

RAINFALL AT Todmorden Waterworks Ramsden Warr

Lat.

Lon.

County of Lancashire

? W.R. Yates 8

Aine Calder 8

Rain Gauge, by

Observer J. Radcliffe

Barrow, Invalk 3

Diameter ...											5	
Height											1. -	
Altitude											1326	
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January										2.26		
February										1.67		(3.17)
March										2.29		
April										2.10		
May										3.33		
June										2.44		
July										1.12		
August										5.29		
September....										8.66		
October.....										3.56		
November....										5.50		
December....										2.80		
										3.36		
TOTALS ...										(43.69)		
										42.12		

Walsden Church 1 1/2 miles E

Jan '89, Jan couple estimated

RAINFALL AT Todmorden W.W. Ramsden Moor

Lat. _____

Lon. _____

County of Lancaster ^{WP Yorks}

W. & G. Alder 8 Rain Gauge, by _____

Observer J. Radcliffe Esq

Diameter	5											
Height	10											
Altitude	1326											
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January	7.38	3.08	2.87	1.88	5.80	1.86	3.13	1.77	5.17	10.19	4.313	
February87	.37	2.12	6.78	7.84	.14	2.07	2.91	3.92	2.89	2.991	
March	4.31	1.82	.87	2.01	6.48	5.60	8.14	6.20	2.69	3.21	4.133	
April	1.67	1.68	1.12	.73	2.81	3.49	2.50	4.19	3.24	5.52	2.695	
May	3.83	4.27	4.67	3.08	4.10	1.05	.60	2.45	3.50	3.78	3.133	
June	4.17	1.81	3.94	3.27	4.27	2.01	4.08	4.63	3.99	1.86	3.403	
July	4.57	3.94	4.78	4.56	4.88	6.48	3.49	2.37	1.25	3.89	4.021	
August	5.14	9.93	7.15	4.38	5.01	7.42	3.54	6.37	8.65	1.56	5.915	
September...	1.21	4.60	6.30	6.49	.62	3.01	11.38	5.99	1.47	9.07	5.014	
October	3.55	6.89	7.72	5.39	6.20	6.09	5.53	3.39	5.97	2.90	5.363	
November...	7.50	4.84	4.81	4.51	3.32	5.39	1.86	4.89	5.01	3.87	4.600	
December84	10.16	2.82	6.27	6.15	5.41	8.05	8.60	7.36	3.35	5.901	
TOTALS	45.04	53.39	49.17	49.35	57.48	47.95	54.37	53.76	52.22	52.09	51.482	

Nalsden Church 1 1/2 miles E

RAINFALL AT Todmorden W.W. Ramsden Moor

Lat.

Lon.

County of Lancashire South

Rain Gauge, by

Observer W. Tomlinson Esq

Air & balder 8

Diameter ..	5										
Height	1.0										
Altitude ...	1326 ft										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ...	7.85	2.71	5.50	5.28	4.10	1.38	5.60	2.26	3.90	1.71	4.029
February ...	4.47	1.49	.64	3.96	4.39	.67	2.02	.83	3.81	1.37	2.565
March	1.70	5.12	3.48	3.17	1.40	2.50	3.71	3.26	2.10	1.88	2.832
April	3.48	3.80	1.97	1.36	3.32	2.16	.67	1.53	1.29	3.82	2.340
May	2.14	.95	2.63	4.10	2.27	.96	2.57	3.31	4.42	1.61	2.496
June	3.63	3.73	1.32	1.24	2.14	2.75	2.03	7.99	1.51	2.47	2.881
July	3.11	1.63	2.15	2.48	1.62	2.34	2.05	2.72	4.69	4.89	2.768
August	6.31	3.52	3.43	6.96	4.74	4.00	5.09	4.16	4.40	3.40	4.601
September ..	2.78	1.74	2.05	4.97	1.31	2.91	1.58	1.28	4.47	2.50	2.559
October	6.28	3.86	4.18	11.48	2.04	2.55	4.35	4.33	2.01	5.66	4.674
November ..	6.33	8.33	2.55	2.46	2.51	3.09	5.11	3.18	3.04	.22	3.682
December ..	9.77	4.25	3.03	3.69	3.49	5.56	3.83	4.88	3.51	5.43	4.744
TOTALS ..	57.85	41.13	32.93	51.15	33.33	30.87	38.61	39.73	39.15	34.96	39.97

