

RAINFALL AT Harrogate ^{W.W.} / Wonderful House

County of _____

W.R. York

Observer:

Harrogate Water Works

Est Dupon Esq C2

Onse - Nidd 11

[illegible]

RAINFALL AT *Harrogate Wonderful House*
Harrogate Park
 Lat. Lon. County of *York W.R. Northern*
 Rain Gauge, by Observer *E. W. Dixon Esq. Cl.*
2nd - 11.

Diameter ..	8										
Height	1.6										
Altitude ..	740 T	725 T									
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	4.06	1.51	1.60	2.36	2.54						
February ..	4.07	1.18	1.16	3.41	3.44						
March ....	.46	1.49	1.39	4.09	1.17						
April	1.71	2.84	1.56	1.41	1.82						
May	1.39	1.38	2.94	3.47	2.66						
June	3.76	1.52	1.71	1.92	1.55						
July	2.35	1.75	2.23	4.17	4.59						
August	5.63	1.40	3.26	3.82	3.70						
September ..	.81	1.00	1.14	4.34	1.34						
October	3.75	2.01	3.54	8.59	.85						
November ..	3.67	4.66	2.17	1.97	2.91						
December ..	3.17	3.12	2.77	1.45	1.68						
TOTALS ..	34.83	23.86	25.47	41.03	28.25						

RAINFALL at

Harrogate Ling Cottage

County of W. Yorkshire

Observer A. S. Woolley C.E.

River Basin Guse. Nidd II

Bradford Rain Gauge, by

Diameter ...			8	5								
Height				1	0							
Altitude ...				750					740			
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	TOTALS
January ...			4.70	3.15	1.65	4.25	1.60	2.30	2.50	3.50		9.90
February ...			2.10	1.05	1.68	3.30	3.90	.79	3.58	2.35		10.59
March			3.35	3.30	2.70	.85	3.35	2.20	1.16	3.05		9.75
April .....			.44	2.80	.90	1.15	1.70	1.10	.89	1.40		5.09
May			3.00	2.75	1.13	1.50	2.10	2.03	3.20	1.55		9.88
June			3.20	1.80	2.70	.50	1.85	2.15	.85	1.55		6.20
July			5.40	.95	4.30	2.10	2.45	1.55	4.60	3.36		10.96
August			6.65	1.25	1.57	2.55	2.10	6.69	3.13	2.50		14.42
September ..			1.90	1.40	1.80	.60	1.96	.90	7.20	1.15		11.21
October ...			3.40	2.85	2.75	1.45	5.70	4.00	2.20	3.75		15.65
November ..			1.70	2.65	4.25	1.95	3.25	3.25	1.50	2.00		10.00
December...			2.85	1.50	6.10	7.50	2.36	1.30	5.30	4.80		13.76
TOTALS ...			38.66	25.45	31.53	27.70	33.32	28.26	36.07	29.76		127.41

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
			May	4 1/2 m	SSW	Beckwithshaw	2 1/2 m	ENE

RAINFALL at Harrogate W. W. Ling CottageCounty of W. YorksObserver A. S. West Esq. G.E.River Basin Ouse - Nidd 11Water Eng. HarrogateCol. in Bradford Rain Gauge, by 11-23 in drain - pipe.

Diameter ...	5"												
Height	1 0		1 6			1 0							
Altitude ...	740												
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 Mean.	1920-30 Totals	
January ...	3.70	4.30	3.00	1.80	2.50	2.60	3.20	2.50	5.40	2.04	5.35	36.39	
February ...	2.00	.23	3.20	4.90	.95	4.90	3.00	1.30	5.20	.68	1.30	25.66	
March	2.50	1.70	1.80	1.35	1.45	1.20	2.05	2.04	2.90	.65	3.42	21.06	
April	4.40	1.02	3.20	2.60	1.85	3.90	1.50	2.25	1.00	1.33	3.20	26.25	
May	4.00	1.60	1.05	2.20	4.00	5.00	2.40	1.62	2.45	1.71	1.60	28.63	
June	3.05	.09	1.50	.90	3.30	.08	3.95	3.05	5.50	1.10	1.94	24.46	
July	6.20	1.96	4.90	3.85	4.40	1.00	2.40	5.00	.80	3.27	5.66	39.44	
August	1.50	3.95	5.50	4.00	3.30	3.20	3.60	7.00	5.50	2.35	4.22	42.12	
September...	1.20	1.05	3.80	3.20	3.40	2.50	1.30	3.80	.98	.46	3.96	25.55	
October.....	3.15	1.80	1.30	3.80	3.70	3.90	3.80	2.91	5.35	3.27	2.92	35.90	
November...	1.60	2.60	1.20	3.80	2.44	2.40	5.50	3.21	7.98	4.50	5.00	40.23	
December...	3.29	4.60	3.20	3.60	3.20	4.10	1.30	3.80	1.98	6.50	2.80	38.37	
TOTALS...	36.59	34.90	33.65	37.00	34.49	34.78	33.90	38.48	41.04	27.86	41.37	384.06	

