

70 RAINFALL AT *Pateley Bridge Treunla Hill, Greenwich*

Lat.

Lon.

County of *York N. R.*

Rain Gauge, by

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

(25)

Diameter.....							5"	.	.		
Height							1	.	.		
Altitude							1201	.	.		
Year	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January							# 1.86	6.16	6.21	1.13	
February.....							5.56	4.54	2.21	2.81	
March.....							4.80	4.21	2.45	2.09	
April							3.19	1.32	2.55	2.81	
May							1.04	3.55	5.25	2.11	
June							3.16	2.27	3.33	5.90	
July.....							3.36	5.14	.78	5.92	
August							2.92	6.78	8.09	5.42	
September ..							4.92	3.97	3.96	1.90	
October							3.04	7.10	4.59	2.60	
November ..							4.27	6.75	5.27	2.03	
December ..							9.96	4.40	1.64	2.15	
TOTALS ..							48.08	56.19	46.33	36.87	

80

RAINFALL AT *Pately Bdg, Grimwith Trunk Hill*

Lat.

Lon.

County of *York, W. R.*

Monthly Rain Gauge, by

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

Ouse-Wharfe 10 No 25

Diameter		5									
Height		1. 0									
Altitude		1201 ft									
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January	45	51	3.15	4.69	8.43	2.95	3.88	2.17	1.25	1.85	
February ...	4.28	4.49	2.83	2.87	3.06	3.68	58	1.43	26	2.21	
March	2.03	3.80	4.61	.87	2.25	3.03	2.42	1.42	2.76	2.48	
April	1.68	1.84	4.11	3.18	1.87	1.57	2.87	1.38	2.56	3.56	
May	1.82	3.34	1.40	1.15	2.36	2.70	4.12	2.03	.95	1.94	
June	4.95	2.22	4.25	3.54	29	2.30	1.19	.08	2.56	.25	
July	5.78	6.36	5.10	4.19	6.84	1.40	4.37	1.74	6.02	3.21	
August	2.38	5.21	1.95	2.76	1.65	1.42	2.08	2.37	3.91	3.35	
September...	4.50	3.54	2.94	2.23	2.42	1.81	2.87	5.78	1.16	1.25	
October	4.27	4.83	3.59	6.53	2.33	4.95	5.79	2.98	.95	5.16	
November...	2.47	5.72	5.85	3.73	1.36	1.52	2.82	2.94	8.40	1.35	
December...	5.59	3.79	3.15	2.11	5.91	1.40	3.37	2.91	2.21	2.22	
TOTALS ...	40.20	45.65	43.02	37.85	38.77	28.73	36.36	27.23	32.99	28.83	
	?					?					

1880 November gauge tampered with
 1885 April & May each 1 in short Sept. 4 in Oct. 3 in Nov. 2 in short.

Rejected from Survey: 12" too low.

RAINFALL AT *Pateley Bridge Guinivorth Tunka Hill*

Lat.

Long.

County of *York W.R.*

Rain Gauge, by

Observer

Webster Esq. C.E.

J. Watson Esq. C.E.

Case - What Monthly No. 25

Diameter	5											
Height	10											
Altitude	1201 \overline{ft}											
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January	5.49	1.46	3.05	1.44	5.74	3.41	2.45	2.53	4.14	6.54	2.625	
February ....	.93	.60	2.71	5.53	7.21	.71	1.44	3.41	3.65	2.41	2.860	
March	4.19	1.48	.74	1.35	3.84	3.35	4.91	6.52	2.40	.92	2.970	
April	1.69	2.89	1.95	.61	3.01	2.46	2.21	2.45	3.72	4.09	2.508	
May	2.87	2.25	3.18	2.06	2.10	.46	.61	1.81	1.78	3.95	2.107	
June	3.25	.61	4.51	2.36	2.31	1.84	3.41	3.26	3.21	1.59	2.625	
July	3.21	3.98	1.89	4.75	2.90	4.47	2.24	1.24	1.27	1.95	2.790	
August	5.75	5.68	4.92	3.49	3.22	3.52	1.58	4.52	4.71	2.01	3.940	
September	1.95	3.01	2.85	3.25	.31	1.74	6.71	3.89	1.07	4.78	2.956	
October	2.69	3.46	6.66	4.01	5.98	4.35	4.39	2.15	6.21	3.14	4.304	
November	4.05	4.55	2.05	2.81	3.07	3.94	1.78	3.80	3.09	2.89	3.203	
December ....	.95	6.21	1.95	4.01	4.17	4.41	5.67	4.86	4.62	3.41	4.026	
TOTALS . . .	37.02	36.18	36.46	35.67	43.86	34.66	37.40	40.44	39.87	37.68	37.924	

Rejected from Survey: 12" too low

RAINFALL AT *Grimwith Trunk Hill*

Lat.

