

RAINFALL AT Knaresborough Water Tower

Lat.

Lon.

County of York Northern

Snowdon Rain Gauge, by
and Skyrace 98

Observer F. J. Dixon Esq C.E.
F. Bagshaw Esq C.E.

Diameter . .										8
Height . .										10
Altitude . .										240 <u>m</u>
Year . .	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909 MEANS.
January . .										1.18 1.18 1.00
February . .										1.82 1.63 .60
March . .										1.76 3.58 4.39
April . .										1.28 2.70 2.61
May . .										4.01 2.34 1.68
June . .										2.78 1.13 3.42
July . .										1.70 2.48 3.22
August . .										1.84 1.49 3.24
September . .										.90 2.33 1.45
October . .										6.59 1.49 2.22
November . .										2.94 1.42 .72
December . .										2.90 1.38 4.59
TOTALS . .										29.60 23.15 29.14

1907 Knaresborough Church 500 ft 500 yards N E
Slates 1100 ft 400 N E

1908 Water tower 50 ft high 56 ft N E surrounded by
Buildings near 12 ft or thereabouts

RAINFALL at Knaresborough Water Tower

County of W.R. Yorkshire

Observer

T. Bagshaw Esq. C.E. A. H. W. Ch.

River Basin Ouse. Nid. II

Rainfall Rain Gauge, by

Diameter ...	8										
Height	10										
Altitude ...	240 ft										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	3.76	1.28	4.40	4.03	1.16	3.76	1.05	2.35	2.78	2.90	
February ...	2.65	1.67	2.11	.83	1.52	3.17	3.25	.72	2.71	1.57	
March59	1.29	3.32	3.23	2.43	1.14	3.94	2.72	1.14	3.68	
April	2.73	1.34	.15	2.91	.80	1.81	1.08	2.26	1.19	1.48	
May	2.81	1.06	3.32	1.65	1.11	1.59	2.67	1.57	3.86	1.56	
June	1.84	2.99	5.86	1.13	1.99	1.03	1.92	1.77	.86	.81	
July	2.82	.30	4.53	.87	3.86	3.86	1.56	1.61	2.88	2.44	
August	3.93	2.93	5.77	1.03	1.55	1.74	1.78	6.68	2.69	1.71	
September ..	.17	2.71	1.59	1.03	1.22	1.33	1.62	.48	6.43	1.11	
October ...	2.71	2.87	2.85	2.87	1.69	1.23	4.54	3.81	1.27	3.51	
November ..	2.97	3.23	2.02	2.06	3.71	1.71	2.68	1.84	1.49	(2.26)	
December ...	2.37	4.17	2.28	1.99	5.56	6.63	1.18	1.36	4.32	3.05	
TOTALS ...	29.35	25.84	38.20	23.63	26.60	28.53	27.27	26.57	31.61	(25.88)	

1912. surrounded by buildings nearest 12 ft
1919. November partly east.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
			Knaresb	100 ¹⁰ / ₁₂ mds	N	Holy Trinity	560 ft	S.E.

RAINFALL at Knaresborough Water Tower

County of W.R. Yorkshire

Observer A. S. West Esq. B.E.

