

Rainfall at Woodhead Reservoir

50

Cheshire.

Diameter of Gauge, in.

Height above Ground, ft. in.

Above Mean Sea Level, ft.

upper man - 1.

YEAR - -					1833	1836	1837	1838	1839	MEANS.
January - -					1.02	3.11	5.40	3.54	2.55	
February - -					1.55	3.95	2.30	.64	3.50	
March - - -					3.11	.62	3.71	2.20	6.50	
April - - -					2.30	3.72	3.50	4.60	5.80	
May - - - -					3.30	3.02	1.35	3.15	.70	
June - - - -					4.70	3.04	3.60	4.30	3.25	
July - - - -					5.57	4.15	5.60	3.60	2.40	
August - - -					3.70	9.60	9.30	5.65	10.30	
September -					1.35	6.64	4.10	4.10	6.25	
October - -					10.32	3.60	2.90	5.96	4.70	
November -					1.91	5.40	2.12	2.60	2.90	
December -					1.50	4.04	2.20	5.20	4.50	
TOTALS -					40.33	50.89	46.00	45.54	53.35	

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RAINFALL AT Woodhead Reservoir

Lat.....

Lon.....

County of Cheshire

Rain Gauge, by.....

Observer J. J. Bateman Esq.upper mercury - 1.

Diameter	1.0	.										
Height .....	.10	.										
Altitude	680.0	.										
YEAR	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS,	
January.....	4.30	1.63	5.44	3.00	4.46	4.48	2.25	6.70	6.80	1.60	4.063	
February.....	2.50	5.09	4.95	1.11	2.50	1.85	5.40	6.35	1.95	3.40	3.510	
March.....	3.40	7.25	3.45	3.45	5.15	.94	5.75	4.18	3.55	2.45	3.357	
April.....	2.65	4.55	4.84	.96	2.35	1.94	2.99	3.30	2.20	2.45	2.823	
May.....	2.01	2.50	3.81	3.08	2.32	2.93	1.65	4.95	5.15	3.75	3.215	
June.....	3.10	5.40	6.50	3.20	1.64	3.30	3.90	3.80	3.17	5.35	3.936	
July.....	1.70	5.01	5.40	4.72	2.30	4.52	4.05	5.26	1.17	6.30	4.043	
August.....	2.90	1.74	4.87	5.65	6.65	3.95	4.70	6.55	6.10	7.60	5.071	
September.....	3.98	6.50	7.80	3.47	4.05	6.75	5.80	4.60	6.60	3.20	5.275	
October.....	12.96	4.75	6.55	6.25	4.78	6.50	2.70	4.90	4.15	4.02	5.756	
November.....	2.83	2.11	6.25	4.40	6.75	6.56	4.22	8.15	4.45	2.60	4.832	
December.....	4.29	3.20	4.45	1.85	3.72	2.20	8.20	4.70	2.10	3.90	3.861	
TOTALS	46.62	43.73	64.31	41.14	46.67	45.89	51.61	65.44	47.39	46.62	49.742	

C C C

RAINFALL AT *Woodhead Reservoir*

2754
80

Lat. _____

Lon. _____

County of *Cheshire*

Rain Gauge, by _____

Observer *J. F. Pateman, Esq., F.R.S.*

Upper Menny - 1.

Diameter	12										
Height	10										
Altitude	680				660						
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January	7.0	5.5	4.70	6.45	7.53	3.23	6.97	2.03	2.27	2.88	3.731
February	4.85	6.63	4.50	3.43	3.14	4.43	1.01	1.67	1.52	2.98	3.421
March	3.75	6.00	3.91	.77	2.94	3.38	4.05	2.63	3.40	3.90	3.473
April	2.80	1.67	5.64	2.32	2.35	2.83	3.31	1.82	4.28	3.98	3.100
May	2.85	4.00	1.43	1.73	2.85	3.89	8.72	2.65	1.18	2.72	3.202
June	4.30	2.41	7.16	5.60	1.94	4.04	2.50	4.5	2.61	.44	3.145
July	7.70	3.98	5.54	4.29	4.17	2.88	4.58	1.44	8.05	3.42	4.605
August	1.85	5.47	4.10	4.25	1.85	2.31	2.85	1.73	3.74	7.22	3.537
September	7.17	3.20	3.35	8.11	3.53	4.95	2.87	4.51	1.98	5.18	4.485
October	7.80	6.35	5.21	7.63	3.85	11.12	6.37	3.67	2.30	6.02	6.032
November	5.40	4.55	9.28	4.78	3.04	3.97	2.91	3.76	11.22	2.18	5.109
December	7.80	5.54	5.40	5.35	7.40	4.25	7.62	3.02	2.83	4.22	5.343
TOTALS	58.99	50.35	60.22	54.71	44.59	51.33	53.76	29.38	45.38	45.14	49.183

