5.97	2.06	3.56	
TOTALS...							48.29	58.17	44.53	32.5	

1879. Aug. Sept. estd. for Tyldes Water III. 1912

1879 Gauge tampered with in August & the amount estd for Sept is only for part of the month.

RAINFALL AT *Bradford, Leeshaw Reservoir* 80

Lat. _____

Lon. _____

 County of *Yorks*

Monthly Rain Gauge, by _____

 Observer *A. P. Binnie, Esq., C.E.*
Rise Air 9.
No 13.

Diameter	<i>5</i>											
Height	<i>1.0</i>											
Altitude	<i>875 ft</i>											
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January	<i>.62</i>	<i>.46</i>	<i>4.35</i>	<i>5.48</i>	<i>6.20</i>	<i>3.30</i>	<i>6.25</i>	<i>2.14</i>	<i>1.59</i>	<i>2.80</i>		
February	<i>4.99</i>	<i>5.58</i>	<i>4.36</i>	<i>2.73</i>	<i>3.40</i>	<i>3.21</i>	<i>2.06</i>	<i>.78</i>	<i>.63</i>	<i>2.74</i>		
March	<i>3.65</i>	<i>7.34</i>	<i>5.05</i>	<i>1.20</i>	<i>3.11</i>	<i>3.00</i>	<i>4.12</i>	<i>2.31</i>	<i>3.85</i>	<i>2.82</i>		
April	<i>2.37</i>	<i>1.92</i>	<i>5.86</i>	<i>2.74</i>	<i>1.50</i>	<i>2.20</i>	<i>3.34</i>	<i>1.08</i>	<i>3.28</i>	<i>3.41</i>		
May	<i>2.95</i>	<i>2.60</i>	<i>1.76</i>	<i>1.25</i>	<i>2.30</i>	<i>3.65</i>	<i>5.95</i>	<i>1.99</i>	<i>1.66</i>	<i>2.36</i>		
June	<i>4.93</i>	<i>2.65</i>	<i>5.35</i>	<i>2.25</i>	<i>.94</i>	<i>3.90</i>	<i>1.60</i>	<i>.29</i>	<i>2.55</i>	<i>.71</i>		
July	<i>4.90</i>	<i>4.95</i>	<i>2.50</i>	<i>2.55</i>	<i>4.95</i>	<i>1.70</i>	<i>5.20</i>	<i>2.24</i>	<i>6.50</i>	<i>3.10</i>		
August	<i>1.81</i>	<i>4.55</i>	<i>2.18</i>	<i>2.56</i>	<i>1.35</i>	<i>1.85</i>	<i>1.63</i>	<i>1.91</i>	<i>4.61</i>	<i>5.97</i>		
September....	<i>4.84</i>	<i>2.70</i>	<i>1.97</i>	<i>6.80</i>	<i>(3.00)</i>	<i>5.30</i>	<i>3.45</i>	<i>4.61</i>	<i>1.70</i>	<i>2.91</i>		
October	<i>4.53</i>	<i>4.70</i>	<i>4.10</i>	<i>6.20</i>	<i>3.05</i>	<i>7.45</i>	<i>5.58</i>	<i>3.23</i>	<i>2.35</i>	<i>6.15</i>		
November....	<i>4.46</i>	<i>5.75</i>	<i>7.56</i>	<i>5.85</i>	<i>1.35</i>	<i>3.62</i>	<i>3.45</i>	<i>3.45</i>	<i>11.61</i>	<i>1.62</i>		
December	<i>7.40</i>	<i>4.70</i>	<i>4.70</i>	<i>3.98</i>	<i>6.46</i>	<i>1.85</i>	<i>6.35</i>	<i>4.25</i>	<i>3.80</i>	<i>3.92</i>		
TOTALS	<i>47.50</i>	<i>47.90</i>	<i>49.76</i>	<i>44.59</i>	<i>57.61</i>	<i>41.03</i>	<i>48.97</i>	<i>28.28</i>	<i>44.13</i>	<i>38.51</i>	<i>(47.82)</i>	

1884 Sept. gauge broken.

RAINFALL AT *Bradford Leesham Reservoir*

Lat. _____

Lon. _____

County of _____

York W.R.

