

RAINFALL AT Graysdale Reservoir

B Riley

Sydney W Works

Rain { By
Gauge { Diameter..... 5.88 in.

Height above Ground, 1. ft. in.

Above Mean Sea Level, 43.8 ft.

YEAR.....							1866	1867	1868	1869	MEANS.
January								3.40	3.40	7.80	
February								2.20	2.70	5.00	
March								1.10	4.70	1.10	
April								4.90	2.30	3.50	
May								2.50	2.00	3.00	
June.....								1.80	1.00	1.70	
July.....								4.10	.80	1.30	
August.....							4	4.30	6.40	3.00	
September ...							8.55	4.60	2.10	9.50	
October.....							3.30	5.70	5.80	4.40	
November.....							6.80	5.60	3.90	6.40	
December.....							5.30	3.60	9.70	5.00	
TOTALS								44.00	44.80	51.70	

C C C C

RAINFALL AT Garstang Grizedale Reservoir

Lat.....

Lon.....

County of.....

Lancashire

Rain Gauge, by.....

Observer.....

J. Bradley Esq.

Diameter	1.0	.	.	.	.	.	.	.	.	.	.	.
Height	1.0	.	.	.	.	.	.	.	.	.	.	.
Altitude	519	.	.	.	.	.	.	.	.	.	.	.
	480	.	.	.	.	.	.	.	.	.	.	.
YEAR	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....	4.10	52	8.02	5.65	4.40	5.18	2.50	7.00	3.70	1.50	4.257	
February.....	7.05	4.82	5.83	7.5	1.85	1.20	5.30	4.70	1.85	3.45	3.080	
March.....	2.52	1.00	5.34	4.40	3.85	1.05	2.15	3.80	1.45	1.75	2.811	
April.....	1.60	3.24	2.10	.60	1.45	1.25	3.00	3.00	1.65	1.59	1.948	
May.....	2.42	1.03	2.30	2.45	1.25	2.40	.62	3.05	4.43	2.68	2.263	
June.....	2.03	3.45	6.10	3.00	1.20	4.45	4.75	2.90	4.15	4.65	3.668	
July.....	2.40	6.64	5.85	4.20	2.00	5.10	3.20	5.30	.80	5.75	4.124	
August.....	2.30	3.00	4.40	5.80	6.90	3.15	4.35	7.00	5.55	7.35	5.010	
September.....	1.30	3.43	7.40	2.65	4.90	4.70	4.90	4.85	5.40	4.40	4.393	
October.....	11.52	8.83	6.60	7.51	6.03	4.75	3.40	5.90	3.93	2.82	6.139	
November.....	5.32	3.02	4.90	2.28	6.10	7.00	3.75	6.65	2.65	1.03	4.350	
December.....	4.50	5.53	4.40	1.86	3.50	2.65	6.75	5.25	2.20	2.25	3.879	
TOTALS	41.06	46.11	63.24	41.15	43.45	43.08	44.67	59.40	37.76	39.32	45.922	