River Basin River Nidd

Water Engt. Harrogate

Plates
Rain Gauge, by
8.00 corrct. Gauge somewhat
backed up 23 Glass correct

Diameter ...	9											
Height	1	0										
Altitude ...	240											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.	1930
January ...	2.25	3.02	3.02	1.26	2.30	1.77	2.68	1.91	6.35	1.74	4.96	
February ...	1.63	11	2.75	4.45	.67	4.18	1.87	1.14	2.68	1.01	1.02	
March	1.92	1.09	1.87	1.78	1.10	.64	1.24	1.71	2.69	.58	2.91	
April.....	4.64	1.02	3.07	1.70	1.93	3.71	.65	1.63	.63	1.05	3.31	
May	2.43	1.43	.83	2.83	5.06	4.46	2.40	2.06	2.95	1.47	1.85	
June	1.30	.21	1.58	.93	1.68	.02	2.54	2.79	4.85	1.51	1.84	
July	5.63	1.36	4.89	3.27	3.30	1.53	1.48	4.74	6.0	2.64	5.64	
August	1.41	3.14	6.62	3.22	2.87	1.99	2.63	7.44	4.77	2.43	3.16	
September...	.97	1.19	3.22	2.22	2.43	2.87	1.41	4.52	.39	.50	4.46	
October.....	3.53	1.60	.68	2.83	2.90	3.36	3.44	3.09	5.36	3.16	2.41	
November...	1.35	2.62	1.34	3.02	2.69	2.00	5.94	2.70	.327	3.90	5.34	
December...	2.58	2.67	3.88	2.77	3.00	3.49	.86	3.10	1.19	6.05	3.02	
TOTALS...	29.64	19.46	33.75	30.28	29.93	30.02	27.17	36.83	35.13	26.04	39.92	

1920 Surrounded by Buildings nearest 12 ft.

Inspected 23. viii. 23. S. in good position but rather near wall + bags have apparently thrown stones from wall. no better position

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
			Knaresborough	1100ft	N
					Holy Trinity
					560ft SE

RAINFALL at Knaresborough (Water Tower)

County of West Riding

Observer A.S. West, Esq., C.E.

River Basin Ouse - Nidd - II

Type of Gauge

Annual Average 27.1 in. based on 24 years obs. un-weighted. Period of average 1881-1915 Ref. 5

660560/26

Diameter	8				5			8	8	Means
Height	1.0									
Altitude	240									
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940
January	2.80 (6.86)	1.96	2.32	2.28 (3.70)	3.22	3.84	4.81	4.81	4.6	
February	2.30 (4.41)	4.63	5.55	3.59 (2.80)	4.26	1.77	2.15	1.81		
March	1.80 (1.94)	1.84	2.82	1.77 (2.40)	2.85	1.13	1.83	1.78		
April	3.25 (2.70)	1.89	3.62	2.22	1.63	3.28	1.07	1.04	2.14	
May	3.30 (6.90)	3.55	1.69	1.21	2.32	3.18	3.10	1.12	1.06	
June	4.75	1.50	1.39	2.45	3.44	2.74	1.07	2.77	1.88	.35
July	4.75	5.23	2.14	1.64	1.56	3.51	2.11	2.91	5.72	5.59
August	3.50	1.52	0.88	1.75	1.67	1.94	1.91	3.17	1.84	.51
September	3.30	2.35	2.49	2.51	6.03	1.94	1.24	2.55	1.55	2.23
October	1.10	4.03	3.98	2.70	5.02	1.50	2.84	4.55	2.58	3.19
November	6.50	2.57	3.53	2.52	5.96	2.97	1.64	3.35	3.37	3.95
December	1.10	1.23	0.94	6.35	2.89	1.86	2.77	4.08	1.88	2.67
TOTALS	(36.75) (30.24)	28.47	30.92	35.64 (31.01)	28.87	32.29	29.74	26.74		

1931 np. big. Observer says "delete 5" from total, gauge old + worn.
 Gauge repaired 6/5/32.

1932. Leak repaired early May. Earlier months amended accordingly.

1935. np. leaking

1936. Jan. max. adjusted by surrounding stations.

1940. Jan part estd.

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			Knaresborough	1 fm	NW	Trinity	150 yds	SE.

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

Station No. 3363

RAINFALL at Knaresborough (Water Tower)

County of West Riding

Observer A.S. West Esq. C.E.