RAINFALL AT Woodhead Reservoir

Lat. _____

Lon. _____

County of Cheshire

Rain Gauge, by _____

Observer C. H. Hill Esq C.E.Upper measy - 1.

Diameter	12											
Height	0 10											
Altitude	660											
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January	4.92	3.76	4.34	2.32	3.50	4.40	2.46	2.96	3.68	5.71	3.805	✓
February	1.12	.64	3.10	7.30	6.85	.80	2.93	3.32	4.45	1.38	3.189	✓
March	6.22	3.16	1.34	1.62	4.23	4.57	7.55	5.26	3.36	3.22	4.053	
April	1.59	3.56	1.75	1.04	2.62	2.59	2.19	4.19	2.76	4.60	2.689	✓
May	3.85	3.72	6.08	3.00	2.75	1.37	.66	1.62	4.40	3.19	3.064	
June	4.04	2.59	4.30	2.77	4.20	2.32	5.69	3.99	3.41	1.72	3.503	
July	4.48	4.24	3.76	5.01	3.85	9.40	2.05	2.44	1.09	2.68	3.900	
August	5.77	8.41	4.95	3.71	6.05	4.69	3.08	3.67	5.92	2.30	4.855	✓
September ...	1.85	4.49	5.34	5.27	.78	1.78	8.11	5.65	.80	8.12	4.219	
October	4.55	6.05	8.79	3.73	6.94	5.01	6.60	2.16	5.58	4.06	5.347	✓
November	7.54	4.81	2.86	5.27	3.15	4.05	2.34	5.78	3.10	1.64	4.054	
December ....	.56	8.05	3.88	5.40	4.46	5.70	6.52	4.35	6.86	3.61	4.939	✓
TOTALS	46.49	53.48	50.49	46.44	47.38	46.68	50.18	45.39	45.41	42.23	47.617	

1860

RAINFALL AT Woodhead Reservoir

Lat. Lon. County of Cheshire
Rain Gauge, by Observer G. H. Hill Esq. C.E.

Upper mercury - 1.

Diameter ..	12											
Height	0 10											
Altitude ..	660											
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.	
January ..	7.42	3.33	3.30	3.30	4.20	3.11	7.40	2.26	4.27	2.85	41.44	
February ..	3.28	2.35	.94	4.45	5.71	2.88	3.55	2.95	3.95	4.10	34.16	
March ....	.84	4.00	2.97	5.64	2.53	5.21	4.16	3.88	4.18	3.58	36.99	
April	2.89	3.38	2.79	2.78	3.35	3.75	2.20	3.93	2.85	3.45	31.37	
May	1.49	1.48	3.30	3.73	3.60	.85	4.25	3.98	3.20	2.70	28.58	
June	3.35	1.99	1.88	2.00	1.16	3.63	1.92	7.10	2.00	4.65	29.68	
July	4.53	4.08	2.94	3.94	2.36	3.61	3.15	3.30	5.60	6.89	40.40	
August	7.87	2.47	3.72	5.21	4.75	4.60	4.03	4.70	4.15	3.72	45.22	
September ..	1.54	.56	1.46	5.58	1.70	3.64	2.15	.76	4.10	3.55	25.04	
October	5.43	4.37	6.95	9.78	2.02	4.73	6.26	8.00	1.30	6.80	55.59	
November ..	3.23	7.29	2.70	5.30	4.20	5.90	6.02	4.20	3.07	2.00	43.91	
December ..	5.63	7.27	3.98	2.21	2.82	1.09	5.15	4.22	3.24	7.88	43.49	
TOTALS ..	47.50	42.57	36.93	53.87	38.40	43.00	50.24	49.28	41.91	52.17	45.58	1443