Onse Ave 9

Rain Gauge, by _____

Observer _____

*J. Webster Esq. Ch.
J. Watson Esq. C.R.*

Monthly

Diameter	5											
Height	10											
Altitude	875 ft											
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January	7.58	3.47	4.38	1.78	6.32	3.15	2.47	1.82	4.98	9.17	4.512	
February ....	.88	.72	3.00	6.76	8.57	.60	2.27	2.31	3.88	2.85	3.184	
March	4.85	2.98	.95	.73	4.48	3.72	7.24	6.70	2.85	2.90	3.740	
April	1.73	3.25	2.04	.93	2.59	3.18	2.98	3.94	3.75	4.05	2.844	
May	3.82	3.87	4.44	2.14	2.78	.50	.83	2.76	3.38	3.20	2.772	
June	4.61	1.90	4.10	2.95	4.01	2.12	4.06	4.18	3.40	2.05	2.338	
July	3.96	3.87	3.48	4.89	4.25	7.38	1.97	2.35	1.42	2.05	3.562	
August	6.51	8.18	4.72	4.53	5.28	5.25	2.79	5.45	5.75	1.92	5.038	
September...	2.16	3.75	3.74	4.94	.52	2.23	7.52	5.25	1.31	7.40	3.852	
October	3.75	5.00	8.99	5.48	6.43	5.70	5.70	2.20	6.50	3.80	5.355	
November...	7.79	5.51	2.95	4.50	3.59	6.00	1.43	5.22	3.67	2.50	4.316	
December ....	.74	10.28	2.60	5.33	4.54	5.82	6.20	8.00	7.50	3.78	5.479	
TOTALS ...	48.38	52.78	45.39	44.96	53.36	45.65	45.46	50.18	48.39	45.67	48.022	

RAINFALL AT

Bradford Leeshaw Reservoir

Lat.

Lon.

County of

York W.R. Central

Rain Gauge, by

Observer

J. Watson Esq CR

Dist. Aire 9

Diameter ..	5										
Height	10										
Altitude ..	875										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	6.70	3.45	4.35	5.80	5.86	3.14	8.80	2.43	4.71	3.40	4.864
February ..	4.75	1.90	1.65	7.70	6.45	4.00	4.15	4.05	3.31	3.85	4.181
March ....	.82	4.90	2.55	8.00	3.05	4.75	4.25	4.80	4.35	3.14	4.061
April	2.50	3.65	2.40	3.20	2.30	4.29	2.24	3.46	3.18	4.37	3.159
May	2.45	1.46	3.75	4.23	3.30	.84	3.90	3.54	2.77	2.84	2.908
June	4.50	1.70	1.60	1.72	2.12	3.40	1.73	7.47	2.56	2.26	2.906
July	1.70	2.27	4.10	5.15	3.35	2.50	2.57	2.99	4.86	6.24	3.573
August	5.10	3.40	4.00	5.80	6.10	3.37	4.35	4.54	3.85	3.60	4.411
September ..	1.70	1.25	2.30	6.90	1.40	2.83	1.63	.86	3.90	3.90	2.667
October	6.84	3.50	5.50	14.80	2.45	4.38	8.08	5.58	2.38	5.32	5.883
November ..	5.30	7.55	3.40	4.32	5.65	6.00	6.71	3.50	3.74	2.50	4.867
December ..	5.55	6.15	7.10	4.15	4.45	1.90	4.80	5.67	3.50	6.50	4.977
TOTALS ..	47.91	41.18	42.70	71.77	46.48	41.40	53.21	45.89	43.11	47.92	48.457

H. H. H.

RAINFALL at

Bradford Leecham Reservoir

103073
No. 15

County of W.R. Yorkshire

Observer

late J. Watson Esq. C.E.

River Basin Ouse. Aire 9

L. Mitchell Esq. C.E.

Rain Gauge, by

M

Diameter ...	5										
Height	1.0										
Altitude ...	875 ft										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1915-19 MEANS. Totals
January ...	7.10	2.74	5.78	5.40	4.55	8.20	5.98	2.95	3.88	5.85	18.66
February ...	6.91	6.70	2.62	3.00	4.81	6.82	6.42	.77	8.15	1.96	17.30
March	1.24	3.12	6.15	7.92	6.34	1.50	3.65	3.38	1.96	5.69	14.68
April	4.30	2.97	1.45	5.28	2.45	2.58	4.47	2.31	1.20	2.57	10.35
May	3.50	1.92	2.97	3.88	2.07	1.95	3.03	2.55	3.00	2.67	11.25
June	3.22	4.92	7.33	2.41	2.10	.60	3.20	2.50	2.28	1.60	9.58
July	4.40	.89	6.10	1.42	3.92	5.00	3.70	2.56	4.23	2.52	13.01
August	6.63	2.65	7.75	1.60	2.65	5.01	3.19	6.80	3.00	3.60	16.59
September ..	.42	3.72	2.56	1.08	3.00	1.77	2.94	2.45	12.80	1.97	19.86
October ...	4.66	4.75	5.65	2.40	2.70	2.02	7.57	8.40	3.80	2.70	22.17
November ..	6.62	6.10	4.85	6.62	8.50	2.46	5.48	6.65	2.80	4.83	19.46
December...	8.44	8.30	6.87	4.10	8.96	9.04	4.48	2.80	9.00	8.65	24.43
TOTALS ...	57.44	48.78	60.08	45.11	52.05	46.95	54.11	43.62	58.20	44.41	197.34

