

RAINFALL AT *Harrogate* = Irougate Service Reservoir **80**

Lat.

Lon.

County of

York wr

Rain Gauge by

Observer

E. W. Dixon Esq.

Dove Nidd - 71

Diameter					8				8	
Height					2.6				2.0	3.6
Altitude					455				455	
Year.....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889
	MEANS.									
January					4.47	1.94	2.65	1.33	.72	.78
February					2.25	2.28	.460	.54	.20	1.01
March					2.05	1.57	1.72	.81	2.36	1.63
April					2.30	1.36	2.00	.62	2.15	2.18
May					1.25	2.22	3.90	2.00	1.00	2.63
June58	2.45	1.10	.01	2.04	.53
July					4.02	1.11	3.15	1.50	5.00	1.13
August					1.14	1.60	2.25	2.40	3.16	3.47
September....				#	1.70	3.67	1.72	3.26	.76	.73
October					3.35	1.50	4.40	4.12	2.04	4.08
November....					2.70	1.12	2.18	1.83	2.50	5.37
December83	3.10	.57	3.15	1.84	1.19
TOTALS					2548	2535	28.05	18.85	24.39	20.15
									18.04	24.44
										20.83

1889 House 30 ft high 450 ft NW.W

 Tabulated from the Records at Harrogate by W. G. J. Symons
 1889 April Fall from 14th to 30th estimated

RAINFALL AT Harrogate Service Reservoir, Irongate

Lat.

Lon.

County of

York W.R.

Rain Gauge, by

Observer E.W. Dixon Esq.

Dose Nidd 11

Diameter	8										
Height	26										16
Altitude	455										
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	3.78	1.29	1.12	.72	3.51	3.16	.81	1.82	1.36	3.80	2.187
February83	.01	2.02	3.01	5.67	.23	.66	2.78	1.70	1.74	1.865
March	1.79	1.19	.92	.68	2.53	2.44	2.91	3.43	.63	1.32	1.784
April79	2.12	1.19	.68	2.20	2.16	1.25	1.88	2.71	1.87	1.685
May	2.04	1.18	2.82	2.25	1.58	.39	4.8	1.00	2.12	3.51	1.737
June	1.76	1.23	4.15	1.58	3.50	2.27	4.54	4.17	1.54	1.51	2.628
July	2.38	3.30	.91	3.17	2.55	6.65	1.63	.45	.90	2.08	2.402
August	4.47	3.14	3.02	2.00	2.87	2.74	1.94	3.21	3.19	1.47	2.805
September	1.88	1.73	1.14	(1.59)	.95	1.13	3.57	3.01	.95	3.14	(1.909)
October	1.07	3.88	6.78	2.21	4.10	4.42	3.33	1.77	3.93	2.79	3.428
November	2.55	2.56	1.61	1.58	1.60	3.94	1.49	1.82	2.64	1.27	2.106
December	1.12	3.95	.89	3.73	1.89	3.14	4.59	3.00	3.11	3.38	2.880
TOTALS	24.46	25.58	26.60	(23.20)	32.95	32.67	27.20	28.34	24.78	27.88	(27.366)

1898 Jan Tabulated from the records at Harrogate by W.W.G.J. Symons

1893 Sept. Fall from 1st to 18th estimated

RAINFALL AT ~~Hanngate~~, Irongate Bridge

Lat.

Lon.

County of

York W.R. Northern

*Flasher
Midd - II.*

Rain Gauge, by

Observer E.W. Dixon Esq C.E.

