

RAINFALL AT Kirkby Lonsdale
 Samuel Morris

Casterton &

Rain { By.....

Gauge { Diameter... Ø..... in.

Height above Ground, ... ft. in.

Above Mean Sea Level, 267⁷ 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	1.24	
December.....		7.67	4.03	9.39	5.59	
TOTALS		61.85	47.87	45.64	51.21	

C C C C

1869. Hounds singing frequently before the 12th of Jan^d
 found 2 full grown mushrooms in the meadow on 17th Feb^r
 Temp^t: ab. or below 32° on 17 nights in March
 April Swallows on 19th broken on 23rd
 June Snow on the fells on 16th

Augst 28th Max temp 86° 5 The hottest day this year

First Rose in flower on 3rd

Dec^r Temp^t 6° on the morning of 28th

1867 - agrees with ppt by S. Marshall

Kirkby Lonsdale

RAINFALL AT Kirkby Lonsdale

Observer... *Sam'l Martin*

Rain { By.....
 Gauge } Diameter..... 8.....in. Height above Ground, 1.....ft.....in. Above Mean Sea Level 267.....ft.

YEAR.....	1867	1868	1869	MEANS.
January.....				3.99 5.09
February				4.88 8.31
March				7.25 1.32
April.....				2.53 3.50
May				1.58 2.61
June.....				.64 1.92
July				1.05 1.42
August				4.72 2.25
September.....				2.52 9.72
October				4.91 3.44
November.....				2.60 6.30
December.....				9.38 5.60
TOTALS				46.05 54.48

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	3.90	8.91	5.54	
TOTALS -	44.31	38.27	62.57	47.77	45.52	51.44	

N C C C C C

1869 Feb 6 disabled W. Harrison report
 My gage is rather more exposed than W. Harrison & rather
 more within the influence of the damp and mist from
 the River Lune

RAINFALL AT Kirkby Lonsdale Vicarage.

Lat..... Lon..... County of Westmorland
..... Rain Gauge, by..... Observer Rev. Henry Ware

RAINFALL AT Kirkby Lonsdale Norwood Colt Casterton

Lat..... Lon..... County of... Westmorland.....

..... Rain Gauge, by..... Observer J Morris Esq'

Daily

Diameter	8										
Height	1	7									
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	4.47	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	5.59	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	7.1	2.68	4.51	2.39	2.559
June	7.64	3.42	6.51	9.14	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	2.79	3.54	3.11	6.39	5.05	2.38	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	48.641

C C C

1870 During the Eclipse the tempi fell from 28° to 26° the sky turned a deep blue, at times the clouds were tinged with pink. Min Temp. was 8.5° on 31st of Dec^r.

1871 Lapping on Ice on 11th just Earthquake Mar 17th at 6.30 & a.m. violent one at 11 p.m. motion E to W but generally W to E June 18th Remarkable Hailstones there were four at one time 3 blended together from 6.30 pm to 8.30 brook on 17th May doing much damage, a 25th 6.80 in half an hour.

76 Summer house 15 ft to the N of the gauge 10ft 6 in high
79 garden wall 55. " E & E.S.E. " 7 "

Kirkby Lonsdale church 1½ miles. W.N.W.

RAINFALL AT Kirkby Lonsdale Norwood Cott. Casterton

Lat..... Lon..... County of... Westmorland

..... Rain Gauge, by..... Observer S Morris Esq.

Monthly

Diameter8										
Height	1										
Altitude	7K										
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	5.57	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.....	3.00	3.13	9.52	8.43	5.07	4.39					
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	4				
TOTALS.....	34.46	42.40	66.07	44.41	50.11						

1871 Novt 10th Grand display of colored Aurora from 945 to
 10 P.M. 1872 Aug 11th 226 in fell in 24 hrs

RAINFALL AT Kirkby Lonsdale, Cawood
 Lat. _____ Lon. _____ County of Westmoreland
 Rain Gauge, by _____ Observer R.A. Clarke, Esq.

