

# RAINFALL AT *Greenock Mansfield* **70**

Lat.....

Lon.....

County of.....

*Pennsylvania*

Rain Gauge, by.....

Observer.....

*J. Wilson Esq.**Clyde, L. bank - 2.*

Diameter.....					.5						
Height.....					1 -						
Altitude.....					580						
Year.....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....					8.13	10.76	6.48	12.71	8.26	2.03	
February.....					2.18	2.67	6.91	7.80	4.20	2.64	
March.....					5.37	2.53	7.59	3.59	3.32	7.43	
April.....					3.71	2.61	3.28	4.91	3.66	2.65	
May.....					2.47	4.02	9.8	3.96	5.32	3.00	
June.....					1.73	3.50	5.28	4.33	4.03	6.46	
July.....					3.84	2.49	4.06	5.10	1.15	5.34	
August.....					6.48	5.27	7.29	10.29	4.00	6.64	
September.....					9.03	5.86	3.77	2.74	7.48	10.77	
October.....					12.50	8.99	8.78	10.95	9.80	4.04	
November.....					5.84	6.65	3.31	13.39	2.94	2.48	
December.....					2.30	7.87	9.68	10.00	2.45	5.72	
TOTALS.....					63.58	63.22	67.41	89.77	56.61	59.20	

RAINFALL AT Shaw's Mills Mansfield

Lat. \_\_\_\_\_

Lon. \_\_\_\_\_

County of Benplew

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

Observer J. Wilson, Esq, C.E.Clyde, L. bank - 2. No 6

Diameter ....	5										
Height .....	1. 0										
Altitude ....	580		573								
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	5.01	7.0	8.34	9.49	11.61	6.56	6.63	6.25	6.46	7.15	6.820
February ....	7.55	5.10	6.53	9.63	9.73	8.37	2.53	5.88	1.75	4.59	6.196
March .....	4.73	7.70	7.08	3.37	3.69	5.49	4.70	2.54	4.70	3.56	4.756
April .....	5.15	2.90	3.30	3.75	2.53	3.96	3.88	3.62	3.22	4.53	3.684
May .....	2.03	4.00	3.41	3.79	5.85	3.97	4.37	1.68	7.08	4.55	4.073
June .....	2.81	7.00	5.50	4.34	1.53	2.01	1.95	1.76	3.60	1.80	3.230
July .....	3.85	6.10	5.62	3.93	8.42	3.46	4.10	4.91	6.95	3.28	5.362
August .....	2.44	5.50	3.95	6.68	3.80	4.96	3.82	4.34	5.24	7.41	4.814
September ....	4.22	3.70	5.30	4.20	6.05	11.27	8.36	6.83	2.78	2.81	5.552
October .....	9.8	3.40	6.10	8.17	8.71	5.71	5.67	4.55	3.80	5.42	5.251
November ....	9.69	9.30	9.69	10.97	7.24	5.40	7.06	5.71	9.79	3.73	7.858
December ....	6.62	9.20	7.21	9.14	12.43	4.73	6.20	6.55	7.93	7.94	7.855
TOTALS ....	55.08	64.60	75.93	77.46	81.59	65.89	59.27	54.62	63.30	56.77	65.451

RAINFALL AT *Shaws W W Mansfield*

Lat. \_\_\_\_\_

Lon. \_\_\_\_\_

County of *Renfrew*

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

Observer *J. Wilson Esq. C.E.*  
*R. Gilmour Esq. C.E.*  
*D Macalister Esq. C.E.**Clyde, L. bank - 2.*

Diameter ....	5										
Height .....	1 0										
Altitude ....	573 $\pi$										
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January ....	9.54	5.92	6.06	3.40	9.79	1.55	4.37	2.15	6.17	10.25	5.920
February ....	2.12	1.94	2.64	6.52	13.04	.64	3.86	5.62	7.15	4.16	11.769
March .....	5.84	4.54	1.24	2.67	5.70	5.45	8.28	7.92	2.70	4.96	4.930
April .....	2.35	2.57	1.74	2.29	3.36	4.29	2.73	4.55	5.36	5.62	3.486
May .....	3.82	3.08	5.99	3.27	4.09	.30	.91	3.65	2.47	4.92	3.250
June .....	6.65	1.72	5.03	2.00	3.13	2.30	5.17	8.06	3.81	2.72	4.059
July .....	5.17	1.86	2.87	4.75	3.36	5.81	5.98	3.39	1.88	4.65	3.912
August .....	4.09	8.06	9.97	4.94	5.33	7.84	3.19	7.03	7.70	2.12	6.027
September....	8.28	8.01	9.80	4.93	.34	2.91	6.52	5.60	6.91	6.18	5.948
October .....	5.94	8.12	4.96	9.19	4.81	5.34	5.51	4.90	4.52	5.82	5.911
November....	12.95	7.03	7.99	6.04	6.97	10.00	2.76	5.38	7.06	8.85	7.503
December ....	1.55	10.73	3.76	8.23	5.90	7.97	9.37	7.91	11.48	5.37	7.227
TOTALS ....	68.30	63.58	62.05	58.23	65.82	54.40	58.65	66.16	67.21	65.62	63.003



