

RAINFALL AT

Bradford Chellon Height

Lat.

Lon.

County of

York W.R. Central

Rain Gauge, by

Observer

J. Watson Esq. C.E.

Rise. Air 9

Diameter ..		5									
Height		1 0									
Altitude ..		848									
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..		2.25	1.88	3.64	4.07	1.37	4.87	1.40	2.33	2.09	
February ..		1.67	1.62	4.09	4.42	2.07	2.82	2.21	2.69	.97	
March		2.60	1.89	5.08	2.62	3.11	2.69	3.07	3.88	3.45	
April		2.34	2.19	1.80	2.51	2.43	1.25	2.28	2.53	3.63	
May		1.13	2.68	3.52	3.49	.90	3.56	3.50	2.96	2.62	
June92	1.85	1.24	1.75	2.31	2.61	5.16	1.51	2.62	
July		1.77	3.07	3.87	2.72	1.44	2.36	3.38	4.13	3.48	
August		1.97	3.68	4.04	3.95	4.69	3.91	2.66	3.12	2.88	
September ..		1.34	1.87	4.92	.79	1.79	.87	.80	3.52	2.98	
October		1.92	4.29	11.20	1.17	3.14	5.97	5.59	2.18	3.41	
November ..		3.88	2.83	2.23	2.10	5.36	3.92	3.06	2.56	1.14	
December ..		6.36	3.94	2.44	2.66	.79	3.02	4.13	2.56	4.69	
TOTALS ..		28.15	31.79	48.07	32.25	29.40	37.85	37.24	33.97	33.96	

RAINFALL at Graded Hollow Heights Reservoir

3275
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No. 42

County of W. R. Yorkshiri
River Basin Onu. Ans 9

Observer John Watson Esq. C.E.
L. Mitchell Esq. C.E.

Rain Gauge, by _____

Diameter ...	5										
Height	1 0										
Altitude ...	845										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS Totals
January ...	4.68	1.55	5.33	3.70	2.54	4.97	2.98	2.88	3.07	4.94	12.37
February ...	3.75	4.31	2.53	1.46	3.29	4.63	5.07	.76	4.65	1.96	12.24
March92	1.71	4.99	5.06	4.03	.91	4.11	2.72	1.75	4.69	13.27
April	2.90	1.54	.63	4.12	1.64	1.58	2.10	1.78	.96	1.93	6.77
May	2.58	1.30	3.36	2.99	1.25	2.25	2.74	2.95	4.23	2.10	12.02
June	3.01	3.85	6.70	1.53	2.62	1.34	2.36	2.21	1.82	.82	6.91
July	3.23	.28	5.03	.84	3.35	5.33	1.99	1.37	6.39	2.97	12.72
August	4.48	2.61	6.66	1.46	2.64	4.96	2.74	6.36	2.00	2.49	13.59
September ..	.27	3.28	2.17	2.03	1.81	.76	2.19	1.33	8.89	1.19	13.60
October ...	3.90	4.18	4.38	3.22	2.36	1.88	7.17	6.19	2.19	2.42	17.97
November ..	4.46	4.05	2.94	3.91	5.60	1.95	3.52	3.40	1.63	1.04	11.89
December ...	4.45	5.76	4.37	2.51	7.56	7.75	3.22	1.63	5.52	6.19	16.56
TOTALS ...	38.66	34.42	49.09	32.83	38.69	36.29	40.49	33.05	42.80	34.54	150.91

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.

RAINFALL at Bradford Chellow Heights Reservoir N. 4ⁿCounty of W. B. YorkshireObserver S. Mitchell - Eng. G. E.River Basin Guse - Aire 9Eng. Bradford

Shawdon Rain Gauge, by W. Newlands, Esq. B. E. (1930)
49.5 } duplicate glass station
49.5 } blankets removed .005 out at .04; .01 out at .40 + .30.
49.5 } .015 out at .50

