

RAINFALL AT Kirkby Lonsdale

Samuel Morris

Casterton 5

Rain { By.....
Gauge { Diameter..... 0..... in.

Height above Ground, .. ft. in.

Above Mean Sea Level, 267¹/₂ ft.

YEAR.....							1866	1867	1868	1869	MEANS
January							5.76	5.89	3.90	5.12	
February							5.96	4.77	4.68	8.16	
March							2.26	2.20	7.20	1.30	
April							1.23	6.00	2.51	3.45	
May							2.49	2.65	1.55	2.64	
June.....							4.28	2.57	.62	1.92	
July.....							5.47	3.35	1.04	1.42	
August.....							5.90	4.44	4.79	2.24	
September ...							9.76	5.34	2.56	9.72	
October.....							2.98	4.46	4.92	3.41	
November.....							8.09	2.17	2.48	6.24	
December.....							7.67	4.03	9.39	5.59	
TOTALS							61.85	47.87	45.64	51.21	

1869. Thrush singing frequently before the 12th of Jan^y
 found 2 full grown snipe in the meadow on 17th Feb^y
 Temp. ab. or below 32° on 17 nights in March
 April Swallows on 19th cuckoo on 23rd
 June Snow on the fells on 16th
 Aug^t 28th Max Temp 86° 5 The hottest day this year
 Root. Horse in flower on 3rd
 D.D. Temp. 6° on the morning of 28th
 1867 - Agrees with ppt by S. Marshall

RAINFALL AT *Kirkby Lonsdale*

Observer.....*Saml. Martin*.....

Rain { By.....

Gauge { Diameter.....*8*.....in.

Height above Ground.....*1*.....ft.....in.

Above Mean Sea Level.....*267*.....ft.

YEAR.....								<i>1867</i>	<i>1868</i>	<i>1869</i>	MEANS.
January.....								<i>3.99</i>	<i>5.09</i>		
February.....								<i>4.88</i>	<i>0.31</i>		
March.....								<i>7.25</i>	<i>1.32</i>		
April.....								<i>2.53</i>	<i>3.50</i>		
May.....								<i>1.58</i>	<i>2.61</i>		
June.....								<i>.64</i>	<i>1.92</i>		
July.....								<i>1.05</i>	<i>1.42</i>		
August.....								<i>4.72</i>	<i>2.25</i>		
September.....								<i>2.52</i>	<i>9.72</i>		
October.....								<i>4.91</i>	<i>3.44</i>		
November.....								<i>2.60</i>	<i>6.30</i>		
December.....								<i>9.38</i>	<i>5.60</i>		
TOTALS.....								<i>46.05</i>	<i>54.48</i>		

Registered monthly

Rainfall at Kirkby Lonsdale

60

Rev. H. Ware

1 1 658 6367 68

Diameter of Gauge, 5.... in.

Height above Ground, ft. 7.... in.

Above Mean Sea Level, 210.... ft.

YEAR - -	1864	1865	1866	1867	1868	1869	MEANS.
January - -	4.62	3.66	5.88	5.54	4.04	5.12	
February - -	2.72	3.12	6.13	5.01	4.88	7.91	
March - - -	4.28	2.16	2.40	1.95	7.19	1.10	
April - - -	1.72	1.01	1.15	6.24	2.47	3.59	
May - - -	2.87	4.42	2.55	2.53	1.62		
June - - -	5.30	.55	4.78	2.60	.55		4.57
July - - -	2.97	2.70	5.16	3.25	1.18		
August - - -	3.29	6.90	5.85	4.48	4.85		4.07
September -	5.28	1.90	9.92	5.42	2.39	9.74	
October - -	2.50	5.31	3.23	4.67	5.01	3.44	
November -	3.99	3.34	7.85	2.10	2.43	6.36	
December -	4.77	2.40	7.61	3.98	8.91	5.54	
TOTALS -	44.31	38.27	62.57	47.77	45.52	51.44	

1869 July 4 disabled. Mr. Harrison report
 My 4 is rather more exposed than Mr. Harrison's & rather
 more within the influence of the damp and mist from
 the River Lune.