Lune - 4

Diameter	8										
Height	1.0										
Altitude	305 ft										
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January69	.75	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	5.53	1.89						
December	8.00	5.47	4.33	5.23	6.96						
TOTALS	48.63	55.18	58.56	51.94	42.34						

1880. Kirkby Lonsdale 1½ miles NNW
 Summer house 10½ ft high 15 ft N.

RAINFALL AT Kirkby Lonsdale Casterton

Lat.

Lon.

County of Westmoreland

Rain Gauge, by

Observer R. A. Blanks Esq.

Lime - 14.

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	2.83		
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	3.58	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 3/4 mile N
Kirkby Lonsdale Station 1 1/4 . 55 E

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

RAINFALL AT Kirkby Lonsdale Casterton Clapdale
 Lat. 2° 35' W Lon. 54° 13' N County of Westmorland
 Rain Gauge, by Mif Williams
 June - 14.

Diameter ...											5
Height					5						13
Altitude ...					13						320 ft
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	8.07
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 - Began 18. VI. 10; ended 24. VII. 12

Kirkby Lonsdale Station 12 m. S.E.
 Casterton Ch. in 100 yds. S.W.

Rejected from Survey: 3" too low.

RAINFALL at Kirby Lonsdale Casterton

County of Westmorland

Observer R. A. Clarke Esq.

River Basin Lune +

R. A. Clarke Esq. 17

Rain Gauge, by _____

Diameter ...	8										
Height	10										
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 ...	7.87	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	3.01	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	5.54	5.57	1.10	6.00	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	4.51	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 ...	4.20	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			
	7	7	7	7	7	7	7	7			

Date.	Lat. N.	Long. W.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911	54° 12'	2° 34'	Kirkby Lonsdale	14 mi	SSE	Casterton	3/4 m	N

RAINFALL at Kirby Lonsdale Casterton (Bleny Daughters' Col.)

County of Westmorland

Observer Miss Williams

Administrator

River Basin Lune 4

Snowdon Rain Gauge, by

Diameter ...	5 $\frac{1}{4}$.6							5"	
Height	1 0				2.0	1 6				
Altitude ...	320 ft									
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	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	2.95	1.16	4.08	2.14	1.73	1.53
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	6.01	3.89	1.96	6.68	1.36
August	7.36	4.85	6.51	3.20	5.44	3.95	5.60	8.40	3.38	5.70
September ..	.47	4.49	1.75	0.69	4.77	.74	2.77	4.95	10.93	6.29
October ...	1.26	5.02	5.63	2.85	2.07	1.02	9.90	6.54	6.43	5.49
November ...	4.95	6.94	6.46	5.64	6.54	2.78	3.62	4.20	2.61	5.63
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 Rainfall 49.74 ft 7.8 in 5
Stygromatic 5.6" : 12 E
Wind 4 . 13.9" - SW

Rejected from Survey . 9" too low

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911	56.3° 54.20	2.30	Kirkby Lonsdale Barbon	1 $\frac{3}{4}$ mi 1 $\frac{3}{4}$ mi	S.E. NW	Casterton	180 ft? 100 yds	W

RAINFALL at Kirkby Lonsdale Casterton (Clayton Daughers Sub.)

County of Westmorland

Observer Miss Williams

River Basin Lune 4

S. Docker (1922)

Syringe Snowdon Rain Gauge, by

Miss G. M. Windsor-Aubrey (1923)

Diameter ...	8		6"								MEANS.
Height	1.6		1 - 4								
Altitude ...	320		360								
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	
January ...	6.64	8.99	4.45	imp							
February ...	5.11	15	4.47	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	6.63						
June	2.58	.31	3.58	.81	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	0.95	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	41.82	imp	#						

1920 Fence 4 ft high 4 ft S.

Shrub 4 ft 10" " 13 - W

Thorn Screen 5" 6" " 12 - E

School Building 30 ft high 20 yds N.

1923 Flagstaff 30 ft high 18 yds E. IV. 15.

Rejected from Survey : 3° too low

Position of Station on reduced Ordnance Survey } No. of Map _____ Reference No. _____
Map, 2 miles to 1 inch Series }

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1920	54° 35' 2° 30'		Barbon	1 1/2 mi	NNW	Casterton	9.4 ft	W