

RAINFALL AT Hawesgate Bilton

Lat.	Long.	County of	W. York	Northumb.							
Snowdon	Rain Gauge, by Stomberg	Observer	7 J. Dixon Esq C.E.	7 Bayshaw Esq C.E.							
Nidder - 11 Miles											
Diameter ..			5								
Height ..			1 0								
Altitude ..			2087								
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..							3.58	1.11	1.41	1.14	
February ..							1.81	1.70	1.63	.64	
March ..							1.83	1.96	3.73	3.79	
April ..							.53	1.36	2.43	2.53	
May ..							1.98	4.20	2.32	1.78	
June ..							1.21	2.82	1.11	3.19	
July ..							1.49	1.57	2.24	3.45	
August ..							2.87	1.58	1.92	3.42	
September ..							.60	.70	2.45	1.67	
October ..							4.53	6.83	1.72	2.09	
November ..							3.61	2.40	1.63	.92	
December ..							1.72	3.13	1.27	3.96	
TOTALS ..							25.76	29.36	23.86	28.58	

1906 Bilton Church 1/2 Mile S

Hawesgate Station 2 1/2 - S

House 25 ft high 100 ft N

1907 Hough near

1909 Nidder Station 1 Mile N

058569 10 3364

RAINFALL at Harrogate Bilton Sewage Works

County of W.R. Yorkshire

Observer F Bagshaw Esq C.E. & R. W. Esq C.E.

River Basin One Hid 11

Fraicher Rain Gauge, by N.Y.

Diameter	5										
Height	10										
Altitude ...	2087										
Year	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1916-19 MEANS. TOTALS
January	3.75	1.49	4.22	3.45	1.34	3.84	1.44	2.75	2.41	3.65	10.25
February	2.92	2.18	1.83	.95	1.81	3.50	3.82	.74	2.98	1.82	9.36
March57	1.61	3.70	3.85	2.36	.88	4.15	2.32	1.23	4.10	11.80
April	2.72	1.24	.25	3.20	1.27	1.24	1.49	1.66	.94	1.58	5.67
May	2.40	1.00	3.15	1.84	1.23	1.72	2.82	1.79	3.01	1.48	9.10
June	2.10	2.91	6.58	1.38	2.67	1.22	1.85	1.73	.71	1.17	5.46
July	2.73	.31	4.70	.87	4.32	4.09	1.42	1.26	3.84	2.75	9.27
August	3.91	2.57	5.06	1.06	1.12	2.09	1.91	7.10	2.62	2.40	14.03
September21	2.44	1.91	1.25	1.30	.69	1.77	.62	6.86	.81	10.06
October	3.11	2.78	2.80	2.39	1.82	1.21	5.02	4.16	1.60	3.16	13.94
November	3.52	3.39	1.82	2.30	4.33	1.74	2.80	2.26	1.89	2.32	8.99
December	2.89	4.71	2.69	2.20	6.54	6.82	1.86	1.45	5.13	4.62	13.06
TOTALS	30.86	26.63	38.71	24.72	30.11	29.04	30.38	27.83	32.92	39.84	120.99

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
			Harrowgate 1913	1 1/2 m 2 m	NE SE S	St. John's	1 1/2 m 1/2 m	S SE

RAINFALL at Harrogate-Bilton Sewage Works

County of W.R. Yorkshire

Observer G. E. Rivers Esq. C.E.

River Basin Gaze-Nidd 11

Boro Encls. Harrogate

Gauge Rain Gauge, by Metz.

