

## RAINFALL AT Blackburn Guide Reservoir

Lat.....

Lon.....

County of.....

Lancashire.....

Rain Gauge, by.....

Observer.....

J. H. Bateman Esq. M.S.

Diameter .....											
Height .....									1.		
Altitude .....	550.										
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	3.60	7.20	6.40	6.20	4.80	4.80	2.20	7.10	4.60	.69	4.139
February.....	1.70	3.60	3.70	.80	1.90	1.00	4.90	5.40	1.40	2.99	2.739
March.....	3.80	2.30	5.20	4.00	5.50	.70	4.30	3.60	2.60	1.83	3.383
April.....	1.80	2.70	3.90	.40	1.70	1.50	3.10	2.90	2.00	1.82	2.182
May.....	1.80	1.60	2.70	3.60	1.30	2.90	.50	3.40	4.90	2.12	2.482
June.....	2.60	2.70	5.90	2.10	.90	4.00	4.70	3.10	2.60	5.05	3.365
July.....	2.00	5.90	4.70	4.90	3.30	5.70	2.80	5.30	.70	5.22	4.052
August.....	1.90	7.20	6.30	5.50	6.60	3.70	4.60	6.30	5.20	6.06	4.636
September.....	3.50	3.70	6.00	2.80	4.60	4.90	4.40	5.00	7.79	2.78	4.538
October.....	70.70	6.00	6.80	7.10	6.70	4.90	2.60	5.40	5.80	2.88	5.888
November.....	3.30	2.00	6.20	3.80	4.00	3.80	3.30	6.50	2.80	1.13	3.583
December.....	2.80	2.70	5.40	2.10	4.00	1.80	5.10	5.80	2.10	3.05	3.485
TOTALS.....	39.50	35.60	61.20	43.30	45.30	39.70	42.50	59.80	42.40	35.62	44.492

# RAINFALL AT *Blackburn (Guide Reservoir)*

80

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

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

County of *Lancashire*

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

Observer

*N. B. Bryan Esq. C.E.*

*J. B. McCallum Esq. C.E.*

*Ribble & Co.*

Diameter ....	8										
Height .....	1.6		1. -					2.6	1.0		
Altitude ....	650.							232	650		
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	.43	.41	2.91	4.61	4.61	1.80	5.64	2.30	1.41	1.73	2.585
February ....	3.09	4.63	2.55	3.18	2.77	2.80	.57	1.10	1.02	2.02	2.373
March .....	2.65	4.04	3.57	1.22	2.73	2.66	1.93	2.21	2.96	3.17	2.704
April .....	1.52	1.64	5.58	2.18	.84	1.75	1.95	2.09	1.87	2.05	2.147
May .....	2.60	4.18	1.94	.69	1.76	1.71	4.86	2.19	.57	3.20	2.370
June .....	4.15	2.55	5.41	3.91	1.26	2.99	1.70	.95	2.05	1.01	2.598
July .....	5.20	5.05	5.33	3.46	4.22	1.94	3.77	1.82	6.97	3.15	4.091
August .....	1.98	5.40	4.32	2.30	1.84	2.12	1.90	2.54	4.22	5.89	3.251
September...	4.11	1.92	1.84	6.06	3.27	4.66	3.47	4.57	1.59	3.79	3.528
October.....	3.09	2.22	3.61	4.96	2.16	5.47	4.97	2.25	1.65	2.91	3.329
November...	5.03	4.52	6.13	3.91	1.37	2.61	3.25	1.78	5.16	2.03	3.579
December...	6.44	4.67	3.95	3.81	4.62	2.33	6.15	2.25	1.87	3.27	3.936
TOTALS ....	40.29	41.23	47.14	40.29	31.45	32.74	40.16	26.05	31.34	34.22	36.491

1888 *St Mary's Church* 1 3/4 NW

*Rejected from Survey: 5" too low.*

# RAINFALL AT Blackburn Guide Reservoir

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

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

County of Lancashire

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

Observer J.B. McCallum Esq. C.E.

Ribble & Co.

G.W. Lund Esq. C.E. W. Ribbles Esq. C.E.

