

RAINFALL AT Waloden Whitcholme  
 Lat. .... Lon. .... County of Yorks. w-R  
 Rain Gauge, by ..... Observer, Rochdale Canal Co.  
C. R. Dyke Esq.

Diver & Gauder 8.

Diameter ..		8									
Height ..		1 5									
Altitude ..		1250									
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..											
	2.81	4.70	3.75	1.84	5.65	1.85	4.05	2.88			
February ..											
	1.68	3.84	3.45	1.67	2.98	2.02	2.75	2.05			
March ..											
	1.84	6.09	2.50	3.48	3.72	3.92	2.88	2.73			
April ..											
	2.09	1.65	3.00	2.62	1.58	2.24	1.75	3.95			
May ..											
	2.68	4.41	2.45	1.26	2.88	3.41	2.70	2.42			
June ..											
	1.51	1.31	1.78	2.48	2.50	7.40	2.24	2.48			
July ..											
	2.15	4.79	1.90	2.77	2.81	2.80	4.55	6.10			
August ..											
	4.38	5.75	5.34	6.12	4.70	4.30	3.55	3.45			
September ..											
	2.32	5.85	1.12	2.63	1.28	1.08	4.12	2.65			
October ..											
	4.99	9.78	2.74	3.59	7.11	5.32	2.65	5.98			
November ..											
	2.20	3.00	2.75	4.00	4.76	3.60	2.78	1.31			
December ..											
	4.24	2.35	2.85	1.40	2.30	4.55	2.45	6.90			
TOTALS ..											
	32.89	53.52	33.63	33.86	42.17	42.49	36.47	42.90			

Annual average rejected from survey.

## RAINFALL at Waleden Whitchelone Drain

W.R. Yorkshire

County of South Yorkshire  
River Basin Orne - Aire - Calder - 8.  
River Maun - Whitchelone - 3.Observer Rochdale Canal Co.

C.R.Dykes Esq

W.A.M. Pathley

Rain Gauge, by \_\_\_\_\_

Diameter ...	8										
Height .....	15										
Altitude ...	1250 ft										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	7.20	2.43	6.24	3.60	3.04	5.31	4.56		2.70		
February ...	1.95	4.98		1.75	3.28	3.61		6.78		6.94	
March .....	1.20	2.48	4.95	5.03	4.61		2.84		5.87	1.81	10.20
April .....	3.60	2.08	1.19	4.18	1.41		3.29			1.36	1.64
May .....	2.75	1.56	2.94	2.97	2.05	3.88	2.76	1.77	2.47		2.30
June .....	4.00	3.11	6.91	2.97	2.11	.68	2.81	2.27	1.52		2.07
July .....	4.00	.79	2.76	1.11	3.65	5.10	2.49	2.17	4.63		1.81
August .....	5.63	2.37	8.50	2.37	3.68	4.95	3.38	7.23	3.06		4.39
September ..	.35	4.07	3.11	1.76	2.97	1.21	2.76	2.74	12.35		2.07
October ...	2.95	3.64	4.94	2.14	2.47	1.70	8.24	7.62	3.93		2.69
November ..	5.78	4.93	2.52	4.90	5.61		3.39	3.53	2.20		3.53
December ...	4.52	5.58	5.94	2.40	6.40	8.28	3.10	1.78	8.20		6.90
TOTALS ...	43.93	38.30	50.07	35.21	41.28	37.56	43.50	34.98	51.17		37.63

1919 Gauge frozen up at end of Jan. &amp; Feb.

*Annual average rejected from survey.*

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

## RAINFALL at Walsden Whitcholme Drain

W.R. Yorkshire.

County of Yorkshire)

River - Aire - Calder - 8.

River Basin DerbyshireObserver Rochdale Canal Co.

Mr. J. McGrath Esq. M.B.E.

Engineer, Rochdale W.W. 1924Snowdonia Rain Gauge, by Cassella  
M.O. (127)

C.J. Bailey, C.E. Oldham Hill.