Diameter ...	5"										
Height	10										
Altitude ...	203										
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS.
January ...	4.15	3.76	4.12	4.58	2.34	2.37	3.40	2.38	6.44	1.97	5.17
February ...	1.97	1.11	3.00	5.09	1.89	4.60	2.28	1.22	5.17	1.79	1.10
March	2.60	1.92	1.96	1.77	1.49	1.99	1.29	1.88	3.06	.54	2.67
April.....	4.46	1.21	3.26	2.09	1.86	4.04	1.05	1.77	0.93	1.15	2.96
May	3.18	1.95	1.01	3.30	4.96	5.00	2.10	1.84	2.98	1.60	1.48
June	1.54	1.17	1.49	1.11	2.10	1.03	3.45	2.59	4.47	1.40	1.53
July	5.73	1.53	4.73	2.70	3.53	1.26	1.73	4.13	0.63	3.33	4.51
August	1.60	3.60	5.46	3.65	3.01	1.84	3.02	8.00	4.01	2.17	3.39
September...	1.00	1.96	3.51	2.41	3.33	2.67	1.66	4.02	0.47	1.48	3.89
October.....	3.58	1.53	1.24	3.20	3.34	3.46	3.44	3.07	5.22	3.19	2.21
November...	1.66	2.43	1.05	3.31	2.54	2.02	5.54	2.74	3.60	4.12	5.09
December...	3.05	3.53	4.28	3.36	3.41	3.87	.89	2.78	1.84	6.32	2.84
TOTALS...	34.52	23.00	35.11	33.57	32.80	32.15	29.85	36.42	36.82	27.06	36.79

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

Date.	Lat. N. (1924)	Long. W.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
1925	54° 1' 13"		Harrogate	1½ mi S E 1½ mi S		St. Johns Bilton	½ mi S E ½ mi S	

RAINFALL at Harrogate (Bilton Sewage Works)

County of West Riding

Observer C. E. Rivers, Esq., C.E. died 1937

River Basin..... Duse - Nidd - 11.

L. H. Clarke CE

Type of Gauge... Snowdon m.o.g.w.

Borough Corporation (1938)

Annual Average 28.5 in. based on 25 years obs. un-weighted. *Period of average* 1881-1913 *Ref.* 5

Diameter	5.										
Height	1.0.										
Altitude	208.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means Total
January	1.89	2.19	2.21	1.98	1.84	4.36	4.62	4.09	4.48	1.31	29.37
February	2.42	3.34	4.58	3.39	3.31	2.76	5.13	1.40	2.56	2.00	24.89
March	.77	1.80	1.65	2.64	.72	2.66	2.79	.13	2.03	1.94	17.13
April	3.48	2.82	1.19	3.45	2.26	1.91	3.22	.10	1.26	2.29	21.48
May	3.61	4.90	2.82	1.58	1.18	2.85	3.29	4.13	1.15	1.61	26.62
June	5.25	.55	1.10	2.32	3.12	4.73	1.31	2.39	2.01	36	23.14
July	3.91	4.05	1.77	1.25	.44	4.73	2.25	3.06	4.45	5.49	31.40
August	3.40	1.46	0.44	1.44	1.76	1.90	.99	3.37	1.79	1.63	17.18
September	5.82	2.20	2.39	2.17	4.69	2.04	1.56	2.43	1.13	2.37	26.80
October	1.02	3.75	3.77	2.57	5.05	1.89	2.38	5.90	3.12	3.73	33.13
November	5.05	2.20	2.94	2.15	5.19	3.23	2.03	3.80	3.66	4.13	34.38
December	1.28	1.39	0.62	5.50	2.50	2.16	2.69	4.21	2.03	2.86	25.24
TOTALS	37.90	27.15	25.48	27.44	32.06	34.72	32.21	35.01	30.07	28.72	310.76

1931. House 30' high 50 yds NW.

1934 ~ 30° ~ 100° S.

1935. Plantation 25' high 15 yds. S.W.

1937. Coppice 30' high 60' S.W.

Position of Station on reduced Ordnance Survey Map, } No. of Map.....
1 mile to 1 inch Series

Bollettino N.

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
1931			Harrogate	2m	S	St. John's Bilton	½ ml	S

Station No. 3364

RAINFALL at Harrogate (Bulton Sewage Works)

41

County of West Riding Observer Borough Corporation

River Basin Ouse - Nidd - II.

Type of Gauge Standard

Annual Average 28.5 in. based on 25 years obs. un-weighted. Period of average 1881-1915. Ref. S
31.19 1916-50 File No.