Diameter ....	8											
Height .....	10											
Altitude ....	650											
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January ....	4.46	2.25	2.94	1.41	3.38	2.64	1.56	1.13	3.46	5.48	2.871	
February ....	.70	.23	2.47	5.04	4.35	.40	2.32	2.88	2.86	1.63	2.258	
March .....	3.28	1.30	.62	.85	2.72	2.79	5.22	4.06	2.21	2.47	2.552	
April .....	1.17	1.88	2.08	.56	1.42	2.89	2.16	3.11	2.39	3.75	2.141	
May .....	2.38	2.84	4.22	2.47	2.79	.44	.74	2.91	3.85	2.73	2.537	
June .....	3.77	1.84	4.46	2.54	3.12	2.33	3.76	3.70	3.50	1.35	3.027	
July .....	3.82	3.36	1.87	4.05	4.17	5.23	3.28	2.20	1.19	1.67	3.084	
August .....	5.63	7.47	5.83	2.58	5.55	4.36	3.13	6.66	5.81	1.43	4.845	
September....	3.25	3.46	4.57	5.67	.68	1.56	7.53	4.72	1.68	7.43	4.055	
October .....	3.41	<del>3.37</del> 3.78	4.87	5.51	3.79	4.90	4.71	2.64	3.96	3.34	4.091	
November....	6.19	4.65	2.62	4.10	3.13	3.14	1.71	4.30	2.97	2.44	3.525	
December ....	.34	7.01	2.35	4.46	3.05	4.02	4.72	5.13	4.16	3.61	3.885	
TOTALS ...	38.40	<del>39.66</del> 40.07	38.90	39.24	38.15	34.70	40.84	43.44	38.04	37.33	28.911	

Correction sent by Mr. McCallum 17-XI-92

1860

Rejected from Survey, 5" too low.



RAINFALL AT *Blackburn Guide Reservoir*  
*Central*  
 Lat. .... Lon. .... County of *Lancashire South*  
 Rain Gauge, by ..... Observer *W. Stubbs Esq. C.E.*

*Rubble 1.*

Diameter ..	8										
Height ....	1 0										
Altitude ..	650										
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	6.06	2.67	3.52	3.08	3.27	1.53	5.07	1.37	3.13	2.08	3.178
February ..	3.90	1.99	2.00	2.98	3.52	1.63	2.80	1.72	3.23	1.81	2.559
March ....	.52	3.13	2.81	4.57	2.36	3.02	2.36	3.51	3.09	2.83	2.820
April .....	2.29	2.55	2.60	1.77	2.44	3.40	2.14	1.92	2.59	4.27	2.597
May .....	2.32	.72	3.11	2.99	2.49	.51	4.33	4.10	3.59	2.86	2.702
June .....	2.79	1.99	1.61	1.41	1.83	3.06	1.41	7.45	1.94	3.22	2.671
July .....	2.56	2.35	3.46	3.86	1.60	2.47	2.14	2.69	4.70	7.32	3.315
August ....	6.21	1.80	2.73	4.75	4.23	3.90	3.21	4.49	4.43	3.45	3.920
September ..	2.52	1.02	1.80	4.75	1.51	2.41	1.35	1.17	4.13	2.62	2.328
October .....	6.30	3.25	3.78	8.60	1.62	3.23	7.50	3.92	1.86	6.03	4.609
November ..	4.00	5.82	2.20	2.77	2.58	5.06	4.27	2.54	3.11	1.75	3.410
December ..	4.95	3.65	3.18	2.49	2.93	.58	3.71	4.52	2.37	5.81	3.419
TOTALS ..	44.42	30.94	32.80	44.02	30.39	30.80	40.29	39.40	38.17	44.05	37.528 3.43

*Hub*

*Rejected from Survey: 5" too low*

RAINFALL at Blackburn Guide ReservoirCounty of Central LancashireObserver W. Stubbs Esq. C.E.River Basin Ribble + C 1J. T. Sheldrake C.E. 1910  
A. Y. Gooseman Esq. C.E. 1918.

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

Diameter ...	8											
Height .....	1.0								1.6			
Altitude ...	650								6.10			
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	Totals.
January ...	4.82	2.36	3.04	4.45	3.71	6.25	3.28	3.26	2.67	4.44		16.18
February ...	4.12	4.84	1.91	1.54	3.56	6.38	3.27	.81	5.13	.86		13.65
March .....	1.01	2.15	6.38	5.54	5.15	1.57	1.54	3.09	1.42	6.63		10.07
April .....	4.33	3.53	.85	5.94	1.83	2.38	3.72	2.96	1.36	3.04		11.68
May .....	4.23	3.01	2.11	4.09	2.17	1.68	2.91	1.78	2.42	1.63		11.08
June .....	3.58	5.01	5.87	2.41	1.80	1.57	2.67	3.47	2.26	2.03		8.74
July .....	4.81	.38	4.72	1.78	4.04	3.90	3.29	3.03	3.63	2.00		10.43
August .....	7.38	3.45	6.66	2.72	2.74	6.31	3.13	6.13	4.34	4.05		11.95
September ..	.57	4.72	1.93	1.92	4.76	.82	3.57	2.83	12.72	2.59		17.65
October ...	3.83	3.76	4.69	1.99	2.34	1.42	11.57	10.46	3.52	2.43		21.71
November ..	5.30	4.64	3.57	5.34	5.84	1.64	5.37	6.95	3.03	2.83		27.98
December ...	4.98	4.78	4.76	3.64	5.96	6.59	4.83	3.74	7.87	7.69		18.18
TOTALS ...	48.96	46.63	46.49	41.36	43.90	40.51	49.15	48.51	50.37	39.22		24.13
												187.25
												19.11

+ Inspected

Rejected from Survey 5" too low.

