

RAINFALL AT Walderne Warland Drain
 Lat. Lon. County of Yorks. & L. of
 Rain Gauge, by Observer Rorkedale Farm Coy
 C.R. Dyke Esq

Area, 1000 ft.

Diameter			8								
Height			15								
Altitude			1250								
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January			3.10	4.93	4.15	1.73	5.69	1.62	3.75	2.74	
February			1.58	4.36	3.30	1.44	0.09	2.06	2.60	2.10	
March			1.78	6.33	2.40	3.70	3.55	3.41	2.91	2.90	
April			2.00	1.48	3.12	2.58	1.38	2.05	1.69	4.03	
May			2.58	3.95	2.40	1.14	3.05	3.22	2.76	2.24	
June			1.50	1.05	1.92	2.75	2.11	7.50	2.18	2.45	
July			2.00	5.00	2.00	2.60	2.35	2.69	4.50	6.05	
August			4.45	5.84	5.95	5.95	4.45	3.65	3.48	3.11	
September			2.30	5.69	1.82	2.42	1.23	.94	4.09	2.58	
October			4.76	9.25	2.43	3.24	7.29	5.15	2.70	5.76	
November			2.18	2.80	2.80	4.02	4.42	3.29	2.66	1.20	
December			4.14	2.25	3.01	1.45	2.63	4.59	2.52	6.70	
TOTALS			32.37	52.93	34.80	33.05	41.24	40.17	35.84	41.86	

Annual average rejected from survey.

RAINFALL at Walsden Warland Drain

County of West Yorkshire
 over Aire & Calder - 8
 River Basin Mess 11 3

Observer Rochdale Canal Co. C.R. Dykes Esq
 W.A.M. Frank Esq

Rain Gauge, by _____

Diameter ...	8											
Height	1.5											
Altitude ...	1250 T											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	
January ...	6.91	2.13		3.34	3.08	4.05	3.35		2.30			
February ...	2.18	4.82	6.18	1.66	3.20	3.80		6.03	5.25	6.25		
March	1.25	2.35	4.83	4.00	4.45			6.03	5.25	1.65	8.90	
April	3.85	2.37	1.21	4.16	1.27	2.15	2.30			1.35	1.30	
May	2.55	1.51	2.86	3.00	2.02	3.72	2.84	2.28	2.62	1.88		
June	3.90	2.78	6.87	2.72	2.02	.91	2.62	2.09	1.55	1.45		
July	3.96	.87	2.98	1.06	3.79	5.06	2.21	2.07	1.60	1.55		
August	5.30	2.81	8.57	2.15	3.59	4.90	3.61	5.63	2.58	3.92		
September ..	.31	4.03	2.77	1.94	2.84	.95	2.02	1.92	11.10	1.62		
October ...	2.84	3.72	5.07	2.10	2.56	1.72	7.21	6.31	3.20	2.56		
November ..	5.67	4.98	2.25	4.75	5.53			3.05	2.21	1.77	2.22	
December ...	4.45	5.63	6.02	2.27	6.57	8.30		2.50	1.25	6.77	6.18	
TOTALS ...	43.17	38.00	49.61	33.15	40.91	35.59	37.74	28.01	44.74	31.58		

1919 Gauge frozen up at end of Jan & Feb.

Annual average rejected from survey.

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

RAINFALL at Walsden Warland Drain

W.P. Yorkshire.

County of Lancashire
Over- and Colder - 8.
River Basin Mersey & Tame

Observer Rochdale Canal Co.

M.A. M. & M. Eng. M.R.

H.A. Bradfords. (Rochdale W.L.)