7 J. Dixon Esq C.E.

7 Bagshaw Esq C.E.

Diameter ..	8										
Height ..	1 6										
Altitude ..	455T										
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	3.96	1.32	1.16	2.05	2.31	.86	3.99	.95	1.44	.95	1.902
February ..	4.07	1.14	1.29	2.72	3.35	1.50	2.04	1.75	1.39	.68	1.993
March ..	.38	1.74	1.10	3.62	1.66	2.74	1.57	2.14	3.95	4.10	2.300
April ..	1.71	2.47	1.51	1.26	1.58	2.38	.75	1.32	2.25	2.84	1.807
May ..	1.39	1.03	2.59	3.89	2.77	.63	2.04	4.63	2.90	1.87	2.374
June ..	3.63	1.27	1.89	2.00	1.47	1.32	1.06	3.24	1.03	3.51	2.042
July ..	3.10	1.29	2.10	2.73	2.85	1.18	1.70	2.07	2.72	3.95	2.369
August ..	4.62	1.42	2.71	2.83	3.56	3.97	2.86	1.78	1.98	3.68	2.941
September ..	.61	.98	1.07	3.85	1.07	1.72	.62	1.06	2.61	1.96	1.555
October ..	3.30	1.76	3.45	8.03	.59	1.60	4.74	7.26	1.87	2.49	3.509
November ..	3.48	3.89	2.15	1.50	2.06	4.61	3.65	2.77	1.58	.90	2.659
December ..	3.15	3.38	2.25	1.52	1.54	.48	1.74	3.44	1.35	4.76	2.361
TOTALS ..	33.40	21.69	23.27	36.05	24.81	22.99	26.76	32.41	25.07	31.69	27.812

1908 1/2 Wilfords Church 1/2 mile NE
 Hanngate Station 1/4 " E
 Nothing near

H.W.

058519

103360

RAINFALL at Harrogate Irongate Bridge Reservoir

County of W.R. Yorkshire

Observer F. Bagshaw Esq. cl. as Water C.E.

River Basin River Nidd

Flasher Rain Gauge, by

Diameter ...	8											
Height	1 6											
Altitude ...	455 ft	555 ft	455 ft									
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	
January ...	3.22	1.12	4.89	3.51	1.55	4.31	1.84	2.54	2.72	4.41		
February ...	3.14	2.80	1.84	.95	1.77	3.71	3.71	.85	3.29	3.15		
March58	1.47	4.00	3.57	2.99	.89	3.95	2.32	1.28	3.50		
April	2.73	1.26	.32	3.19	1.18	1.84	1.65	1.62	.81	1.61		
May	2.61	1.06	3.46	2.29	1.39	1.75	3.14	2.17	3.21	1.42		
June	3.19	3.14	7.20	1.54	2.23	.99	1.94	1.88	.75	1.43		
July	3.41	.44	5.38	1.13	4.97	4.16	2.07	1.41	4.67	2.87		
August	4.48	3.10	6.10	1.23	1.52	2.60	1.94	7.68	2.88	3.53		
September ..	.21	3.12	2.08	1.30	1.56	.78	2.10	.90	7.68	1.07		
October ...	3.82	3.35	3.47	3.03	2.08	1.51	5.96	4.37	1.86	3.50		
November ...	4.06	3.43	1.56	2.71	4.01	1.85	3.20	2.82	1.60	1.99		
December ...	3.28	4.91	2.82	1.76	7.06	7.08	2.34	1.24	5.82	4.71		
TOTALS ...	34.73	29.20	42.72	26.21	32.31	30.87	33.34	29.80	36.87	30.42		

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
			Harrogate	1/4 m	E	St. Wilfrid's	1/2 m	NE

RAINFALL at Harrogate Irongate Bridge Reservoir

County of W.R. Yorkshire Observer A. J. Neal Esq. C.E.

