

RAINFALL AT Bradford Thornton Moor

70

Lat.

Lon.

County of York WR

Rain Gauge, by

Observer A. R. Binnie Esq C.E.

Monthly Gauge.

10

Diameter											
Height5
Altitude											1001
Year	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January											#
February											5.51 4.69 2.86 3.60
March.....											5.55 4.25 2.96 2.14
April											3.31 4.03 2.16 2.66
May											1.16 3.65 5.72 1.70
June											3.43 2.09 3.28 5.76
July											3.75 5.36 1.55 6.14
August											4.36 6.48 7.59 5.35
September ..											6.01 4.50 5.90 2.48
October ...											3.25 6.78 5.05 3.23
November ..											6.60 7.30 2.86 1.87
December ..											9.56 5.24 1.97 3.22
TOTALS ..											54.12 60.96 47.50 38.60

RAINFALL AT Bradford Thornton Moor Res.

70

Lat.

Lon.

County of York W.R.

Rain Gauge, by

Observer A. R. Binnie Esq C.R.

8

Diameter....											
Height											
Altitude											
Year	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS,
January											
February											
March.....											
April											
May											
June											
July.....											
August											
September											
October											
November											
December											
TOTALS											
	50.82	60.16	50.50	48.41	46.68						

RAINFALL AT Bradford, Thornton Moor **80**

Lat.

Lon.

County of York W.C.

Rain Gauge, by

Observee U. R. Birnie, Esq., C. E.

RAINFALL AT Bradford, Thornton Major 80

Lat.

Lon.

County of

Monthly Rain Gauge, by

Yorks

Observer

A. R. Birnie, Esq., C.E.

Dose - Aire 9

Diameter	5										
Height	1.0										
Altitude	1196										
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January50	.45	+ .50	3.39	6.56	1.93	4.52		.96	.41	
February	4.34	4.50	+ .09	2.00	2.18	2.26	1.69		.26	.85	
March	3.86	3.41	4.74	.66	1.73	1.60	1.67		1.49	1.40	
April	2.33	1.11	4.46	2.09	.99	1.75	1.94		1.33	1.87	
May	2.79	2.64	1.65	.55	1.05	1.95	1.76		.15	1.19	
June	3.81	2.04	5.35	3.01	.79	1.84	1.27		.95	.51	
July	5.96	4.38	4.20	3.01	4.14	1.17	3.30		2.35	1.69	
August	1.92	4.01	1.49	1.03	.99	1.07	.70		1.32	2.20	
September....	4.56	1.65	1.18	3.94	1.99	4.43	1.68		.25	.53	
October.....	4.09	4.74	3.68	1.92	1.84	3.66	3.26		.53	1.43	
November....	5.52	4.03	6.08	3.42	1.36	2.89	1.23		1.85	.44	
December....	7.02	4.25	4.33	1.73	3.25	.97	2.94		.78	1.00	
TOTALS	46.70	37.21	45.78	26.75	26.87	25.32	25.95	3.5	12.22	13.52	

1881 Record imperfect

1882 Jan? Gauge tampered with amount computed

1888 Incorrect 1889 ditto

N.B. Recalcd from Survey as 20° low.

RAINFALL AT Bradford Thornton Moor Filters

Lat.

Lon.

County of

York

Rain Gauge, by

Observer

J Watson C.E.

Dose Air 9 No 10²

Diameter			5								
Height			1. -								
Altitude			1218 ft								
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January				1.17	5.32	4.06	2.14	2.08	3.90	7.40	
February				4.87	7.67	.78	2.11	4.11	3.99	2.48	
March				1.29	4.07	3.82	6.34	5.35	1.62	2.58	
April				1.05	2.81	3.29	2.56	3.23	3.95	3.49	
May				2.44	2.76	.80	.75	1.73	3.31	3.40	
June				2.81	4.21	2.42	5.23	4.61	3.52	2.53	
July				4.12	3.86	7.52	2.69	1.63	1.38	2.26	
August				3.20	4.76	5.61	2.43	4.12	4.91	1.89	
September				4	3.69	.86	1.89	8.00	4.52	1.08	6.97
October				8.68	4.65	7.20	4.68	5.80	1.97	7.27	3.52
November				2.56	3.63	3.12	5.95	1.96	4.52	2.88	2.34
December				2.60	5.02	3.93	5.49	5.90	6.22	5.49	3.44
TOTALS				37.94	50.57	46.31	45.91	44.09	43.30	42.30	

RAINFALL AT Bradford Thornton Moor Reservoir

Lat.