Hill

RAINFALL at Woodhead ReservoirCounty of CheshireObserver G. H. Hill Esq. C.E.River Basin Upper Mersey 1

Rain Gauge, by _____

Diameter ...	12												
Height	0 10												
Altitude ...	660												
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.		SOMES
January ...	4.60	2.45	5.46	4.26	4.99	8.55	4.10	4.34	3.27	5.17			16.9
February ...	5.72	5.70	1.51	1.31	3.04	6.27	6.30	1.03	6.74	2.10			16.7
March	92	3.60	6.07	5.46	7.17	2.02	3.48	3.16	1.71	6.85			15.20
April	5.50	3.74	1.52	4.42	1.36	1.92	3.73	2.37	2.21	3.40			11.71
May	4.05	1.60	3.62	3.61	3.50	1.60	2.43	2.06	2.77	2.01			9.27
June	3.88	4.10	4.97	2.82	3.76	1.62	3.96	2.15	2.83	2.35			11.29
July	6.55	.50	6.31	1.79	4.31	6.07	3.44	2.81	4.67	3.64			14.56
August	6.53	3.60	10.31	1.98	3.22	5.46	3.03	7.25	4.46	4.35			19.09
September ...	.46	3.68	4.00	2.57	3.09	1.31	3.63	3.25	13.90	2.49			23.27
October ...	3.50	3.49	4.54	4.25	3.74	2.33	7.63	7.31	3.93	4.88			23.75
November ..	5.40	5.22	4.28	4.14	5.83	4.00	5.43	6.42	2.46	4.70			19.01
December ...	7.85	8.09	7.43	3.65	6.97	8.41	4.23	3.23	9.59	8.39			23.22
TOTALS ...	54.96	45.77	60.02	40.26	50.98	49.56	51.39	48.38	58.54	50.38	50.79		205.44

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

RAINFALL at Woodhead Reservoir (old gauge)County of CheshireObserver G. H. Hill Esq. C.E.River Basin Upper Mersey 11921 L. Holmes Esq. C.E.
Manchester L.W.

Rain Gauge, by

W. F. H. Grebe

Diameter ...	12						12						
Height	0. 10	2 0					2. 0						
Altitude ...	660				815		815	*				665	Totals
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS.	20-30.	
January ...	7.16	9.65	4.30	7.10	3.60	4.30	4.90	4.98	10.70	2.50	5.90	65.09	
February ...	5.07	.73	7.30	7.73	2.02	7.34	4.01	1.70	5.31	.90	.95	43.06	
March	3.40	4.30	3.46	3.10	1.55	2.39	2.24	6.22	2.20	.75	8.55	37.16	
April	7.04	2.59	4.28	4.08	2.32	3.14	2.78	6.01	1.36	1.78	4.12	39.50	
May	7.94	2.40	1.80	6.15	5.90	4.23	3.53	1.33	1.50	0.75	2.23	39.76	
June	4.09	.57	3.45	1.66	2.40	.04	3.70	5.63	6.08	1.75	4.60	33.97	
July	9.00	2.02	5.97	6.20	3.85	2.87	3.32	2.86	1.83	2.60	8.10	48.62	
August	3.29	5.97	7.43	5.42	6.40	3.52	5.60	5.53	5.20	5.78	6.45	60.59	
September...	3.12	1.63	6.43	6.07	4.40	4.62	4.06	7.66	.68	1.75	5.20	45.62	
October	1.72	3.47	1.38	5.15	6.32	4.90	5.00	4.68	5.35	5.80	6.45	50.02	
November...	2.05	2.50	4.05	7.95	2.61	3.03	5.48	6.40	6.21	7.63	5.38	54.43	
December...	4.27	8.65	6.40	4.96	4.35	4.40	3.40	1.48	3.79	8.63	3.60	53.70	
TOTALS...	58.15	44.48	56.25	65.57	45.72	44.78	48.02	54.48	50.00 54.53	43.76	56.53	567.74	

