

RAINFALL at Fewston Broad Ditch

County of W.R. Yorkshire
 River Basin Don
Bradford Rain Gauge, by

Observer A. West Esq

Diameter ...				5								
Height				10								
Altitude ...				725								
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1910-19 Means Total	
January ...				3.96	1.85	5.00	1.95	2.20	2.90	3.60	10.65	
February ...				1.25	1.85	3.90	4.35	.84	3.60	2.25	11.09	
March				4.00	3.25	1.02	3.80	2.50	1.20	3.04	10.54	
April				3.55	1.05	1.20	2.00	1.40	.90	1.60	5.90	
May				2.75	1.30	1.60	3.30	2.03	3.90	1.50	10.73	
June				1.75	2.90	.45	1.90	2.27	.82	1.50	6.29	
July .....				.95	4.25	1.85	2.40	1.45	8.00	2.50	11.35	
August				1.70	1.58	2.80	2.65	6.64	3.18	2.50	14.74	
September ..				1.45	1.82	.60	1.94	1.00	7.70	1.40	12.04	
October ...				2.75	2.70	1.50	5.55	4.30	2.13	3.65	15.63	
November ..				3.05	4.80	2.05	3.25	3.20	1.70	2.10	10.25	
December...				1.48	6.09	7.30	2.45	1.50	5.60	4.90	14.45	
TOTALS ...				286.4	33.44	29.27	35.54	29.33	38.65	30.14	133.66	

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
			Fewston	1 3/4 m	NW	Brinkwith	4 1/2	N

RAINFALL at Harrigate W. R. Road DullCounty of N. YorksObserver A. S. West Esq. G.C.River Basin Cuse-Ridd 11Water Eng Harrigate

1923 transferred.

Gal. iron Swanton Rain Gauge, by Cassellano knife 5-02 } M ✓
edge - rim. 5-06 } (VII. 23) in good condition.

Diameter ...	5"											
Height	1 0											
Altitude ...	725											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 M.B.S.S.	1920-30 Totals
January ...	3.90	5.00	3.21	2.05	2.60	3.00	3.60	2.20	5.35	2.20	5.85	38.96
February ...	2.25	1.9	3.40	5.00	1.10	5.20	3.10	1.50	5.50	7.0	1.35	27.29
March	2.60	1.50	2.05	1.55	1.55	1.30	2.10	2.45	3.00	63	3.20	22.23
April	4.62	1.22	3.30	2.70	2.10	4.00	1.60	2.59	90	1.33	3.30	27.66
May	3.74	1.90	1.10	3.30	4.05	5.20	2.70	1.61	2.40	1.98	1.50	29.48
June	3.08	.09	1.30	.92	3.20	.06	4.00	3.28	5.80	1.08	1.95	24.82
July	6.50	1.90	4.78	3.90	4.80	.94	2.60	4.80	1.00	3.10	4.80	39.12
August	1.70	4.20	5.30	4.30	3.40	3.32	3.90	6.54	4.10	2.30	3.98	43.04
September...	1.20	1.05	(3.50)	3.70	3.70	2.70	1.15	3.80	1.00	.58	3.57	25.95
October	3.08	1.90	1.40	4.00	3.90	4.00	2.16	3.28	5.40	3.59	3.00	36.71
November...	1.90	2.70	1.25	4.00	2.34	2.50	6.20	3.34	8.10	4.40	4.70	41.43
December...	3.50	4.50	3.40	3.70	3.60	4.20	1.11	3.90	2.00	7.00	3.12	40.03
TOTALS...	38.07	26.45	(33.99)	39.18	36.34	36.42	35.22	39.29	42.55	28.89	40.32	396.72
	M				M	M	M	M	M	M	M	

Inspected 75. 3.04.23. G. situated in open field surrounded by hedges in
fence 4 ft. away (square). Fairly good exposure but advisable to back up
fence to 1 ft. 6 in. with turf.

1922: Sept. etc. from maps.

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			Fawston	1 1/4 mi	NW	Bristwith	2 1/2 mi	N
1929	12							
1930			Darley	4 3/4 m.	N.W.	Beckwithshaw.	2 1/2 m.	E.

RAINFALL at Harrogate W.W. (Broad Dubb)

County of West Riding Observer A. S. West, Esq., C.E.River Basin Ouse - Nidd - U.

