

RAINFALL at Waterfoot Cope ReservoirCounty of South LancashireObserver W H Elce Esq c/oRiver Basin Mossy - Inlet 3W H Newton Esq (1917)

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

Diameter ...						5					
Height .....						10					
Altitude ...						1026					
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...						7.56	4.25	3.38	3.74	4.42	
February ...						7.54	5.67	1.35	6.69	1.37	
March .....						1.92	3.13	2.72	2.69	5.46	
April .....						2.34	3.45	1.89	1.16	3.57	
May .....						2.27	2.95	2.90	3.46	1.80	
June .....						1.01	3.54	2.66	1.86	2.08	
July .....						5.55	2.79	2.67	4.79	2.43	
August .....						5.06	5.31	8.07	4.30	5.12	
September ..						.89	3.01	2.29	12.69	2.63	
October ...						2.66	9.87	10.33	4.87	2.64	
November ..						2.18	4.28	4.96	2.98	2.91	
December...						10.00	3.42	2.35	10.68	8.62	
TOTALS ...						48.98	51.67	NR	59.97	43.05	

17.17-19 and 30.1.22. E.C. 4.1.22

Rejected from Survey. A" low.

Date.	Lat. N.	Long. W.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	53.40.45	2.14.30	Waterfoot	1 1/8 mi	S N	Wendin newchurch	1 1/2 mi 1 1/2 mi	S N S.

RAINFALL at Halefoot Goupe ReservoirCounty of S. LancashireObserver W. H. Newton Esq. C.E.River Basin Mersey-Twells &J. W. Mosley Esq. C.E. (1925)

Rain Gauge, by

Borough & Water Eng. (Bacup)

Diameter ...		5"									
Height .....		1	0								
Altitude ...		1026				1013					
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEAN.
January ...	4.48	8.76	4.29	4.95	4.19	4.70	6.02	4.66	11.88	3.23	6.63
February ...	4.63	6.4	5.92	7.19	1.44	8.42	5.18	2.66	5.32	1.53	.93
March .....	4.26	4.49	4.39	2.68	2.24	1.89	2.67	5.05	5.20	1.56	3.12
April .....	7.54	1.65	3.40	4.77	2.63	3.53	2.11	3.87	1.68	1.60	4.00
May .....	6.08	4.10	2.53	4.81	7.12	6.69	4.40	2.60	1.67	3.81	1.87
June .....	4.35	4.1	3.27	1.43	3.21	1.13	3.37	5.25	5.51	1.79	1.86
July .....	9.06	2.24	6.06	4.61	5.69	2.14	3.27	5.58	2.57	3.41	6.72
August .....	3.25	7.54	6.09	7.03	9.47	4.99	5.31	9.34	6.32	5.55	8.29
September...	2.76	2.13	5.33	5.77	6.42	4.51	4.52	6.58	0.82	2.35	5.86
October .....	1.60	3.90	1.04	7.53	7.05	6.59	4.93	6.02	8.14	7.11	6.11
November...	1.94	3.60	4.25	7.97	3.46	2.90	8.70	5.42	8.58	9.26	7.34
December...	5.31	7.73	6.10	4.91	6.92	3.63	1.78	2.31	4.27	8.43	4.62
TOTALS...	55.26	47.19	52.67	63.65	59.84	50.12	52.26	59.34	64.96	40.93	57.45
	D	D	D	D	D	D	D	D	D	D	D

1917-20 10.122 22.22

Rejected from survey 4 Rev.

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
1921	53° 40' 45"	2° 14' 35"	Halefoot	1 1/8 mi.	S	Newchurch	1 1/8 mi.	S.
1927			Bacup	3/4 m.	E	Bacup	1 m.	S.E.

## RAINFALL at Waterfoot (Cowpe Reservoir)

County of South LancashireObserver F. W. Mosley, Esq. & C. E.River Basin Mersey-Troell-3Pacup Borough CouncilType of Gauge Snowdon. no 1927Annual Average 1.1 in. based on 17 years obs., un-weighted. Period of average 1888-1945 Ref P 206-355

706363/26.

Diameter	...	5.										
Height	...	1.0.										
Altitude	...	1013.										
Year	...	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	...	4.90	5.31	3.43	<del>4.02</del> 4.44	1.97	5.58	3.97				
February	...	5.50	2.9	3.54	<del>3.75</del> 3.08	6.61	2.83	5.94				
March	...	7.5	2.79	3.76	<del>3.75</del> 3.08	1.52	3.19	2.65				
April	...	2.97	4.36	2.18	<del>2.05</del> 4.65	3.95	1.30	3.24				
May	...	3.62	5.23	2.67	<del>2.68</del>	1.30	.65	1.27				
June	...	7.20	1.13	2.73	2.78	4.15	4.04	2.15				
July	...	6.63	5.14	4.12	2.40	1.89	5.08	2.51				
August	...	7.22	1.10	2.03	4.15	1.36	3.24	3.01				
September	...	3.60	5.29	1.99	3.78	8.05	5.17	2.08				
October	...	2.81	5.34	4.95	6.70	7.74	4.69	2.74				
November	...	10.76	3.68	2.12	2.12	5.22	5.50	1.94				
December	...	2.30	3.43	.69	7.47	4.41	4.90	4.49				
TOTALS	...	59.26	46.09	34.21	<del>44.44</del> 48.17	46.17	36.59					
	...	D.	D.	D.	<del>imp. check</del> D. n/p. D m D n/p							

1934. Readings taken for comparison purposes with g. on red soil N° 2911/1.

1935 To terminate at end of year

1935. n/p.

1936 n/p. check

1937 n/p. check Records terminated 31/12/37

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
1931			Waterfoot	1 1/8 m	NW	hewchurch	1 1/8 m.	NW.