1924 Revised data sent 11/30 and 33B

File 660604/26

New gauge at 1 ft installed May 1929
see previous sheet1929 Low 5 m.p.
1930 Low 2 m.p.* Shows only height which given as 815 since 1923
Remounted in 1930 shows it to be 665.Position of Station on reduced Ordnance Survey
Map, 2 miles 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

RAINFALL at Woodhead Reservoir (New gauge.)County of CheshireObserver Manchester L.W.River Basin - 1Engineer L. Holmes Lewis CE
W.F.H. Greber.5 Rain Gauge, by _____

Diameter ...									5		
Height									1.0		
Altitude ...									665 645		
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEANS.
January ...									2.75	6.70	
February ...									1.00	1.94	
March .....									.97	3.27	
April									2.01	3.77	
May									1.57	3.03	2.57
June									6.40	1.97	4.83
July									2.05	2.81	8.49
August									5.57	6.36	5.89
September...									.77	1.94	5.38
October									5.76	6.38 6.24	7.25
November...									7.53	9.45	5.99
December...									3.79	9.48	3.95
TOTALS...				See	see	g.			-	48.11	59.03

New gauge at 1 ft. See file 660624/26

Known say, height should be 665 ft, re-measured
made in 1930.Position of Station on reduced Ordnance Survey } No. of Map _____
Map, 2 miles 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

RAINFALL at Woodhead Reservoir (new G.)

County of CheshireObserver Manchester Corp'n W.W.River Basin Mersey Upper 1

Type of Gauge.....

Annual Average 42.3 in. based on 6 years obs. un-weighted. Period of average 1881-1915. Ref. H.V. W. 566

660604/20.

Diameter	5.											
Height	1.0.											
Altitude	665.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	8.14	5.36	3.04	3.92	3.23	4.09	5.74	5.44	5.56	1.95		Totals. 66.47
February	7.17	37	6.97	4.2	6.70	3.84	7.23	2.27	5.01	2.37		42.45
March	60	3.14	3.40	4.67	2.69	3.74	3.31	2.03	3.42	3.15		30.17
April	6.28	5.74	1.79	3.42	4.41	2.13	3.62	.68	2.76	3.91		34.74
May	2.93	4.69	1.71	2.91	.97	1.68	2.80	4.47	3.11	.90		26.17
June	5.87	.47	3.49	2.51	4.27	4.78	2.19	5.05	3.10	1.03		32.76
July	5.68	5.05	3.98	4.75	2.60	5.82	3.47	6.06	7.30	5.85		50.55
August	7.57	2.02	1.47	4.35	2.28	3.35	1.41	4.27	2.21	2.86		31.79
September	6.30	5.25	1.77	3.08	6.15	7.05	1.33	2.54	2.00	4.51		40.28
October	2.54	8.93	6.35	6.64	9.14	5.81	3.21	8.53	4.22	4.42		59.89
November	5.28	4.01	3.38	3.52	7.45	6.89	2.45	5.18	7.61	8.88		54.65
December	2.23	2.17	.81	5.19	4.43	3.83	4.02	4.37	3.65	6.44		37.14
TOTALS	60.59	47.20	38.16	45.38	54.62	53.03	70.98	50.88	49.95	46.27		437.06 42.6
						D	D	D	D	D		

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

Station No. T.F. 2754RAINFALL at Woodhead Reservoir

41

County of CheshireObserver Manchester Corp. W.W.River Basin Mersey Upper-1

Type of Gauge.....

