

RAINFALL AT *Harrogate Beaver Dyke Reservoir*Lat. _____ Lon. _____ County of *York*

Rain Gauge, by _____

Observer

*E. W. Dixon Esq**Cause - Nidd II*

Diameter . . .										8	8	
Height										11	3.6	
Altitude										575	570	
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January . . . . .										.94		
February										1.78		
March										2.42		
April										3.47		
May										2.15 2.08		
June . . . . .										.42		
July										1.47		
August										3.66		
September										1.06		
October										[#] .31 4.64		
November										6.34	.89	
December										1.75	1.46 .63	
TOTALS										23.46 24.36		

*Wood 30 ft high 42 ft NW**Tabulated from the records at Harrogate by W. E. J. Symons*

RAINFALL AT ^{W.W.} Harrogate, Beaver Dyke South Wilson Farm

Lat. _____

Lon. _____

 County of W.R. York

Rain Gauge, by _____

 Observer Harrogate Water Works
E. Wilson, Dec 1909
Rise - Nidd 71

Diameter									8		
Height									1.6		
Altitude								630			
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January									2.08	4.14	
February									2.34	1.66	
March								# 3.75	.91	1.57	
April								2.22	2.77	2.59	
May								1.14	2.27	3.17	
June								4.80	1.72	1.45	
July . . . . .								.91	1.49	1.81	
August								4.32	3.53	1.52	
September . . .								2.88	.88	3.79	
October								1.82	4.68	2.84	
November . . .								2.19	2.66	1.20	
December . . .								3.07	3.49	2.81	
TOTALS									28.82	28.55	

Rejected from Survey: 2" too low.

RAINFALL AT

Harrogate Bear Dyke Reservoir

Lat. _____

Lon. _____

County of

York W.R.

Rain Gauge, by _____

Observer

EW Dixon Esq

Rise - Nidd 11

Diameter	8	8										
Height	2 0	11										
Altitude	575	575										
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January	3.18	1.71	1.97	.90	3.24	4.45	.90	2.44	1.94	4.22	2.498	
February	1.19	.12	2.66	3.35	5.10	.50	.79	3.16	2.35	1.49	2.071	
March	2.49	1.95	1.11	.80	2.51	2.65	3.33	3.94	1.21	1.55	2.167	
April	1.06	2.47	2.11	.69	2.24	2.25	1.44	2.20	2.81	2.57	1.984	
May	2.63	1.85	3.36	2.27	1.54	.42	.46	1.16	2.52	3.35	1.956	
June	1.88	1.14	4.89	1.85	3.31	2.70	5.15	4.81	1.69	1.52	2.894	
July	2.65	3.45	1.54	2.28	4.06	5.18	2.04	.96	1.46	1.92	2.554	
August	4.20	3.27	3.52	2.82	2.94	2.86	2.01	3.92	3.46	1.60	3.063	
September...	1.83	2.27	1.25	1.68	.94	1.83	4.18	2.88	.95	4.03	2.187	
October	1.32	3.48	6.31	2.37	5.15	4.56	3.58	1.86	5.24	3.06	3.690	
November...	2.57	3.42	1.59	2.23	1.43	3.75	1.70	2.25	2.19	1.08	2.241	
December	1.10	3.73	.87	3.58	2.38	3.71	4.23	3.02	3.33	2.96	2.891	
TOTALS . . .	26.43	28.86	31.21	24.88	34.84	34.86	29.81	32.60	29.15	29.35	30.199	

*Tabulated from the records at Harrogate by
Mr. G. J. Symons Jan'y 1898*

RAINFALL AT *Harrogate Beaver Dyke Reservoir*

Lat. Lon. County of *York W.R. Northern*

Gousier Rain Gauge, by Observer *E. W. Dixon Esq. C.E.*
Wind - N. *F. J. Dixon Esq. C.E.* *Hagshaw Esq. C.E.*