RAINFALL AT

Garstang, Grizedale **80**

Lat. _____

Lon. _____

County of _____

Lancashire

Rain Gauge, by _____

Observer *J. Duncanson, Esq.*

J. Bradley Esq

Wye & Co

Diameter	<i>10</i>										
Height	<i>1.3</i>							<i>1.0</i>			
Altitude	<i>579 T</i>										
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January	<i>.65</i>	<i>.72</i>	<i>3.70</i>	<i>6.38</i>	<i>5.80</i>	<i>2.45</i>	<i>5.30</i>	<i>3.05</i>	<i>2.00</i>	<i>2.25</i>	<i>3.230</i>
February	<i>2.95</i>	<i>5.25</i>	<i>3.02</i>	<i>3.25</i>	<i>3.05</i>	<i>3.75</i>	<i>1.45</i>	<i>2.45</i>	<i>.75</i>	<i>2.40</i>	<i>2.832</i>
March	<i>2.80</i>	<i>4.50</i>	<i>3.70</i>	<i>1.05</i>	<i>3.35</i>	<i>3.80</i>	<i>4.00</i>	<i>2.45</i>	<i>3.40</i>	<i>2.90</i>	<i>3.195</i>
April	<i>1.80</i>	<i>2.00</i>	<i>4.97</i>	<i>2.40</i>	<i>1.15</i>	<i>1.75</i>	<i>2.60</i>	<i>1.30</i>	<i>2.00</i>	<i>2.40</i>	<i>2.237</i>
May	<i>2.38</i>	<i>5.70</i>	<i>2.28</i>	<i>1.48</i>	<i>3.00</i>	<i>2.17</i>	<i>6.10</i>	<i>1.70</i>	<i>1.42</i>	<i>3.55</i>	<i>2.978</i>
June	<i>4.82</i>	<i>4.60</i>	<i>5.05</i>	<i>3.65</i>	<i>.80</i>	<i>2.33</i>	<i>1.85</i>	<i>.48</i>	<i>2.45</i>	<i>1.10</i>	<i>2.733</i>
July	<i>4.05</i>	<i>6.50</i>	<i>7.90</i>	<i>3.85</i>	<i>6.75</i>	<i>1.90</i>	<i>5.80</i>	<i>3.88</i>	<i>6.72</i>	<i>3.25</i>	<i>5.060</i>
August	<i>2.52</i>	<i>7.00</i>	<i>4.95</i>	<i>3.60</i>	<i>2.10</i>	<i>1.85</i>	<i>2.35</i>	<i>2.55</i>	<i>3.40</i>	<i>5.90</i>	<i>3.622</i>
September....	<i>4.86</i>	<i>2.65</i>	<i>2.10</i>	<i>5.72</i>	<i>4.15</i>	<i>7.00</i>	<i>5.58</i>	<i>4.70</i>	<i>2.57</i>	<i>4.40</i>	<i>4.373</i>
October	<i>5.12</i>	<i>2.90</i>	<i>4.70</i>	<i>5.30</i>	<i>3.00</i>	<i>5.20</i>	<i>6.15</i>	<i>2.60</i>	<i>3.15</i>	<i>4.90</i>	<i>4.302</i>
November....	<i>6.66</i>	<i>6.00</i>	<i>5.80</i>	<i>5.00</i>	<i>1.70</i>	<i>3.90</i>	<i>4.00</i>	<i>3.40</i>	<i>5.15</i>	<i>2.25</i>	<i>4.386</i>
December	<i>5.95</i>	<i>5.05</i>	<i>3.40</i>	<i>2.65</i>	<i>4.85</i>	<i>1.55</i>	<i>4.25</i>	<i>3.25</i>	<i>3.60</i>	<i>3.95</i>	<i>3.850</i>
TOTALS	<i>44.56</i>	<i>52.87</i>	<i>51.57</i>	<i>44.33</i>	<i>39.70</i>	<i>37.85</i>	<i>49.45</i>	<i>31.81</i>	<i>36.61</i>	<i>39.25</i>	<i>42.798</i>

1880. Garstang

4 1/4 miles

S.W.

RAINFALL AT *Garstang Grizedale Reservoir*

Lat. _____

Lon. _____

County of *Lancashire*

Rain Gauge, by _____

Observer *C Arthur Esq**Wye + 6.5*

Diameter	10											
Height	10											
Altitude	5197											
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January	6.30	2.50	3.58	1.72	3.95	2.60	3.42	1.15	4.80	5.50	2.552	
February ....	.55	.35	2.20	5.50	5.50	.25	2.00	3.52	2.95	2.49	2.521	
March	4.70	1.10	.85	1.65	3.20	4.88	5.40	5.95	1.22	2.85	2.180	
April	1.35	2.55	2.15	.40	2.00	2.60	2.00	3.10	2.70	4.60	2.215	
May	2.50	2.00	5.70	2.30	2.70	.88	.59	2.34	3.42	3.64	2.607	
June	5.10	1.55	3.45	2.00	4.30	2.35	3.80	4.89	2.71	2.03	2.218	
July	4.00	3.45	1.95	4.50	3.90	5.10	5.32	2.00	1.96	2.30	2.218	
August	8.15	11.85	8.55	4.65	6.10	5.50	4.52	5.52	7.46	2.21	6.115	
September....	4.70	6.50	6.10	5.55	.80	1.25	6.25	4.78	2.01	6.48	4.442	
October	3.60	4.20	5.10	7.22	4.18	5.45	4.70	2.42	4.36	4.24	4.547	
November....	6.50	5.15	3.70	2.45	4.50	3.45	1.70	6.15	5.60	3.42	4.262	
December ....	.70	7.65	2.65	4.40	4.45	4.19	6.72	5.90	4.57	3.91	4.514	
TOTALS . . .	48.15	48.85	45.98	42.34	45.58	38.50	46.42	47.72	43.76	43.67	45.097	

1840-

RAINFALL AT

Garting Gizedale Reservoir

Lat.