RAINFALL AT Kirkby Lonsdale, Howwood Cott. Casterton

Lat..... Lon..... County of... *Nes Amn. orland*.......... Rain Gauge, by..... Observer *J. Morris Esq.*.....*Daily*

Diameter.....	.8											
Height.....	1											
Altitude.....	305											
YEAR.....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....	3.47	1.98	7.18	7.02	6.08	6.67	2.91	7.36	4.96	1.60	4.923	
February.....	1.79	4.02	4.44	4.7	2.06	1.09	6.86	4.95	2.24	2.80	3.072	
March.....	1.75	1.82	4.75	2.82	5.27	1.56	4.92	4.31	2.58	3.15	3.293	
April.....	2.34	3.45	3.16	5.9	2.08	1.65	3.12	2.48	2.81	1.15	2.283	
May.....	3.24	1.88	2.58	2.18	2.35	3.07	.71	2.68	4.51	2.39	2.559	
June.....	7.64	3.42	6.51	3.14	1.10	4.87	3.57	3.34	4.71	5.97	3.827	
July.....	1.69	7.54	4.98	5.59	3.29	3.41	4.42	6.09	1.52	7.47	4.600	
August.....	1.66	2.95	5.88	5.96	6.51	4.32	3.82	7.63	7.59	5.99	5.171	
September.....	2.96	3.16	9.56	3.49	5.23	4.42	6.22	3.42	6.31	3.96	4.873	
October.....	7.86	6.11	6.92	8.57	7.71	3.53	3.08	7.88	4.81	3.55	6.002	
November.....	2.67	1.20	5.67	3.02	5.62	6.72	3.14	9.08	3.15	2.04	4.231	
December.....	2.87	4.58	4.52	2.73	3.54	3.11	6.39	5.05	2.58	2.90	3.807	
TOTALS.....	33.94	42.11	66.15	44.98	50.84	44.42	49.16	64.27	47.57	42.97	45.641	

1870 During the Eclipse the temp. fell from 28° to 26° the sky seemed a deep blue, at times the clouds were tinged with pink. Min. Temp. was $8^{\circ}5$ on 31st of Dec.

1871 Lapsing on Dec. on 11th just Earthquake. Mar 17th at 6.30 & 11 a.m. violent one at 11 p.m. motion E. to W. but generally W. to E. from 18th. Remarkable Rainstorm there was for at one time 3 bladed together from 6.30 p.m. to 8.30. Frost on 17th they doing much damage, on 25th .680 in half an hour.

76 Summer House 15 ft to the N of the gauge 10 ft 6 in high

79 garden wall 55. " - E & ESE. " " 7. "

Kirkby Lonsdale church $1\frac{1}{2}$ miles W. N. W.

RAINFALL AT *Wickby Lonsdale, Norwood, Coth. Casterdon*Lat..... Lon..... County of... *West. Ireland*........ Rain Gauge, by..... Observer *S. Morris Esq.*.....*Monthly*

Diameter8										
Height	1										
Altitude	305										
YEAR	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	3.80	1.97	7.19	6.98	5.91	6.80					
February	1.81	4.08	4.74	4.48	2.06	1.15					
March	1.75	1.82	4.72	2.82	5.20	1.58					
April	2.40	3.53	3.10	5.7	2.05	1.67					
May	3.35	1.89	2.68	2.16	2.31	3.18					
June	1.65	3.45	6.50	3.10	1.06	5.04					
July	1.67	7.54	4.91	5.52	3.29	3.50					
August	7.64	2.97	5.83	5.30	6.48						
September.....	3.40	3.13	9.52	8.43	5.07	4.89					
October	7.82	6.09	6.74	8.43	7.70	3.60					
November.....	2.69	1.30	5.69	2.93	5.45	6.73					
December.....	2.88	4.63	4.45	2.69	3.53	3.19					
TOTALS	34.46	42.40	66.07	44.41	50.11						

1871 Nov. 10th Grand display of colored Aurora from 9.45 to
 10 PM 1872 Aug 11th 22.6 in fell in 24 hrs

RAINFALL AT *Kirkby Lonsdale, Lancashire*

80

Lat. _____

Lon. _____

County of *Westmorland and*

Rain Gauge, by _____

Observer *R.A. Clarke, Esq.*

June - 4

Diameter	8										
Height	1.0										
Altitude	305 ft										
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January	6.9	7.5	5.24	6.66	7.39						
February	3.94	5.60	3.76	3.22	2.39						
March	3.41	4.81	5.87	1.55	3.44						
April	1.72	1.94	4.94	2.62	1.38						
May	2.79	4.97	2.50	1.98	4.21						
June	4.65	5.03	6.08	5.82	.76						
July	7.38	7.56	8.33	3.42	4.94						
August	2.41	6.69	4.01	4.40	1.62						
September ...	4.14	3.17	2.84	4.95	4.19						
October	2.38	3.50	3.90	6.56	4.24						
November	7.12	5.69	6.76	3.53	1.89						
December	8.00	5.47	4.33	5.23	6.96						
TOTALS	48.63	55.18	58.56	51.94	43.41						

1880. *Kirkby Lonsdale* $1\frac{1}{4}$ miles W.N.W.
Summer house 10 1/2 ft high 15 ft N.