Diameter ..	8										
Height	0.11										
Altitude ..	5751										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	4.00	1.75	1.31	2.07	2.65	.84	4.07	1.25	1.65	1.03	2.062
February ..	4.29	1.35	1.35	2.67	3.52	1.48	1.93	1.56	1.66	1.04	2.085
March ....	.84	1.87	.97	3.47	2.07	2.67	1.96	2.25	4.20	3.81	2.411
April	1.66	2.79	1.52	1.28	1.71	2.17	.81	1.43	2.66	2.73	1.876
May	1.45	1.61	2.79	4.16	3.06	.77	2.54	4.20	2.92	1.84	2.534
June	3.14	1.44	2.05	2.20	1.90	1.46	1.26	4.03	1.03	3.61	2.242
July	2.92	2.15	2.19	3.72	3.22	1.06	1.84	2.26	3.48	4.21	2.705
August	6.12	1.18	3.39	3.74	3.96	3.94	2.48	1.92	2.01	3.97	3.271
September ..	.67	1.01	1.21	4.29	1.41	2.28	.77	.90	3.35	1.91	1.780
October	3.80	1.90	3.76	8.12	.87	2.01	5.29	8.26	2.07	2.24	3.832
November ..	3.82	4.34	2.20	1.79	2.97	4.69	4.15	2.58	1.72	1.04	2.930
December ..	3.49	3.17	2.12	1.39	1.69	.68	1.97	3.56	1.40	4.35	2.382
TOTALS ..	36.20	24.56	24.86	38.90	29.03	24.05	29.07	34.20	28.15	31.78	30.080

1908 Kellerning Church 2 miles N
 Harrogate Station 5 " "
 Nothing near

Hills

RAINFALL at Hannogate Beaver Dyke ResCounty of W YorkshreObserver F Bagshaw Esq CE Alwood EsqRiver Basin Onse - Nidd 11Rankine Rain Gauge, by

Diameter ...	8										
Height	0. 11										
Altitude ...	575 ft										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1910-19 Means Totals
January ...	3.62	1.58	4.89	4.23	1.79	4.58	1.85	3.19	2.82	4.40	12.26
February ...	2.80	2.77	2.24	1.19	1.74	4.13	4.63	.72	3.62	2.54	11.51
March .....	.60	2.20	3.72	3.77	5.11	.93	4.67	2.69	1.40	4.20	12.96
April	2.98	1.25	.42	3.15	1.16	1.24	1.65	1.72	.81	1.71	5.89
May	2.38	1.14	3.16	2.64	1.44	2.18	3.31	2.19	3.44	1.66	10.60
June	2.86	2.92	6.05	1.44	3.95	.50	1.85	2.09	1.02	1.57	6.33
July	2.62	.32	5.22	.95	4.77	3.97	2.73	1.38	4.36	3.67	12.14
August	3.98	2.58	6.13	1.23	1.52	2.69	2.41	6.82	3.11	3.34	14.68
September ..	.20	2.96	1.89	1.55	1.71	.56	2.00	1.24	7.68	1.24	12.76
October ...	4.21	3.16	3.26	2.65	2.43	1.58	5.35	4.23	1.83	3.65	15.06
November ..	3.96	3.83	1.95	2.83	5.01	2.45	2.59	3.05	1.80	3.16	10.30
December ...	3.56	4.74	3.04	2.28	6.65	7.20	2.52	2.04	5.89	4.69	15.14
TOTALS ...	33.77	29.45	41.47	27.91	35.28	32.01	36.56	31.36	37.48	34.23	139.63

Rejected from Survey: 2' too short.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
			<u>Hampthwaite</u>	<u>5 m</u>	<u>N</u>	<u>Kilbessing</u>	<u>2 m</u>	<u>N</u>

RAINFALL at Harrogate W. W. Beaver Dyke Reservoir

County of N. B. Yorkshire

Observer A. J. West - Esq C.E.