Diameter ...	8										
Height .....	1' 5"					1'-0					
Altitude ...	125' 0				1240	1240					
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	M.EAN.
January ...	4.70	7.83	3.65		3.47	5.19	5.51	4.71	12.40	1.92	7.10
February ...	4.19	9.98	5.19		1.45	7.92	4.48	1.87	5.80	.85	.88
March .....	3.16	3.89	3.52		1.85	1.63	2.56	4.57	2.98	1.57	3.21
April .....	6.20	1.25	3.00		2.44	3.87	1.97	3.38	1.16	1.37	3.39
May .....	5.52	2.35	1.50		5.76	5.34	4.72	2.14	1.67	3.92	2.29
June .....	3.50	1.26	2.82		3.15	1.12	3.14	4.33	7.68	1.85	2.57
July .....	8.90	2.40	4.85		4.71	2.20	4.22	3.37	2.12	2.55	7.44
August .....	2.60	7.23	5.87		6.81	4.43	5.07	9.30	5.41	6.32	8.19
September...	2.57	2.18	3.93		5.94	4.13	4.21	6.80	.76	2.14	4.38
October.....	1.80	3.14	.96		6.19	6.24	4.93	5.64	6.08	6.48	6.53
November...	2.67	2.65	3.07		3.41	2.57	6.67	5.73	8.18	8.47	6.81
December...	3.78	6.27	4.29		5.32	4.54	2.14	1.55	8.27	8.68	3.88
TOTALS...	49.61	104.34	42.65		50.50	47.98	49.45	53.15	57.31	46.12	56.67

1924. Reservoir embankment. 55 ft. high,  $\frac{1}{8}$  mile to S.W.

Inspected 5.10.23. 2 ft. less. New site 300 yds. S. of old g.c. in adj.

*Annual average rejected from survey.*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	Parish Church.	Distance from gauge
1924	53° 46' 43"	2° 2' 10"	Walsden	3 m.	W.N.W.	Littleborough	3 1/4 m S.W.

## RAINFALL at Walsden (White Holme)

County of West Riding

Observer C. J. Ballley, Esq., C.E.

River Basin Ouse-Aire-Calder-8

C.B.M. 1931-1938 (1938)

Type of Gauge M.O.

Annual Average ~~4.71~~ in. based on ~~8~~ years obs. un-weighted. Period of average 1931-1935Ref. ~~22~~

660607/26

Diameter	8.										
Height	1.0.										
Altitude	1240.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	5.23	6.01	3.72	3.61	1.88	4.14	4.34	5.83	5.51	(3.02)	
February	6.70	2.28	4.62	3.38	6.55	2.80	6.18	2.51	4.79	3.37	
March	4.43	2.10	2.97	3.24	1.83	3.11	4.60	1.41	2.46	3.35	
April	4.10	3.89	1.94	2.94	4.03	1.84	3.32	1.84	1.99	2.77	
May	3.67	5.48	2.36	3.68	1.94	1.35	2.67	4.47	1.23	1.22	
June	7.20	1.13	3.16	3.42	6.98	5.42	3.90	6.29	3.42	1.04	
July	5.19	4.20	3.31	3.42	2.16	4.17	3.05	5.28	7.71	4.42	
August	6.03	1.63	1.86	3.93	1.91	2.92	2.48	4.98	3.00	2.59	
September	3.96	5.81	1.62	4.00	8.87	5.35	2.63	1.99	1.81	5.16	
October	3.15	8.25	5.20	6.03	10.42	5.78	2.51	11.78	2.65	4.90	
November	8.30	3.75	2.23	2.44	7.17	6.32	2.11	6.77	8.31	7.90	
December	2.33	2.73	0.63	6.69	3.20	4.57	3.04	5.21	3.52	4.09	
TOTALS	56.34	44.96	33.61	43.78	55.94	47.79	40.76	57.36	46.60	43.83	
	D	d.	d.	d.	d.	d.	d.	D	d.	d.	

1931. Reservoir Embankment 35' high  $\frac{1}{8}$  mi SW.

1940. Tan. 3 days cold from nearby stations.

*Rejected from Survey as 8° too low. Letter sent 8/1/38.*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
1931			Walsden	3 miles	WNW	Littleborough	3½ ml SW

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

Station No. 3223

## RAINFALL at Wadsworth (White Holme)

41

County of West Riding Observer G. Bushfield Esq.

River Basin Ouse - Aire Shale - 8

Type of Gauge M.O.