Rain Gauge, by

Diameter ...	8											
Height	1.5										1.0	
Altitude ...	1260											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.	
January ...	4.12	6.40	2.96		3.61	5.73	5.88	4.00	16.77	2.42	8.04	
February ...	3.56	70	4.35		1.32	7.80	4.39	1.67	6.61	.87	1.13	
March	3.10	3.07	3.36		1.74	1.73	2.17	5.38	4.69	1.60	3.02	
April	5.92	1.09	2.92		2.14	3.51	2.01	4.30	1.75	1.48	3.55	
May	5.40	2.25	1.43		7.33	5.50	4.78	2.34	2.06	3.81	2.22	
June	3.56	.09	1.76		2.86	.15	3.54	4.80	9.98	1.60	2.71	
July	9.35	1.97	4.78		4.83	1.90	3.34	4.07	J'02	2.39	6.58	
August	3.19	6.76	5.92		7.44	4.97	4.93	9.15	7.40	6.03	7.77	
September...	1.98	1.89	3.35		5.73	4.08	4.24	7.20	.97	2.70	5.11	
October.....	2.22	3.00	.91		6.81	6.96	5.08	7.47	7.81	6.38	7.44	
November...	2.42	2.55	2.91		2.91	2.63	7.16	7.29	9.37	9.24	7.10	
December...	3.92	5.04	3.46		6.25	4.33	2.37	3.06	4.00	9.71	4.22	
TOTALS...	48.74	34.81	38.11		52.97	49.29	49.89	60.73	74.43	48.23	58.89	

Inspected 5.10.23. Found new site 200 yds. W. across the drain on a dip

Inspected 12.8.31 by Dr. Glasspoole — see green file

*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 from gauge	Parish Church.	Distance from gauge
1925			Walsden	1½ m		Walsden	1½ m

RAINFALL at Walsden (Warland Drain)

County of West Riding..... Observer Rochdale Corp.

River Basin Ouse-Aire-Calder-8.

Type of Gauge.....

Annual Average 5.1 in. based on 6 years obs. un-weighted. Period of average 1921-1935 Ref. S
666987/26

Diameter	8.											
Height	1.0.											
Altitude	1250.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	6.36	6.44	2.83	5.05	2.05	4.88	4.87	7.02	8.03	(2.42)		
February	6.37	2.28	4.82	5.50	6.64	3.26	6.78	2.47	6.47	3.02		
March	4.48	2.62	3.46	3.29	1.85	2.93	2.50	1.87	3.76	4.01		
April	4.51	4.64	2.36	3.05	4.36	1.65	3.37	1.89	2.81	3.98		
May	3.61	5.53	2.05	3.73	1.89	1.47	2.94	5.00	1.64	1.45		
June	7.43	6.67	3.12	3.18	5.62	4.82	3.16	6.38	4.74	.98		
July	4.73	5.16	3.65	2.92	2.25	4.25	2.78	5.36	8.53	4.79		
August	5.64	1.80	2.32	4.03	2.01	3.12	2.90	5.29	3.38	2.19		
September	3.91	5.70	1.82	4.43	8.72	4.32	2.64	1.86	1.67	5.57		
October	3.14	8.49	5.52	6.62	11.13	5.96	2.97	14.37	3.20	6.58		
November	9.71	3.70	3.01	2.53	6.89	7.93	2.94	8.21	8.79	11.01		
December	2.61	3.62	0.64	6.82	3.88	6.52	3.03	6.41	4.51	5.54		
TOTALS	58.50	48.66	36.10	46.15	56.29	51.11	40.88	65.13	57.53	51.54		
	D	D	D	D	D	D	D	D	D	D		

1940 Jan. & Feb. part est'd.

*Average recorded 1926-29 51.9 ins. adopted for publication.
Annual average reported from accuracy*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

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

Station No. 3226

41

RAINFALL at Walbourn (Worlond Drain)

County of West Riding

Observer

Rochdale Cotton

River Basin Name: Aire-Colden-8

Type of Gauge

Annual Average 51.9 in. based on 6 years obs. un-weighted. Period of average 1881-1915 Ref. S

