

RAINFALL AT *Rochdale Spring Mill Whitworth*

Lat. ....

Lon. ....

County of *Lancashire*

Rain Gauge, by

Observer

*J. R. Ashworth Esq**Inwell 3*

Diameter ....							8				
Height .....							13				
Altitude ....							771				
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....							8.06	2.82	2.71	2.39	
February ....							1.04	1.55	1.57	4.38	
March .....							4.05	2.51	3.31	3.83	
April .....							4.10	2.04	2.65	3.06	
May .....							5.50	2.79	1.28	2.36	
June .....							2.80	.70	2.61	1.17	
July .....							5.11	2.31	8.12	5.35	
August .....							2.88	1.36	5.56	7.84	
September....							4.99	7.69	1.86	4.09	
October .....							6.16	2.85	2.63	4.70	
November ....							4.14	2.92	7.97	2.91	
December ....							8.40	4.18	2.71	5.09	
TOTALS ....							57.23	33.72	42.98	47.17	

# RAINFALL AT

Rockdale Spring Mill Whitworth

Lat. 53° 38' 51"

Lon. 2° 10' 20"

County of

Lancashire

Rain Gauge, by

Observer

J. R. Ashworth Esq  
W. Tomlinson Esq

Mersay Inwell 3

Diameter ....	8				8							
Height .....	1.3				1.7							
Altitude .....	777				720							
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January ....	7.28	4.18	5.79	1.59	4.98	3.93	2.84	2.25	4.70	8.33	4.587	
February ....	7.2	4.3	3.64	7.06	7.61	.26	1.84	3.73	4.34	1.93	3.156	
March .....	5.37	3.00	1.37	2.09	5.61	4.56	8.02	5.69	3.13	3.05	4.189	
April .....	1.68	2.24	1.92	.82	2.18	2.59	2.22	3.62	2.76	4.77	2.480	
May .....	3.69	4.50	5.38	2.98	4.04	1.13	.69	2.22	3.41	3.37	3.141	
June .....	3.79	1.79	4.44	3.48	3.74	3.41	3.16	4.90	3.29	1.07	3.307	
July .....	4.70	4.21	4.40	5.29	4.21	6.75	3.42	2.07	.99	2.72	3.876	
August .....	6.62	10.09	6.29	4.04	5.74	6.01	3.44	6.84	7.73	1.67	5.847	
September....	2.16	4.90	6.21	6.00	.42	2.34	9.11	5.71	1.23	8.85	4.693	
October .....	5.82	7.11	7.62	5.11	5.19	4.93	5.93	2.98	4.76	4.37	5.372	
November....	9.60	4.93	4.19	4.44	4.16	4.30	1.87	5.02	3.96	2.26	4.473	
December ....	7.31	10.74	4.15	5.55	5.50	4.50	6.67	8.15	5.70	3.66	5.535	
TOTALS . . .	52.16	58.12	55.30	48.45	53.38	44.71	49.21	53.18	46.00	46.05	50.656	

RAINFALL AT Rochdale Spring Mill Whitworth  
 Lat. 53° 38' 51" Lon. 2° 11' 20" County of Lancashire South  
 Rain Gauge, by J. Swell Observer W. Tomlinson Esq

J. Swell 3

Diameter ..	8										
Height ....	17										
Altitude ..	720										
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	7.69	3.52	4.30	4.86	4.91	2.93	6.81	2.81	5.18	3.71	4.672
February ..	3.75	2.03	1.67	5.07	5.36	2.95	5.13	3.38	4.41	3.25	3.700
March ....	.89	4.71	3.06	6.17	3.06	4.79	4.98	5.01	4.06	3.88	4.060
April .....	3.52	3.66	2.90	2.52	3.85	4.04	2.49	2.63	2.30	4.86	3.277
May .....	1.86	1.24	3.76	4.87	2.75	1.21	4.17	4.18	4.31	3.32	3.170
June .....	5.21	2.41	1.39	2.33	2.38	3.63	2.23	9.94	2.55	3.09	3.516
July .....	3.15	2.67	3.19	5.50	2.00	3.54	3.10	3.52	6.09	8.81	4.157
August ....	6.64	3.27	3.87	7.30	6.03	5.35	5.71	5.94	4.93	4.00	5.304
September ..	2.16	1.40	2.58	6.03	1.29	3.29	1.91	1.55	5.28	3.99	2.948
October ....	7.70	4.31	5.57	11.46	3.93	4.53	8.74	5.64	2.32	8.52	6.272
November ..	5.10	7.21	3.44	4.45	5.11	4.56	5.73	4.48	3.99	2.23	4.630
December ..	6.99	6.99	4.70	3.17	3.95	1.86	5.93	5.62	4.23	9.51	5.295
TOTALS ..	54.66	43.42	40.43	63.73	44.65	42.68	56.93	54.70	49.64	59.17	51.001