River Basin Ouse - Nidd II Water Eng. Harrogate

7.98 Gauge Rain Gauge, by
 7.98 unbreakable holds 1.5 in. but water can good
 7.98 Casella glass cover. } JU. 23

Diameter ...	8									1930 MEANS:	
Height	1.6										
Altitude ...	455										
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	
January	3.58	4.02	3.32	2.91	2.89	3.34	3.26	2.57	7.71	1.76	5.73
February ...	2.26	1.12	3.15	5.25	8.85	5.20	2.61	1.32	3.85	.87	.94
March	2.45	1.90	2.15	1.70	1.49	.82	1.09	2.18	3.22	.59	2.69
April.....	4.70	1.10	3.54	2.33	2.12	4.58	1.41	1.95	1.10	1.32	3.27
May	3.02	1.91	1.12	3.65	5.02	4.87	2.35	2.06	2.45	1.49	1.64
June	1.87	1.16	1.61	1.02	2.96	.04	3.50	3.05	5.69	1.32	1.70
July	6.07	1.41	5.49	2.93	4.03	1.34	2.21	5.04	.92	3.22	5.01
August	1.73	3.77	6.90	3.91	3.47	2.28	3.10	9.84	4.78	2.31	4.24
September...	1.00	1.06	3.78	2.70	3.11	2.60	1.46	4.55	.46	.44	4.70
October.....	3.43	1.76	.91	4.01	4.72	3.63	3.60	3.43	5.83	3.18	2.56
November...	1.59	2.46	1.32	3.47	2.53	1.79	6.03	3.30	4.11	4.70	4.99
December...	3.21	3.83	3.92	3.48	3.90	3.82	.86	2.42	1.88	6.52	3.09
TOTALS....	35.41	23.49	37.21	26.41	37.09	34.31	31.48	41.71	81.10	27.72	40.46

Inspected by 2. VIII. 23 in good position in open field near reservoir.

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	Direction from gauge
			Harrogate	1 1/2 mi E		St. Wilfreds	1/2 mi	NE

RAINFALL at Harrogate (Irongate Bridge Res.)

County of West Riding.

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

River Basin. Ouse - Nidd - II.

Type of Gauge.....

Annual Average 29.3 in. based on 47 years obs. un-weighted. Period of average 1881-1912 Ref. 5

Diameter	8.										
Height	1.6.										
Altitude	455.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means 1931-40
January	1.93	2.19	2.00	2.42	1.54	4.51	4.08	4.29	4.92	1.68	29.86
February	2.14	2.24	4.53	3.6	3.85	2.58	5.38	1.67	3.09	1.83	25.71
March	.62	2.13	1.88	3.06	1.01	3.02	3.01	.24	2.46	2.06	19.49
April	3.73	2.75	1.31	4.11	2.32	1.94	3.74	.15	1.74	3.06	24.87
May	3.49	5.26	3.32	1.81	1.15	2.33	3.23	3.23	1.25	.87	25.94
June	5.97	.73	1.01	2.82	3.54	4.92	1.71	3.13	2.28	4.5	26.86
July	3.59	4.23	2.46	1.39	.79	4.56	2.26	4.26	6.09	6.28	35.90
August	3.88	1.53	0.43	1.61	1.80	2.20	1.02	4.00	2.48	.68	19.63
September	6.03	2.75	2.10	2.63	5.80	2.55	1.36	2.76	1.33	2.60	29.91
October	1.05	4.20	4.06	2.77	5.77	1.99	2.46	5.74	3.33	3.94	35.31
November	5.20	2.48	3.16	2.57	5.84	3.62	1.92	3.98	4.71	5.07	38.54
December	1.24	1.26	0.68	6.47	2.57	2.80	3.05	4.76	2.29	3.45	28.57
TOTALS	39.17	30.05	27.03	32.02	35.98	37.02	33.21	38.21	35.99	31.97	340.65

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

Reference No.

1 mile to 1 inch Series							
Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge
1931			Harrogate	1m	E	St Marys	1/4m ESE

Station No. 3360

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RAINFALL at Harrogate (Irongate Bridge Rec.)

County of West Riding

Observer

Retired 1945

River Basin Ouse Nidder - II

The Lakes Engineers

Type of Gauge

Annual Average 29.3 in. based on 47 years obs. un-weighted. Period of average 1881-1915 Ref. S