River Basin Cuse-Nidd 11

Water Eng. Harrogate

Glaisher Rain Gauge, by

otherwise sound (UH-23) { 8-02
(Daily) { 8-00
{ 7-48

center
badly

Diameter ...	8											
Height	0.11											
Altitude ...	575											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1920-30 Totals
January ...	4.23	4.78	3.70	1.58	2.18	2.79	3.14	2.52	6.14	1.64	6.08	38.78
February ...	2.31	.15	3.37	5.47	1.07	4.80	2.93	1.43	3.06	.77	1.26	26.62
March	2.77	1.71	2.49	1.58	1.20	1.27	1.32	2.17	2.93	.39	2.71	20.54
April	4.81	1.05	3.29	2.37	1.78	4.09	1.36	2.30	1.00	1.38	3.36	26.79
May	2.65	2.03	.89	3.58	4.96	5.74	2.45	1.65	2.45	1.83	1.65	29.88
June	1.57	.09	1.46	.83	2.26	.06	3.98	3.04	5.36	.98	2.18	21.81
July	6.92	1.82	4.78	3.82	4.32	.96	2.46	4.74	.83	3.24	5.37	39.26
August	1.60	4.16	6.00	3.77	2.83	2.83	2.30	7.74	3.95	2.34	3.50	42.27
September...	1.08	1.11	3.61	2.82	3.43	2.33	1.69	3.65	.42	.88	4.07	25.09
October	3.29	2.01	1.12	3.30	3.42	3.68	3.88	3.10	5.22	3.15	2.73	34.90
November...	1.97	2.99	1.04	3.59	2.63	2.30	5.59	3.23	4.10	4.35	4.51	36.30
December...	3.33	4.24	3.54	3.26	3.13	4.08	1.13	2.77	2.03	6.31	2.99	36.81
TOTALS...	36.53	26.14	35.29	36.17	33.21	34.93	33.23	38.34	37.49	27.26	40.41	379.00

Inspected g.b. 3.04.23 G. on ^{steep} grass slope from house to below reservoir
down fall of 15 ft in 60 yds to S.E. & considerably more steep to S.W.
to reservoir. Slope up to N. over exposed alluvial gravel receives some shelter
being in a valley.

Recommended moving to site on flat grass-land well below dam, with good shells all round but nothing worse than 20-29°. Good position 10 yds from junction of two overflows from Res.

*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			Hampswaite	5 mi	N	Pettlesing	2 mi	N

RAINFALL at Harrogate W.W. (Beaver Dyke R.)County of West RidingObserver A.S. West, Esq., C.E.River Basin Ouse - Nidd - Il.

Type of Gauge

Annual Average 34.1 in. based on 13 years obs. un-weighted. Period of average 1881-1915 Ref. 1 I.O.S.
(1939) 34.1 13 660560/26

Diameter	8.										
Height	0.11.										
Altitude	575.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1931-40 Mean Totals
January	2.28	2.68	2.16	2.41	1.90	3.94	4.27	4.46	5.08	2.16	31.33
February	2.88	.47	4.26	.30	4.01	2.99	5.13	1.73	2.68	2.35	26.79
March	.75	2.21	2.04	2.94	1.17	2.83	3.38	.32	2.51	2.32	20.47
April	3.87	3.00	1.64	3.76	2.11	2.34	3.29	.22	1.96	2.84	25.03
May	3.61	5.28	3.86	1.87	1.51	2.49	2.96	2.93	1.49	.84	26.84
June	6.23	.69	1.68	2.14	3.21	5.33	2.56	3.19	2.09	.52	27.54
July	4.44	4.20	2.16	1.84	.98	4.27	1.91	3.53	5.54	4.81	33.68
August	4.41	1.39	0.59	1.53	2.19	2.65	1.56	4.39	2.56	.72	21.99
September	6.10	2.86	2.29	2.32	5.99	3.07	1.32	2.70	1.39	2.25	30.29
October	1.30	3.99	4.11	2.82	5.62	2.34	2.66	5.96	2.94	3.44	35.18
November	5.07	2.68	3.07	2.44	6.49	3.87	2.09	3.62	4.81	4.84	38.88
December	1.29	1.50	0.91	6.35	2.11	2.36	2.87	4.66	2.45	2.94	27.44
TOTALS	42.23	30.75	26.75	30.72	37.29	38.48	34.00.	37.71	35.50	30.03	345.46
	D	D	D.	D.	D.	D	D	D	D	D	

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			Darley	3 1/2 m	NNW	Kettlesing	1 3/4 m	N

Station No. 3353

RAINFALL at Hamgate W.W. (Beema Dyke R) 41County of West RidingObserver A. S. West Esq. CE. Revised 1945River Basin Ouse NiddThe Water Engineer

Type of Gauge

Annual Average 24.1 in. based on 13 years obs. un-weighted. Period of average 1881-1915 Ref. IWSFile No. 660.560/26