Len.

County of

York

Rain Gauge, by

No 10

Observer

Webster Eng cl

Diameter	5										
Height	1 0										
Altitude	1176	1350									
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS,
January	3.02	1.25	1.96								
February50	.26	1.23								
March	1.16	1.87	.64								
April75	.92	.75								
May	1.43	1.41	1.86								
June	1.15	.72	1.38								
July	1.00	1.06	1.54								
August	2.92	2.86	1.69								
September83	1.25	1.69								
October85	1.75	3.59								
November	2.31	1.93	1.18								
December65	5.48	1.24	X							
TOTALS	16.57	?	20.26	18.75							

1890 or 1 Incorrect, too small

1892 " "

N.B. Rejected from Survey as 20° low.

RAINFALL AT Bradford Thornton Moor

Lat.

Lon.

County of York W.R. Central

Rain Gauge, by

Observer. J. Watson Esq. C.E.

One Acre 9

Diameter ..	5										
Height ..	1.0										
Altitude ..	1218 ft										
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	5.46	3.27	3.28	3.80	3.93	1.50	6.46	1.91	2.90	2.62	3.513
February ..	5.66	1.99	1.71	4.41	4.61	1.47	2.85	2.57	2.86	2.09	3.022
March ..	1.11	3.57	2.09	5.42	2.65	2.91	2.72	3.91	4.49	3.63	3.250
April ..	2.51	3.10	2.14	2.19	2.63	2.89	1.91	2.88	3.44	4.39	2.808
May ..	2.21	1.46	3.27	4.02	3.51	.66	4.16	3.95	3.16	3.23	2.963
June ..	4.43	1.40	2.33	1.75	1.55	2.30	1.46	6.38	2.44	3.27	2.731
July ..	2.56	2.30	3.48	4.94	2.22	1.72	2.56	3.36	4.62	5.35	3.311
August ..	6.30	2.57	4.36	4.66	5.33	6.22	5.55	3.46	3.09	3.65	4.519
September ..	1.31	1.67	2.55	6.12	1.05	2.18	1.27	1.00	3.46	4.13	2.468
October ..	5.71	3.13	4.81	12.37	1.46	3.15	7.59	7.16	3.29	4.21	5.288
November ..	5.30	6.86	3.64	2.51	3.34	4.57	5.48	3.31	3.58	1.74	4.033
December ..	5.42	5.04	4.16	2.58	2.59	1.10	3.63	4.62	3.17	4.58	3.689
TOTALS ..	47.98	36.36	37.82	54.77	34.87	30.62	45.64	44.51	40.49	42.89	41.505

Hulse

not repeated from Aug

RAINFALL at Bradford Thornton Moor Filter

County of W.R. Yorkshire

Observer Mr Watson Esq C.E.

River Basin Quoos-Aire 9

Lritchell Esq C.E.

Rain Gauge, by

Diameter ...	5												
Height	1 0												
Altitude ...	1218												
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.		
January ...	5.50	2.08	5.17	4.95	4.47	6.19	4.68	2.29	2.73	5.22			
February ...	5.40	6.45	2.94	2.37	3.91	5.20	8.32	.92	6.94	1.43			
March	1.14	2.70	5.58	5.89	5.76	1.52	7.01	3.56	1.93	4.82			
April	3.47	2.23	1.23	4.46	2.14	1.78	3.39	2.10	.92	1.79			
May	2.83	1.42	3.79	3.82	1.85	2.25	2.76	1.77	3.79	2.37			
June	2.77	4.13	7.74	2.35	2.53	1.08	3.06	2.45	1.79	1.15			
July	4.28	.76	6.77	1.43	3.08	5.40	3.03	2.09	4.79	2.72			
August	5.56	2.58	7.62	1.52	2.86	5.75	2.78	6.23	2.40	3.07			
September ..	4.43	3.73	2.17	2.25	2.55	.89	2.60	1.80	9.79	1.65			
October ...	4.34	4.79	4.80	2.97	2.98	2.56	8.49	7.39	2.63	2.54			
November ..	4.80	4.95	3.60	5.45	6.47	3.02	4.65	4.85	1.96	3.52			
December ...	6.45	6.47	5.50	2.98	7.87	8.35	3.45	1.75	6.94	6.29			
TOTALS ...	46.97	41.59	57.01	40.44	46.47	44.02	54.22	37.20	46.60	36.07			

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

RAINFALL at Bradford Thornton Moor Filter

County of W. R. Yorkshire

Observer S. Mitchell Esq. C.E.