Annual Average 48.3 in. based on 6 years obs. un-weighted. Period of average 1881-1915 Ref. D. v. W. S. 16File No. 666504/56 196738/32

Diameter	5"											
Height	1'0"											
Altitude	665											
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	
January	2.04	4.43	6.22	7.47	4.65	5.10	3.39	11.90	2.17	3.57		<u>Totals</u> 50.88
February	5.06	1.89	3.17	3.29	4.90	7.65	1.77	2.79	2.33	6.63		39.48
March	6.44	2.36	1.49	.92	1.48	1.54	6.51	1.48	2.05	2.12		26.39
April	3.42	2.13	2.71	3.41	2.55	1.69	4.17	2.20	4.92	5.22		32.42
May	3.08	3.52	3.51	6.49	3.45	2.01	3.59	1.87	3.08	2.27		32.87
June	2.24	1.43	3.82	3.69	4.96	4.40	2.39	5.82	1.29	3.13		33.23
July	3.52	5.74	2.40	3.75	2.63	6.45	3.12	2.09	3.03	3.87		36.60
August	6.99	4.75	7.00	4.80	4.26	4.96	.39	5.26	3.27	4.56		46.24
September	.70	3.76	5.26	6.05	3.16	7.19	2.10	2.42	1.92	6.38		38.74
October	6.29	7.84	3.14	5.43	6.78	1.44	1.34	3.30	4.11	2.82		42.49
November	3.86	1.38	4.61	8.63	.71	8.03	6.72	2.57	8.33	8.50		53.36
December	3.15	4.09	2.54	5.07	3.21	4.93	5.55	3.33	7.61	3.14		42.62
TOTALS	46.79	43.38	45.87	59.00	42.74	55.39	41.04	45.03	44.11	52.15		475.50
	D	P	D	D	D	D	D	D	D	D		486

1950 high but approximated.

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. 2754

T.S. 39

RAINFALL at Woodhead Reservoir

51

County of CheshireObserver Manchester Lophm W.W.River Basin Mersey - Upper - 1Type of Gauge NK 1 (Low Suction) + A*Annual Average 49.3 in. based on 6 years obs. un-weighted. Period of average 1881-1915 Ref. P. W. Sh. P.
49.60 " " 35 " " 196-1950File No. 196-738/22
50024736

Diameter ...	5"			558	843							
Height ...	1' 0"				1							
Altitude ...	665'				51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	Totals
January ...	5.30	5.62	2.57	4.98	3.00	7.16	3.32	4.33	4.19	7.51	47.98	
February ...	4.93	2.21	2.16	3.61	2.51	1.75	4.10	6.52	4.9	2.76	31.04	
March ...	5.21	2.76	2.73	2.75	3.32	2.21	3.41	2.90	2.06	1.79	30.14	
April ...	3.12	4.38	3.60	1.06	2.36	3.20	87	1.44	4.23	2.72	26.98	
May ...	3.13	2.90	2.51	4.08	4.98	1.58	1.44	4.37	2.42	2.86	30.27	
June ...	1.45	3.66	4.54	3.67	3.73	3.94	2.06	4.82	2.50	2.48	32.85	
July ...	3.96	3.50	7.63	6.85	1.31	7.44	5.36	5.45	4.45	9.56	55.45	
August ...	5.65	3.52	5.68	7.04	1.23	11.82	7.72	4.23	.45	5.77	53.11	
September ...	2.91	4.99	3.66	6.06	2.66	4.92	8.53	5.67	.21	4.66	44.27	
October ...	1.44	6.87	2.29	8.05	3.10	3.66	5.12	4.81	3.93	7.49	46.76	
November ...	10.21	3.86	3.62	7.11	2.36	2.52	3.43	1.62	6.81	7.22	43.80	
December ...	7.18	4.60	2.23	7.87	5.90	6.37	6.43	5.06	7.84	5.84	59.32	
TOTALS ...	55.43	48.87	43.26	63.13	36.46	56.57	51.79	51.22	39.58	62.66	506.97	
	0	D	D	D	D	D	D	D	D	D		

Inspected 79 55 Mr. Decker. Gauge has been missing since flat-bolt. etc of SW.
Recommended more to hollow 6015. Hypo-graph on pic

* not added - 8121555 - report as for office information only? 1/5.

Position of Station on Ordnance One-Inch map :

No. of Map 102National Grid Reference 563/078.923

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	1920-29	1931-40	1941-50	1951-60
	✓	2757 20-28	✓	✓	
	✓	✓	336 - 40	✓	