

= Ten Acre Res.

80

RAINFALL AT Harrogate Haverah Park Res⁴

Lat. Lon. County of York W.R.
 Rain Gauge, by Observer E.W. Dixon Esq.

House - Nidd II

Diameter			8						8	
Height			2.9						2.0	3.6
Altitude			620						620	
Year.....	1880	1881	1882	1883	1884	1885	1886	1887	1888	M.B.A.S.
January					5.80	2.06	3.10	1.45	.90	.94
February					2.62	2.40	.60	.67	.15	1.12
March					-	1.60	1.66	.97	2.50	1.47
April					2.10	1.74	2.02	.00	2.80	2.22
May					-	2.50	4.45	1.90	.80	2.21
June60	1.95	1.23	.00	2.35	.35
July					4.50	1.10	2.95	1.24	5.33	1.18
August					1.22	1.46	2.40	2.24	3.43	3.55
September....					1.80	3.00	1.96	4.05	.40	1.06
October					4.26	1.33	5.30	4.55	2.00	4.03
November....					3.15	1.17	2.55	2.66	2.80	6.33
December....					1.63	3.57	.80	4.00	1.75	2.05
TOTALS					26.46	31.58	19.07	27.74	19.65	

1889 House 25 ft high 150 ft N

1889 Nov? Readings only from 13th to 30th.

Tabulated from the Records at Harrogate by W.G.J. Symons

Rejected from Survey : 16° too low

Ten Acre Res.

RAINFALL AT Hanogate Haverah Park Reservoir

Lat.

Lon.

County of

York W.R.

Rain Gauge, by

Observer

E.W. Dixon Esq.

ouse Nidd 11

Diameter	8										
Height	2.9										1.6
Altitude	620										
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	3.54	1.40	1.46	.75	3.36	2.83	1.17	2.05	1.93	4.04	2.253
February75	.11	1.42	2.93	5.03	.38	.58	2.94	2.25	1.63	1.802
March	2.03	1.41	.67	.84	2.55	2.59	3.44	4.07	.72	1.42	1.974
April	1.03	1.95	1.53	.68	2.14	2.15	1.61	2.16	2.71	2.46	1.842
May	2.46	1.76	3.14	2.50	1.57	.39	.54	1.25	2.23	3.21	1.905
June	2.22	.99	4.68	1.82	3.16	2.69	5.38	4.66	1.47	1.36	2.843
July	2.79	3.32	1.71	2.52	3.55	4.92	2.03	.79	1.21	1.91	2.475
August	4.40	3.87	4.09	3.15	3.02	2.83	1.64	3.51	3.34	1.22	3.107
September	2.07	(2.07)	1.50	1.55	.94	1.73	4.07	3.07	1.03	3.57	(2.160)
October	1.44	4.20	6.48	2.35	4.91	4.65	3.60	1.88	4.25	2.92	3.668
November	2.14	3.17	1.87	1.64	1.67	4.10	1.44	2.40	2.17	1.19	2.179
December88	4.48	.99	3.65	2.38	3.09	4.64	3.42	3.33	3.00	2.986
TOTALS	25.75	(28.73)	29.54	24.38	34.28	32.35	30.14	32.20	26.64	27.93	(29.194)

Tabulated from the records at Hanogate by
 W.W. G.J. Symons Jan'y 1898
 1891 Sept: Fall from 1st to 20th estimated

Rejected from Survey: 1" too Low

RAINFALL AT Harrogate Ten Acre Reservoir

Lat.....

Lon.....

County of York w^r N^otham

Flath...

Rain Gauge, by

Observer E.W. Dixon Esq C.E.

Grid - II.