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HUB

Broadley Station  
 1909 Corrected for wrong day



RAINFALL at Rochdale Spring Mill WhitworthCounty of South LancashireObserver W. Tomlinson Esq F.H. Bunt EsqRiver Basin Mersey, Inwell 3

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

o.g.

Diameter ...	8										
Height .....	1.7										
Altitude ...	720										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	8.35	2.53	5.81	5.90							
February ...	6.26	8.32	3.09	2.78							
March .....	1.44	3.39	8.15	7.57							
April .....	4.11	3.81	1.74	6.44							
May .....	3.73	2.90	3.89	5.21							
June .....	4.20	4.66	8.47	4.36							
July .....	6.52	.70	5.99	1.54							
August .....	9.17	3.57	9.52	2.91							
September ..	.51	5.41	2.76	2.41							
October ...	4.38	4.90	6.34	2.78							
November ..	7.17	6.73	5.41	8.38							
December ...	6.02	9.72	8.19	4.89							
TOTALS ...	61.86	56.64	69.36	55.17	N.R.						

1913 Not printed

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
			Broadley	1/2 m	NW	Whitworth		

RAINFALL at Rochdale Spring Mill WhitworthCounty of South LancashireObserver F H Bruntley C.E.River Basin Mersey, Ince 3Snowdon Rain Gauge, by Cassella

N. Gauge

Diameter ...				5							
Height .....				1.7							
Altitude ...				720							
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1910-19 Means Totals
January ...				(5.88)	4.62	8.76	5.17	4.63	4.87	6.27	20.94
February ...				2.34	3.57	6.53	6.83	1.79	8.30	1.03	17.95
March .....				6.61	7.07	2.09	2.96	3.30	2.59	6.80	15.35
April .....				5.74	2.04	2.53	4.33	2.64	1.62	2.66	11.25
May .....				4.59	3.55	2.14	3.26	2.60	2.85	2.21	10.92
June .....				3.77	2.88	1.25	3.82	2.28	2.09	2.19	10.38
July .....				1.28	5.95	6.38	3.10	2.82	4.53	2.52	12.97
August .....				2.60	4.70	5.88	3.91	8.35	4.17	4.77	21.20
September ..				2.61	5.31	.84	3.55	3.34	14.96	2.87	24.72
October ...				2.34	3.29	2.00	10.32	11.32	5.32	2.88	29.84
November ..				6.94	7.47	2.94	4.42	6.38	3.30	4.78	19.08
December...				4.30	7.62	9.44	4.08	3.72	11.87	10.03	29.70
TOTALS ...				(48.40)	58.10	50.78	55.75	53.17	66.67	48.71	224.30

1912 within 5'0" of old gauge  
- far from old gauge.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
			Broadley	1/2 m	SE	Whitworth	1 m	NE

RAINFALL at Rockdale Spring Mill WhitworthCounty of LancashireObserver H. A. Braddock Esq. EngtRiver Basin Mersey-Truell 3RockdaleCa Snowdon Rain Gauge, by Casella5.00  
5.00  
5.03  
Inverted (21)

8852

Glass tested Casella 1056 H.K.M.

