

RAINFALL at Harrogate Knab's Man MCounty of W.R. Yorkshire Observer A. L. Whalley C.E.River Basin Case Nidd 11Bradford Rain Gauge, by

Diameter ...				5							
Height .....				10							
Altitude ...				700							
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1910-19 MEANS. 10.21
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 .....				3.45	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	1.65	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
August .....				.95	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	3.30	15.20
November ..				2.60	4.90	1.90	3.35	3.40	1.55	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	29.34	36.85	24.69	129.48

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
			Borstwich	2 1/2 m	N	Borstwich	2 1/2 m	N

RAINFALL at Harrogate W. R. Llandis MoorCounty of W. R. YorkshireObserver: A. S. West Esq. C.E.River Basin Cuse-Ridd 11Water Eng. Harrogate

Bradford Rain Gauge, by Cassella  
 Gal. iron Evaporation 8947  
 inner can 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 MISS.	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	2.2	3.40	5.00	.98	4.98	3.00	1.56	2.55	.59	1.23	25.81	
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)	24.55	
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	.10	1.30	.70	2.90	.06	3.90	3.00	5.50	1.07	1.87	23.65	
July .....	5.80	1.65	4.70	3.20	4.50	1.10	2.44	4.60	.80	3.09	4.72	37.10	
August .....	1.40	3.70	5.56	2.40	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	23.98	33.51	35.90	33.94	34.19	33.99	36.88	39.15	26.25	(38.08)	371.67	
				M	M	M	M	M	M	M	M		

Impulse pt. 3. VII. 23 S. on open wood, some shelter to S & E —  
 thin belt of trees 100 yds to S & stunted hedge to E. Recommended falling up  
 funnel to ft. 6 in. with diff. Slightly over exposed but fairly good.

1924. Jan. set from succ. stat.

1930. April total missing, Obs<sup>r</sup>'s suggested value accepted. (3. 660560/26 Inc. 370)

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
1920			Pinstwith	2 1/2 mi	N	Pinstwith	2 1/2 mi	N

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

County of West RidingObserver A. S. West, Esq., C.E.River Basin Ouse - Nidd - Il.

Type of Gauge .....

Annual Average 30.2 in. based on 14 years obs. un-weighted. Period of average 1881-1915 Ref. 1 I.W.S.  
(1939) 32.5 14 66056926

Diameter	5.										
Height	1.0.										
Altitude	700.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1931-40 Means Total
January	1.86	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	3.87	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	27.78	27.77	35.06	36.24	30.11	37.27	38.11	26.37	326.30

1931. Feb. adjusted by surrounding stations.

1936. Nov. computed in A.D.O., but not verified.

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
1931			Hampsthwaite	3 m	NW	Kettleasing	1 m	N



Station No. 3356

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

41  
Revised 1945

County of West Riding

Observer A. S. West Esq. CE

River Basin Ouse Nidd - 11.

The Water Engineer

Type of Gauge

Annual Average 32.5 in. based on 14 years obs.  $\frac{1}{4}$ -weighted. Period of average 1881-1915 Ref. IWS

File No. 660560/25

Diameter	5"		058	279							
Height	1' 0"			1							
Altitude	700'			41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means 1941-50 Total 4
January	5.10	(3.25)	4.45	3.03	(4.00)	3.57	2.75	7.31	1.32	2.00	36.78
February	6.00	3.25	1.98	1.35	3.49	1.42	(3.40)	2.28	1.54	5.27	29.98
March	4.07	2.76	1.03	.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
May	2.40	2.75	1.90	1.13	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
July	2.40	2.25	2.05	4.18	1.95	4.50	2.25	1.48	2.44	3.29	26.79
August	2.16	2.50	3.10	3.40	3.23	5.50	.63	4.40	1.95	5.61	32.48
September	.34	1.35	(3.21)	5.35	1.65	6.19	1.88	2.73	1.15	4.72	28.57
October	4.16	2.80	2.01	3.05	5.14	2.16	1.75	1.51	3.46	1.36	27.39
November	3.43	(1.46)	2.65	5.86	.60	6.57	3.25	1.21	4.52	4.89	33.94
December	1.35	3.10	2.42	3.98	2.44	2.60	3.12	3.23	4.60	1.98	28.80
TOTALS	34.13	(28.12)	28.65	38.32	32.38	41.30	35.90	32.65	27.92	26.32	335.69
	M	M	M	M	M	M	M	M	M	M	

1941 April apportioned from nearby stns. 30004

1942 Jan &amp; Nov est'd by observer. 54004

1943 September est'd.

1945 Jan part. 00104

1947 Feb &amp; Mar. part. est'd by observer

1944 Dec part by Feb 5 of 1940. 04004 00024

Feb 14 &amp; 15.

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.
1941			Hampsthwaite	3 mls.	N.W.	Kettleasing	1 ml.	N.

RAINFALL at Scarrogate W.W. (Knap's Moor) Station No. 3356  
 County of West Riding - Yorks Observer The Water Engineer,  
 River Basin Case - Middle - II Belvoir Water Board  
 Type of Gauge H.O.

51

Annual Average 32.5 in, based on 116 years obs. un-weighted. Period of average 1881-1915 Ref. I.W.S.  
32.23 " " 35 " " 1916-1950 1916-1950 66.56/26.133/53  
 File No. 66.56/26.133/53

Diameter ...	S"										
Height ...	1'0"										
Altitude ...	700'										
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	4.41	42.71
TOTALS ...	41.68	29.57	27.98	40.49	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 1951 B.O.K. Own record all directions. Total well low

STuff-wall

Position of Station on Ordnance One-Inch map : No. of Map 96 National Grid Reference 44/23.53

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge.	Direction from gauge.
1951			<u>Humphreys</u>	3m.	NW.	<u>Hethering</u>	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
	<u>C 1913</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	