

# RAINFALL AT *Skipson Thorpe Fell. Borden.*

Lat.

Lon.

 County of *York W. R.*

Rain Gauge, by

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

(22)

Diameter....											
Height ....											
Altitude ....											
Year ....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January ....							<i>#</i> 1.80	4.80	4.14	.92	
February ...							4.90	3.30	1.58	2.24	
March .....							4.10	2.90	1.95	1.70	
April .....							3.00	2.97	2.00	1.72	
May .....							1.04	<i>*.00</i> 4.2	6.38	1.63	
June .....							2.32	1.17	3.47	6.46	
July .....							3.44	5.62	1.33	6.98	
August ....							3.22	6.63	7.24	7.12	
September ..							4.91	<i>3.00</i>	4.59	1.75	
October ....							3.20	4.71	4.02	2.22	
November ..							3.25	5.27	3.73	1.17	
December ..							6.42	3.12	1.53	1.45	
TOTALS ..							41.60	<i>(40.49)</i>	41.96	35.36	

*X May & Sept. estd. Barnoldswick  
Water 8.1913*

*1877 Observations for May & Sept. imperfect*

# 80

## RAINFALL AT *Skipton, Thorpe Fell, Barden*

Lat. ....

Lon. ....

 County of *York, W.R.*
*Monthly*

Rain Gauge, by .....

 Observer *A. R. Binnie Esq., C.E.*
*Cause - Wharf 10 No 22*

Diameter ....		5									
Height .....		1.0									
Altitude ....		1661 ft									
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January .....	.56	.58	4.16	6.20	4.68	1.80	3.03	1.50	1.20	1.60	
February .....	3.58	4.90	3.63	2.60	2.45	1.08	1.09	1.66	.70	1.60	
March .....	3.12	4.67	5.07	.23	2.90	1.56	3.16	1.31	1.85	1.90	
April .....	2.10	1.35	4.13	2.65	1.41	1.26	1.95	1.44	2.42	1.60	
May .....	2.27	3.47	1.76	.50	2.37		3.58	1.82	.55	2.16	
June .....	5.92	3.16	5.87	2.70	.30	2.85	1.16	.00	2.09	.10	
July .....	.12	5.83	7.21	4.00	6.62	1.30	3.58	1.80	5.11	2.59	
August .....		5.35	4.43	3.62	2.52	1.95	1.70	2.02	4.79	3.40	
September .....	4.75	3.45	3.30	5.45	2.62	3.73	1.95	5.10	.80	3.37	
October .....	1.36	3.90	4.75	3.60	2.40	3.40	5.55	2.00	.90	4.12	
November .....	5.07	7.21	4.67	2.90	1.50	1.88	3.00	2.95	6.78	.97	
December .....	5.32	2.83	4.98	2.53	5.47	.75	2.26	2.20	2.09	1.03	
TOTALS .....		46.70	53.99	36.98	35.24		32.00	23.80	29.28	24.44	

1880 Jan'y, July August & Oct. incorrect.

1882 Oct. Record imperfect, amount computed

1885 May gauge tampered with.

Rejected from survey : 8" too low.

# RAINFALL AT *Skipton Thorpe Fell Barden*

Lat. \_\_\_\_\_

Lon. \_\_\_\_\_

County of *York W.R.*

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

Observer \_\_\_\_\_

*Webster Esq. C.E.*

*J. Watson Esq. C.E.*

*Rise - Wharf to Ministry No 22*

Diameter ....	5											
Height .....	1 0											
Altitude ....	1161 $\pi$											
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January ....	3.16	1.97	2.77	1.07	3.37	4.05	2.62	1.97	3.96	5.86	2.080	
February ....	.59	.45	2.27	5.09	6.17	1.10	1.80	2.78	3.77	2.23	2.625	
March .....	4.81	1.72	.92	1.27	3.48	3.00	4.70	4.67	1.68	1.83	2.808	
April .....	1.20	1.77	1.89	.41	2.26	2.23	2.30	2.20	3.50	3.16	2.092	
May .....	2.33	2.01	3.67	2.70	2.11	.53	.47	2.05	2.58	4.24	2.267	
June .....	4.24	1.23	4.17	3.77	2.46	1.66	3.27	3.94	3.10	1.95	2.979	
July .....	3.87	3.98	2.86	5.33	4.40	5.57	3.84	1.94	1.38	2.70	3.587	
August .....	6.76	6.19	7.11	4.92	4.39	3.54	2.12	5.90	5.73	2.54	4.920	
September....	2.32	2.43	4.06	5.03	.46	2.20	6.08	4.96	1.30	5.24	3.408	
October .....	2.44	4.07	5.62	4.73	4.83	5.63	3.87	2.24	5.78	3.03	4.224	
November....	4.41	4.27	2.78	3.16	3.36	3.10	1.20	3.60	2.54	2.70	3.112	
December ....	.73	5.69	1.37	3.24	4.07	3.86	4.74	4.68	4.46	3.77	3.661	
TOTALS . . .	36.86	35.78	39.49	40.72	41.36	36.47	37.01	40.93	39.78	39.25	38.765	

*Rejected from Survey : 8° too Low*



# RAINFALL AT *Burnsall Thorpe Fell*

Lat. ....