Diameter	8"		058	447								
Height	11"			1			1	0"	11"			
Altitude	575'			41								
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	
January	5.10	3.25	4.01	3.52	3.74	3.23	2.67	7.01	1.10	1.87	35.50	
February	4.71	1.67	1.59	1.73	3.90	3.88	(3.42)	1.72	1.37	6.40	29.39	
March	3.64	2.33	.88	.51	1.28	1.65	7.16	1.35	.98	1.46	21.30	
April	2.47	1.32	1.46	2.63	2.45	1.78	3.62	2.55	2.53	2.66	23.47	
May	2.50	2.76	2.38	1.40	2.95	2.97	3.52	1.00	1.78	2.28	23.54	
June	.10	1.27	2.23	2.50	3.13	2.62	3.69	3.22	.85	.73	20.44	
July	2.59	2.41	1.97	4.00	2.51	4.53	2.21	1.73	2.47	2.69	28.11	
August	3.67	2.71	3.17	3.19	3.84	5.16	.69	4.54	1.98	6.67	34.52	
September	.51	2.30	3.69	5.87	1.71	6.24	1.88	2.54	1.09	3.86	29.69	
October	4.52	2.53	1.93	2.93	5.06	1.93	1.60	1.34	3.27	1.84	27.01	
November	3.25	1.47	2.65	6.03	.57	6.20	2.83	1.41	4.34	4.22	32.97	
December	.82	2.33	1.69	3.19	2.16	2.45	2.85	2.96	4.58	1.61	24.64	
TOTALS	33.88 D	26.41 D	27.75 D	37.56 D	33.30 D	42.64 D	36.14 D	51.37 D	26.34 D	35.19 D	330.58	

1947. Feb. part used for snow

20004

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			Darley	3 1/2 ml.	N.N.W.	Kettleasing	1 3/4 ml.	N.

BRITISH RAINFALL ORGANIZATION

RAINFALL at Harrogate W.D. (Beaver Dyke Sta.) Station No. 3353
 County of West Riding - Yorks Observer Lt. Walter C. Engineer
 River Basin Douglas - Riddle - 11 Glauco Water Board
 Type of Gauge 11.0 (m. m. p. 1.24) 5235/52

Annual Average 34.1 in. based on 13 years obs. in weighted. Period of average 1881-1915 Ref. J.W.S.

File No. 6605/076 F.16133/53

Diameter ...	8"	5"	058	447							
Height ...	1'0"			1							
Altitude ...	576'			51					600'		
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	2.73	2.21	.58	2.66	2.56	4.85	2.81	2.89	3.75	0.23	31.27
February ...	2.83	.36	2.58	2.57	2.72	2.44	3.00	5.88	.29	2.39	25.56
March ...	3.63	1.79	.78	2.14	2.47	1.50	2.88	2.62	1.62	2.83	22.26
April ...	1.20	1.32	2.50	.40	1.12	3.04	.38	1.04	4.39	2.15	17.54
May ...	6.08	1.65	1.87	4.18	3.18	1.14	1.42	4.47	1.16	1.09	26.24
June ...	.96	1.69	1.71	2.24	2.42	3.19	2.12	3.91	1.79	1.34	21.37
July ...	2.21	1.19	2.96	1.80	1.32	5.51	3.16	4.20	2.41	4.84	29.60
August ...	5.24	2.98	4.32	6.81	2.11	7.75	5.78	2.61	.86	3.32	41.78
September ...	2.22	4.29	2.87	2.90	2.12	5.20	4.51	4.04	.21	4.17	32.53
October ...	1.04	3.52	2.08	4.92	2.63	1.58	3.89	2.61	3.07	7.68	33.02
November ...	7.16	1.76	2.64	5.95	2.47	1.13	2.47	1.02	4.81	6.07	35.48
December ...	2.76	2.15	1.50	3.97	5.32	3.32	3.67	5.76	6.80	4.49	39.74
TOTALS ...	38.06	24.91	26.39	40.54	30.44	40.65	36.09	41.05	31.16	47.10	356.89
	D	D	D	D	D	D	D	D	D	D	

1913 Improvements made to the station on account of nearly obsolete nearby wind vane and anemometer to nearly full 400' E. at same height.

1954 Imp. II 1959 J.B.O.K. Adjacent to main off the gauge in perfect condition. Overgrown to S. Shaded to N. Mod. shelter to E. from 1916 until 50-65" avg. Well kept and well maintained. Committee paid for.

Imp. II 1959 J.B.O.K. Overgrown and disordered. Poorly kept.

av. 34.14 in. based on 39 yrs. obs. within 1916-57. 2 1/2 in. less. o/e + o/a. Period of av. 1916-50 - E - Rejected

Position of Station on Ordnance One-Inch map : No. of Map 96 National Grid Reference 441229547

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1951			Barley	3 1/2 am	NNW	Wethering	13 am	N

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
	✓	✓	✓	✓	
	-	✓ but 20-27	✓	✓	