

RAINFALL at Hanogate Knob Moor MCounty of W.R. YorkshireObserver A. Whelby Esq.River Basin Tees. Nidd II

Bradford Rain Gauge, by _____

Diameter ...				5								
Height				10								
Altitude ...				700								
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	<small>MEANS. TEN YRS.</small>	
January ...				3.75	1.65	4.20	1.90	2.15	2.60	3.50	10.21	
February ...				1.20	1.75	3.65	4.05	.80	3.45	2.30	10.60	
March				3.48	2.80	.80	3.80	2.50	1.30	3.03	10.63	
April				3.05	1.10	1.25	1.60	1.25	.83	1.50	5.18	
May				2.65	1.40	1.60	3.00	2.00	3.70	1.50	10.20	
June.....				1.35	3.45	.45	1.75	2.40	.82	1.10	6.07	
July				1.10	3.35	2.10	2.00	1.45	4.40	3.00	10.85	
August95	1.30	2.50	2.32	6.84	3.10	2.10	14.36	
September ..				1.50	1.40	.55	1.98	.80	7.30	1.10	11.18	
October ...				2.40	2.60	1.45	5.60	4.45	1.85	5.30	15.20	
November..				2.60	4.90	1.90	3.25	3.40	1.65	2.20	10.50	
December...				1.60	6.05	7.60	2.25	1.30	5.95	5.00	14.50	
TOTALS ...				25.63	31.75	28.10	33.60	29.84	36.85	24.69	129.48	

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
			Borwick	2½ m	N	Borwick	2½ m	N

RAINFALL at Harrogate W.W. Glens Moor

County of N.W. Yorkshire

Observer A. J. West Esq. C.B.

River Basin Guse-Ridd 11

Water Eng. Stanhope

Bradford Rain Gauge, by Casella

Gal. iron 24-gauge Standard 8947

American missing M 5.00 good condition VII-23.

Diameter ...	5"														
Height	10														
Altitude ...	700														
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS.		1920-30 TOTALS		
January ...	4.00	4.20	3.10	1.90	2.20	2.60	(3.25)	2.20	5.75	2.25	5.95		37.40		
February ...	2.30	2.22	3.40	5.00	1.98	4.98	3.00	1.56	2.55	.59	1.23		26.81		
March	2.70	1.61	1.95	1.30	1.20	1.15	2.00	2.15	2.53	.58	2.10		19.27		
April.....	4.60	1.00	3.20	2.70	1.70	3.50	1.10	1.72	.80	1.27	(2.96)		24.65		
May	3.20	1.70	1.00	3.10	3.95	5.20	2.50	1.30	1.90	1.64	1.55		27.04		
June	3.05	1.10	1.30	.90	2.90	.06	3.90	3.00	5.50	1.07	1.87		23.65		
July	5.80	1.65	4.70	3.70	4.50	1.10	2.44	4.60	.80	3.09	4.72		37.10		
August	1.40	3.70	5.56	3.40	3.45	3.10	3.80	6.45	4.20	2.32	3.74		41.12		
September...	.90	1.20	3.50	3.30	3.50	2.30	1.20	3.72	.97	.45	3.70		24.74		
October.....	3.05	2.00	1.20	3.60	3.50	3.70	3.50	3.18	5.25	3.09	2.55		34.62		
November...	1.70	2.60	1.20	3.50	2.60	2.30	6.00	3.00	7.20	3.80	4.81		38.71		
December...	3.10	4.00	3.40	3.50	3.46	4.20	1.30	4.00	1.70	6.10	2.90		37.66		
TOTALS...	35.80	32.98	33.51	35.70	33.94	34.19	(33.99)	36.88	39.15	26.25	(38.08)		371.67		
M	M	M	M	M	M	M	M	M	M	M	M				

Imprecise pt. 3. VII-23 S. on open moor, some reeds to S + E -
 thin base of trees 100 yds to S + stunted heath to E. Recommended filling up
 general 6 in. soil top. Slightly over exposed but fairly good.