Inspected by 3rd July 1923

3 situated in open field in fence which required mending. Fairly good exposure - some shelter N.W. & E. and ground flat G.N. Fence should be mended and gauge lowered to 1 ft. and fence backed up to 1 ft. 6 in. with turf.

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 from gauge	Parish Church.	Distance from gauge	Direction from gauge
1920			Otley	4 1/2 mi	SSW	Beckwithshaw	2 1/2 mi	ENE

RAINFALL at Harrogate W.W. (Ling Cottage)County of West RidingObserver A.S. West, Esq. C.E.River Basin Ouse - Nidd - 11

Type of Gauge

Annual Average 30.5 in. based on 14 years obs. un-weighted. Period of average 1881-1915 Ref't I.W.S.
(1939) 33.4

660560/26

Diameter	5.											
Height	1.0.											
Altitude	740.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	2.30	2.18	2.00	2.38	1.08	3.20	4.43	4.52	5.45	1.83	29.37	1931-40 1974.5
February	(2.70)	4.44	4.19	2.22	3.50	3.20	5.57	1.71	3.18	1.92	26.63	
March	.75	2.20	1.39	2.68	.97	2.49	2.48	.39	2.74	2.20	18.29	
April	4.10	2.92	2.50	3.65	1.87	1.18	3.06	.25	2.30	2.67	24.50	
May	2.90	4.37	3.40	1.40	1.05	2.70	3.05	2.80	.99	.70	23.36	
June	5.90	.73	1.76	1.92	3.60	5.85	2.77	2.31	2.53	.57	27.93	
July	3.87	4.05	1.88	1.80	.84	4.51	2.00	3.08	5.46	3.82	31.51	
August	4.58	1.73	0.54	1.48	2.70	2.69	1.39	3.60	2.52	.76	21.99	
September	4.50	2.98	1.85	2.45	6.01	2.70	1.40	2.90	1.55	2.62	28.96	
October	1.22	3.80	3.55	2.55	4.90	2.17	2.25	6.28	2.63	2.95	32.30	
November	(5.00)	2.40	3.43	2.45	6.80	(4.00)	1.58	3.50	7.22	5.00	41.38	
December	1.40	1.00	1.01	6.35	2.70	2.38	2.17	5.00	2.31	3.47	27.79	
TOTALS	(39.22)	28.50	27.49	29.33	36.02	37.07	32.15	36.34	39.08	28.51	334.01	M

1931. Feb + Nov. adjusted by surrounding stations.

1936. Nov. compared to B.D.O. in West weight.

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	5 mls	NNW	Beckwithshaw	2½	E

Station No. 3348

RAINFALL at Harrington W.W. (Living Cottage)

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County of West RidingObserver A. S. West Esq. CERiver Basin Ouse Nidd - UThe Master Engineer

Type of Gauge

Annual Average 33.4 in. based on 11 years obs. un-weighted. Period of average 1881-1915 Ref. 1 W.S.File No. 669.569/26