File No. 660.560.126

Diameter	8"	058	519			8"			8"		
Height	1' 6"			1							
Altitude	455'		111								
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	
January	3.92	3.53	4.62	4.49	3.71	3.72	2.78	8.36	1.26	1.83	38.22
February	4.81	1.47	1.73	1.65	4.08	3.78	2.20	2.29	1.65	5.49	29.15
March	3.82	2.36	.98	.43	1.18	1.20	6.73	1.65	1.04	1.21	20.65
April	2.56	1.76	1.64	3.28	2.18	1.83	3.93	3.24	3.12	2.89	26.43
May	1.86	3.28	2.44	.83	2.42	3.09	4.65	1.24	2.31	2.22	24.34
June	.29	1.07	2.62	3.74	2.98	2.30	3.79	4.03	1.06	.88	22.44
July	3.00	2.75	1.65	4.06	2.41	3.91	4.45	1.25	2.70	3.19	29.37
August	3.02	2.86	3.11	3.58	3.63	4.85	1.15	4.26	2.93	4.69	34.08
September	.50	2.13	3.41	5.80	1.83	6.51	2.48	2.22	1.16	3.70	29.74
October	4.50	2.78	2.16	3.34	4.70	3.04	1.60	1.07	4.26	1.87	28.32
November	3.52	1.49	2.79	6.86	51	7.04	4.04	1.37	5.47	4.00	37.09
December	1.20	2.87	1.89	3.78	2.29	2.97	3.33	3.68	5.14	1.81	28.96
TOTALS	32.98	28.35	29.04	41.84	31.92	43.94	41.13	34.66	32.15	33.48	348.79

1947. New gauge
not cleared ready, will be replaced (see and 2.13 file 660.520.126)

2.949. New gauge ready (not from H.O.)

1948. n.p. high 1949. n.p. high

New gauge installed 1.1.50.

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			Harrogate	1 ml.	E.	St. Mary's	1/2 ml. E.S.E.

Station No. 3360

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RAINFALL at Harrogate (Froggattbridge Res.)

County of West Riding Yorks.

Observer

The Water Engineer,
Leeds Water Board.

River Basin. Ouse - Tees - N.

Type of Gauge. T.O. 48.1149

Annual Average 29.3 in. based on 47 years obs. un-weighted. Period of average 1881-1915 Ref. S
 " 32.26 " 8 " 1951-57 1916-50 File No. 660560726 E16.33 153

Diameter	8"	058	519	5"							Means
Height	1'6"		1							11"	
Altitude	455'		51								
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1950-60
January	2.58	3.13	.55	2.08	1.96	4.19	1.67	2.27	3.08	4.91	26.42
February	3.00	.47	1.56	2.71	2.03	1.54	2.67	4.32	.07	2.26	20.53
March	3.59	2.13	.67	2.00	2.11	1.30	2.17	2.01	1.44	2.71	20.13
April	1.21	1.39	2.71	.38	1.04	2.33	.34	.92	4.23	1.44	15.94
May	5.96	1.63	1.53	4.87	2.55	.81	1.21	3.72	.70	0.97	23.45
June	1.11	1.84	1.63	1.92	1.98	3.71	1.62	3.72	1.32	1.05	19.90
July	2.28	1.57	3.18	1.15	1.18	5.11	2.60	3.87	1.63	4.26	26.83
August	5.65	3.39	3.84	6.19	1.22	6.95	5.95	2.86	1.09	2.51	39.05
September	2.53	3.65	2.14	2.53	1.60	4.12	3.90	3.71	.13	3.49	27.80
October	.95	3.59	2.13	4.24	2.21	1.38	3.18	2.06	2.62	6.52	28.88
November	7.45	1.64	2.86	5.44	2.41	.76	1.99	.80	4.19	5.92	33.51
December	3.21	2.16	1.38	2.92	4.10	2.58	2.93	4.46	5.63	3.35	32.72
TOTALS	39.52	26.59	24.18	35.93	24.39	34.78	29.53	34.72	26.13	39.39	315.16
	D	D	D	D	D	D	D	D	D	D	

(Ex) Imp. Holmehead. Condit in d.g. pref'd. On west bank between Headland & Finsdale, q.s. 2nd by 3 ground level bank
No near obstacles, sheltered at adequate distance. A good site, well situated.

Imp. B 1959 100K. Satisfactory. May be very slightly overexposed N-NE.
130 71 83

Position of Station on Ordnance One-Inch map : No. of Map National Grid Reference 544 287 548

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge.
1951.			Harrogate	1m.	E.	St. Mary's	1/4 m ESE

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	/	/	/	Vap 47-49	