Annual Average in. based on years obs. un-weighted. Period of average

Ref.

File No. 660607/26

Diameter	8"	077	474								
Height	1' 0"		1								
Altitude	1240'		41								
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.63	4.72	6.33	7.40	4.78	5.42	4.06	10.50	3.04	3.00	
February	6.49	1.52	3.31	2.59	5.63	6.80	1.09	4.15	4.22	5.91	
March	3.71	3.01	1.65	.69	1.42	1.47	6.17	2.50	1.80	2.97	
April	2.51	2.25	2.72	3.56	2.57	1.69	5.29	2.28	5.12	4.66	
May	2.67	4.02	3.35	4.33	4.60	2.11	2.77	1.50	4.43	2.40	
June	1.23	1.32	4.70	3.81	4.67	4.62	3.22	5.30	4.90	2.48	
July	1.95	4.46	3.32	4.37	2.71	4.50	3.22	2.37	3.01	4.41	
August	7.88	5.01	6.98	9.81	3.86	7.46	4.5	5.56	4.80	6.93	
September	.84	2.65	4.92	5.78	3.23	8.43	3.66	3.58	1.64	8.60	
October	5.86	7.20	3.39	4.71	7.02	1.02	1.20	3.10	6.14	2.81	
November	3.72	1.45	3.83	7.93	.77	8.91	8.90	2.71	7.45	6.27	
December	2.93	4.24	2.64	5.03	2.95	3.95	4.76	5.12	8.44	2.96	
TOTALS	41.42	41.85	47.14	54.01	44.21	55.38	44.79	48.67	51.59	53.30	

1941. Reservoir Embankment 35' high & SW.  
1947. Look like a little high.

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			Wadsworth	3m	WNW.	Littleborough	3½m	SW.

Station No. 3223

51

RAINFALL at Walsden (White Holme)

County of West Riding Yorks.

Observer

G. Busfield Esq.

River Basin. Ouse-Aire-C Calder S

Type of Gauge.

M. D.

Annual Average..... in. based on..... years obs. un-weighted. Period of average..... Ref.....  
 " " 49.74 " " 17 " " within 1940-57 " " 1916-50  
 File No. 660607/26

Diameter	8"	077	474								
Height	1'0"			1							
Altitude	1240'		51								
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	5.10	4.48	1.65	4.43	3.19	6.19	5.45	4.75	3.66	4.33	
February	3.53	1.66	2.23	3.15	2.79	1.76	3.39	6.99	.66	2.98	
March	5.54	3.51	2.40	8.07	2.15	2.13	4.37	2.69	2.05	1.44	
April	3.27	3.73	3.84	.87	2.52	3.48	.53	1.41	3.78	2.53	
May	3.30	2.26	3.51	3.75	4.56	2.16	1.87	4.84	1.91	2.19	
June	1.62	3.77	3.43	3.88	3.80	3.93	3.27	5.78	2.10	1.60	
July	5.30	2.49	7.06	6.15	1.31	9.98	5.87	4.91	2.63	5.88	
August	6.54	5.93	6.03	7.64	1.39	12.93	6.79	6.89	.84	5.17	
September	3.40	4.56	3.98	6.14	3.72	5.04	6.24	5.90	.53	2.97	
October	1.67	6.65	2.45	10.10	3.16	3.37	8.09	5.00	5.02	4.84	
November	10.02	2.73	5.97	7.20	3.28	1.84	2.94	1.82	4.48	6.66	
December	8.63	4.65	2.23	7.64	7.53	5.25	5.56	4.88	6.25	3.65	
TOTALS	57.92	46.42	44.78	64.00	39.40	56.86	54.37	55.86	33.91	44.24	
	D	D	D	D	D.	D	D	D	DNP	8 np	

1951. Reservoir embankment 35' high 48m. SW.

1959 X flooded in plough

1960:- np low

Position of Station on Ordnance One-Inch map : No. of Map..... National Grid Reference SD 34 975203

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Parish Church.	Distance from gauge.
1951			Walsden	3m. WNW.	Littlesome	3 1/4 m. SW.

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	20-22, 24-30 ✓ bnd - 35-32 - 34-26 D 30	✓ bnd - 34-34 D 31	✓	✓