River Basin Case - Aire 9

Turf Bradford

Snowden

Bradford Rain Gauge, by

$$\begin{array}{c} 5.04 \\ 4.98 \\ 4.99 \end{array} \left\{ \begin{array}{l} \text{good condition} \\ \text{glass only - 30.} \end{array} \right.$$

W. Newlands, Esq. B.C. (1930.)

Diameter ...	5"										
Height	1 0										
Altitude ...	1218		1190					1190			
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.
January ...	4.55	8.20	4.14	4.06	3.56	5.75	4.70	4.01	10.72	2.34	7.93
February ...	4.12	3.7	5.00	7.28	1.46	7.72	3.55	1.85	6.87	.81	1.21
March	3.13	3.25	3.26	2.83	1.63	1.45	1.91	4.06	4.37	.89	4.31
April.....	3.32	1.48	3.65	3.60	2.78	2.96	1.88	2.91	1.64	1.53	3.66
May	3.78	2.05	1.17	5.26	5.74	4.72	3.45	1.34	2.19	2.48	2.15
June	2.59	14	2.30	1.15	2.81	.06	2.45	3.73	6.83	1.58	2.19
July	8.05	2.41	5.13	4.44	4.85	1.23	2.69	2.95	1.42	2.72	7.17
August	2.07	6.18	6.29	5.43	4.31	4.38	3.59	6.30	5.40	3.90	6.18
September...	1.81	1.80	5.07	5.60	4.82	3.64	2.90	4.65	.86	1.69	6.55
October.....	2.50	2.66	1.13	5.66	4.69	5.25	3.43	4.32	7.17	5.59	6.47
November...	2.94	2.73	2.30	7.17	3.54	2.12	6.42	4.72	8.41	8.85	6.49
December...	4.41	7.42	4.35	4.07	5.32	6.17	1.33	2.57	2.99	10.92	4.36
TOTALS...	47.27	38.69	43.79	(56.33)	45.51	45.35	38.60	40.41	58.87	43.30	58.67

Is. suspected 3. 6. 10. 22 situated near filter beds with considerable drop within 50 yds to NW + from E SW. New position chosen 10 yds W of water outlet in middle of field surrounded very small trees, the nearest would be 25 yds. Position not ideal but only fairly sheltered position available.

The gauge was moved April 1923, 250 yds away to S.E.

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 (Thornton Moor Filters)

County of West Riding

Observer Bradford Corp. W.W.

River Basin Ouse-Aire-9

W. Newlands Esq. C.E.

Type of Gauge Snowdon

The Waterworks Engineer

Annual Average 44.3 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. 5

660554/26

Diameter	5.											
Height	1.0.											
Altitude	1190.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	Total
January	4.50	5.63	2.99	3.80	2.43	4.79	6.14	7.67	6.78	2.56	47.29	
February	6.21	4.8	3.58	4.48	7.92	3.70	7.56	2.47	6.17	2.83	41.35	
March	5.58	3.27	2.79	2.97	2.50	3.27	3.04	1.95	3.97	3.85	28.39	
April	4.40	4.67	1.85	2.22	4.60	2.17	3.47	.74	1.84	4.38	30.34	
May	4.18	4.62	2.75	2.79	1.02	1.96	3.71	4.44	1.30	1.59	28.36	
June	6.74	.84	2.18	2.58	4.23	5.26	2.76	5.77	2.95	.66	33.97	
July	4.71	4.00	3.14	2.79	1.85	5.23	3.59	4.72	6.01	3.84	39.88	
August	5.01	1.81	1.07	2.50	1.71	3.35	2.34	5.71	3.77	1.64	28.91	
September	4.57	5.27	2.11	2.41	7.06	5.69	1.94	2.80	1.86	4.43	38.14	
October	3.01	7.39	5.22	5.21	10.23	6.08	3.12	10.89	3.57	4.87	59.39	
November	8.70	3.23	2.76	2.64	6.23	7.65	2.28	7.28	7.17	7.56	55.50	
December	3.04	1.89	0.68	6.39	4.16	6.06	3.75	4.69	2.79	4.07	37.52	
TOTALS	55.65	43.05	31.12	36.78	53.94	55.41	43.70	59.13	47.98	42.28	469.04	
	D	D	D	D	D	D	D	D	D	D	D	

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 from gauge	Parish Church.	Distance from gauge	Direction from gauge

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

Station No. T.F. 3267

RAINFALL at Bradford (Thornton Moor Filter)

41

County of West Ridings Observer The Waterworks Engineer
 River Basin Ouse Area - 9
 Type of Gauge Standard

Annual Average 44.5 in. based on 32 years obs. unweighted. Period of average 1881-1915. Ref. S

Av. about 2 in. less? 1888-1965.