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

RAINFALL at Bradford Leeshow Reservoir N° 13.County of N. B. YorkshireObserver L. Mitchell Esq. B.E.River Basin Guse - Aire
9
SnowdonEmof BradfordBradford Rain Gauge, byW. Newlands, Esq. B.E. (1930)not much change capt. no bottom to inlet can.
NL tube loose.

Diameter ...	5"													
Height	10													
Altitude ...	875													
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS	1920-30 TOTALS		
January ...	4.95	9.80	5.25	6.27	3.72	6.57	6.45	5.38	13.23	2.24	8.37	72.23		
February ...	4.65	4.7	6.43	8.18	1.61	8.55	5.27	2.44	7.20	.73	1.43	46.96		
March	3.92	4.02	4.02	2.71	1.65	1.84	3.06	4.64	5.57	1.02	3.63	34.08		
April	6.29	1.75	4.23	4.46	2.54	4.14	2.74	3.47	1.32	1.52	4.26	36.72		
May	5.48	2.09	1.64	5.61	6.70	5.57	4.08	1.84	1.47	3.50	2.57	40.86		
June	2.18	1.8	2.71	1.27	2.61	.07	2.95	4.40	6.62	1.98	2.44	27.31		
July	7.52	2.67	5.69	5.16	4.94	2.14	3.30	3.13	1.56	2.91	7.44	46.46		
August	2.05	6.35	5.13	6.97	5.32	5.49	4.33	7.27	5.68	4.23	6.73	59.85		
September...	2.20	1.90	5.93	6.34	5.64	3.46	4.38	6.10	.75	1.72	5.16	42.88		
October	2.50	3.15	.88	6.46	5.35	6.68	4.30	5.86	6.73	6.15	6.31	54.37		
November...	3.50	2.61	2.61	8.20	4.02	2.96	8.56	6.16	8.65	9.37	7.39	64.03		
December...	4.80	8.29	5.77	5.21	7.16	5.79	3.06	1.84	5.50	12.70	4.75	62.67		
TOTALS...	50.04	43.28	50.29	66.84	51.26	53.86	52.48	52.53	60.08	47.97	60.48	589.11		

As inspected 6.10.22. Is in good position in open field with some shelter on all sides, least to N where land slopes down to reservoir but up again beyond.

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	Parish Church.	Distance from gauge	Direction

RAINFALL at Bradford (Leeshaw Res.)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 47.3 in. based on 35 years obs. un-weighted. Period of average 1891-1915 Ref. 3

66055426

Diameter	5.											
Height	1.0.											
Altitude	875.									850		
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1931-40 Means Totals	
January	6.08	5.91	3.70	5.57	2.80	6.41	6.39	7.88	7.15	(2.70)	54.57	
February	6.32	.27	5.23	.49	10.11	3.14	7.54	2.53	6.54	2.16	44.38	
March	.59	4.06	2.87	3.40	2.69	3.08	2.95	1.66	3.92	3.79	29.01	
April	4.32	5.15	2.24	2.89	4.37	1.75	3.10	.73	2.43	4.16	31.14	
May	3.38	4.50	2.62	3.32	.99	1.74	3.07	4.76	1.59	1.94	27.91	
June	6.62	1.35	2.67	2.69	4.47	4.37	2.61	5.30	3.97	.84	34.89	
July	5.62	4.73	3.44	3.06	2.36	4.33	2.97	4.95	7.16	4.79	43.41	
August	5.32	1.40	1.03	4.11	1.75	3.23	2.67	6.09	4.25	2.08	32.23	
September	4.52	7.13	2.12	3.02	8.09	5.07	1.79	2.42	2.01	5.00	41.17	
October	3.24	8.62	6.12	6.38	12.69	6.39	2.66	11.55	3.38	5.03	66.06	
November	9.36	4.16	2.80	2.57	7.82	7.03	2.38	8.22	8.37	8.39	61.10	
December	2.30	2.38	0.59	6.95	4.74	6.49	2.58	5.02	3.44	4.80	39.29	
TOTALS	57.67	49.66	35.73	44.45	62.88	53.03	40.76	61.11	54.21	45.68	506.18	