Diameter ...	5"													
Height	1' 0"													
Altitude ...	848													
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS.	1920-30 TOTALS		
January ...	3.98	5.78	3.67	2.29	2.81	3.98	3.93	2.81	8.00	1.99	5.85	45.09		
February ...	2.96	1.6	3.95	5.61	.97	5.61	2.88	1.75	5.96	.79	1.34	29.98		
March	3.19	2.45	2.76	2.38	1.48	1.04	1.03	3.47	5.09	.34	2.87	24.10		
April	4.83	1.17	3.97	2.70	2.25	3.03	1.43	2.49	1.19	1.36	4.55	28.97		
May	4.29	1.79	1.14	3.49	4.97	4.60	2.96	1.28	1.86	1.90	1.76	30.04		
June	2.24	.09	1.33	.91	2.49	.11	2.83	3.01	5.93	1.02	2.20	22.16		
July	7.36	1.85	4.70	3.27	3.52	1.24	2.75	3.83	.76	2.00	5.54	36.85		
August	1.81	4.38	6.24	3.81	3.54	4.66	2.91	6.50	5.98	2.44	4.72	44.99		
September...	1.60	1.34	4.21	3.63	3.66	2.92	1.96	4.09	.65	.79	6.69	31.54		
October	3.20	2.53	1.01	3.36	3.73	4.19	3.18	3.42	5.90	4.17	4.37	39.06		
November...	2.23	2.69	1.76	4.53	2.59	2.37	6.14	3.61	6.05	6.78	5.19	43.97		
December...	3.89	5.01	3.80	3.17	4.81	4.26	1.10	2.24	2.16	7.95	3.28	41.67		
TOTALS...	41.58	45.24	38.54	39.18	36.82	38.04	33.13	38.50	43.53	31.53	48.36	418.42		

Inspected 7.10.32 & in good position with filler beds to E + good shales on W, N + S.
 Within 2 yds was a ~~shallow~~ (drain correct) in good position but capacity of main
 pan was not sufficient for abnormally heavy falls.

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

RAINFALL at Bradford (Chellow Heights Res.)County of West RidingObserver Bradford Corp. W.W.River Basin Ouse-Aire - 9.W. Newlands Esq. C.E.Type of Gauge SnowdonThe Waterworks Engineer.Annual Average 36 in. based on 30 years obs. un-weighted. Period of average 1881-1915 Ref. 3660554/26

Diameter	5.										
Height	1.0.										
Altitude	848.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1931-40 Means Total
January	2.81	3.07	2.19	2.82	1.54	4.74	4.15	5.16	6.00	2.52	35.00
February	4.12	.29	3.99	.13	4.54	2.27	5.56	1.73	3.50	2.77	29.10
March	.45	1.88	1.83	2.65	1.48	2.98	3.14	.65	2.70	2.34	20.10
April	3.91	2.88	1.47	2.99	4.38	1.71	2.78	.32	1.32	3.35	25.11
May	3.18	4.05	2.66	1.89	.85	1.32	3.36	4.23	1.37	.58	23.49
June	6.31	.73	1.51	1.66	3.93	4.81	2.46	3.87	2.57	.39	28.24
July	2.82	4.36	2.03	2.39	.80	3.50	2.71	4.09	6.70	3.07	32.47
August	4.47	1.18	0.56	2.02	1.24	2.11	1.19	4.78	1.72	.72	19.99
September	4.28	3.04	1.63	1.78	6.08	3.99	1.49	2.02	1.35	3.39	29.05
October	1.50	5.03	3.71	3.29	7.81	3.38	2.58	8.53	2.83	4.89	43.58
November	6.50	2.20	2.38	1.85	6.88	4.67	2.20	5.15	5.85	6.76	44.44
December	1.37	1.34	0.52	6.17	3.30	3.54	3.20	4.71	2.45	2.59	29.19
TOTALS	41.72	30.05	24.48	29.64	42.83	39.22	34.82	45.24	38.36	33.37	359.73
	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

Station No. T.F. 3275

RAINFALL at Bradford (Chellows Heights Res.) ✓

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County of West Riding

Observer The Waterworks Engineer

River Basin Ouse Aire 2

Type of Gauge Snowdon

Annual Average ~~31.5~~ in. based on 30 years obs. un-weighted. Period of average 1881-1915 Ref. S