RAINFALL AT *Kirkby Lonsdale Casterton*

Lat. Lon. County of *Westmorland*

Rain Gauge, by Observer *R. A. Blake Esq.*

Line - H.

Diameter ..		8										
Height		1 0										
Altitude ..		305										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.	
January ..		2.63	4.03	7.67	4.89	3.33	7.93	2.55	6.00	2.84		
February ..		1.38	1.71	5.22	4.14	3.52	3.46	2.73	3.45	3.26		
March		3.98	2.93	5.30	3.64	3.32	5.18	5.66	4.41	3.27		
April		2.65	1.77	2.25	5.10	4.43	2.04	2.01	3.00	4.10		
May		1.19	3.16	2.91	3.84	1.69	7.31	4.70	3.59	2.33		
June		2.58	1.18	2.74	2.09	2.81	3.53	9.30	3.65	2.85		
July		1.38	5.59	5.64	1.82	2.86	3.27	4.65	5.14	8.29		
August		4.32	2.92	9.83	3.53	6.01	6.27	5.70	5.13	5.10		
September ..		1.60	1.62	7.82	1.89	4.45	1.77	1.04	7.46	4.02		
October		4.99	3.61	10.55	3.14	3.86	7.40	4.66	2.36	6.89		
November ..		6.31	2.79	3.27	5.15	5.23	5.73	4.52	3.88	3.04		
December ..		6.20	3.84	3.97	4.72	2.15	4.02	6.68	4.09	8.97		
TOTALS ..		39.21	35.15	67.17	43.95	43.66	57.91	54.20	52.16	54.96		

1909. Casterton Church $\frac{3}{4}$ mile N
Kirkby Lonsdale Station $\frac{1}{4}$ " SSE

3 Daily values in bound volume, shelf C3, R 14.

RAINFALL AT

Lat. 2.35 W

Lon. 54.13 N

County of

Westmorland

Rain Gauge, by

Observer

Miss Williams

June - 14

Diameter ...				5						5	
Height				1 3						1 3	
Altitude ...										320 N	
Year ...	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ...				7.25	4.66	2.92	7.93	4.12	6.04	3.70	
February ...				5.70	3.96	3.28	3.23	2.80	2.53	2.14	
March				5.94	3.63	3.48	5.46	5.68	3.74	3.27	
April				1.81	4.83	4.61	1.50	2.34	2.66	3.41	
May				3.52	3.74	1.51	7.35	4.96	3.04	2.26	
June				2.57	2.13	2.64	4.01	9.85	3.87	2.84	
July				5.64	1.87	2.58	3.80	4.58	5.09	8.37	
August				10.45	3.80	6.22	6.27	5.05	5.09	5.06	
September ..				8.24	1.66	4.43	1.77	.56	7.96	3.71	
October ...				10.97	2.57	3.45	7.34	4.61	2.24	7.66	
November ..				2.94	4.49	5.51	5.74	4.61	4.05	3.11	
December...				4.25	4.82	2.03	3.38	4.19	4.28	9.34	
TOTALS ...				69.28	42.16	42.66	57.78	53.35	50.59	54.87	

1903 - brood. 18. VI. 10; endd 24. VII. 12

Kirkby Lonsdale Station 1½ m. S.E.

Casterton Ch. in. 100 yds. S.W.

Rejected from Survey: 3" too low.

RAINFALL at Kirkby Lonsdale CastertonCounty of WestmorlandObserver R. A. Clarke EsqRiver Basin June 4G. E. Clarke Esq. 17

Rain Gauge, by _____

Diameter ...	8											
Height	1 0											
Altitude ...	305											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	
January ...	6.03	2.20	2.96	4.24	5.23	7.46	6.11	3.32				
February ...	7.27	6.96	2.42	2.73	3.76	5.60	4.83	1.72				
March	1.18	2.27	6.47	5.92	5.27	2.18	2.36	3.06				
April	2.39	4.52	1.26	4.90	1.31	2.01	3.28	2.31				
May	2.58	2.68	3.08	2.88	3.12	1.24	4.11	2.18				
June	2.18	3.93	7.72	3.41	1.52	.78	3.34	3.34				
July	5.68	.54	5.57	1.10	5.00	5.41	3.38	1.96				
August	8.22	4.75	6.13	3.19	3.91	3.95	5.30	9.65				
September ..	.46	4.52	2.07	3.59	5.40	.82	2.85	5.12				
October ...	2.85	5.61	5.76	2.82	2.33	1.25	9.97	6.61				
November ...	4.30	6.99	6.49	5.56	7.42	2.63	3.73	5.29				
December ...	4.99	7.14	5.83	4.01	5.97	6.60	4.55	3.11				
TOTALS ...	48.23	52.11	55.76	44.35	50.24	40.93	53.81	47.67				
	3	2	3	2	2	2	2	2				