1940. Jan. covered for snow

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	Direction

RAINFALL at Bradford (Leeds Road) Station No. TF 3273 41
 County of West Riding Observer The Waterworks Engineer
 River Basin Ouse Aire
 Type of Gauge Standard

Annual Average 42.3 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. S

File No. 660554/24

Diameter	5"		074	⁹⁶⁴ 409							
Height	1' 0"			1							
Altitude	875	850		41				875			
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1941-50 Means Totals
January	(3.40)	5.05	7.03	8.31	4.34	5.68	4.68	10.96	3.04	3.67	56.16
February	6.82	1.86	3.83	2.44	6.35	8.04	3.32	4.01	4.30	7.38	48.35
March	4.48	3.36	1.54	4.49	1.73	1.67	7.41	2.20	1.64	3.10	27.62
April	2.92	2.45	2.79	3.91	2.84	1.67	4.29	3.51	5.22	4.94	34.54
May	2.83	4.20	3.59	3.71	4.52	1.96	3.26	1.07	2.93	2.52	30.59
June	4.7	1.21	4.63	3.33	4.49	3.17	3.12	5.52	.72	2.18	28.84
July	2.02	4.70	2.37	3.67	2.97	4.28	2.80	1.97	3.32	4.27	32.37
August	8.46	4.98	6.49	3.92	4.89	7.29	.31	4.86	2.82	6.74	50.76
September	6.3	3.35	4.77	7.93	3.19	8.09	2.97	3.38	1.34	8.48	43.98
October	6.13	8.36	2.89	5.10	7.13	1.24	1.48	2.34	5.44	2.62	43.73
November	3.89	1.99	4.18	8.11	.84	8.21	7.95	2.40	7.72	6.29	51.56
December	3.21	4.63	3.19	5.87	3.39	4.65	5.18	5.20	9.84	3.24	48.70
TOTALS	45.14 D	46.14 D	47.30 D	⁹ 56.79 D	46.68 D	55.96 D	46.77 D	47.42 D	48.33 D	56.68 D	497.20

1941 Jan. total amended by map

60004

440.52

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. 3273

T. 15 16

RAINFALL at Bradford (Leeshaw Res.)

51

County of West Riding - Yorks.

Observer

J. H. Matthews Langmuir,

River Basin Ouse - Aire - 9

Type of Gauge Looptan Bradford 253/61

Annual Average 47.2 in. based on 25 years obs. un-weighted. Period of average 1881-1915 Ref. S

51-11 " " " " " 1916-1950

File No. 1916-1950 46024/26 E 22802/58

Diameter ...	5"			964							
Height ...	1'0"			209							
Altitude ...	875'			51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means Total/60
January ...	6.01	6.58	1.90	4.06	2.70	6.57	5.28	5.30	4.21	7.14	49.75
February ...	5.00	1.95	2.67	3.55	2.82	1.96	4.15	8.82	.74	5.53	37.19
March ...	5.80	2.71	2.46	3.22	2.78	2.89	4.29	3.04	2.15	2.16	31.50
April ...	2.81	3.10	4.17	.71	2.05	3.62	.44	1.82	4.67	3.32	26.71
May ...	4.34	2.53	2.67	4.17	3.93	2.07	1.22	6.59	1.75	2.00	31.27
June ...	1.50	3.56	4.56	2.67	3.20	3.63	3.80	5.83	3.32	1.11	33.18
July ...	3.68	2.46	6.24	5.65	.91	5.86	5.30	4.39	3.36	6.52	44.37
August ...	4.77	6.88	6.80	9.50	1.57	10.37	6.32	4.95	1.36	4.69	57.11
September ...	3.43	5.03	6.01	7.34	2.67	4.93	6.47	4.77	.26	2.89	43.80
October ...	1.86	5.93	2.62	9.93	3.71	2.97	6.16	4.41	6.18	6.83	50.60
November ...	11.40	2.39	7.07	8.12	3.11	1.96	2.92	1.72	5.66	8.22	52.57
December ...	12.70	5.36	2.84	8.66	7.27	5.80	6.45	5.83	9.82	6.65	71.37
TOTALS ...	63.30	48.48	50.01	67.57	36.72	52.53	52.80	57.47	43.48	57.06	529.42
	D	D	D	D	D	D	D	D	D	D	

1950. Mr. O'Hare 23/9/58 letter can be to be updated by local or daily gauge used. Satisfactory info. by source.

Position of Station on Ordnance One-Inch map :

No. of Map 96

National Grid Reference SE (AA) 011351

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction 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 -31-34	✓	