# RAINFALL AT Shaws Mt. Mansfield

Lat. \_\_\_\_\_ Lon. \_\_\_\_\_ County of Rensselaer  
 Rain Gauge, by \_\_\_\_\_ Observer D. Macalister Esq. C.E.  
Clyde, L. bank - 2.

Diameter ..	5										
Height ....	10										
Altitude ..	5731										
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	9.36	4.61	6.31	10.41	6.46	4.65	8.48	4.01	7.83	8.65	7.077
February ..	4.06	2.23	2.08	11.33	5.50	5.08	4.32	5.36	4.27	4.31	4.864
March ....	.43	3.24	5.12	12.79	3.47	6.76	5.33	5.58	6.56	2.83	5.211
April .....	3.95	4.57	2.89	2.47	7.19	4.50	1.72	3.81	2.17	5.35	3.862
May .....	4.62	2.24	2.96	4.14	3.41	2.22	7.00	7.47	3.19	4.10	4.135
June .....	4.77	3.72	2.06	3.14	3.67	1.80	1.77	5.51	3.29	4.18	3.391
July .....	3.87	3.02	4.47	5.63	2.87	3.94	3.57	3.00	4.98	4.59	3.994
August ....	6.14	6.10	3.51	12.19	6.11	6.61	5.78	7.74	5.28	3.79	6.335
September ..	5.80	5.10	5.40	5.59	6.45	3.84	2.73	2.10	9.04	3.36	4.941
October ....	9.78	5.89	3.76	12.22	3.83	4.71	8.41	7.55	2.40	10.28	6.883
November ..	7.34	5.73	6.99	5.06	4.28	7.87	6.33	5.50	5.80	4.44	5.934
December ..	11.23	6.67	7.36	6.42	5.61	5.95	5.20	9.33	7.52	9.00	7.429
TOTALS ..	71.35	53.12	52.91	91.39	58.85	57.93	60.64	66.96	62.53	64.88	60.056

Hub

RAINFALL at Shaws W.W., MansfieldCounty of Renfrew Observer D. Macalister Esq. F.R.S.River Basin Glyde - left bank trib. 2.

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

Diameter ...	5											
Height .....	10											
Altitude ...	573 $\pi$											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	5 yrs MEANS 1916-19	
January ...	7.77	11.83	7.03	6.02	5.61	5.60	9.59	3.26	6.14	5.41	24.40	
February ...	9.19	11.11	6.01	3.98	8.10	8.78	6.96	1.51	10.74	1.92	21.13	
March .....	4.73	3.79	8.16	7.89	7.87	3.16	1.87	3.73	2.47	3.84	11.91	
April .....	6.42	5.49	3.55	5.98	4.65	4.77	5.14	2.82	1.10	3.75	12.51	
May .....	4.11	3.95	2.86	4.75	2.04	1.59	6.06	4.78	4.09	1.46	16.39	
June .....	2.67	5.16	6.72	5.04	1.18	2.15	3.09	4.22	2.13	5.26	14.70	
July .....	5.45	4.24	3.85	1.70	2.39	3.90	3.69	3.35	5.26	1.92	14.22	
August .....	14.26	6.07	6.69	2.08	5.26	3.68	4.82	4.85	6.09	3.95	19.71	
September ..	2.97	3.65	3.79	3.64	3.13	2.44	1.89	4.51	7.70	5.87	19.97	
October ...	5.33	5.60	8.50	4.36	3.14	4.28	9.78	12.19	9.62	1.15	32.74	
November ..	5.40	8.24	5.29	8.48	7.24	3.97	8.63	12.46	9.30	6.34	36.73	
December ...	12.32	12.12	12.59	6.06	10.85	7.62	7.32	3.93	8.17	11.04	30.46	
TOTALS ...	80.62 ?	81.25	75.04	57.98	61.46 D	52.54	68.84	61.31 D	72.81 D	51.91 D	250.87	

1910 said to have been confirmed subsequently by check g.