Date.	Lat. N.	Long. W.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911	54° 12'	2° 34'	Kirkby Lonsdale	4 1/2 mi	SSE	Casterton	3/4 m	N

RAINFALL at Kirkby Lonsdale Caderton (Blenky Daughters Sch.)County of WestmorlandObserver M. Williams

Administered by

River Basin Lune 4Station Snarton Rain Gauge, by

Diameter ...	5 $\frac{1}{4}$	6							6		
Height	1 0					2.0	1 6				
Altitude ...	320 ft										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	6.20	8.19	2.89	4.42	6.36	6.37	5.18	3.01	4.70	6.33	
February ...	7.60	6.70	2.69	2.63	4.02	5.46	4.44	1.42	7.23	1.40	
March	1.19	1.87	6.53	5.89	5.06	2.02	2.05	2.77	1.97	4.96	
April	2.52	4.19	1.07	5.02	1.01	2.65	2.90	2.13	1.45	2.02	
May	2.46	2.30	2.98	2.90	2.96	1.16	4.08	2.14	1.73	1.33	
June	2.08	3.60	8.48	3.52	1.34	.77	3.49	2.96	2.09	1.46	
July	5.17	.54	5.39	1.04	7.39	5.01	3.39	1.96	6.68	1.36	
August	7.36	4.85	6.51	3.20	5.44	3.95	5.60	8.40	5.38	3.70	
September ..	.47	4.49	1.75	2.69	4.77	.74	2.77	4.95	10.93	6.29	
October ...	1.26	5.02	5.63	2.85	2.07	1.02	9.70	6.54	6.43	2.49	
November ..	4.95	6.94	6.46	5.64	6.54	2.78	3.62	4.20	2.61	2.63	
December ...	4.27	7.05	5.74	4.14	5.82	6.56	4.15	2.98	8.30	5.97	
TOTALS ...	45.53	49.74	56.12	44.94	52.77	38.49	51.97	43.46	59.50	40.14	

1913
 Railings 48 ft high 7-8 ft S
 Apponale 5.6" 12" E
 Apple Tree 4 13.7" SW

Rejected from Survey. 3" too low

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911	54.20	2.30	Kirkby Lonsdale Barbon	1 $\frac{3}{4}$ mi 1 $\frac{1}{4}$ mi	S.E. N.W.	Caderton	180 ft? 2-100 yds	W

RAINFALL at Hikby Lonsdale Casterton (Glegg Daughters Sch.)County of WestmorlandObserver Miss WilliamsRiver Basin Lune 4E. Docker (1922)Miss G. M. Hudson Aubrey (1923)Symons Snowdon Rain Gauge, by

Diameter ...	8			5								
Height	1.6			1.4								
Altitude ...	320			360								
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.	
January ...	6.64	8.99	4.45	imp								
February ...	5.11	15.4	4.7	4.20	6.9							
March	5.06	5.91	2.94	1.29	1.87							
April	5.04	1.32	1.40	3.04								
May	7.29	3.41	3.36	3.00	4.63							
June	2.58	3.1	3.58	8.1	3.84							
July	8.20	1.74	6.11	imp								
August	2.93	8.05	4.51									
September...	3.09	2.69	3.55									
October	1.09	3.40	9.5	imp								
November...	3.04	3.06	2.75	7.97	3.97							
December...	4.40	7.76	3.75	1.40	7.33							
TOTALS...	54.47	46.79	41.52	imp	\$							

1920 Fence 4 ft high 4 ft S.

Shrub 4 ft 10 in " 13 W

Therm Screen 5 ft 6 in " 12 E

Tobool Bill 30 ft high 20 ft N.

1923. Flagstaff 30 ft high 18 ft E, N, E.

Rejected from Survey : 3" too lowPosition 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
1920	54° 30'	2° 30'	Barbon	1 1/4 mi	N N W	Casterton	120 yds	N N W
							90 ft	W