Too small. Omitted from Oldham Water 1909. (and)

Hud

1909 Bad : not printed

RAINFALL at Todmorden W.L. Ramsden HillCounty of W.R. YorkshireObserver F. H. Bunt Esq. Ch.River Basin Onne Aire Calder &Copper Mountain Rain Gauge, by Carroll

Diameter ...				5							
Height				10							
Altitude ...				1326							
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...				(5.00)	5.28	8.00	4.90	(3.00)	3.40	7.70	
February ...				2.50	4.70	6.50	6.30	1.30	6.90	1.40	
March				5.52	6.70	2.00	2.50	(2.80)	2.70	(6.40)	
April				5.90	2.20	2.40	3.20	(1.80)	1.40	2.10	
May				4.00	3.50	4.00	2.70	2.30	2.10	2.00	
June				3.30	1.70	1.10	3.30	2.60	1.50	2.00	
July90	3.50	6.30	3.10	2.80	5.80	2.30	
August				2.00	5.30	5.70	3.50	6.90	3.70	4.10	
September ..				2.20	4.50	1.30	1.40	2.80	14.10	2.50	
October ...				2.80	3.30	2.30	10.90	11.00	4.60	1.90	
November ..				7.30	7.70	1.70	4.10	3.40	2.60	4.50	
December...				3.50	(4.80)	9.10	3.80	2.80	10.20	8.10	
TOTALS ...				(44.92)	(57.18)	50.40	49.70	(43.50)	59.00	(44.80)	

1913 Jan est.
 1914 Dec corrected for Snow
 for open Mountain
 1917 Cord for Snow.
 1919 " " "

to 2 ft
 Turf wall raised V. 17

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
			Walsden	2 m	NE	Walsden	2 m	NE

RAINFALL at Walsden Parneden HillCounty of N. B. YorkshireObserver H. A. Braddock Esq. C.E.River Basin Guse. Aire - Calder &Rochdale W. W.Copper Mountain Rain Gauge, by CassellaW.

Diameter ...	5"											
Height	10											
Altitude ...	1326											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	
January ...	5.50	5.50	4.70	5.60	4.50	5.60	7.20	5.10	8.90	1.50	8.40	
February ...	4.50	4.50	6.20	7.30	1.60	9.60	5.00	1.83	6.80	1.00	.90	
March	4.40	4.40	4.50	2.20	1.90	1.60	3.20	4.80	1.70	1.60	(2.45)	
April	6.60	6.60	3.00	4.10	2.40	3.40	1.90	4.40	1.10	1.60	(3.30)	
May	6.30	6.30	1.90	4.70	6.70	4.90	5.50	2.10	1.50	4.10	(2.70)	
June	2.70	2.70	3.10	1.80	2.50	.00	3.50	4.10	7.00	1.80	(1.90)	
July	11.30	11.30	6.10	4.40	5.60	2.10	3.00	4.50	2.30	2.20	7.20	
August	3.80	3.80	6.70	7.40	8.00	5.50	5.50	8.70	5.28	6.40	7.70	
September...	3.10	3.10	4.30	6.10	6.20	4.60	4.00	7.20	.80	2.10	(5.30)	
October	2.20	2.20	1.00	7.60	7.30	7.51	5.30	6.20	4.40	7.70	(8.20)	
November...	3.60	3.60	4.10	8.40	3.30	3.30	7.50	6.70	7.10	10.30	7.40	
December...	5.80	5.80	5.80	5.30	6.60	4.20	2.30	1.60	2.00	10.80	(4.40)	
TOTALS...	59.80	59.80	51.40	64.60	56.60	51.31	53.90	57.23	48.88	51.10	59.85	

1921. Jan. Feb. "not on 1" gauge"

1925-1929 data received 11/31 File 666747/26

1930. Dec. 28-31. Est. from our 2 stations.

Inspected 12.2.31 by Dr. Glasspoole - see green file.