Date.	Lat. N.	Long. W.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1912	55° 54' 28"	4° 43' 32"	Kilmacolm					

RAINFALL at Shaws R.R. MansfieldCounty of RenfrewObserver J. Macalister Esq., C.E.River Basin Glyde - left bank trib. 2.Snowdon Rain Gauge, by \_\_\_\_\_

Diameter ...	5"											
Height .....	1 0											
Altitude ...	573											
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEANS.	Sums
January ...	9.63	14.23	(7.68)	10.50	7.25	7.35	10.87	11.46	13.99	2.26	9.69	103.91
February ...	10.34	3.04	8.48	7.30	2.02	4.23	7.51	3.84	6.66	2.70	.81	56.93
March .....	6.83	11.79	2.67	3.35	.98	3.26	9.83	5.64	6.24	1.17	4.86	56.32
April .....	2.65	2.15	4.21	3.92	3.72	8.76	2.61	4.92	2.99	1.26	2.84	39.51
May .....	7.59	4.47	5.72	3.54	4.89	8.58	3.86	4.35	2.25	4.67	2.51	52.43
June .....	2.79	.75	3.07	1.89	3.20	1.66	4.40	4.77	6.82	3.50	3.49	36.34
July .....	5.04	5.35	3.57	5.97	3.84	2.60	3.62	4.58	4.55	6.61	3.55	49.28
August .....	7.12	6.50	4.59	7.29	4.58	5.71	6.34	6.50	5.44	7.10	6.94	68.11
September...	3.73	3.54	4.57	11.63	7.71	4.25	4.76	9.72	5.07	2.17	4.99	62.14
October.....	3.45	6.39	3.59	10.64	4.49	6.62	8.64	7.40	11.97	9.24	11.19	83.62
November...	7.14	3.94	4.97	6.67	7.22	1.59	9.02	7.67	10.56	9.62	9.83	77.73
December...	6.22	10.30	7.11	5.99	12.08	5.18	5.68	1.53	7.08	18.68	7.74	87.59
TOTALS...	71.53	75.43	60.23	78.69	61.98	59.79	77.14	72.38	83.62	65.98	67.42	773.91
	D	D	D	D	D	D	D	D	D	D	D	

1922. Jan. corrected for snow.

1930 As recommended g. was moved on 9/20/30, 220 yards S &amp; 150 yds W of old site.

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	55° 54' 25"	4° 43' 32"	Kilmacdon					



RAINFALL at Shaw W.W. (Manfield)County of RenfrewObserver J Macdonald, C.E.River Basin 2. Clyde - Left BankType of Gauge StandardAnnual Average 65.7 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. Surveybooklet XI/36

Diameter	5.										
Height	1. 0.										
Altitude	573										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Symms Means
January	6.90	11.85	8.36	11.51	3.12	7.22	10.15	10.98	5.93	4.25	80.27
February	6.15	.04	4.77	1.40	8.70	4.90	6.71	3.97	9.56	3.11	49.11
March	1.78	2.63	4.49	3.51	2.72	4.75	1.93	7.12	4.95	6.30	40.18
April	2.58	6.16	4.08	4.73	4.68	2.22	3.62	1.02	4.00	3.70	36.79
May	5.92	3.27	4.21	4.31	.78	2.77	2.34	3.70	1.79	1.10	30.19
June	8.68	2.59	3.47	2.56	4.61	1.93	3.02	7.49	2.25	1.63	39.12
July	5.47	5.01	5.00	2.99	3.07	7.28	4.31	5.05	5.96	3.94	48.08
August	2.04	3.60	3.92	6.40	2.71	2.72	3.92	3.87	2.22	3.17	34.57
September	2.31	6.27	1.03	8.64	9.21	5.16	4.63	6.41	2.89	5.22	51.77
October	6.06	8.57	3.90	11.13	13.49	6.87	3.36	14.01	4.20	8.78	80.37
November	9.98	6.69	3.88	2.91	6.84	5.12	1.61	15.23	12.72	10.30	75.28
December	7.50	13.65	1.89	11.82	4.76	10.01	4.21	7.40	3.98	8.09	73.31
TOTALS	65.37	70.33	49.20	72.90	64.69	60.35	49.81	86.25	60.45	59.49	639.04
	D.	2	D.	3	D.	2	2	2	D	59.49	639.04

1931. NOTE. Gauge moved 9.10.30 265 yds. S.W. Gauge might catch spray from Snyfe Res. No.2 hence change of position.

1936. Ex. from letter from Water Engineer dated 15/5/37. "I have had the gauge in question tested & found perfectly watertight & use in good order. The gauge is in a sheltered position & is one of those whose position was shifted by St. Rutherford a few years ago. (Ed.) James Allison."

Position of Station on reduced Ordnance Survey Map, } No. of Map.....

1 mile to 1 inch Series

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, EXHIBITION ROAD, LONDON, S.W.7.