7.9 Avenue Esq & Bishopsgate Esq

Diameter ..	8										
Height ..	1.6										
Altitude ..	620 ^T										
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	3.96	1.35	1.34	1.92	2.59	.81	3.55	.84	1.16	.80	1.83 ²
February ..	3.73	1.16	1.13	2.75	2.76	1.39	1.66	1.48	1.30	.54	1.790
March ..	.45	1.52	1.11	3.52	1.47	2.64	1.47	2.06	3.30	3.74	2.128
April ..	1.67	2.86	1.56	1.23	1.68	2.04	.61	1.44	2.31	2.57	1.797
May ..	1.24	1.03	2.96	3.83	2.36	.63	2.13	4.09	2.80	1.67	2.274
June ..	3.67	1.46	1.89	1.72	1.67	1.47	1.04	3.67	.90	3.28	2.077
July ..	3.03	1.57	2.19	3.69	2.89	1.06	1.65	2.09	3.54	3.74	2.545
August ..	5.21	1.26	3.28	3.31	3.54	3.64	2.86	1.74	2.02	3.49	3.035
September ..	.77	1.36	1.19	4.06	1.26	1.81	.72	1.00	2.82	1.70	1.669
October ..	3.70	2.00	3.76	7.96	.74	1.71	4.25	6.73	1.77	2.51	3.511
November ..	3.65	4.08	2.18	1.85	2.38	4.35	3.37	2.35	1.70	.99	2.690
December ..	3.33	2.88	2.29	1.24	1.47	.42	1.59	3.45	1.25	4.18	2.210
TOTALS ..	34.41	22.53	24.87	37.07	24.81	21.97	24.90	30.94	24.87	29.21	27.558

H. J. B.

1905 Beckwithshaw Church 1 $\frac{1}{2}$ miles S E
 Harrogate Station S E
 Nothing near

Reputed from Survey: 1' too low.

058487

10 3351

RAINFALL at Harrogate Ten Acre Reservoir

County of W.R. Yorkshire

Observer T. Bapshaw Esq. cl. a. West Esq. Esq.

River Basin River Nidd 11

Parisher Rain Gauge, by

Diameter ...	8											
Height	1.6											
Altitude ...	620 ft											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS. 1910-19 Years 5	
January ...	2.56	.96	3.64	3.64	1.51	4.45	1.92	3.19	2.66	4.36	12.13	
February ...	2.58	2.65	2.12	1.06	1.64	3.76	3.87	.74	3.73	5.44	10.78	
March54	1.55	3.44	3.26	2.96	.84	3.31	2.36	1.28	2.66	9.61	
April	2.49	1.15	.40	2.92	1.08	1.08	1.48	1.07	.84	1.64	5.03	
May	2.28	.79	2.87	2.59	1.22	1.61	3.07	1.71	3.39	1.47	9.64	
June	2.82	2.82	6.62	1.57	2.33	.54	1.76	1.90	.89	1.54	5.89	
July	2.56	.27	4.70	.82	4.38	3.76	2.09	1.25	4.48	3.20	11.02	
August	3.93	2.63	6.12	1.33	1.44	2.44	2.28	6.51	3.12	5.35	14.26	
September ..	.20	2.43	1.73	1.36	1.65	.53	1.97	1.14	7.50	1.15	11.76	
October ...	4.11	2.90	3.10	2.42	2.36	1.44	5.66	4.01	1.98	3.12	14.77	
November ...	3.49	3.40	1.88	2.63	4.80	1.62	3.10	3.42	1.65	1.98	10.05	
December ...	2.93	4.46	3.07	1.51	6.61	6.77	2.00	1.72	5.89	4.57	14.28	
TOTALS ...	30.49	26.01	39.69	25.11	31.98	28.84	32.61	29.02	37.31	30.88	129.22	

Ejected from Survey : 1° too low.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
			Harrogate	.5 m	SE	Rockwithshaw	1/2 m	SE

RAINFALL at Harrogate W.W. Ten Acres Reservoir

County of W.R. Yorkshire

Observer A. J. West Esq C.E.