Lon. ....

County of *York W.R. Northern*

Rain Gauge, by .....

Observer *J. Watson Esq. C.E.*

*Sharpe - 10.*

*M*

Diameter ..	5										
Height ....	1 0										
Altitude ..	1661 <del>N</del>										
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	4.77	2.95	2.57	3.97	3.49	1.73	5.27	2.02	3.87	2.07	3.271
February ..	5.05	1.93	1.77	4.21	3.27	1.92	2.87	2.12	3.10	3.09	2.933
March ....	.97	2.82	2.47	5.19	2.23	3.12	2.93	3.48	4.28	4.10	3.159
April .....	2.30	2.37	1.79	2.07	3.59	3.27	1.17	2.57	2.76	3.74	2.563
May .....	1.53	1.44	2.73	3.07	3.84	.65	5.40	3.77	3.26	2.88	2.857
June .....	3.79	1.20	1.53	1.87	2.30	2.07	2.03	7.28	5.17	3.10	3.034
July .....	3.00	1.84	3.21	4.57	1.77	1.52	2.06	2.78	5.25	5.83	3.183
August ....	5.98	3.04	2.74	4.51	3.98	4.73	4.70	3.97	3.67	3.63	4.095
September ..	1.75	2.67	1.87	4.10	1.63	3.72	1.12	.87	4.73	3.84	2.630
October ....	5.64	2.88	3.79	10.23	1.77	3.04	6.27	6.23	2.80	4.46	4.711
November ..	4.73	5.18	2.83	2.53	3.71	4.37	5.15	2.78	3.22	2.37	3.687
December ..	4.67	5.06	3.33	2.37	2.93	1.27	3.15	5.86	3.42	5.97	3.803
TOTALS ..	44.18	33.38	30.63	48.69	34.51	31.41	42.12	43.73	45.53	45.08	39.926

*Rejected from survey : 8" too low.*

*H.W.*

# RAINFALL at Burnell Thrope Fell No 22

County of W Yorkshre

Observer Lt J Watson Esq Ch

River Basin Ouse-Warfe 10

Litchell Esq Ch

Rain Gauge, by

10 3337

Diameter ...	5										
Height .....	1 0										
Altitude ...	1661 ft										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	6.32	1.53	4.45	4.37	2.93	5.28	4.37	3.04	3.37	4.69	
February ...	4.28	5.37	2.48	1.74	2.86	4.46	4.37	1.00	6.77	1.49	
March .....	.80	2.67	5.27	4.87	5.32	1.58	2.83	2.13	1.73	4.53	
April .....	2.32	2.14	1.04	3.62	.97	1.58	2.51	1.87	1.28	2.18	
May .....	1.97	1.03	2.50	3.53	2.54	1.73	2.67	1.97	2.09	1.63	
June .....	3.00	3.20	7.16	2.62	3.15	.98	3.07	2.67	1.97	1.17	
July .....	3.64	.91	5.06	1.02	2.84	4.97	3.45	1.86	5.78	3.12	
August .....	6.30	2.87	5.23	2.40	3.34	3.60	4.53	8.03	4.65	3.58	
September ..	.38	4.13	2.23	1.74	2.48	1.02	2.65	1.97	10.76	1.83	
October ...	4.23	3.53	5.17	2.00	2.57	1.23	9.97	5.48	3.72	3.57	
November ..	4.07	3.67	2.80	4.50	5.70	1.97	4.57	3.92	2.45	3.23	
December ...	4.52	5.96	4.77	3.24	6.77	6.24	3.09	2.97	7.42	5.74	
TOTALS ...	41.86	37.01	48.16	35.65	41.47	34.54	48.08	36.91	51.99	36.84	

Repeted from Survey : 8" too Low

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

RAINFALL at Burnsall Thorpe Hall No. 22County of N. B. YorkshireObserver L. Mitchell Esq. G.E.River Basin Guse-WharfeEngineer BradfordSnowdon Rain Gauge, byW. Newlands, Esq. L.S. (1930).