Lon.

County of

Lancashire North

Rain Gauge, by

Observer

C. Arthur Eg. &
J. Cocking & Co.

Wyre 5

Diameter ..	5										
Height	1 0										
Altitude ..	519 T										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	5.04	1.51	2.35	4.00	3.68	2.39	5.12	2.31	3.98	1.94	3.232
February ..	3.81	1.96	1.98	3.77	3.73	1.87	3.48	2.01	2.84	2.15	2.760
March .....	.70	3.57	3.06	3.99	3.27	3.22	3.46	4.39	3.17	3.29	3.212
April	2.82	2.43	1.47	1.68	3.17	3.16	1.67	1.74	3.29	4.09	2.552
May	1.64	1.01	3.35	3.64	2.98	.99	5.29	3.83	3.11	2.51	2.835
June	3.56	1.96	1.27	1.71	1.91	2.31	3.09	8.20	2.71	2.92	2.964
July	3.26	.92	4.34	4.44	3.48	2.69	2.83	3.51	4.63	7.20	3.730
August	5.45	3.54	3.06	6.59	4.12	4.73	3.90	6.14	5.29	4.07	4.689
September ..	2.19	1.70	1.42	5.82	2.07	3.45	1.57	1.14	6.26	3.08	2.870
October	6.62	4.69	4.30	9.21	3.45	3.23	6.70	4.88	2.42	6.15	5.165
November ..	4.35	3.96	2.50	3.71	3.77	4.74	3.30	4.73	3.93	2.05	3.704
December ..	5.56	5.22	4.00	3.14	3.84	1.07	3.80	4.83	3.92	8.72	4.410
TOTALS ..	45.00	32.47	33.10	51.70	39.47	33.85	44.21	47.71	45.55	48.17	42.123

H. K.

† Inspected: g. erected by CS.

RAINFALL at Garstang Grizedale ReservoirCounty of North LancashireObserver John E. C. E.River Basin Wyre & C 5

Rain Gauge, by _____

Diameter ...	5											
Height	1. 0											
Altitude ...	517 K											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	30.05 6-19
January ...	6.72	1.34	4.33	4.91	3.80	5.25	3.26	2.64	4.00	5.66		15.56
February ...	4.62	4.54	1.99	2.02	3.54	4.80	4.05	1.48	4.84	1.61		11.08
March .....	.93	1.67	6.69	4.32	4.81	2.33	1.90	2.93	2.08	6.58		13.49
April	2.23	3.03	.61	5.16	1.03	3.23	3.32	1.91	1.26	2.19		8.68
May	2.18	1.46	2.17	3.08	2.99	2.14	3.61	2.09	2.44	1.99		10.13
June	2.55	4.00	7.82	2.79	2.10	1.19	3.06	3.54	2.60	2.23		11.13
July	7.32	1.13	4.90	1.54	5.59	4.68	3.75	1.96	5.35	2.26		13.32
August	6.72	4.87	5.97	1.95	2.60	5.78	4.23	9.12	5.42	4.93		23.70
September ..	.61	4.75	2.73	3.44	2.53	1.15	3.21	4.46	9.21	3.39		20.97
October ...	3.39	4.66	5.52	2.83	2.08	2.16	8.88	8.27	4.87	2.95		24.97
November ..	5.51	5.39	5.14	5.48	5.84	2.30	3.92	5.44	3.25	2.56		15.17
December...	4.12	7.13	4.48	3.24	5.65	5.38	3.57	2.74	9.44	6.14		25.89
TOTALS ...	47.00	44.02	52.35	40.76	43.56	43.39	46.76	46.58	54.76	42.49	46.167	190.39 12.4
	D	D	D	D	D	D	D	D	D	D		

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	53.55.30 N	2.43.15 W	Garstang Grizedale					

RAINFALL at Paristang, Grigdale Reservoir

No. 1

County of N. LancashireObserver J. Cook, Esq. G.B.River Basin Wyre & C. 5(1925) G. F. Atkinson Esq. G.B.
Fylde W. Board.Snowdon Rain Gauge, by _____

