

Rainfall at *Middleton Hall* *Mr Belford*
Northumberland.
J. Fowlerton Leather

Diameter of Gauge, *12.5* in.

Height above Ground, *2* ft. in.

Above Mean Sea Level, *240* ft.

YEAR - -					1864	1865	1866	1867	1868	1869	MEANS.
January - -					1.47	2.64	2.05	1.75	2.57	2.53	
February - -					2.18	.60	2.85	.50	1.73	1.26	
March - - -					2.76	1.81	3.82	1.87	1.50	1.13	
April - - -					1.04	.85	1.64	1.80	3.00	2.07	
May - - - -					2.82	5.54	1.10	2.08	1.56	3.00	
June - - - -					1.70	1.47	.96	2.78	.73	.44	
July - - - -					1.89	1.28	3.69	3.44	.83	.03	
August - - -					1.12	2.24	4.07	3.90	4.96	2.65	
September -					3.54	.63	1.47	2.04	4.06	3.72	
October - -					6.33	8.01	.47	1.16	2.16	1.62	
November -					2.67	2.14	3.40	.46	2.32	2.87	
December -					2.58	1.71	1.37	2.42	3.78	1.89	
TOTALS -					30.10	28.92	26.89	24.20	29.20	23.21	

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In 1868 W. Leather sent (for his assistant) the return for 1867 as entered above. In 1872 he sent the following values,
 Jan Feb Mar April May June July Aug Sept Oct Nov Dec Total
 29, 1.96, 1.87, 1.795, 1.46, 9.455, 1.353, 1.34, 4.75, 2.13, 24.105
 Although their obvious inaccuracy was pointed out he adhered to them, various calculations having shown that the original return is far nearer what is probably correct. I decline to alter them. *W. Leather*

RAINFALL AT *Belford Middleton Hall*

Lat.....

Lon.....

County of...

Northumberland

Rain Gauge, by.....

Observer

J. T. Latham Esq. M.C.

Diameter	2	2	2	2	2	2	2	2	2	2	2	2
Height	2	2	2	2	2	2	2	2	2	2	2	2
Altitude	240	240	240	240	240	240	240	240	240	240	240	240
YEAR	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....	1.30	1.45	3.98	1.39	90	1.94	.80	2.98	2.77	.91	1.842	
February.....	60	2.60	1.43	1.30	2.07	1.06	3.49	2.01	.98	3.38	1.900	
March.....	1.02	1.11	1.29	1.60	1.63	.65	2.95	2.51	1.02	1.05	1.483	
April.....	.72	4.20	3.30	.58	.84	1.08	3.93	3.16	1.12	2.17	2.110	
May .....	.97	1.25	3.69	2.12	1.75	.38	1.01	2.68	1.87	2.28	1.800	
June.....	1.09	2.11	2.26	1.17	.92	3.86	2.62	1.89	2.31	4.05	2.228	
July	1.85	1.09	3.84	3.21	2.22	2.57	1.32	4.61	.76	6.15	2.762	
August.....	.93	1.52	3.84	3.90	3.42	1.93	2.70	7.78	4.79	3.31	3.412	
September.....	.90	4.09	4.43	3.88	1.76	2.16	3.17	2.28	2.48	.72	2.595	
October.....	2.69	2.29	7.09	3.65	1.51	4.64	1.45	4.08	2.48	1.04	3.092	
November.....	2.86	2.72	4.62	2.04	4.09	3.54	3.20	2.09	5.58	2.07	3.281	
December.....	4.12	1.55	3.71	.97	3.09	1.32	6.95	1.89	3.39	1.03	2.512	
TOTALS	19.21	25.90	43.48	25.81	24.20	25.13	33.59	37.96	29.55	28.16	29.307	

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RAINFALL AT *Belford, Middleton & 80*

Lat. _____

Lon. _____

County of _____

Northumberland

Rain Gauge, by _____

Observed by _____

J. Leather, Esq., L.C.
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Diameter	<input type="checkbox"/> 10											
Height	3.0											
Altitude	240 ft											
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January ....	.35	1.30	.36	1.63	2.53	1.42	1.64	1.35	1.09	.80		
February	1.91	1.58	.65	2.82	.92	1.07	.64	.61	.71	.54		
March	1.81	1.70	1.08	2.16	2.62	1.67	1.30	1.49	2.30	2.93		
April	1.13	1.31	3.37	1.42	1.47	2.78	1.20	1.09	1.39	2.60		
May	1.41	2.72	2.27	1.78	1.23	2.99	2.98	2.03	.61	1.52		
June	1.90	1.39	3.89	2.63	.87	1.48	1.57	.34	2.61	.59		
July	3.01	3.51	2.98	6.26	4.69	2.25	3.40	2.59	4.72	3.88		
August .....	.65	5.90	2.05	2.10	1.03	2.29	1.22	1.75	1.56	4.16		
September....	5.71	5.59	1.23	3.87	2.13	3.23	1.62	4.66	1.21	2.78		
October	2.97	2.36	3.03	2.13	1.68	3.99	3.71	1.42	.95	3.92		
November....	3.55	2.39	2.83	1.22	1.93	1.73	3.22	3.08	3.82	.70		
December	2.84	1.32	4.24	1.56	1.42	.56	2.28	2.70	.96	1.31		
TOTALS	29.24	31.07	27.98	29.58	22.52	28.46	24.81	23.11	21.93	25.73		