Lon.

County of *York W.R.*

Rain Gauge, by

Observer *J. Watson Esq. Ch.**Sharpe - 10. M*

Diameter ..	5											
Height	10											
Altitude ..	1201 ft											
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.	
January ..	5.65	1.76	1.49	3.21	3.40	1.41	4.06	1.96	3.41	1.96	25831	
February ..	3.79	1.75	1.04	2.02	3.94	2.10	2.01	2.21	2.91	2.12	25839	
March ....	.65	1.34	1.92	4.86	2.25	3.19	3.21	3.36	4.16	3.18	25812	
April	2.46	1.65	1.09	1.75	2.46	2.89	.92	2.19	2.69	2.96	25106	
May	2.01	1.15	1.87	3.04	3.11	.48	4.05	3.21	2.52	2.13	25357	
June	3.87	.94	.94	1.85	2.08	1.51	1.12	4.95	3.12	2.09	22447	
July	2.15	1.91	1.65	3.35	1.41	.56	2.01	1.94	3.92	4.07	22297	
August	5.51	2.48	1.86	3.96	3.32	4.89	3.76	2.96	2.96	3.08	3478	
September ..	.93	1.05	1.51	4.54	1.48	3.86	.91	.66	4.13	1.98	2110	
October	5.77	1.92	2.48	8.61	1.38	2.36	6.15	5.71	2.14	3.71	4023	
November ..	4.60	4.68	1.65	1.82	3.21	6.06	4.51	2.96	2.86	1.80	3415	
December ..	3.10	3.41	3.14	2.89	2.91	1.81	2.35	4.41	2.01	4.41	3044	
TOTALS ..	40.49	24.04	20.64	41.90	30.95	31.12	35.06	36.52	36.88	33.49	33.109	354

1901 ? *Leaking*

1902 ? "

1903 "

1906 Small: not printed in B.R.

1907 " " " " "

1908 " " " " "

1909 " " " " "

*Rejected from Survey: 12" too low.**Hill*

RAINFALL at Grinwith Tumble HillCounty of W. YorkshireObserver late J. Watson Esq. C.E.River Basin Over-Wharfe 10L. Mitchell Esq. C.E.

Rain Gauge, by _____

Diameter ...	5											
Height	1.0											
Altitude ...	1201											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEAN.	1910-19
											TOTALS	
January ...	5.06	1.78	4.00	4.98	3.12	5.62	3.40	3.80	3.82	5.55	16.57	
February ...	4.12	3.80	2.40	2.24	3.41	6.82	5.90	1.02	5.69	2.32	14.93	
March .....	.73	2.31	4.80	5.55	3.86	1.69	4.02	3.06	1.93	5.42	14.43	
April	2.24	1.50	.80	4.38	1.20	1.81	2.33	2.61	.81	2.51	8.26	
May	1.98	1.12	2.63	2.72	2.26	1.80	2.30	2.88	2.28	1.30	8.76	
June	1.81	2.21	6.98	2.00	2.52	.40	2.40	2.66	1.00	1.18	7.24	
July	2.39	.60	5.40	1.26	3.62	4.86	2.34	1.48	5.02	2.72	11.56	
August	4.02	2.28	6.45	1.97	2.20	2.80	3.16	7.56	3.35	2.91	17.28	
September ..	.30	2.45	2.88	1.43	2.54	.70	2.62	1.63	8.80	1.51	14.56	
October ...	4.10	3.15	4.49	2.28	2.68	1.52	9.86	4.82	3.41	4.81	22.40	
November ..	4.09	5.00	3.43	3.96	6.63	2.84	5.02	3.41	2.33	4.77	15.53	
December ...	4.31	6.08	5.38	2.80	8.60	7.69	3.02	3.00	7.06	7.86	20.94	
TOTALS ...	35.15	32.28	49.64	33.57	42.64	38.55	46.37	38.23	45.50	42.36	172.46	

1910 Not printed. Had
 1911 - " - low
 1913 - " - "
 1914 - " - "
 1915 - " - "

Rejected from Survey: 12" too low.