File No. 666987/26

Diameter	8"			0.77	51.6						
Height	1' 0"				1						
Altitude	1250'				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.59	(6.27)	8.06	8.50	4.73	6.86	3.95	11.21	3.35	3.87	
February	6.18	(1.62)	4.35	2.81	6.51	7.05	2.86	4.10	4.64	8.15	
March	6.22	(4.01)	2.00	.80	1.56	1.90	6.80	2.76	1.49	3.91	
April	3.67	3.04	3.14	4.51	3.77	1.83	5.67	2.98	5.75	4.94	
May	3.17	4.78	3.93	4.14	5.44	1.93	2.84	1.55	4.54	2.87	
June	1.29	1.46	4.97	4.58	5.87	4.66	3.69	6.45	.95	3.18	
July	1.74	5.14	4.22	4.97	2.54	4.82	3.87	2.16	3.00	5.78	
August	8.33	6.32	8.91	4.24	3.77	8.03	.52	5.93	1.47	7.45	
September	.88	3.00	7.74	7.65	3.88	9.87	3.58	4.37	1.47	10.04	
October	6.19	8.17	4.21	6.06	8.78	1.14	1.53	3.41	6.54	3.71	
November	4.33	1.71	4.23	9.77	.77	10.04	7.93	2.74	8.13	6.48	
December	3.19	5.50	3.25	6.22	3.76	4.62	4.61	5.58	9.88	3.87	
TOTALS	46.78	(51.02)	59.01	64.25	51.38	62.75	47.85	53.84	54.54	63.65	
	D	D	D	D	D	D	D	D	D	D	

1942 Jan. to March card for snow.

1943 n.p. high

1944 n.p. high. (Bubble tube used. Note some evaporation since July)

1950 gauge tested for leaks found none.

1950 n.p. high

70004

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	Parish Church.	Distance from gauge

Station No. 3226

51

RAINFALL at Walsden (Marland Drain)

County of West Riding - Yorks. Observer Rochdale Corp.

River Basin Ouse - Aire - Calder - S

Type of Gauge M

Annual Average 57.9 in. based on 6 years obs. un-weighted. Period of average 1881-1915 Ref. S
 " 54.35 " 28 " 1916-50
 File No. 666.987.726

Diameter	8"		077	516	on 1000 5"							
Height	1'0"			1								
Altitude	1250'			51								
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	
January	6.33	7.02	1.58	3.80	2.73	8.84	7.30	6.32	4.59	6.46		
February	4.56	2.02	2.87	4.26	2.06	1.87	4.31	8.25	.92	5.08		
March	6.34	3.71	2.23	2.83	2.01	2.26	5.35	3.14	2.51	2.19		
April	4.33	3.86	3.15	.53	2.23	3.78	.62	2.02	4.36	4.15		
May	2.38	2.18	2.93	2.87	3.85	2.57	2.21	5.79	2.32	2.69		
June	2.19	4.54	2.42	2.88	3.35	3.91	3.23	6.28	2.78	2.17		
July	4.67	2.28	4.65	3.90	1.22	8.56	7.01	5.66	3.94	8.43		
August	6.57	5.67	4.69	6.07	.99	11.61	7.50	6.38	.96	6.03		
September	4.23	3.34	2.70	6.02	2.86	5.79	7.09	6.88	.76	3.43		
October	1.68	5.79	2.10	9.58	2.61	4.18	10.02	6.08	7.41	6.55		
November	10.19	2.75	4.98	7.59	2.67	2.51	4.07	2.13	6.78	10.24		
December	11.01	4.12	1.90	7.82	6.55	6.19	7.08	5.46	12.12	7.17		
TOTALS	64.48	47.28	36.20	58.25	33.13	62.07	65.79	64.39	49.45	64.59		
	D	D	n.p.	n.p.	n.p.	D	D	D	D	D		

1951. Prints
 1953. n.p. low. Inspected 1955 Mr. Deeks. Gauge located between inner cylinder,
 cylinder & funnel; no stem, no bottle. measure flat. bellied ed.
 1954 n.p. bad. Exposure satisfactory. New 5" gauge, temp all open off Bell 1952
 1955 n.p. low

§ Tufwall

Position of Station on Ordnance One-Inch map : No. of Map 95 National Grid Reference 921217

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

Summary of Earlier Records from 10-year Sheets :

	1910-19	1920-30	1931-40	1941-50	1951-60
Record D, or d	/	20-22, 24-30	/	✓ mph 2, 44, 50	