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

RAINFALL at Blackburn Guide ReservoirCounty of LancashireObserver A. J. Groosman Esq B.E.River Basin Ribble & C. 1K. N. Webb, Esq. B.E. (126)(1930) M.O. Rain Gauge, byBoro Eng. Blackburn

Diameter ...	8											
Height .....	1.6											
Altitude ...	610											
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	<del>Mean</del> 1930	Totals
January ...	4.00	7.09	3.33	4.40	3.07	3.27	4.16	4.03	9.13	1.53	6.64	50.65
February ...	3.73	2.0	4.90	7.03	1.84	7.04	4.17	2.05	4.64	1.81	4.1	36.02
March .....	4.58	3.41	2.55	1.42	1.52	1.94	1.61	4.14	3.44	1.35	3.11	28.87
April .....	4.81	2.43	3.16	3.87	2.07	2.76	1.90	3.20	1.21	1.11	2.52	28.99
May .....	6.24	2.61	1.84	4.03	6.09	4.15	3.46	1.43	1.50	3.10	2.12	36.57
June .....	3.28	4.7	3.59	1.37	2.86	1.1	2.93	4.35	6.19	2.26	2.58	29.99
July .....	6.06	1.93	5.83	5.26	5.14	2.05	2.71	4.43	2.26	3.96	7.38	47.01
August .....	2.53	6.16	5.58	6.20	6.51	4.01	3.79	6.06	6.46	5.49	9.53	62.62
September...	3.16	2.08	3.80	5.42	4.68	3.79	4.72	7.39	1.03	2.16	3.39	41.62
October .....	1.33	3.13	7.4	6.12	4.45	5.35	3.51	3.82	5.82	4.87	6.28	48.47
November...	2.06	2.43	3.59	5.82	2.56	3.80	7.32	4.00	6.08	9.33	6.77	53.76
December...	2.66	7.01	5.43	4.56	5.77	2.83	1.60	1.40	2.85	9.17	4.64	47.92
TOTALS...	44.49	39.15	44.14	55.45	45.56	41.10	41.88	46.30	50.91	48.14	55.37	512.47
						2	1	2	2	2	1	428

*N.B. Last No. gauge installed Jan 1930. Average recorded 1930-32 = 44.9. OK.*

*Reported from Survey: 5" too low.*

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	Parish Church.	Distance from gauge	Direction
1930.			Blackburn	1 1/2 mi	NW	Blackburn	1 1/4 mi	NW.



RAINFALL at Blackburn (Guide Reservoir)

County of Central Lancashire

Observer H. M. Webb Esq. C.E.

River Basin Ribble & C. - 1

W. P. Pickett Esq. C.E.

Type of Gauge M.D. Snowden 1940

G. McKay Esq. from 1939

Annual Average 44.9 in. based on 3 years obs. ~~un~~-weighted. Period of average 1920-32. Ref. *Survey*  
660553/26.

Diameter	8.											
Height	1.6.											
Altitude	610.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	Totals
January	5.66	5.54	3.60	3.97	2.75	3.04	4.18	5.42	5.50	(2.00)		43.67
February	5.14	.12	3.84	.43	6.12	2.73	5.49	1.68	4.54	2.51		32.60
March	.49	2.79	2.48	2.95	1.33	3.03	2.59	1.62	2.84	2.87		22.99
April	3.48	3.46	1.65	2.70	3.27	1.37	4.12	.95	2.96	3.01		26.97
May	2.32	4.64	1.69	4.03	1.68	.84	2.46	3.98	2.39	1.02		25.05
June	5.61	1.29	1.62	2.45	3.36	4.17	2.44	4.94	3.62	.83		30.33
July	4.04	3.85	3.04	2.20	1.91	4.90	1.91	4.94	7.10	5.06		38.99
August	6.07	1.75	2.78	4.99	1.79	2.40	2.76	3.44	2.79	3.45		32.22
September	4.08	7.28	1.20	3.81	8.20	4.19	2.08	2.25	1.51	5.13		39.73
October	3.25	7.69	5.04	6.18	9.12	4.60	2.29	9.35	2.60	5.29		55.41
November	7.60	3.16	2.63	2.55	5.30	5.59	2.07	6.52	7.79	7.79		50.90
December	2.13	2.25	.77	6.55	4.11	5.16	2.22	5.35	3.04	4.49		36.07
TOTALS	49.77	43.82	30.34	42.81	48.94	44.02	34.61	50.45	46.68	43.45		434.39
	D.	D	D.	D.	D.	D	D	D	D	D		484

1940 Jan. covered for snow.

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			Blackburn	13 1/2 m	N.W.	Blackburn	13 1/2 m	N.W.	