1884 Belford Church 1 mile S.E.

1886-1912 Received from Major G. F. J. Leather II. 1914. Entered 2. XII. 1914

13 FEB 1914

RAINFALL AT Middleton Hall, Belford

Lat. _____ Lon. _____ County of Northumberland

Self recording Rain Gauge, by W. J. T. Leather Observer Major G. F. T. Leather
Logarithm 5

Diameter											
Height											
Altitude											
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	1.78	1.26	.91	1.35	1.26	3.04	.98	2.14	.40	1.82	
February	1.36	.09	1.35	1.73	3.06	1.18	.30	.86	1.12	1.18	
March	2.77	3.10	1.42	.53	.45	2.39	1.42	3.72	.83	1.61	
April .....	.68	2.49	.74	.84	1.11	1.29	.78	1.49	1.55	3.49	
May	1.61	1.29	2.88	1.18	2.60	.73	.44	1.73	4.05	3.46	
June	3.47	.74	3.30	1.44	2.18	2.14	1.38	3.36	.35	1.64	
July	2.24	1.99	1.82	3.07	1.57		2.92	3.72	1.35	4.41	
August	4.88	3.55	3.98	1.52	2.69	Range out of order	2.72	1.89	1.25	1.36	
September....	1.74	2.66	2.01	1.66	1.06		3.21	2.36	2.79	3.20	
October	2.77	1.92	4.95	2.17	4.09		8.21	.34	5.94	1.60	
November....	4.53	2.74	1.41	2.53	.50		2.04	1.21	2.93	2.63	
December	1.87	2.86	1.15	1.91	1.42		7.50	1.37	2.01	4.10	
TOTALS . . .	30.38 29.71	24.7 24.69	25.64 25.62	19.12 19.97	21.95 21.73		31.90 24.19	25.19 24.57	24.57 24.57	30.50 30.50	

Corrected for aith. 30. XI. 1914.

RAINFALL AT

Middleton Hall, Bedford

13 FEB 1914

Lat. _____

Lon. _____

County of _____

Northampton

Self recording
Cognit - 5.

Rain Gauge, by

W. J. J. J. J.

Observer

Major G. F. T. Leather

Diameter ...											
Height											
Altitude ...											
Year ...	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ...	3.70	4.24	1.31	4.10	9		1.42	.23	1.51	1.19	
February ...	4.00	1.26	2.69	2.20	3.4		1.70	1.19	.73	3.78	
March	3.20	2.30	1.20	2.40	2.1		1.77	1.30	3.20	3.58	
April	2.20	2.15	3.00	2.20	1.4		.89	2.50	1.93	3.84	
May	1.52	2.70	2.90	2.00	2.5	.76	4.70	3.10	2.45	2.96	
June	4.13	1.30	2.62	2.40	.6	.67	3.20	5.90	.98	2.24	
July	1.45	2.55	2.18	3.37	3	1.97	.84	1.92	2.25	2.54	
August	3.55	2.21	1.70	2.70	2.25	2.4	5.93	2.69	.95	2.24	
September ..	1.10	1.01	1.10	3.00	1.5	2.41	.15	.98	4.50	2.14	
October ...	4.15	2.10	1.65	9.88	.85	6.12	3.74	5.62	1.19	4.32	
November ..	3.65	5.78	2.41	2.10	4.2	3.69	5.98	1.78	2.43	.47	
December...	1.30	3.90	5.51	1.40		1.43	2.31	3.90	1.40	2.41	
TOTALS ...	33.95	31.50	28	37.8			37.33	30.43	22.76	30.9	
			28.27	37.75			37.63	31.11	23.52	31.71	

Corrected for aith. 30.21.1914.

RAINFALL at Belford Middleton HallCounty of Northumberland Observer Mrs. G. F. J. LeathenRiver Basin Cowburn &c 5Self Registering Rain Gauge, by N+3

Diameter ...					10						
Height					4 10						
Altitude ...					200						
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	1.78	1.32	2.96	2.40	1.40						
February ...	1.80	.70	2.54	1.30	1.07						
March .....	.54	1.72	1.86	3.26	2.42						
April	1.28	1.36	.40	1.44	1.36						
May	2.56	5.84	1.65	2.45	1.00						
June .....	.69		5.35	1.12	2.14						
July	1.26	.90	1.00	.62	1.56						
August	4.90	1.74	4.36	1.00	1.80						
September ..	.92	1.66	1.66	1.34	1.30						
October ...	2.68	2.94	4.68	.58	1.42						
November ..	4.20	3.74	1.60	1.76	4.48						
December...	3.28	5.30	1.17	.70	3.35						
TOTALS ...	25.89	27.22	29.23	18.27	22.30	NR					

1886-1912 Received II.14. Entered 30.II.14.

1914 Sundial 4.3" high 4.7" E

Date.	Lat. N.	Long. W.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	55.37	1.50	Belford	2 m	SSE	Belford	1 m	SSE