Position of Station on reduced Ordnance Survey
Map, 2 miles to 1 inch Series

No. of Map

Reference No.

Date.	Lat. N.	Long. W.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
1920	53° 42'	2° 7'	Walsden			St. Peter's		

RAINFALL at Walsden (Ramsden Hill)County of West RidingObserver Rochdale Corpn.River Basin Ouse-Aire-Calder-8

Type of Gauge

Annual Average 52.0 in. based on 12 years obs. un-weighted. Period of average 1881-1915 Ref 5

66987/26

Diameter	5.											
Height	1.0.											
Altitude	1326.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	1941
January	7.12	7.40	(4.80) 4.00	5.00	2.80	5.15	4.82	7.33	4.81	2.01	51.24	
February	7.30	.20	(4.50) 4.00	5.0	7.00	5.18	6.65	2.82	4.82	1.66	40.63	
March	.60	(3.00)	4.00	3.30	1.90	3.03	2.65	1.40	3.11	3.48	26.97	
April	2.90	(5.10)	(2.70) 2.00	3.10	4.00	1.66	3.77	.00	1.82	3.04	27.59	
May	2.60	(4.70)	(2.55) 2.00	4.00	.90	.80	2.68	3.70	1.28	2.21	25.57	
June	7.50	(1.10)	3.25	3.40	4.50	4.35	2.75	2.36	3.97	.93	33.41	
July	5.63	(4.80)	4.10	3.70	2.16	5.40	3.00	3.86	6.34	5.40	44.39	
August	5.60	(1.40)	2.20	3.20	2.99	3.50	2.78	7.25	4.31	2.82	36.05	
September	3.03	(6.40)	1.60	5.70	9.63	5.64	2.71	1.89	1.70	4.34	42.64	
October	3.60	(9.00)	6.30	7.00	11.90	6.96	1.89	10.53	1.97	5.99	65.04	
November	12.00	(4.50)	2.30	3.60	6.24	6.51	1.56	5.42	7.81	9.51	59.45	
December	2.83	4.10	0.24	6.50	5.86	5.40	2.50	5.14	3.98	5.87	42.42	
TOTALS	60.71	51.70	38.99	49.00	59.88	53.48	37.76	51.70	45.92	47.26	495.40	
	W		W	W	W	W	W	W	W	W	W	

1932. Allocations required to bracketed months. Observer reads weekly but not on last day of month.
 1933 Bracketed months allocated for date of entry.

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

Station No. 3237RAINFALL at Walsden (Ramsden Hill)

41

County of West RidingObserver Rookdale Borton H.H.River Basin Ouse-Aire-Balders

Type of Gauge

Annual Average 52.0 in. based on 12 years obs. ~~un~~-weighted. Period of average 1881-1915 Ref. SFile No. 66598726