1926. Jan. est¹ from surv. stat².

1930. April total missing. Obs¹s suggested value accepted. (3.660560/26 = 3.770)

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 from gauge	Parish Church.	Distance from gauge
1920			Birstwith	2 1/2 mi	N	Birstwith	2 1/2 mi

RAINFALL at Harrogate W.W. (Knab's Moor)

County of West Riding Observer A.S. West, Esq., C.E.

River Basin River - Nidd - II

Type of Gauge

Annual Average Rain. in. based on 14 years obs. un-weighted. Period of average 1881-1915 Ref. A. I.W.S.
(1939) 32.5 14 660560/26

Diameter	5.											
Height	1.0											
Altitude	700											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940		1931-40 Means Total
January	1.36	2.47	2.05	2.12	1.47	4.15	3.93	4.58	5.50	1.65	29.78	
February	(2.70)	.37	4.09	.25	3.80	2.70	3.60	1.76	2.90	1.73	23.90	
March	.56	2.03	1.47	2.75	.60	2.50	2.68	.73	2.43	2.46	18.21	
April	3.34	3.08	2.70	3.04	1.80	1.15	2.52	.33	2.10	2.48	22.54	
May	3.60	4.40	3.22	1.75	1.23	2.40	3.20	1.55	1.09	.95	23.39	
June	5.50	.64	1.78	1.65	3.70	5.70	2.99	3.15	2.28	.84	28.23	
July	3.75	3.80	1.75	1.45	.42	4.00	2.09	3.25	5.50	3.30	29.31	
August	4.73	1.72	0.46	1.36	2.21	3.19	1.19	3.72	3.30	.73	22.61	
September	5.50	2.80	2.25	2.35	5.70	2.48	1.58	2.60	1.60	2.80	29.66	
October	1.07	3.70	3.57	2.70	5.35	2.38	2.65	5.80	2.44	1.71	31.37	
November	5.11	2.02	3.51	2.35	6.58	(3.95)	1.78	3.80	6.30	4.50	39.90	
December	1.08	1.21	0.88	6.00	2.20	2.24	1.90	6.00	2.67	3.22	27.40	
TOTALS	(38.80)	28.24	27.75	27.77	35.06	36.84	30.11	37.27	38.11	26.37	326.30	M

1931. Feb. adjusted by surrounding stations.

1936. Was computed in 1930, without adjustment.

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	Direction
1931			Hampsthwaite	3 m	NW	Kettleing	1 m	N

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

Station No. 3356

RAINFALL at Harrogate W.W. (Knab's Moor)

41

Revised 1945

County of West Riding

Observer

A. S. West Esq. C.E.

River Basin Ouse Nidd - 11

The Lieut. Engineer

Type of Gauge

Annual Average 32.5 in. based on 111 years obs. ~~1/4~~-weighted. Period of average 1831-1915. Ref. I.W.S.