Type of Gauge

Annual Average ~~27.8~~ 34.1 in. based on ~~14~~ 14 years obs. un-weighted. Period of average 1881-1915 Ref. 1.D.S.
660560/26

Diameter	5.										
Height	1.0.										
Altitude	725.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1931-40 Means Totals
January	2.50	2.28	1.90	2.27	1.53	3.50	4.50	4.50	5.50	1.77	30.25
February	(2.70)	.83	3.83	.22	3.42	3.00	4.80	1.56	3.48	1.85	25.19
March	.72	2.40	1.48	2.69	1.05	2.28	2.25	.31	2.78	2.23	18.29
April	4.00	2.90	2.75	3.58	2.00	1.12	2.81	.07	2.78	2.65	24.66
May	3.00	4.85	4.35	1.66	1.00	2.50	3.00	2.85	1.06	1.15	25.42
June	6.00	.75	2.06	1.78	3.45	5.59	2.70	3.07	2.96	.63	28.99
July	3.93	4.10	2.05	.97	1.00	4.39	2.06	3.05	5.73	3.39	30.67
August	4.26	1.22	0.50	1.28	2.60	2.59	1.31	4.15	3.03	.69	21.63
September	5.85	3.10	2.00 (3.40)	2.54	6.50	2.75	1.38	3.00	1.85	2.85	31.82
October	1.25	3.65	2.78	2.90	5.40	2.04	2.73	6.60	2.78	2.75	33.50
November	5.20	2.55	0.57	2.50	6.70	3.90	1.65	3.57	6.24	4.98	40.86
December	1.60	1.27	0.92	6.25	2.53	2.45	3.08	4.96	2.52	3.75	29.33
TOTALS	(44.01)	29.40	(28.81) 26.51	28.64	37.18	36.21	32.27	37.69	40.71	28.69 M	340.61

1931. Febr. adjusted by surrounding stations.

1930 Oct. adjusted by near stations

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 from gauge	Parish Church.	Distance from gauge	Direction from gauge
1931			Darley	4 ³ / ₄	NW	Beckwithshaw	2 ¹ / ₂	E

RAINFALL at Harnogate W.W. (Broad Dubb.) Station No. 3349
 County of West Riding Observer A. S. West Esq. CE. Retired 1945
 River Basin Ouse - Nidd - Il The Wakes Engineers
 Type of Gauge.....

Annual Average 34.1 in. based on 14 years obs. un-weighted. Period of average 1881-1915 Ref. 1 W.S.

File No. 660560/26

Diameter	5"			063	166	✓						
Height	1' 0"				1							
Altitude	725				41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	1941-50 1945-50
January	4.64	(4.17)	4.58	4.55	4.05	3.96	4.69	7.88	1.37	1.65	41.57	
February	5.58	2.53	1.65	1.83	4.41	2.98	2.70	2.18	1.88	5.41	31.15	
March	4.25	2.86	.90	.56	2.06	1.84	5.35	1.69	1.16	1.78	22.45	
April	(2.70)	1.30	1.55	4.25	1.18	1.75	3.38	2.22	2.15	2.87	23.35	
May	2.47	2.96	2.26	1.33	2.70	2.69	3.52	.90	1.10	2.14	22.07	
June	.13	1.00	2.38	2.58	3.86	2.72	3.38	2.95	.66	.83	20.49	
July	2.50	2.00	2.52	4.84	2.80	4.45	2.11	.75	2.40	3.18	27.55	
August	3.00	2.60	3.15	3.05	3.48	4.70	.46	4.20	2.21	6.10	32.95	
September	.60	2.56	3.40	5.25	1.84	5.89	1.95	2.58	1.30	5.05	29.42	
October	4.31	2.58	2.20	2.95	5.10	1.87	1.32	1.73	3.60	1.38	27.04	
November	3.50	1.39	2.70	6.22	.68	6.74	3.39	1.47	4.72	4.00	34.91	
December	1.32	2.95	2.39	3.75	2.16	2.40	3.29	2.60	4.77	2.00	27.63	
TOTALS	35.03	27.30	29.68	41.16	34.32	41.99	35.54	31.15	27.32	36.39	340.48	
	M	M	H	M	M	M	M			M		

1941 April apportioned from nearby stns.
 1942 Jan. cold by obs.

0400440004

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.	Direction
1941			Barley	1 1/2 ml.	N.W.	Beckwithshaw	2 1/2 ml.	E.

RAINFALL at 8 Harragate W.W. (Broadbult) Station No. 3349 51
 County of West Riding - Yorks. Observer W. Water Engineer
 River Basin Don - Ridd - N Glau Water Board.
 Type of Gauge M.O.