Station No. 2949RAINFALL at Blackburn (Guide Reservoir)

41

County of Central Lancashire Observer G. Mc Kay Esq. C.E.River Basin Ribble & C-1Type of Gauge SnowdonAnnual Average 44.9 in. based on 3 years obs. un-weighted. Period of average 1932-33 Ref. S.File No. 660553/26

Diameter	8"											
Height	1'6"											
Altitude	610'											
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	
January	1.42	4.31	6.19	5.68	3.10	4.36	3.67	7.78	2.20	3.67		Total 42.38
February	4.82	1.28	3.57	2.11	5.09	6.07	.95	2.26	2.97	5.08		34.20
March	3.65	3.75	1.46	.79	1.71	1'00	6.35	2.17	1.75	2.36		24.79
April	1.54	2.57	3.28	2.33	2.27	1.29	3.74	1.94	4.06	2.96		25.98
May	2.91	3.46	3.28	3.05	3.32	1.42	2.63	1.71	3.81	2.10		27.69
June	.53	1.15	4.06	2.86	5.01	2.70	2.35	6.39	1.27	2.78		27.60
July	2.94	6.45	2.95	4.25	2.65	4.47	3.20	2.12	2.66	4.36		36.05
August	5.95	5.28	6.19	3.58	2.87	7.69	.22	4.18	2.87	8.12		46.95
September	1.27	4.23	4.75	5.65	2.58	6.54	3.58	2.62	2.29	6.88		40.34
October	4.31	8.53	3.89	5.10	5.97	1.22	.84	2.47	5.04	3.60		41.53
November	3.23	1.13	3.70	6.30	.47	6.45	4.65	2.58	6.20	6.57		41.94
December	3.51	4.64	2.59	4.53	2.58	4.73	3.24	4.00	6.17	2.67		39.02
TOTALS	36.58 D	46.30 D	45.91 D	46.83 D	57.92 D	47.94 D	35.92 D	40.22 D	41.29 D	51.10 D		430.67 426

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			Blackburn	1 3/4 m.	N.W.	Blackburn	1 3/4 m.	N.W.

BRITISH RAINFALL ORGANIZATION



Station No. 2969RAINFALL at Blackburn (Guide Reservoir)

51

County of Central LancashireObserver G. McKay Esq. C.E.River Basin Middle & L.Fylde Water Board (1/4/60)Type of Gauge SnowdonAnnual Average 44.9 in. based on 3 years obs. un-weighted. Period of average 1881-1915 Ref. S  
" 43.85 " " 39 " " within 1916-57 " " 1916-50  
File No. 66055325

Diameter ...	8"				576	000	5"					
Height ...	1' 6"			1' 0"			1					
Altitude ...	610'						51					
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means Totals	
January ...	4.49	3.98	1.96	5.33	2.57	5.05	3.22	4.84	2.77	5.85	40.06	
February ...	4.32	1.35	1.43	3.67	1.95	.89	3.51	7.50	.72	3.71	29.05	
March ...	5.19	1.95	2.08	3.05	2.24	1.58	3.22	1.71	1.93	1.27	24.22	
April ...	2.68	3.72	3.43	.96	3.27	3.26	.46	1.33	3.13	2.94	25.18	
May ...	1.97	2.58	2.92	3.00	4.51	1.77	2.49	5.09	1.43	2.04	27.70	
June ...	1.37	3.68	2.90	3.21	3.57	2.73	1.88	4.23	3.25	1.48	28.40	
July ...	2.94	2.94	4.67	6.47	1.06	5.38	5.45	4.16	4.73	8.21	46.01	
August ...	4.38	5.82	5.76	7.09	1.18	12.09	6.11	4.61	.60	4.48	52.12	
September ...	3.00	4.39	5.04	5.42	4.13	3.79	7.62	4.95	.44	3.14	41.92	
October ...	1.10	4.92	2.53	8.15	3.34	2.95	6.57	4.69	5.50	4.18	43.83	
November ...	8.42	2.61	6.23	8.38	2.87	1.93	2.11	1.81	5.59	8.02	47.97	
December ...	8.32	3.88	2.01	6.71	5.95	5.50	6.02	4.42	9.21	4.80	56.82	
TOTALS ...	48.08	41.72	40.96	61.44	36.64	46.92	48.66	49.34	39.40	50.12	463.28	

Ins. 8.10.53. G. sound but funnel painted.

\* Changed 8" to 5" gauge on 1.3.1956

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference SD698264

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.
1951			Blackburn	1 1/2 m. N.W.	Blackburn	1 1/4 m. N.W.

Summary of Earlier Records from 10-year Sheets :

1916-1950, P - Rejected

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	✓	✓	✓	
		D25-30			