RAINFALL at Waterfoot (Cooper Reservoir) New site.County of S. Lancs.Observer Bacup Borough Council.River Basin B. - Mersey - Sower.Type of Gauge London No. 1937

Annual Average in. based on years obs. un-weighted. Period of average Ref.

1934

706.863/26.

Diameter	5"										
Height	1' 0"										
Altitude	925'										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January				5.03	2.59	6.91	5.36	7.73	8.96	3.09	
February				.61	8.48	3.73	7.81	2.94	7.26	3.13	
March				4.46	2.00	4.14	3.55	2.05	3.76	3.73	
April				3.61	5.09	1.70	4.25	1.01	2.79	4.59	
May				4.69	1.60	.88	2.60	4.93	2.26	1.24	
June				3.52	5.13	5.00	2.93	5.80	4.57	1.03	
July				3.12	2.42	6.03	3.32	5.97	9.36	4.79	
August				5.10	2.43	4.17	3.78	4.95	3.68	3.00	
September				4.97	10.47	6.50	2.64	2.94	1.86	6.02	
October				8.00	11.04	6.46	3.19	14.64	3.30	6.61	
November				3.08	6.77	7.17	2.33	9.07	9.16	10.52	
December				9.08	5.82	7.30	5.45	7.43	4.88	6.13	
TOTALS				55.27	63.84	59.99	47.21	69.46	61.84	53.88	

N.B. To replace No 2911 rejected from survey as too low.

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
1935			Waterfoot	1 1/2 m	N.W.	Heuschmich	1 1/2 m	N.W.

Station No. 2911/1

RAINFALL at Waterfoot (Cawpe Reservoir) near site

41

County of South Lancashire

Observer Broughton Borough Council

River Basin Mersey - Irwell - 3

Type of Gauge M.O. snowdon 1850

Annual Average in. based on years obs. un-weighted. Period of average Ref.

C-1934

File No. 706363/26

Diameter	5"			5.60	7.11						
Height	1'0"				1						
Altitude	925'				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.92	3.46	8.33	7.29	4.64	6.87	5.51	13.07	3.76	4.43	
February	6.95	2.94	4.28	2.73	6.98	6.64	3.72	4.51	4.53	7.30	
March	4.94	4.09	1.76	.91	1.87	1.80	9.23	2.35	2.98	3.58	
April	3.19	3.03	3.28	4.28	3.08	1.89	4.36	2.64	4.97	4.43	
May	3.92	4.61	4.33	3.69	5.14	1.58	2.63	2.65	3.74	2.54	
June	.64	1.12	4.86	3.61	6.32	4.86	3.47	6.35	.69	3.03	
July	4.93	6.34	3.82	4.56	4.03	4.51	4.36	3.47	2.34	7.18	
August	9.02	6.49	8.80	3.92	4.38	9.24	.27	6.21	4.90	8.36	
September	1.20	3.50	6.42	7.50	3.74	9.66	4.07	4.25	2.35	10.30	
October	6.19	8.09	4.11	7.08	7.57	1.76	1.23	3.58	6.83	3.52	
November	4.04	1.47	4.20	3.95	.68	10.29	7.75	2.82	8.38	7.57	
December	3.51	5.55	3.27	6.70	4.57	5.46	4.71	5.62	9.13	3.09	
TOTALS	51.35 D	57.53 D	57.46 D	62.22 D	53.00 D	64.56 D	51.81 D	57.52 D	54.60 D	65.27 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.
1941			Waterfoot	1 m.	N.W.	Newchurch	1 1/4 m.	N.W.

BRITISH RAINFALL ORGANIZATION

Station No. 294/1RAINFALL at Waterfoot (Lough Reservoir)

51

County of LancashireObserver Bacup Borough CouncilRiver Basin Murray-Snell-3Type of Gauge SnoodonAnnual Average 56.3 in. based on 17 years obs. un-weighted. Period of average 1881-1915 Ref. LWS" " 58.93 " " 22 " " within 1934-57 " " 1916-50 File No. 706363/22

Diameter ...	5"			560	711						
Height ...	1' 0"				1						
Altitude ...	925'				51						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	6.39	6.84	2.36	5.36	5.07		5.95	5.98	4.59	8.03	
February ...	4.78	1.96	3.40	6.51	4.04		4.84	4.33	.93	7.32	
March ...	6.79	4.07	2.99	5.23	2.44		5.59	3.27	3.07	1.82	
April ...	3.39	5.22	4.64	.98	3.28		.59	2.02	4.22	3.77	
May ...	2.35	3.19	3.06	3.74	5.20		2.34	5.85	1.96	2.51	
June ...	1.49	5.29	4.07	4.47	4.57		2.29	5.29	4.52	1.79	
July ...	4.04	2.38	7.18	7.09	1.53		6.60	4.62	4.82	9.56	
August ...	6.55	6.69	6.04	8.45	1.23		7.32	4.71	.83	6.42	
September ...	4.67	5.02	5.55	6.36	4.71		7.36	6.74	.51	4.03	
October ...	1.11	6.22	3.07	11.63	3.12		8.67	5.60	6.73	6.90	
November ...	11.14	3.17	6.85	8.85	3.22		2.82	2.56	6.41	9.68	
December ...	10.95	5.30	2.52	9.24	7.72		5.79	6.27	11.57	7.00	
TOTALS ...	63.65	55.35	51.73	77.91	46.13		60.16	62.24	50.16	68.83	
	D	D	D	NR	D		D	D	D	D	

1952. m.p. big.

1953 Pair

1954 up too late.

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference SD 843294

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge.	Direction from gauge.
1951			Waterfoot	1/2 m.	N.W.	New Church	1 1/2 m.	N.W.

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
			C1934 ✓	✓ ✓	