M.

Diameter ...	5"											
Height .....	1	0										
Altitude ...	1661											
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 Mean	
January ...	4.89	7.63	4.07	4.11	3.03	3.65?	4'162	4.66	9'55	1.22	6.73	
February ...	3.87	4.9	4.87	5.08	8.9	4.60?	4.72	1.73	4'53	.93	.31	
March .....	3.29	3.54	3.19	2.38	1.27	.90	1.80	3.18	5'10	.61	1.25	
April .....	4.60	.98	3.19	2.81	1.93	3.10	1.43	4'83	.90	1.83	1.98	
May .....	4.27	1.52	1.07	2.92	5.23	5.34	4.14	1.72	1'13	2.42	1.69	
June .....	2.39	.21	2.76	.88	2.20	.00	3.62	3.46	6'09	1.63	2.48	
July .....	6.79	2.63	6.17	4.70	4.73	2.04	4.34	6.05	2'38	3.16	4.64	
August .....	3.04	5.73	3.34	6.53	6.13	5.68	5.16	(7.78)	6'79	5.77	5.77	
September...	1.59	2.09	4.63	5.93	4.99	3.64	3.56	5.92	.75	2.05	4.16	
October .....	2.98	3.21	.88	7.03	5.28	5.25	4'82	5.47	5'52	6.57	5.43	
November...	3.73	2.79	2.34	5.19	4.63	1.18?	6.97	4.81	6'83	6.53	5.16	
December...	4.03	6.98	3.08	2.46	4.87	4.43	2.27	1.35	2'42	7.09	2.80	
TOTALS...	45.47	57.80	39.59	50.04	45.20	39.81	47.45	50.96	49.79	39.81	42.40	
				M	M	M	M	M	M	M	M	

gls. S.W. 22. This S. wind not be seen in the time, but it was clear that S. was not exposed (and a better position could be obtained to leeward side of hill).

Rejected from Survey : 2° too Low

Position of Station on reduced Ordnance Survey } No. of Map \_\_\_\_\_ Reference No. \_\_\_\_\_  
Map, 2 miles to 1 inch Series

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



RAINFALL at Burnsall (Thorpe Fell) \*County of West RidingObserver Bradford Corpn W.W.River Basin Ouse - Wharfe - D.W. Newlands Esq. C.E.Type of Gauge SnowdonThe Engineer, Bradford W.W.Annual Average in. based on years obs. un-weighted. Period of average Ref660554/26

Diameter	5.											
Height	1.0.											
Altitude	1661.			1649	1661	1649						
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	4.17	5.80	2.92	4.14	2.22	4.15	4.84	8.52	7.54	1.85		
February	5.96	.50	4.26	.33	7.63	3.11	6.66	3.20	5.22	2.96		
March	.37	3.11	(2.60)	(3.00)	1.79	3.14	3.41	2.51	2.56	4.03		
April	(4.00)	(5.50)	2.26	2.82	3.80	1.22	3.88	1.13	2.12	3.19		
May	2.71	4.68	(2.30)	2.89	.75	1.04	3.14	3.93	.94	2.17		
June	7.41	1.09	3.07	3.02	4.21	4.72	3.04	5.11	4.32	.61		
July	4.93	6.61	3.44	2.93	2.06	5.65	3.20	5.06	7.69	4.92		
August	4.37	1.03	1.63	4.26	2.27	2.94	2.15	5.49	2.09	2.90		
September	3.09	6.72	1.44	4.06	8.58	4.12	2.36	2.11	1.77	5.76		
October	2.45	5.63	3.84	6.02	11.02	4.26	2.45	12.22	3.26	4.93		
November	7.04	3.16	2.11	1.95	6.31	5.28	1.74	7.03	7.89	6.85		
December	2.28	1.61	0.61	7.04	2.63	4.93	3.03	6.14	3.66	5.21		
TOTALS	(48.79)	(45.44)	(30.48)	(42.46)	53.27	44.46	39.90	62.45	49.06	45.38		

1931. April estimated by surrounding stations.

1932. April estimated by maps.

Inspected June 1934. - Site Overexposed. Recommended gauge to be set up 50 yds to east of present site and surrounded by turf wall.

1933. Mar + April May estimated by near stations.

1934. 1/8/34 gauge set up 50 yards E. of old site on the flat moor surrounded by a turf wall according to our instructions.