Diameter ...	5"												
Height	10												
Altitude ...	517									517			
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS 1930	Totals.	
January ...	4.70	6.96	3.74	4.23	4.27	3.18	5.68	4.64	10.92	2.62	6.61	67.55	
February ...	2.84	3.1	5.65	6.22	7.3	5.37	5.21	3.02	5.14	1.26	.32	36.07	
March	5.12	4.29	2.55	1.44	1.95	1.35	1.22	3.52	3.53	1.41	3.62	30.00	
April	5.62	1.94	2.16	3.45	1.88	2.80	1.56	1.65	1.64	1.84	2.52	27.06	
May	6.52	3.32	2.05	3.44	5.44	4.68	3.07	1.77	.92	2.53	2.01	35.75	
June	2.85	.65	3.20	1.17	3.09	.62	4.07	4.03	8.36	2.30	2.01	32.36	
July	6.64	1.85	6.69	5.31	4.01	3.66	5.07	5.56	4.51	5.16	4.51	52.91	
August	2.82	7.67	5.44	7.82	7.46	5.15	4.03	8.26	6.89	6.92	8.80	71.31	
September...	3.82	1.84	6.14	5.30	6.29	5.38	5.49	9.37	2.32	2.90	2.58	61.43	
October	1.66	2.57	1.15	7.05	5.16	6.79	4.40	4.48	6.44	7.08	7.20	53.98	
November...	2.77	2.80	3.21	6.90	2.79	2.53	7.37	5.60	6.83	8.02	5.77	54.59	
December...	3.27	6.45	5.40	5.61	6.97	2.89	1.26	1.26	3.25	7.99	5.27	49.62	
TOTALS...	48.63	40.65	7.38	57.94	50.04	44.40	48.48	53.10	60.75	50.03	51.22	552.62	
	D	D	D	D	D	D	D	D	D	D	D	D	

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
1920	53° 53' 30"	2° 43' 15"	Paristang & Catterall	44m	S.W.	Balder Vale	3m	S.E.

RAINFALL at Garstang (Grizedale Reservoir)County of North LancashireObserver Fylde Water BoardRiver Basin Wyre & C - SType of Gauge SnowdonAnnual Average 43.6 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. B.M.N.

697676/26.

Diameter	5.											
Height	1.0.											
Altitude	517											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	4.85	4.76	3.42	4.32	1.98	3.93	2.98	5.09	4.43	2.77		Totals 37.56
February	3.97	1.08	3.59	1.16	5.25	2.16	5.61	1.69	3.29	1.55		27.35
March	4.6	2.68	2.46	2.47	1.15	2.66	1.55	1.68	2.07	3.60		20.18
April	2.89	2.98	2.28	2.77	2.83	1.81	3.07	4.2	2.18	2.34		22.57
May	2.68	5.14	2.38	3.86	1.08	1.30	2.25	3.96	1.12	1.78		25.55
June	7.44	1.44	2.83	2.36	5.89	4.99	2.75	5.12	3.68	1.83		37.33
July	5.47	5.88	3.06	2.63	1.80	5.00	2.08	4.94	6.54	4.95		42.35
August	4.27	1.82	2.54	6.40	3.10	3.97	2.85	3.68	1.90	2.43		32.96
September	3.59	6.98	1.16	4.65	7.79	4.95	3.62	2.92	1.59	5.08		41.73
October	3.42	7.97	6.06	6.82	7.26	3.40	2.55	9.82	1.64	4.78		53.72
November	8.98	3.43	2.64	1.73	4.41	4.82	2.06	5.15	5.64	4.76		43.32
December	3.29	2.93	1.98	6.33	3.24	5.66	2.89	4.97	2.86	4.64		37.74
TOTALS	51.34	46.09	33.40	44.50	45.78	43.35	33.66	48.84	36.94	39.51		423.41
	D	D	D	D	D	D	D	D	D	D		19.14

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			Garstang	4 m	SW	Carden Vale	3 m	S.E.

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

Station No. 3060

RAINFALL at Garstang (Grizedale Reservoir)

41

County of North Lancashire Observer Tyde Water Board.