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

RAINFALL at Grimwith Gravel HillCounty of N. YorksObserver L. Mitchell Esq. C.E.River Basin Cuse-Wharfe 10Bong: B. padford Corp. W.W.SpoutonRain Gauge, by Bradford
note: and out can lead to bottom
Drum - correct. Glass correctW. Newlands, Esq. F.R.S. (1930)
M.

Diameter ...	5"													
Height	<u>1 0</u>													
Altitude ...	<u>1201</u>													
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 <u>1930</u>	1930-31 <u>Totals</u>		
January ...	5.67	6.88	4.47	3.15	3.50	5.07	6.77	5.28	10.88	3.00	8.00	62.62		
February ...	3.37	25	4.00	5.60	1.34	7.20	5.30	2.60	6.10	1.38	1.50	39.14		
March	3.46	3.31	3.48	1.96	1.68	1.12	2.30	4.25	5.18	73	3.02	30.49		
April	5.95	1.32	2.73	3.00	2.14	4.62	1.76	4.48	85	2.24	4.00	33.09		
May	4.76	2.02	1.06	3.92	6.02	6.30	3.46	2.03	1.55	2.72	2.50	36.34		
June	1.28	12	2.12	1.06	2.06	08	5.38	4.12	5.95	2.03	2.72	26.92		
July	6.84	2.71	5.18	4.58	4.48	2.42	4.30	6.28	1.55	3.20	5.90	47.44		
August	2.68	5.33	3.88	5.35	4.43	4.81	4.50	2.60	6.50	5.45	5.80	57.33		
September...	1.76	2.27	4.12	4.98	4.18	3.27	3.90	7.25	7.76	2.10	5.50	40.09		
October	3.21	2.16	1.19	5.42	4.50	5.70	5.16	6.00	7.28	6.06	5.58	52.26		
November...	2.89	2.72	1.90	5.74	3.04	3.48	8.65	5.90	7.40	7.45	7.12	56.29		
December...	4.87	6.82	4.10	4.04	4.62	5.60	2.05	3.75	5.70	10.80	4.85	55.20		
TOTALS...	47.24	35.86	38.23	48.80	41.99	49.67	53.53	60.54	57.70	47.16	56.49	537.21		

Inspected B.S. 6.10.22 in open moor from windward side of hill.
 drop of 8 ft in 10 yds to 400. Different shells as N & NW.

Suggested moving lower down hill to slight hollow with more shells & altogether
 a better position.

Rejected from Survey: 12" 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	Parish Church.	Distance from gauge	Direction

RAINFALL at Grimwith (Trunla Hill)

County of West Riding
River Basin Ouse-Wharfe-10
Type of Gauge Snowdon

Observer Bradford Corpn. W.W.
W Newlands Esq. C.E
The 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	1201.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1931-40 Means Totals
January	3.40	5.25	3.40	4.20	2.14	4.75	5.80	8.15	6.77	3.57	47.43
February	5.75	.80	7.25	3.0	8.25	4.20	7.10	3.05	5.18	3.75	45.63
March	1.30	3.45	3.20	4.15	1.52	3.30	3.65	1.65	3.74	1.76	27.72
April	5.16	4.60	2.20	4.50	3.45	1.65	3.30	.90	2.17	1.25	29.18
May	3.30	4.64	3.05	3.60	1.35	2.20	3.00	3.55	.80	2.97	28.46
June	6.62	1.70	2.00	2.40	4.40	5.25	2.40	4.50	3.95	.43	33.65
July	5.20	6.30	3.60	2.10	2.31	4.80	2.60	4.25	5.95	5.15	42.26
August	4.26	1.55	0.90	4.10	1.56	2.75	2.25	3.45	2.24	1.77	24.83
September	4.63	6.25	2.85	3.80	7.18	3.45	2.25	1.75	1.91	4.88	38.95
October	1.85	5.30	4.25	6.60	9.25	3.92	2.45	13.10	16.05	4.57	55.34
November	7.87	4.40	4.50	3.05	8.28	5.20	2.25	8.15	7.15	6.90	57.75
December	2.46	3.00	0.90	8.55	3.00	5.30	3.60	5.42	3.04	4.59	39.86
TOTALS	51.80	47.24	38.10	47.35	52.69	46.77	40.65	57.92	46.95	41.59	471.06