1936. D.G. site record records unreliable - letter 24/3/36.

Revised from Survey as 8" too low. Letter 16/5/33. \* Just use round gauge (S.R.)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

Station No. T.F. 3337

RAINFALL at Burnall (Thafe Fell) \* 1

41

County of West Riding Observer The EngineerRiver Basin Ouse - Wharfe - 10 Bradford W.W.Type of Gauge SnowdonAnnual Average in. based on years obs. un-weighted. Period of average Ref.File No. 660554/26

Diameter	5"			061	781							
Height	1' 0"				1							
Altitude	1661'			41	1					1649		
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	
January	(4.80)	5.05	6.54	7.51	5.50	5.52	5.28	9.31	(2.47)	3.70		
February	4.33	2.17	4.34	2.76	6.91	6.10	5.75	3.71	3.73	7.60		
March	4.68	3.11	1.98	.52	2.21	1.37	7.56	2.39	1.91	1.97		
April	2.09	1.84	2.87	4.17	3.88	2.13	4.93	2.73	3.35	4.73		
May	1.99	3.91	3.78	2.84	4.56	2.51	3.52	1.57	3.61	1.72		
June	.84	1.29	4.84	3.97	5.11	3.16	3.95	4.61	.65	3.82		
July	1.86	5.57	2.84	4.64	3.13	5.26	3.85	1.27	3.03	3.95		
August	7.34	5.38	6.96	2.72	4.93	8.67	.32	4.53	3.89	7.01		
September	1.02	3.75	4.15	7.87	4.21	8.24	2.85	3.31	.75	6.37		
October	6.59	5.94	4.10	4.78	7.76	2.00	1.23	2.75	6.45	2.83		
November	3.91	1.76	3.92	3.21	.83	7.85	7.91	2.79	7.00	4.20		
December	3.40	5.52	2.97	4.97	3.49	4.27	4.13	2.76	8.52	3.17		
TOTALS	42.80	45.29	49.29	55.96	52.52	57.08	51.28	41.73	44.36	51.07		

\* Tuff wall round gauge (B.R.)

00004

1941 Jan. total est'd. from map.

1943 &amp; 44 Nov. part est. obsr. informed

40004

Position of Station on reduced Ordnance Survey Map, } No. of Map.....

1 mile to 1 inch Series

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. 3337

T.F. 46

RAINFALL at

Burnsall (Thorpe Fell)

51

County of West Riding of Yorkshire

Observer

L.E. Engineer

River Basin Ouse - Wharfe - 10

Bradford 10.10.

Type of Gauge Clayton Bradford

M/474

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

Ref.

" " 52.21 " " 15 " " within 1937-57

File No. 1916-50 6254/26E22802/59

Diameter ...	5"		061	781							
Height ...	1'0"			1				1'3"			
Altitude ...	1649'			51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	3.01	4.95	2.28	4.17	3.82	6.10	6.64	4.70	4.32	7.84	
February ...	3.55	1.57	4.21	4.12	3.10	3.29	3.61	10.82	1.35	5.56	
March ...	3.72	1.97	1.44	3.16	2.26	2.32	5.95	2.66	2.96	2.42	
April ...	1.65	2.53	3.42	1.47	2.89	1.98	1.60	1.48	4.24	3.37	
May ...	2.75	1.37	2.55	3.67	4.14	2.59	1.85	6.74	.86	2.35	
June ...	.98	2.87	3.31	4.94	4.30	2.71	2.07	6.30	2.57	2.15	
July ...	2.33	2.14	6.68	6.97	1.43	7.39	4.95	5.57	3.11	11.16	
August ...	4.23	6.47	6.40	9.41	1.34	12.15	8.97	5.41	.65	5.13	
September ...	2.58	4.62	5.17	7.30	3.67	5.76	7.09	5.81	.42	3.76	
October ...	.79	4.38	2.35	11.23	3.56	3.06	7.70	4.94	5.15	6.43	
November ...	8.84	2.56	6.95	7.94	3.11	1.65	2.25	1.82	6.33	9.56	
December ...	6.89	4.98	3.03	8.68	8.48	5.95	6.13	4.96	9.51	5.92	
TOTALS ...	41.27 n.p.	40.41 n.p.	47.79	73.06	42.10	54.95	57.21	61.21 M	41.47 M	65.65 M	

1951. n.p. low.

1952. n.p. low.

Insp. Mr. O'Kane 25.9.58: Sort of bank around gauge not very effective. Turf wall would help.

Site org. exposed all direction. Turf wall rev. g. Foss. Lead of position of d. tube a financial disadvantage measure 4 1/2" cash

Turf wall. Insp. 1958

Position of Station on Ordnance One-Inch map:

No. of Map 96

National Grid Reference SE (44) 007597

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
	✓	✓	✓	✓	