River Basin Wyre & C - 5

Type of Gauge Sauter

Annual Average 43.6 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref B of N

File No. 697676/26

Diameter	5"			578	010								
Height	1' 0"				1								
Altitude	517'				41								
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means		
January	1.52	4.58	7.38	4.89	3.83	4.45	3.64	8.11	2.27	2.65		Totals	43.32
February	5.92	1.60	2.46	1.58	5.15	4.03	.73	2.40	1.88	4.38			30.13
March	2.55	2.84	.98	.62	2.76	1.29	6.05	3.02	2.28	2.20			24.59
April	1.34	1.35	2.70	3.35	2.24	1.41	3.58	1.50	4.24	2.37			24.68
May	3.03	3.64	4.04	3.36	3.48	1.90	2.72	1.64	2.42	1.24			28.07
June	.51	1.20	3.20	3.75	5.36	3.53	3.23	5.01	1.01	4.03			30.89
July	2.22	5.40	5.23	4.67	3.95	6.67	4.63	3.30	4.59	5.22			45.88
August	5.41	4.94	8.01	2.79	1.61	6.91	.28	3.94	3.83	8.35			46.07
September	1.47	4.85	5.58	7.30	3.81	6.48	5.20	5.07	1.38	7.80			48.94
October	5.49	5.32	4.77	5.54	5.57	.60	.57	3.91	6.16	3.83			42.36
November	2.47	1.06	3.36	6.26	.17	6.25	4.95	3.18	5.51	4.70			37.91
December	2.30	4.84	2.20	4.15	2.77	5.23	2.34	3.54	5.65	2.92			35.94
TOTALS	34.29	42.82	49.91	48.86	40.70	48.75	37.92	44.62	41.22	49.69			438.78

1944 gauge tested & found sound.

387.09

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			Garstang & Sutterall	4 m.	S.W.	Calder Vale	3 m.	S.E.

BRITISH RAINFALL ORGANIZATION

Station No. 3060

TF 85

RAINFALL at Larstang (Grizedale Reservoir)

51

County of N. LancashireObserver Fylde Water BoardRiver Basin Wyre 96-5Type of Gauge SnowdonAnnual Average 43.6 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. Ref N" " 46.34 " " 20 " " 1916-35 Rejected - data does not fit 1930-1935
Period of average 1916-50 File No. 297676/26

Diameter ...	5"			57.8	0.10							
Height ...	1' 0"				1							
Altitude ...	517'				51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	Total
January ...	4.92	3.91	2.05	4.54	2.71	4.68	4.33	4.48	3.51	4.93	40.06	
February ...	3.74	1.07	1.68	3.71	1.97	6.0	3.52	6.66	1.05	3.45	27.45	
March ...	4.86	2.91	.91	2.89	1.81	1.12	3.72	1.60	2.67	1.81	24.30	
April ...	2.47	3.71	3.36	1.32	2.77	1.69	.57	1.82	2.78	3.03	23.46	
May ...	1.95	2.68	2.69	3.02	3.79	2.82	3.00	5.31	2.26	3.19	30.71	
June ...	1.20	4.74	3.22	5.02	4.00	2.82	2.42	4.45	4.16	1.73	33.76	
July ...	3.42	1.84	6.04	7.02	1.48	4.01	5.75	3.42	5.66	7.10	45.74	
August ...	4.54	7.92	5.08	6.76	1.22	12.79	4.39	3.39	.59	5.38	52.06	
September ...	4.05	3.16	5.83	6.74	2.58	4.13	6.57	6.39	.51	3.56	43.52	
October ...	1.88	4.31	2.13	10.13	2.44	3.63	6.24	4.52	4.43	2.94	42.65	
November ...	7.87	2.08	5.31	6.73	2.46	1.50	1.46	2.80	5.89	9.21	45.31	
December ...	9.73	3.66	2.25	4.81	4.91	4.76	4.70	4.17	9.13	5.00	53.12	
TOTALS ...	50.63	41.99	40.49	62.69	32.14	44.55	46.67	49.01	42.64	51.33	462.14	
	D	D	D	D	D	D	D	D	D	D		

Imp. IV Bleasdale 5/14 f. 3.000

V. Sheep slope fringed with soft brack. trees. Grass slope NNW to Res. gauge on E. of small grass clearing under a larch. V. poor sika deer noted to be abundant in view of aged record. Trees now 50 years old

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference 34 58 433

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge.	Direction from gauge.
1951			<u>Larstang, Bithall</u>	<u>4m.</u>	<u>SW.</u>	<u>Baldon Vale</u>	<u>3m.</u>	<u>SE.</u>

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
	✓	✓	✓	✓	