Diameter	5"	058	569								
Height	1' 0"		1								
Altitude	208'		41								
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1941-50 Means Totals
January	3.47	3.19	4.12	3.24	3.79	3.04	2.60	6.81	.86	1.33	32.45
February	4.42	1.22	1.31	1.45	3.29	3.80	2.55	1.79	1.08	6.63	26.54
March	3.58	2.57	.76	.40	88	1.28	5.99	1.43	1.02	1.21	19.12
April	1.12	1.45	1.41	2.81	2.06	1.56	3.05	2.64	2.52	2.60	21.22
May	1.66	2.84	2.21	.72	2.32	2.79	3.45	.93	1.83	2.10	20.87
June	.23	.85	2.53	3.74	2.85	2.56	3.86	3.43	.88	.87	21.50
July	2.19	2.46	1.32	3.56	1.73	3.92	3.00	1.01	2.45	2.98	24.66
August	2.62	2.69	2.45	3.22	4.07	4.19	.78	4.29	2.37	4.40	31.08
September	.43	1.75	3.21	5.14	1.44	6.00	1.68	2.01	.93	3.84	25.93
October	3.44	2.40	1.67	2.77	4.08	1.34	.93	.99	2.98	1.94	22.84
November	3.24	1.21	2.53	5.70	4.4	6.02	2.63	1.14	4.88	4.04	31.83
December	.62	2.18	1.69	3.06	2.22	2.91	2.64	2.96	3.76	1.74	23.68
TOTALS	46	87	89	126	102	138	116	103	90	112	1059
	27.32	24.81	25.21	35.81	29.17	39.41	33.06	29.43	25.56	31.88	301.66

1941 to 1950 inc 25' high 25 yds. N.E.

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.
1941			Harrogate	1 1/4 mds.	S.	St. Johns, Bulton	1/2 mds.

Station No. 3364

RAINFALL at Harrogate (Bilton Sewage Works) MWR(1953) 51

County of West Riding - Yorks. Observer : Corporation

River Basin: Ouse - Midd - 11

Type of Gauge: Standard 265.

Annual Average 28.5 in. based on 25 years obs. un-weighted. Period of average 1881-1915 Ref. (S) AWS
31-19 " " 35 " " 1916-1950 P 1953
File No.

Diameter ...	5"	058.569									
Height ...	1'0"										
Altitude ...	202'										
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	2.42	2.77	.51	1.86	1.90	4.18	1.75	2.45	3.03	5.16	26.03
February	3.08	4.7	2.05	2.58	1.91	1.36	2.63	4.22	.12	2.03	20.45
March	4.55	2.16	.55	1.88	1.96	1.19	1.85	1.85	1.35	2.48	19.82
April	1.25	1.29	2.56	.33	1.79	2.53	1.44	.71	3.80	1.38	15.08
May	6.22	1.81	1.44	3.44	2.04	.76	1.24	3.56	.61	2.88	22.00
June	1.20	1.75	1.47	1.83	1.80	3.25	1.78	3.46	1.15	0.96	18.65
July	2.23	1.49	2.17	1.08	1.04	4.84	3.78	3.49	1.49	3.75	25.36
August	5.59	2.96	3.58	5.78	1.07	6.27	5.13	4.33	.76	2.61	38.08
September	2.15	3.62	2.11	1.92	1.18	3.09	3.37	3.65	.12	2.85	24.06
October	1.00	3.40	2.01	3.98	1.86	1.28	3.00	2.03	2.32	6.78	27.66
November	6.96	1.49	2.62	5.30	2.33	.52	1.75	.71	4.22	5.36	31.26
December	2.96	1.98	1.17	2.52	4.18	2.90	2.92	4.52	5.54	3.18	31.87
TOTALS ...	39.61	25.19	22.24	32.50	22.06	32.17	29.64	34.98	24.51	37.42	300.32
	D	D	D	D	D	D	D	D	D	D	

1951. Plantation 40' high 10xW. (Climate instruments from Harrogate now)

Rep 1952 Site for climatological station not good for temp. & humidity. Old gauge to be replaced by new one from Balfour gauge from Harrogate Corridor until 1958.

Harrogate

156 89 78

(End of Answer)

Position of Station on Ordnance One-Inch map : No. of Map National Grid Reference SE(14)33579

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.
1951			Harrogate	3m. SE	Bilton	1m. SE

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
	✓ -	✓ -	✓ -	✓ -	✓ 2.48, 5.00 3.49