River Basin Ure - Nidd 11

Water Sup. Harrogate

Gauge Rain Gauge, by
Snow 31.1.231.96
0.04
8.00

Diameter ...	8									1930 MEANS.	1920-30 TOTALS
Height	1.6										
Altitude ...	620										
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	
January ...	4.10	4.95	3.96	1.67	2.18	2.88	3.20	2.61	6.48	1.61	6.01
February ...	2.09	1.6	3.50	5.35	1.15	4.97	3.05	1.44	5.10	1.74	1.29
March	2.81	1.71	2.48	1.56	1.23	1.29	1.26	2.23	3.00	3.9	2.75
April.....	4.66	1.03	3.15	2.24	1.86	3.85	1.62	2.10	1.00	1.40	3.49
May	3.64	1.94	1.01	3.20	4.92	5.03	2.47	1.87	2.51	1.96	1.67
June	1.51	1.10	1.43	.87	2.20	.06	4.13	3.48	5.61	1.04	2.13
July	7.37	1.90	5.13	4.04	4.47	1.05	2.47	4.39	.83	3.20	5.10
August	1.93	4.10	5.50	4.17	3.02	2.87	3.43	8.17	4.22	2.33	3.33
September...	1.05	1.09	3.76	2.67	3.48	2.31	1.58	4.00	.42	.91	4.12
October.....	3.72	1.89	1.02	3.75	3.84	3.72	3.77	3.18	5.33	3.13	2.81
November...	1.93	2.82	1.22	3.60	2.89	2.38	6.11	3.42	4.08	4.70	4.64
December...	3.47	4.56	3.61	3.31	3.10	4.18	1.20	2.88	2.06	6.46	3.13
TOTALS...	38.18	26.05	35.77	36.53	34.34	34.59	34.20	39.77	38.64	27.87	40.47
											386.50

^{8.00-25}
Unfilled 9. G. situated in fairly sheltered position near reservoir. On mound 2 ft. high. Drop of 15 ft. about 15 yrs N to water, probably less deep usually. Good shelter on W & E, & high ground to S but not great than 10°. at gauge should be moved away from mound reservoir to position indicated nearer base and put at 1 ft. This would give good exposure.

Reported from Survey: 1' too low

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
1920			Harrogate	5 mi	S E	Beckwithshaw	1½ mi	S E

RAINFALL at Harrogate W.W. (Ten Acres Res.)

County of West Riding

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

River Basin Ouse - Nidd - II

Type of Gauge

Annual Average 34.9 in. based on 14 years obs. unweighted. Period of average 1881-1915 Ref. I.W.S.

66056/26

Diameter	8.										
Height	1.6.										
Altitude	620.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1931-40 Means Total
January	2.38	2.92	2.22	2.51	2.23	2.42	4.51	4.92	4.94	1.85	32.93
February	2.81	4.46	4.44	3.2	4.18	2.99	5.69	1.88	3.19	1.91	27.87
March	7.2	2.57	2.15	3.31	1.09	2.80	3.60	4.40	2.42	2.27	21.13
April	3.85	2.96	1.61	3.89	2.37	2.15	3.38	2.21	1.73	2.71	24.86
May	3.66	5.28	4.04	1.89	1.42	2.80	3.20	3.08	1.28	5.7	26.72
June	6.39	7.72	2.08	2.17	3.27	5.04	2.65	2.83	2.14	5.0	27.79
July	4.84	3.99	2.02	1.50	.87	4.18	2.16	3.85	6.01	4.92	34.34
August	4.81	1.45	0.67	1.41	1.94	2.58	1.39	4.52	2.72	.71	22.40
September	5.10	3.22	2.08	2.57	6.15	2.85	1.47	2.83	1.46	2.58	30.31
October	1.40	4.39	4.25	3.03	5.84	2.40	2.65	6.68	3.17	3.79	37.62
November	5.71	2.68	3.05	2.64	6.38	3.96	2.23	3.95	4.94	5.08	40.62
December	1.48	1.39	0.86	6.56	2.58	2.95	3.04	4.93	2.40	3.24	29.43
TOTALS	43.15	31.85	29.37	32.10	38.32	38.62	35.97	40.08	36.40	30.13	356.00
	D	D	D	D	D	D	D	D	D	D	

Rejected from Survey as 1° too low. Letter sent 16/8/53.

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			Harrogate	3 $\frac{3}{4}$ m	ENE	Beckwithshaw	1 $\frac{1}{4}$ m	E

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

Station No. 3351

RAINFALL at Harrogate W.W. (Ten Acres Res.) 41

County of West Riding Observer A.S. West Esq. CE Retired 1945

River Basin Ouse - Nidd X. The Surveyor Engineer

Type of Gauge

Annual Average 34.9 in. based on 14 years obs. un-weighted. Period of average 1881-1915 Ref. I.W.S.