File No. 660.560/26

Diameter	5"	058	279								
Height	1' 0"		1								
Altitude	700'		41								
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1941-50 Means Total
January	5.10 (3.25)	4.45	3.03 (4.00)	3.57	2.75	7.31	7.32	7.00	7.78	7.78	
February	6.00 3.25	1.98	1.35	3.49	1.42 (3.40)	2.28	1.54	5.2	29.98	29.98	
March	4.07 2.76	1.03	1.41 (1.73)	1.80 (6.81)	1.60	1.03	1.74	22.98			
April	(2.63) 1.50	1.62	3.83 (2.30)	1.64	3.48	2.50	2.78	2.79	25.07	25.07	
May	2.40 2.75	1.90	1.19	2.38	2.78	3.23	1.05	2.19	2.42	22.29	
June	.10 1.15	2.23	2.71	3.47 2.57	3.35	3.35	.94	.75	20.62	20.62	
July	2.40 2.25	2.05	4.18	1.95 4.50	2.25	1.48	2.44	3.29	26.79	26.79	
August	2.16 2.50	3.10	3.40	3.23 5.50	.63	4.40	1.95	5.61	32.48	32.48	
September	.34 1.35 (3.21)	5.35	1.65	6.19	1.88	2.73	1.15	4.72	28.57	28.57	
October	4.15 2.80	2.01	3.05	5.14 2.16	1.75	1.51	3.46	1.86	27.39	27.39	
November	3.43 (1.46)	2.65	5.86 6	60 6.57	3.25	1.21	4.52	4.89	53.94	53.94	
December	1.35 3.10	2.42	3.92	2.44 2.60	3.12	3.23	4.60	1.98	28.80	28.80	
TOTALS	34.13 (28.12)	28.65	38.32	32.38 41.30	35.90	32.65	27.92	36.32	335.69	335.69	
	M	M	M	M	M	M	M	M			

1941 April apportioned from nearby sites. 30004

1942 Jan - Nov estd. by observer.

1943 September estd.

1944 Jan part.

1945 Feb & Mar. part. 00104

1946 Feb & Mar. part. see in pen show

1944 Dec part by ref. to 1940. 00024

0004 00024

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
1941			Hampshirewaite	3 mls.	N.W.	Kettlethorpe	1 ml.

Station No. 3356

51

RAINFALL at ~~5~~ Harrogate M.W. (Knaresborough)

County of West Riding - Yorks

Observer The Mete. Engineer

River Basin River - Hill - 11

Local Water Board

Type of Gauge H.O.

Annual Average 32.5 in. based on 14 years obs. un-weighted. Period of average 1981-1915 Ref. I.W.S.
33.23 " " 35 " " 1916-1950 1916-1950 P
File No. 66050726 E 16133/53

Diameter ...	5"	0.58	279								Means
Height ...	1'0"			1							Total
Altitude ...	700'			51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	2.67	4.10	.83	2.61	2.84	5.25	2.75	3.42	3.29	5.47	33.23
February	3.10	.62	2.00	2.93	2.65	2.64	3.06	5.88	.27	3.51	26.66
March	3.55	2.25	.75	2.15	2.22	1.56	2.92	2.48	1.82	2.71	22.41
April	1.50	1.66	2.52	.45	1.05	2.73	.27	.90	4.18	2.21	17.27
May	5.10	1.84	1.90	4.23	2.97	1.07	1.30	4.35	1.04	1.00	24.80
June	1.08	1.94	1.59	1.96	2.40	3.27	1.96	3.82	1.75	1.31	21.08
July	2.53	1.56	3.45	1.83	1.35	5.90	3.08	3.92	2.35	5.53	31.50
August	5.70	3.39	4.72	6.21	1.91	6.96	5.95	2.66	.90	3.04	41.44
September	3.10	4.26	3.19	2.86	2.19	4.81	4.56	4.14	.18	3.54	32.83
October	1.06	3.73	2.01	4.98	2.69	1.30	4.08	2.56	3.19	6.30	31.90
November	8.06	1.89	3.38	6.11	2.61	.81	2.25	.94	5.14	6.00	37.19
December	4.23	2.33	1.64	4.17	4.83	4.29	3.41	5.85	7.55	4.44	42.41
TOTALS ...	41.68	29.57	27.98	40.69	29.71	40.59	35.59	40.92	31.66	44.83	363.02
	M	M	M	M	M	M	M	M	M	M	

High. in 1959 f.B.O.H. over-surface all directions. Turf wall fair

STurf-wall

Position of Station on Ordnance One-Inch map :

No. of Map 96

National Grid Reference 44/23 557

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Parish Church.	Distance from gauge.
1951			Hempworth	3m. NW	Wetherby	1m. N.

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
	C 1913	✓	✓	✓	