Diameter	5"										
Height	1' 6"										
Altitude	1326'										
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means Totals
January	1.28	5.66	7.16	7.43	3.87	6.41	3.70	12.12	2.98	4.85	55.16
February	5.00	1.77	4.20	2.44	6.98	6.65	2.92	4.36	4.08	7.26	45.66
March	4.84	3.64	1.99	.71	1.45	1.54	7.13	1.41	2.10	4.29	29.60
April	3.04	2.84	3.17	4.34	3.17	1.68	5.13	2.51	14.94	4.76	35.58
May	2.91	4.10	3.21	3.70	5.53	1.45	1.97	1.53	3.90	2.35	30.65
June	.78	1.10	5.02	5.35	5.62	4.74	3.72	7.60	.63	2.94	37.50
July	1.95	5.82	3.60	4.98	2.97	4.26	3.74	2.70	2.29	6.08	38.39
August	8.82	5.90	7.97	4.45	4.55	7.13	.45	5.94	4.33	7.72	57.26
September	.62	2.35	5.91	8.28	2.89	10.09	4.05	3.84	1.33	11.58	51.54
October	6.19	6.84	3.16	6.22	7.41	1.23	1.02	3.15	6.71	2.62	45.55
November	3.79	1.46	4.56	9.48	.49	9.71	7.91	2.95	8.17	7.08	55.60
December	3.25	4.60	3.14	5.95	3.27	5.11	5.40	5.19	9.72	2.25	48.88
TOTALS	42.47	46.68	53.09	63.33	48.20	60.00	47.14	53.80	57.18	65.48	531.37

1947 n.p. Engineer agrees with readings are too close to those for 3238

1948 not an independent record.

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

RAINFALL at ^S Walsden (Ramsden Hill) Station No. 3237 51
 County of West Riding - Yorks. Observer Rockdale Corpn.
 River Basin Quase Aire - Calder &
 Type of Gauge

Annual Average 52.9 in. based on 12 years obs. un-weighted. Period of average 1881-1915 Ref. S.
 " " 53.27 " " 35 " " with 1916-57 " " 1916-50 66.98/25
 File No.

Diameter ...	5"		077	010							
Height ...	1'0"			1							
Altitude ...	1326'			51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means Total
January ...	5.63	4.22	2.23	5.06	3.93	6.41	6.74	6.37	5.06	7.55	53.20
February ...	4.23	1.44	3.65	4.48	1.85	2.22	4.61	9.52	1.03	5.47	38.50
March ...	5.64	4.31	3.20	4.26	2.35	2.02	5.72	2.94	3.23	1.86	35.53
April ...	3.72	4.82	3.96	.88	3.72	2.47	.64	2.36	4.55	4.04	31.16
May ...	2.58	2.25	3.25	3.18	5.36	2.66	2.40	5.99	2.43	2.61	32.71
June ...	1.81	4.54	2.51	4.06	4.20	3.81	2.41	6.37	3.46	2.19	35.36
July ...	4.27	2.45	6.71	7.48	1.75	8.39	8.36	4.98	4.61	9.81	58.81
August ...	7.51	5.54	6.25	8.89	1.11	11.06	7.33	6.15	.70	5.97	60.51
September ...	4.86	4.20	5.40	8.44	4.12	5.69	7.86	6.59	.68	4.04	51.88
October ...	1.42	6.98	3.14	12.70	3.51	4.58	10.78	6.65	7.66	6.69	64.11
November ...	10.58	3.39	7.80	9.58	3.33	2.43	3.69	2.57	7.06	10.72	61.10
December ...	10.48	4.75	2.74	9.79	6.71	6.34	6.60	5.42	13.04	7.71	73.58
TOTALS ...	62.73	48.89	50.85	78.75	41.94	58.08	67.14	65.91	53.51	68.66	596.45
	W	W	W	W	W	W	W	W	W	W	

Inspected 19.8.55 Mr P. H. G. Dales. Gauge funnel leaks, stem missing. Gauge Bradford type with Mk II can as collecting vessel, no bottle. ~~Measure~~ Site of N. Rim 20" tilted south. Becom encased reducing to 12" horizontal. Build 7 in wall. Recommenced out 25.10.55 letter 19.1.56 00004

3 Trust Wall - add in 1956 G.T.

Position of Station on Ordnance One-Inch map : No. of Map 95 National Grid Reference 53 134 917208 145

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

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	19.13	✓	✓	✓ np 47.48	