File No. 660560/26

Diameter	8"	058	487								
Height	1' 6"		1								
Altitude	620'		41								
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1944-50 Means 10 years
January	4.55	4.78	3.82	4.33	4.71	3.47	2.53	1.93	1.52	2.01	39.65
February	3.93	1.42	1.91	1.59	4.22	3.80	(3.43)	2.12	1.63	6.08	30.13
March	3.92	2.38	1.06	.51	1.12	1.30	(6.49)	1.65	1.25	1.48	21.36
April	2.69	1.75	1.70	2.89	2.45	1.69	3.44	2.69	2.65	2.21	25.16
May	2.74	2.93	2.38	.95	2.71	2.60	3.79	1.17	2.05	2.21	23.53
June	.10	1.05	2.79	2.76	3.36	2.58	3.76	3.96	1.09	.88	22.13
July	2.91	2.51	1.84	4.62	2.40	4.21	2.51	1.71	2.35	2.76	28.82
August	3.81	2.78	3.47	3.16	3.78	4.69	1.04	4.51	2.79	5.92	35.95
September	.59	2.30	3.78	5.53	1.86	6.55	1.99	2.56	1.15	4.72	31.09
October	4.41	2.65	2.13	2.80	5.04	1.96	1.50	1.57	3.90	2.17	28.53
November	3.16	1.45	2.10	6.22	.54	7.05	4.01	1.60	4.85	4.49	36.06
December	.92	2.71	1.81	3.78	2.16	2.38	3.09	3.32	5.10	1.85	27.12
TOTALS	34.02	28.71	29.39	39.30	34.35	42.08	37.78	34.79	30.33	38.78	349.53

1947 Feb. 4 man. part ex'd for snow

30004

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	3 1/4 mi	E.N.E.	Baileyston	1 1/2 mi E

BRITISH RAINFALL ORGANIZATION

Station No. 3351

51

RAINFALL at Harrogate W.W. (Ten Acres Res.)County of West Riding - Yorks.Observer The Water Engineer
Clow Water BoardRiver Basin Quare - Foss - 11Type of Gauge H.C. 1955Annual Average 34.9 in. based on 14 years obs. un-weighted. Period of average 1881-1915 Ref. I.W.S.File No. 660550726 F 16133/53

Diameter ...	8"	058	487	cm to 90 5"	5"						
Height ...	16"		1		11"						
Altitude ...	620'		51								
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	2.97	3.13	.72	2.33	1.98	3.71	2.00	2.00	3.28	6.33	
February	3.18	.60	1.53	2.69	1.94	2.02	2.34	3.65	.24	2.32	
March	3.69	1.92	.89	2.31	2.07	1.34	2.38	1.87	1.48	2.56	
April	1.40	1.70	2.60	.51	1.16	2.65	.41	1.05	3.86	1.71	
May	5.77	2.06	1.65	4.52	3.04	.95	1.23	3.85	.88	0.84	
June	1.01	2.11	1.78	2.04	2.12	3.10	2.23	3.67	1.73	1.18	
July	2.34	1.31	3.23	1.64	1.11	4.88	2.98	3.80	2.08	5.32	
August	5.71	3.72	4.14	7.05	1.90	6.70	5.58	2.04	1.07	2.65	
September	2.71	3.91	2.94	2.92	1.59	3.93	3.87	3.81	.16	3.99	
October	1.04	3.43	2.36	4.75	2.35	1.50	3.22	2.36	2.71	5.78	
November	7.69	1.99	3.15	5.66	2.23	1.05	2.11	.98	4.59	5.53	
December	4.08	2.19	1.54	3.83	5.23	2.26	2.90	4.28	5.93	3.75	
TOTALS ...	41.65	28.07	26.83	40.25	26.72	34.09	31.25	33.36	28.01	41.96	
	D	D	D	D	D	np	np	np	np	D	

1953. New H.K.H. brought in 9/55. 1956 NP/1000.

1957 np. 1958 D.D.K. One edge NE-SE-SW. New site chosen at 249535
1958 np low 0/2

1959:- np low

? note Tel

Position of Station on Ordnance One-Inch map : No. of Map. 96 National Grid Reference 441248535

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Parish Church.	Distance from gauge.
1951			Harrogate	3 1/4 m ENE	Beckwithshaw	1 1/4 m E

Summary of Earlier Records from 10-year Sheets :

1916-1950, P-Rejected

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	✓	✓	✓	✓