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. 3341

RAINFALL at Grimwith (Tinsdale Hills)

41

County of West Riding Observer The EngineerRiver Basin Once Wharfe 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"											
Height	1' 0"											
Altitude	1201'											
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means Totals	
January	4.28	6.87	7.18	6.05	6.00	4.86	4.03	10.97	2.32	305	55.61	
February	6.46	2.76	3.95	2.85	6.56	4.97	4.24	4.17	3.35	6.97	46.57	
March	4.47	3.75	1.85	.64	1.57	1.71	7.00	3.16	1.80	1.98	27.90	
April	3.52	1.97	2.82	3.24	3.28	2.36	5.06	2.38	5.02	3.47	33.12	
May	2.24	3.96	3.88	3.04	3.76	2.54	4.12	1.57	2.30	1.80	29.21	
June	.84	.80	3.95	3.10	4.60	3.32	4.80	4.39	.92	2.77	29.49	
July	2.38	4.05	2.97	3.63	1.98	4.35	2.74	1.21	2.76	3.67	29.80	
August	4.94	4.39	5.60	2.42	4.41	8.03	.62	4.80	3.12	7.60	45.93	
September	.50	3.15	5.72	6.94	3.12	7.20	2.54	3.47	1.10	6.20	39.94	
October	5.92	5.65	3.45	4.45	6.48	2.95	1.86	2.52	5.20	3.30	41.78	
November	4.48	1.82	2.84	8.82	.91	8.20	7.59	2.50	6.30	6.28	49.81	
December	2.92	5.65	2.90	4.40	3.26	4.36	3.95	4.39	9.25	2.80	43.88	
TOTALS	43.24 M	44.82 M	47.11 M	49.74 M	45.93 M	54.85 M	48.55 M	45.53 M	43.44 M	49.83 M	473.04	

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. 3341

115 46

RAINFALL at Grimwith (Lumla Hill)

51

County of West Riding - Yorks Observer The EngineerRiver Basin Ouse - Wharfe - 10 Bradford 10.10.Type of Gauge Snodden Bradford 27/55Annual Average 46.5 in. based on 24 years obs. un-weighted. Period of average 1981-1915 Ref. S.W.S." " 49.12 " 28 " within 1925-57 " " " 1916-57 File No. 86554/26 E2.2.902158

Diameter ...	5"		062	039							
Height ...	1'0"			1				1' 5"			
Altitude ...	1201'			51				1145'			
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means Totals
January ...	4.78	4.43	2.10	2.88	3.02	5.25	5.70	3.98	4.12	6.20	42.46
February ...	4.20	1.00	3.90	3.21	3.92	3.08	3.80	7.48	1.06	4.40	36.05
March ...	4.38	3.60	.77	3.45	2.47	2.43	4.90	1.90	2.76	2.70	29.36
April ...	2.36	2.60	3.20	1.25	1.50	2.14	.60	1.20	4.10	3.65	22.60
May ...	5.13	1.79	2.17	3.97	4.17	2.20	2.00	6.00	1.00	2.20	30.63
June ...	1.32	2.55	3.09	3.54	3.75	3.62	2.00	4.20	1.40	2.50	27.97
July ...	3.06	1.83	4.90	4.02	1.53	7.10	5.10	4.10	3.30	8.20	43.14
August ...	5.60	6.90	6.04	9.10	1.44	9.90	6.40	4.70	.69	4.50	55.27
September ...	3.49	4.71	4.32	5.70	2.26	5.32	5.30	5.20	.38	4.10	40.78
October ...	1.91	5.78	2.32	9.04	2.60	2.60	7.60	4.10	5.20	7.40	48.55
November ...	11.00	3.04	5.47	8.58	2.93	1.70	2.74	1.45	6.80	6.83	50.54
December ...	7.97	3.82	2.03	7.06	7.04	5.50	5.00	6.00	9.50	6.10	60.02
TOTALS ...	55.20	42.05	40.31	61.80	36.63	50.84	51.44	50.31	40.31	58.78	487.37
	M	M	M	M	M	M	M	M	M	M	

Insp. Mr. O'Kane 25.9.58: This gauge appears to have been moved S.
 Rim of 9.17" but 11" above level of surrounding heather hence general surface. Snodden not
directly. Turf will rec.

Position of Station on Ordnance One-Inch map: No. of Map 90 National Grid Reference SE(44) 069657

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 - Rejected

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