Diameter	5"										
Height	1' 0"										
Altitude	740'										
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	4.67	(4.17)	4.50	4.60	3.85	4.00	4.71	7.74	1.37	1.58	41.16
February	5.33	2.33	2.00	1.74	4.96	3.05	2.95	2.21	1.68	5.20	31.45
March	4.16	2.55	1.15	.49	2.34	1.74	5.50	1.78	1.19	1.88	22.44
April	2.34	1.25	1.45	3.28	1.36	1.74	3.33	2.31	2.50	2.85	22.41
May	2.56	3.20	2.36	1.80	2.50	2.75	3.59	1.00	1.80	2.35	23.91
June	1.0	.92	2.21	2.85	3.94	2.78	3.18	3.57	.68	.88	21.11
July	2.62	2.10	3.00	4.47	2.82	4.73	1.86	1.22	2.35	3.28	28.45
August	3.63	2.71	3.25	3.15	4.00	5.32	.55	4.54	2.27	6.20	35.72
September	.54	1.59	3.58	5.65	2.34	5.83	2.15	2.50	1.13	5.10	30.41
October	4.25	2.60	2.17	3.55	5.80	1.79	1.48	1.43	3.64	1.37	28.08
November	3.61	1.52	3.65	6.55	.62	6.55	3.34	1.35	4.70	4.07	35.96
December	1.26	3.20	2.35	3.65	2.60	2.42	2.92	2.80	4.80	2.11	28.13
TOTALS	35.08 M	28.14 M	31.77 M	41.78 M	37.13 M	42.70 M	35.56 M	32.45 M	25.11 M	36.51 M	349.23

1942 Jan. cal'd. by observer.
18646 Gauge removed for repairs.

40004

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	5 ml.	N.N.W.	Beckwithshaw	2 1/2 ml.	E.

Station No. 3348RAINFALL at Harrogate 10.10 (Long Cottage) 3

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County of West Riding - YorksObserver J. H. Water, OriginalRiver Basin Don - Tad - HGloucs Water BoardType of Gauge No. 4 1/2 150Annual Average 33.4 in. based on 16 years obs. un-weighted. Period of average 1881-1915 Ref. J. W. S." 34.01 " " 41 " " with 1916-57 " " 1916-56 File No. 466507/26 E 16133/53

Diameter ...	5"			0.58 648								
Height ...	1'0"			1								
Altitude ...	<u>740'</u> 763	763		51								
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means Total	
January ...	2.84	3.20	.94	2.35	2.21	4.73	2.28	2.91	3.68	5.94	31.08	
February ...	3.36	.77	3.36	2.64	2.57	2.60	3.20	5.77	.29	3.67	28.23	
March ...	3.41	1.96	.85	1.93	2.32	1.26	2.68	3.11	1.99	2.48	21.99	
April ...	1.25	1.36	2.58	.37	1.07	2.97	.38	.80	3.74	1.54	16.06	
May ...	5.89	2.10	1.93	4.20	2.94	1.06	1.31	4.40	1.06	2.81	25.70	
June ...	.97	1.70	1.59	1.92	2.33	3.04	2.18	4.46	1.52	0.96	20.67	
July ...	2.18	1.36	3.10	1.61	1.01	5.80	2.88	3.75	2.21	5.30	29.20	
August ...	5.77	3.44	4.41	4.14	2.04	6.56	5.42	2.18	.86	2.98	40.83	
September ...	2.92	4.68	3.30	3.14	1.37	4.77	4.63	3.87	.18	3.54	32.43	
October ...	1.00	3.66	1.66	4.67	2.48	1.50	3.55	2.28	2.86	6.25	29.91	
November ...	7.15	2.00	4.07	5.46	2.84	1.11	2.27	.90	4.93	6.18	36.91	
December ...	4.15	2.12	1.65	4.33	5.34	4.19	3.42	5.90	6.41	4.37	41.88	
TOTALS ...	40.84 M	28.35 M	29.44 M	39.82	28.52	39.59	34.20	40.33 H	29.73 H	44.22 H	354.89	

6153 ft. open to surface, to be more to nearly flat at 7000 ft. (which country is 763') about 400' NNW.

1954 Supp. 10" diameter of in wood could be except slight deflection of rain. Up open crop on all sides esp. N-NW, N-E, and wind layer full with some conifers.

Just in 1959 1.60K. Overcast max direction. Temp. will fall. N, S. tube.

J. H. Water

Position of Station on Ordnance One-Inch map :

No. of Map 96National Grid Reference 44 22 85.1

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge.	Direction from gauge.
1951			Donley	5m.	NNW.	Beckwithshaw	2 1/2 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
	C 1912	✓	✓	✓	