File No. 660554/26

Diameter	5"	075	231								
Height	1' 0"		1								
Altitude	1190'		41								
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means Total
January	3.10	5.25	5.00	7.02	3.47	5.10	4.34	10.21	3.05	3.18	49.72
February	6.91	2.16	2.99	2.27	4.87	6.51	3.32	4.27	4.13	2.18	44.61
March	5.13	3.29	1.52	.59	1.47	1.67	8.67	2.21	1.41	2.73	28.69
April	2.99	2.33	2.58	3.51	2.66	2.17	4.60	3.34	4.95	4.20	33.81
May	3.00	5.18	3.09	2.33	3.33	2.20	4.01	1.47	3.10	3.02	30.73
June	.61	1.43	3.97	2.96	3.78	3.03	3.44	5.84	.61	1.28	27.45
July	2.04	3.57	2.49	3.69	2.75	3.82	2.70	1.71	3.80	4.86	30.92
August	6.89	4.81	5.79	3.62	5.84	6.70	4.1	4.73	4.32	6.86	49.97
September	.60	2.91	4.97	7.28	3.03	6.85	2.90	3.40	1.31	2.15	40.80
October	5.61	6.42	2.61	4.51	6.53	1.20	1.65	2.34	5.01	3.02	38.90
November	3.96	1.94	3.52	6.88	1.10	6.97	7.43	2.48	7.61	5.84	47.93
December	2.94	3.65	2.97	5.08	3.37	3.78	5.22	4.89	9.41	3.09	44.40
TOTALS	43.66	42.94	14.50	49.74	42.20	5000	48.69	46.89	48.71	52.90	467.23

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

Station No. 3267

T.F. 46

RAINFALL at Bradford (Thornton Moor Filter)

County of West Riding - Yorks.

Observer

The Waterworks Engineer.

River Basin. Ouse - Aire - 9

Type of Gauge. Standard Bradford 162/43

Annual Average 144.3 in. based on 38 years obs. un-weighted. Period of average 1881-1915 Ref. S
 " 48.25 " 19 " within 1936-57 " " 1916-50 S
 " about 48.25 in low? M.L.B. 1949 File No. 66.0454/26 F.12802/55

Diameter	5"	075	231								Means
Height	1'0"			1							Total
Altitude	1190'			51							
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	
January	5.04	4.97	1.66	4.04	3.32	7.47	4.95	4.51	4.03	5.87	45.86
February	4.43	1.48	2.90	4.67	3.25	2.56	3.69	8.32	.74	4.52	36.66
March	5.32	2.71	2.12	2.48	3.06	2.78	4.09	3.20	2.08	2.48	30.82
April	2.38	3.33	3.43	.78	1.90	3.58	.49	1.67	4.77	2.98	25.31
May	4.74	2.81	2.53	3.74	3.79	2.03	1.62	6.05	1.72	2.24	31.27
June	1.35	3.21	3.61	2.38	3.08	5.41	2.49	5.41	4.03	1.13	32.40
July	3.48	2.01	5.35	4.35	.75	6.37	4.92	4.43	3.17	6.24	41.07
August	5.18	6.11	5.32	9.44	1.42	9.68	6.14	4.74	1.39	4.81	54.73
September	2.98	6.08	4.26	5.79	2.31	5.53	6.10	4.38	.38	3.21	39.82
October	1.73	5.55	2.63	8.56	3.47	2.50	6.64	4.16	6.17	6.15	47.56
November	10.04	2.41	6.16	7.41	2.92	2.62	3.10	1.42	6.06	8.21	50.35
December	9.38	4.79	2.88	9.00	7.71	6.10	5.73	5.73	9.32	6.64	67.28
TOTALS	56.05	44.46	42.85	63.64	36.98	56.63	49.96	54.02	43.86	54.68	503.13
	D	D	D	D	D	D	D	D	D	D	

Insp. 23.9.58 Mr. O'Kane upper cap to be replaced by bottle or a daily gauge used otherwise sound. Site slightly over-exposed ESE & SSE. Trees & no. bush give protection other than unscientific means but broken Candler seat for small ants.

E Turf Vale

Position of Station on Ordnance One-Inch map : No. of Map. 96 National Grid Reference SE (44) 051334

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

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	✓	✓	✓	✓
	-	- but D 25-30	✓	✓	✓