File No. 662554/26

Diameter	5"			075	518						
Height	1' 0"			1							
Altitude	848			41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means Totals
January	3.59	3.42	4.98	5.19	3.65	4.20	3.51	7.94	1.49	2.15	40.12
February	5.68	1.80	2.24	1.75	4.07	4.53	4.46	2.83	2.38	5.46	35.20
March	5.00	2.85	1.17	.41	.90	1.47	7.50	1.31	1.25	1.46	23.32
April	2.89	2.11	2.26	3.62	2.39	1.57	3.30	2.56	3.21	2.94	26.83
May	2.73	4.22	2.81	1.22	3.54	2.18	4.29	1.05	2.41	2.41	27.56
June	.53	1.35	2.60	2.25	3.08	2.49	2.89	3.38	.53	.50	19.60
July	1.64	2.47	1.90	3.77	2.05	3.64	1.62	1.06	3.10	3.04	24.59
August	4.49	4.08	3.88	3.10	4.82	5.10	.23	3.77	4.19	4.81	38.47
September	.62	2.16	4.02	5.43	1.76	6.76	1.82	1.46	.95	4.30	29.28
October	4.48	4.16	2.55	3.98	5.94	.78	1.11	1.21	3.18	1.68	29.07
November	3.67	1.76	2.87	6.09	.39	6.55	4.10	1.32	4.84	3.69	35.28
December	1.72	2.60	2.27	4.14	2.40	3.25	3.29	3.42	5.23	2.00	30.32
TOTALS	37.02 D	32.98 d	33.55 d	41.65 d	34.99 d	42.52 D	38.12 D	31.31 D	33.06 D	? 24.44 D	359.64

1950 Printed with guesy (low?)
 average of 36.6 should not be used (1119 of file refers)

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.

BRITISH RAINFALL ORGANIZATION

Station No. 3275

75 46

RAINFALL at Bradford (Chellow Heath Res.)

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County of West Riding - Yorks Observer J.H. Matthews Engineer,River Basin Ure - Aire - 9Type of Gauge London Mk II 556/52Annual Average 36.82 in. based on 35 years obs. un-recited. Period of average 1916-1950 Ref. PFile No. 1916-1950 166.554/26 E.22802/55

Diameter	...	5"		075	518							
Height	...	1'0"			1			11"				
Altitude	...	848'			51							
Year	...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means Totals
January	...	2.95	3.71	2.66	3.12	2.44	5.84	2.98	3.71	3.18	5.32	33.91
February	...	3.42	7.3	2.66	4.34	2.75	1.59	3.24	5.72	3.1	3.30	28.06
March	...	3.75	1.74	1.36	2.94	2.70	1.40	2.63	2.13	1.64	2.23	22.52
April	...	1.56	1.64	2.44	.51	1.03	3.02	.30	.99	3.95	1.86	17.20
May	...	4.33	1.78	1.77	3.30	2.78	1.21	1.39	4.52	1.36	1.58	24.02
June	...	1.10	1.78	3.28	1.74	2.27	2.44	1.58	6.27	2.36	1.21	24.03
July	...	2.68	1.22	3.50	2.27	1.03	5.14	3.05	4.42	2.56	4.56	30.43
August	...	4.71	3.22	3.23	8.01	1.07	7.51	5.98	2.95	.73	4.37	41.78
September	...	2.05	2.68	3.21	3.90	1.53	3.92	4.45	3.83	.18	3.22	28.97
October	...	1.50	3.61	2.34	6.12	2.50	1.78	3.77	3.35	3.72	6.18	34.87
November	...	7.43	1.37	3.77	6.37	2.71	1.40	2.36	.93	4.47	7.03	37.84
December	...	5.28	3.03	2.04	4.65	4.75	4.41	3.94	4.90	7.18	4.21	44.89
TOTALS	...	40.76	26.51	30.26	47.24	27.56	39.66	35.67	43.72	31.64	45.07	368.12
		D	D	D	D	D	D	D	D	D	D	

4/54 " This was was rebuilt last summer and the probably accounts for the improved relationship with the Chellow Heath Gauge. Extract from letter from Insp. Mr. O'Hare 28.9.58 level of ground round gauge to be lowered. Gauge to be reset with rim 12" above ground - level mid top of turf wall. Site is overgrown S-W-N but good turf apart from above.

9. Turf wall.

Position of Station on Ordnance One-Inch map: No. of Map 96 National Grid Reference SE (H) 116352

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.

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
	✓	✓	✓	✓	
	-	✓ but -21-24	✓	✓ but 42-45	