Annual Average 34.1 in. based on 14 years obs. un-weighted. Period of average 1881-1915 Ref. 1. W. S.
34.61 " " " 35 " " 1916-1950 1916-1950 File No. 660.567.26.5 16133

Diameter ...	5"			063	166							
Height ...	1'0"				1							
Altitude ...	725'				51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	Totals
January ...	2.95	3.15	1.04	2.40	2.59	4.72	2.33	2.81	3.97	5.39	31.85	
February ...	3.05	.91	2.60	2.69	2.89	2.62	3.11	5.70	.27	2.43	26.27	
March ...	3.65	1.83	1.00	1.80	2.34	1.54	2.75	2.59	1.49	2.61	21.60	
April ...	.99	1.40	2.45	.30	1.04	2.98	.33	.88	4.03	1.64	16.04	
May ...	5.65	1.90	1.87	4.30	3.06	1.11	1.32	4.61	1.12	0.99	25.93	
June ...	.90	1.47	1.65	2.01	2.54	2.78	2.13	4.58	1.70	1.08	20.84	
July ...	2.27	1.39	3.04	1.78	.99	5.61	3.47	5.18	2.49	5.32	29.54	
August ...	5.40	3.22	4.36	7.16	2.02	6.90	5.59	2.17	.82	3.25	40.69	
September ...	2.97	4.58	3.41	2.77	1.54	4.73	4.59	4.05	.21	3.86	32.71	
October ...	1.00	3.63	1.90	4.65	2.61	1.58	3.74	2.51	3.02	6.30	30.94	
November ...	7.59	2.02	3.45	5.40	2.52	1.08	2.31	.90	4.97	6.21	36.45	
December ...	4.05	2.27	1.68	4.62	6.03	4.43	3.45	5.88	6.31	4.46	43.18	
TOTALS ...	40.47	27.77	28.45	39.88	30.17	40.08	35.12	39.86	30.40	43.84	356.04	
	M	M	M	M	M	M	M	M	M	M		

Imp. B. 1959 J.B.O.K. Overcast all directions. Fair but well

8 Twp. well

219530

Position of Station on Ordnance One-Inch map : No. of Map National Grid Reference 44/229529

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.
1951			batley	4 3/4 m NW	Beckwithshaw	2 1/2 m E

Summary of Earlier Records from 10-year Sheets :

1916-1950, P - accepted

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	C 1913	✓	✓	✓	

RAINFALL at 8 Harragate W.W. (Broadbult) Station No. 3349 51
 County of West Riding - Yorks. Observer He Water Engineer
 River Basin Don - Ridd - H Glau Water Board.
 Type of Gauge M.O.

Annual Average 34.1 in, based on 14 years obs. un-weighted. Period of average 1881-1915 Ref. 1.W.S.
34.61 " " " 35 " " 1916-1950 1916-1950 660.567265 16133

Diameter ...	5"			063	166							
Height ...	1'0"				1							
Altitude ...	725'				51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	Totals
January ...	2.95	3.15	1.04	2.40	2.59	4.72	2.33	2.81	3.97	5.39	31.85	
February ...	3.05	.91	2.60	2.69	2.89	2.62	3.11	5.70	.27	2.43	26.27	
March ...	3.65	1.83	1.00	1.80	2.34	1.54	2.75	2.59	1.49	2.61	21.60	
April ...	.99	1.40	2.45	.30	1.04	2.98	.33	.88	4.03	1.64	16.04	
May ...	5.65	1.90	1.87	4.30	3.06	1.11	1.32	4.61	1.12	0.99	25.93	
June ...	.90	1.47	1.65	2.01	2.54	2.78	2.13	4.58	1.70	1.08	20.84	
July ...	2.27	1.39	3.04	1.78	.99	5.61	3.47	5.18	2.49	5.32	29.54	
August ...	5.40	3.22	4.36	7.16	2.02	6.90	5.59	2.17	.82	3.25	40.69	
September ...	2.97	4.58	3.41	2.77	1.54	4.73	4.59	4.05	.21	3.86	32.71	
October ...	1.00	3.63	1.90	4.65	2.61	1.58	3.74	2.51	3.02	6.30	30.94	
November ...	7.59	2.02	3.45	5.40	2.52	1.08	2.31	.90	4.97	6.21	36.45	
December ...	4.05	2.27	1.68	4.62	6.03	4.43	3.45	5.88	6.31	4.46	43.18	
TOTALS ...	40.47	27.77	28.45	34.88	30.17	40.08	35.12	39.86	30.40	43.84	356.04	
	M	M	M	M	M	M	M	M	M	M		

Imp. B. 1959 J.B.O.K. Overcast all directions. Fair but well

8 Twp. well

Position of Station on Ordnance One-Inch map : No. of Map..... National Grid Reference 44/229529 219530

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.
1951			batley	4 3/4 m NW	Beckwithshaw	2 1/2 m E

Summary of Earlier Records from 10-year Sheets :

1916-1950, P - accepted

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	C 1913	✓	✓	✓	