Diameter ...	5"											
Height .....	1.7							1.0				
Altitude ...	720											
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEAS.	
January ...	6.03	9.58	5.36	4.97	4.49	4.84	6.77	5.93	14.96	2.94	7.61	Total 73.48
February ...	5.58	6.7	6.47	7.33	1.58	8.77	5.06	2.19	7.06	1.15	.78	46.64
March .....	4.79	5.40	4.28	2.61	2.14	2.07	2.72	6.47	3.56	1.83	3.38	39.25
April .....	6.71	2.38	3.08	4.62	2.20	3.57	2.30	4.90	1.41	1.81	3.02	36.00
May .....	7.11	3.11	2.10	4.90	6.49	7.19	5.02	2.10	1.73	3.94	2.42	46.11
June .....	2.91	4.6	3.65	1.53	3.12	1.4	3.53	5.84	9.21	1.77	2.46	34.62
July .....	10.10	2.58	6.80	5.41	5.76	2.67	3.27	4.01	3.02	3.31	7.03	54.02
August .....	3.44	7.78	5.43	7.00	8.35	4.99	5.85	8.43	8.14	7.32	9.07	75.80
September...	3.39	1.92	4.94	5.93	5.56	4.64	4.41	7.42	1.70	2.50	5.37	46.78
October.....	1.73	4.65	1.04	7.70	6.42	6.66	5.30	6.06	6.54	7.32	7.74	61.16
November...	2.84	3.58	4.79	9.25	3.50	2.89	7.43	6.41	9.27	10.44	7.37	67.77
December...	4.81	9.23	6.19	5.58	6.24	4.22	2.53	1.49	3.89	10.17	4.28	58.63
TOTALS...	59.44	51.34	54.19	66.83	55.85	52.65	54.19	61.25	69.49	51.50	60.53	640.26
	D	D	D	D	D	D	D	D	D	D	D	9266

Inspected CS. 6.7.22 2. in broad valley running E-W. Good shelter all round. Stands on top of subsidiary terrace above valley floor on S. Land dropping 35 ft immediately to the N. Hence 16 ft high 2 ft. away all round. S. to be moved to flat meadows about 50 yds N. & below the terrace 20-40 yds S-W. House with small trees about 30 yds N. an excellent site.

1927. Dec. 29. R. Lowerside 7 ins.

VIII/31 Inspected 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 from gauge	Parish Church.	Distance from gauge	Direction from gauge
1920	53° 36'	2° 15'	Broadley	1/2 mi	S E	Whitworth	1 mi	N E



## RAINFALL at Rochdale (Spring Mill Whitworth)

County of South LancashireObserver Rochdale Corpn W.W.River Basin Mersey-Twelf-3

Type of Gauge .....

Annual Average 51.5 in. based on 44 years obs. un-weighted. Period of average 1881-1925 Ref. R.A. 359

66987/26

Diameter	5.											
Height	1.0											
Altitude	720											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	Totals
January	729	7.16	3.16	4.85	2.33	5.63	5.01	6.90	6.59	3.02		51.94
February	693	23	4.48	.67	7.45	3.42	7.61	2.76	6.49	2.87		42.81
March	50	3.38	3.58	3.16	1.92	3.67	2.24	1.71	3.76	4.03		27.95
April	443	4.72	2.27	2.94	4.32	1.61	4.11	.82	2.64	3.45		31.31
May	297	5.60	2.17	4.25	1.39	1.63	2.30	4.45	1.65	1.23		28.14
June	7.14	.95	2.46	3.88	4.34	4.43	3.05	5.98	4.47	1.15		37.83
July	567	5.11	3.87	2.98	2.42	5.51	3.13	5.68	7.44	5.56		47.31
August	5.95	1.35	2.32	4.53	2.17	3.97	3.69	5.47	3.57	2.44		35.46
September	3.74	6.74	1.87	4.48	9.22	6.32	2.20	1.87	1.47	6.01		44.41
October	3.19	9.65	5.61	7.25	11.19	7.34	2.34	13.47	2.50	5.57		68.11
November	11.19	4.03	2.32	2.46	6.21	7.51	2.01	7.34	8.93	9.15		61.15
December	2.71	2.83	.87	4.24	4.74	5.45	3.91	6.48	4.48	6.79		45.50
TOTALS	61.71	51.75	34.98	48.59	57.70	56.49	42.10	62.92	54.49	51.27		522.0
	2	D	D	D	D	D	D	D	D	D		48.4

1940. Jan. part. estd.

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	Direction	Parish Church.	Distance	Direction
				from gauge			from gauge	

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

Station No. 2912

RAINFALL at Rochdale (Spring Mill Whitworth) (+ A)\* 41County of South LancashireObserver Rochdale Corp. H.W.River Basin Mersey. Irwell-3

Type of Gauge.....