RAINFALL at Shaw W.W. (Mansfield) Station No. 5303 41  
 County of Renfrew Observer J. MacAlister, C.E.  
 River Basin 2 - Clyde - Left Bank  
 Type of Gauge Shawdon

Annual Average 55.2 in. based on 35 years obs. un-weighted. Period of average 1881 - 1915 Ref. Survey.

File No.

Diameter	5"					659	736				
Height	1'0"						1				
Altitude	573'						41				
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	127	1037	8.26	8.12	3.99	10.64	9.16	10.08	8.63	5.82	76.34
February	617	2.11	7.56	2.34	9.72	4.01	1.71	7.51	7.74	6.89	55.76
March	3.03	570	3.36	1.19	4.49	3.43	(5.34)	7.64	2.91	3.91	41.00
April	3.01	341	4.92	4.02	2.64	2.73	9.42	4.30	8.16	4.09	46.70
May	229	426	3.87	5.11	6.08	1.74	5.57	2.19	3.24	1.99	36.34
June	135	312	4.40	5.39	4.57	3.97	3.69	6.71	1.49	2.79	37.08
July	3.82	446	2.82	5.75	4.97	3.61	5.49	6.57	2.65	6.47	46.61
August	579	653	9.13	4.01	2.35	2.90	0.01	8.61	5.33	7.61	52.27
September	245	722	5.38	6.56	6.82	8.90	6.24	8.35	2.79	11.99	66.70
October	799	883	12.33	8.11	7.83	.56	3.44	9.77	8.32	7.04	74.22
November	627	149	3.87	9.69	0.83	7.36	9.47	5.95	7.95	5.25	58.15
December	459	11.61	3.89	7.91	6.34	7.64	3.29	9.79	12.22	1.97	69.25
TOTALS	48.03	69.11	69.81	68.20	60.63	57.49	62.83	87.47	71.43	65.42	66.42

1947. Mar. est. for snow.

10004

No. does not mean for

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			Kilmarston					

BRITISH RAINFALL ORGANIZATION



RAINFALL at Glans A. W. (Mansfield) Station No. 5303 51  
 County of Renfrew Observer J. Mac Alister Esq. C.E.  
 River Basin Glyde Left Bank-2 Water Engineer (w/4021956)  
 Type of Gauge Snowdon no rain can on crop glass bottle  
 Annual Average 66.52 in. based on 35 years obs. un-weighted. Period of average 1916-1950 Ref. P  
1916-1950 File No.

Diameter ...	5"				6.59	7.36					
Height ...	1'0"					1					
Altitude ...	573'					51				593'	
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	6.86	6.84	3.87	8.51	5.23	4.24	9.08	7.48	2.33	4.88	
February ...	4.02	2.54	3.63	7.64	4.52	2.02	5.39	4.28	2.09	6.21	
March ...	4.32	5.04	2.06	5.81	3.00	3.36	6.22	1.54	3.91	2.82	
April ...	3.96	3.46	3.08	3.32	3.81	1.53	2.46	2.09	3.34	6.74	
May ...	2.63	2.35	3.27	4.19	3.92	3.64	1.99	4.02	1.50	2.90	
June ...	2.36	4.26	1.40	5.00	3.48	3.22	2.35	3.70	3.95	3.28	
July ...	4.03	3.74	6.09	3.67	1.25	5.26	6.29	7.64	6.59	4.95	
August ...	5.29	6.50	5.91	5.47	1.59	6.11	6.12	5.91	1.08	4.56	
September ...	5.63	5.33	8.67	8.48	5.42	5.29	4.38	6.50	1.53	3.48	
October ...	1.80	7.82	4.88	12.17	6.31	3.27	6.17	6.64 <sup>2</sup>	6.81	3.31	
November ...	8.74	2.20	12.16	10.46	8.47	2.92	2.38	2.19	7.09	8.74	
December ...	11.12	7.03	7.69	8.08	10.40	9.43	8.25	7.93	10.07	6.56	
TOTALS ...	60.76	57.11	62.91	82.50	51.40	50.29	61.08	59.90	50.29	58.43	
	D	D	D	D	D	D	D	D	D	D	

1955. Map of Renfrew. Ground, min 511' like in garden of old's house. In 40-50, 40-55 WNW. just on platform 18'2" high, with 4" min of stone. Overhead but probably some chips from tree. Recorded more to grass verge NW of road leading S. from cottage about 65° S. This will be checked in all details except S. Oct. 1957. Rec. not yet carried out. Apr. 1958 Rec. carried out.

Position of Station on Ordnance One-Inch map: No. of Map..... National Grid Reference 26/29.5114.

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
	✓	✓	✓	✓	
	✓	✓	✓	✓	