River Basin Ouse Nidd

The Water Engineer

Type of Gauge

Annual Average 32.1 in. based on 24 years obs. w/w weighted. Period of average 1881 - 1915 Ref. S

File No. 660562/26

41

Diameter	8"		058	611							
Height	1' 0"			1							
Altitude	240'			41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	3.71	3.40	3.99	3.04	3.46	2.81	2.32	5.90	1.02	1.15	
February	3.93	1.40	1.05	1.23	3.02	2.63	2.51	1.54	1.35	4.92	
March	2.71	2.21	.76	.29	.74	.97	4.81	1.25	1.06	1.12	
April	1.59	1.41	1.22	2.97	1.68	2.03	3.08	2.46	2.4	2.77	
May	1.62	2.46	2.16	.60	1.96	2.64	3.64	.89	1.92	2.05	
June	.23	.75	1.83	3.72	2.93	2.00	3.12	3.51	.71	.41	
July	2.04	2.35	1.12	2.48	1.68	4.23	1.73	.76	2.00	2.83	
August	3.19	2.15	2.19	3.01	3.53	4.01	.85	4.49	1.93	3.89	
September	.50	1.55	3.33	4.69	1.45	4.83	1.38	1.48	.91	3.08	
October	2.32	2.19	1.59	2.48	3.67	.98	.75	1.17	2.64	1.48	
November	2.83	1.38	2.32	5.02	3.6	5.48	2.25	1.03	3.63	4.22	
December	.69	1.98	1.41	2.76	1.79	2.41	1.87	2.73	2.96	1.85	
TOTALS	26.26	23.23	22.96	32.35	26.27	35.02	28.31	27.21	22.59	29.77	

1947 n.p. low Gregson States 222 not satisfactory but no other available in restricted area.
1948. n.p. low. 2.9.49Position 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			Knaresborough	1/4 mi.	N.W.	Holy Trinity	150 yds. S.E.

Station No. 3363

RAINFALL at Knaresborough (Water Tower)

County of West Riding - Yorks.

Observer The Water Engineer,
Clayo Water Board.

River Basin Ouse - Nidd - 11

Type of Gauge M.D.

A.W.S. 1452

Annual Average 27.1 in. based on 24 years obs. un-weighted. Period of average 1881-1915 Ref. 8
" " 28.65 " 36 " with 1936-57 " 1916-50 File No. 660560/26

Diameter ...	8"		058	611							
Height ...	1'0"			1						11"	
Altitude ...	240'			51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	2.18	2.45	1.43	1.91	1.56	3.98	1.61	2.49	2.66	4.98	
February	2.56	1.34	1.16	2.22	1.69	1.53	2.62	4.20	1.10	1.80	
March	3.32	2.01	1.49	1.96	1.98	1.15	1.70	1.78	1.26	2.21	
April	1.07	1.26	2.01	1.26	1.91	2.08	1.23	1.01	3.61	1.33	
May	5.95	1.35	1.40	3.96	2.48	1.58	1.88	2.95	1.60	0.79	
June	1.88	1.94	1.37	1.82	1.55	2.98	1.24	2.65	1.08	1.06	
July	2.03	1.93	2.24	1.04	1.15	5.24	2.98	3.15	1.59	4.01	
August	5.61	2.72	3.14	6.24	1.24	6.08	6.73	4.69	1.65	2.41	
September	2.15	3.47	1.46	2.16	1.40	3.21	3.52	2.69	.09	2.97	
October	1.69	3.08	2.03	4.00	1.91	1.07	2.74	1.86	2.07	6.37	
November	6.57	1.52	2.61	5.34	2.15	1.63	1.87	.68	4.06	5.05	
December	2.41	1.88	1.28	3.19	3.79	2.40	2.85	3.79	4.77	3.08	
TOTALS ...	35.42	22.95	19.62	34.10	21.81	30.93	28.57	31.94	22.54	36.06	
	D	d	d	d	D	d	d	d	A	D	

Half-B 1951/60%. Scaled gauges of A-table and gauge. Satisfactory scheme.

19 87 72

Position of Station on Ordnance One-Inch map : No. of Map 96 National Grid Reference 44/348667

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge
1951			Knaresborough	1 km	NW.	Holy Trinity	1.50 km SE

Summary of Earlier Records from 10-year Sheets :

Record D, or d		1910-19 13	1920-30 13	1931-40 13	1941-50 13	1951-60
		✓	✓	✓ A 1931 np. np 38.	✓ np 47-48 ✓ bnd 232	✓ np 47-48 ✓ bnd 16-49-50