Annual Average 51.5 in. based on 74 years obs. un-weighted. Period of average 1881-1915 Ref. SFile No. 666987/26

Diameter	5"			561	659							
Height	1'0"				1							
Altitude	720'				41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	
January	1.49	7.69	7.43	7.60	4.60	6.35	4.05	12.18	3.21	3.57		Totals: 58.17
February	6.85	2.23	4.39	2.97	7.30	7.49	3.07	4.62	4.30	6.19		49.41
March	5.22	3.72	1.63	7.1	1.87	1.54	8.97	2.30	2.54	3.23		31.73
April	2.56	2.35	3.43	3.63	3.29	1.70	4.54	2.80	5.28	4.98		35.22
May	2.99	4.23	3.82	3.67	5.68	1.46	2.27	1.94	4.29	2.36		32.71
June	.61	.97	4.73	4.19	5.88	4.49	3.42	6.40	.61	3.38		34.68
July	4.83	6.22	3.77	5.00	3.62	5.26	4.33	3.33	2.84	6.53		45.73
August	8.85	6.27	8.93	4.32	4.98	8.23	.33	6.30	4.52	8.18		60.91
September	1.06	3.12	6.46	6.47	3.87	9.85	4.03	4.25	1.84	10.18		51.13
October	6.34	8.40	4.13	6.23	7.65	1.01	1.08	3.60	6.13	3.16		47.73
November	3.55	1.68	4.81	3.80	.67	8.89	9.15	3.35	8.25	7.69		57.84
December	3.58	5.36	2.98	6.08	4.01	4.55	4.95	4.75	9.19	3.95		49.41
TOTALS	47.93	52.84	56.51	60.74	53.42	60.82	50.19	55.82	53.00	63.40		554.67

\* Autographic ~~for~~ Irwell Valley Water Board.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. 2912

RAINFALL at Rochdale (Spring Hill, Whitworth)

51

County of Lancashire Observer Rochdale Corp.

River Basin Mersey - Skell - 3

Type of Gauge MK 1A on inspection

Annual Average 51.2 in. based on 44 years obs. un-weighted. Period of average 1881-1915 Ref. S

55.46 " " 35 " " 1916-1950

File No. 1916-1950 11199124 P  
See also 11124421/59 (new)

Diameter ...	5"			561	659						
Height ...	1' 0"				1						
Altitude ...	720'				5161'	*					
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means Total
January ...	5.96	6.62	2.24	5.34	3.23	7.01	5.49	5.48	4.13	7.33	52.93
February ...	3.74	1.51	3.65	4.50	3.01	1.45	3.62	8.04	.77	3.82	34.16
March ...	5.88	3.68	2.70	3.74	2.30	2.17	5.48	2.85	2.61	1.49	32.90
April ...	3.34	4.46	3.95	1.02	3.03	3.46	.62	1.81	4.39	3.56	29.64
May ...	2.12	2.53	2.73	3.51	5.20	2.59	1.80	5.11	1.79	2.18	29.56
June ...	2.32	5.11	4.23	4.58	3.61	4.01	2.59	5.49	4.23	2.14	38.31
July ...	4.18	3.14	8.80	7.37	3.26	7.83	6.28	4.16	4.31	9.22	58.55
August ...	6.18	7.63	7.41	7.27	1.26	13.85	7.21	5.61	.55	6.99	63.96
September ...	4.46	4.49	5.28	6.83	4.40	4.88	7.24	6.11	.45	3.64	47.78
October ...	1.58	6.38	2.57	10.74	3.50	4.22	9.33	5.61	6.07	5.93	55.99
November ...	10.66	3.19	6.42	7.41	2.67	2.64	2.73	2.54	5.18	9.58	53.02
December ...	11.00	5.23	2.35	8.52	7.15	5.60	6.38	5.28	9.57	5.85	66.93
TOTALS ...	61.42 D	53.97 D	52.33 D	70.83 pl.	42.72 d	59.71 D	58.77 D	58.20 D	44.05 D	61.73 D	563.73

Inspected 20.8.55 M. P.M. 6 Decks. Gauge sound, Circular measure, site o/c E. Wooden  
 struts across small fence posttop of gauge. Recommended move NW 150', remove struts etc.  
 Recomm. carried out, letter 19.1.56. \* Gauge moved alt. 197' - 6.10.56.

Position of Station on Ordnance One-Inch map: No. of Map 95 National Grid Reference 34/875168

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
	c1913 ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