

W Harrison

13 65

Cassella

14 2 in 64 & 67 68

5 in + ground 7 in 63 + Sea Level 209 ft.

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -				# 7.27	4.63	3.20	5.80	5.50	3.95	4.97	
February - -				3.29	2.69	3.55	6.15	5.00	4.84	7.91	
March - - -				1.40	4.20	2.00	2.40	2.00	7.25	1.14	
April - - -				3.70	1.80	1.90	1.15	6.00	2.48	3.53	
May - - -				3.88	2.82	4.27	2.40	2.58	1.55	2.74	
June - - -				5.90	5.08	.55	4.55	2.66	.50	1.82	
July - - -				1.70	2.80	2.72	5.27	3.20	1.15	1.40	
August - -				6.16	3.25	6.95	5.80	4.25	4.70	2.48	
September -				8.65	5.10	1.75	9.72	5.45	2.52	9.95	
October - -				6.72	2.45	5.50	3.09	4.67	4.92	3.38	
November -				7.69	4.05	3.28	8.18	2.11	2.60	6.36	
December -				6.47	4.53	2.34	7.72	4.00	8.60	5.54	
TOTALS -	41.60			62.83	43.45	38.01	62.23	47.42	45.06	51.22	

1860 per S. Marshall.

1869 from the 24th to the 29th of Dec. my bar stood at 18° 14° 9° to in the morning of the 28th inst. at 4° above zero. It is placed facing the N and about 5 feet from the ground.

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	1.24	
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
 Not. 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

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*Lat..... Lon..... County of *Westmorland*.....Rain Gauge, by..... Observer *Mr. W. Harrison*.....*At 1861-1915 675*

Diameter .....	.5										
Height	1.2						1.6			1.2	
Altitude	109.	209.									
YEAR	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	4.10	1.95	7.45	6.40	6.00	6.10	2.80	5.80	5.00	1.50	4.710
February	1.90	4.20	4.72	.70	1.95	.85	6.10	5.20	2.15	2.40	3.017
March	1.80	1.82	4.75	2.80	4.80	1.50	4.48	2.32	2.50	3.00	2.977
April	2.31	3.35	2.42	.55	1.80	1.55	2.60	2.50	2.70	1.00	2.078
May	3.20	1.45	2.45	2.00	1.75	3.10	.80	2.30	4.35	2.50	2.390
June	1.73	3.42	6.05	2.12	1.00	4.90	3.70	3.20	3.85	5.25	3.522
July	7.57	7.33	4.82	5.75	2.00	3.25	3.70	5.20	1.60	6.50	4.192
August	1.73	3.10	6.18	6.00	6.05	4.35	3.60	6.50	7.40	5.72	5.063
September.....	3.05	3.34	9.48	4.08	4.85	4.40	5.70	3.85	6.00	3.50	4.825
October.....	8.23	6.20	6.70	8.00	7.80	3.50	2.50	6.50	4.90	3.60	5.793
November.....	2.82	1.35	5.65	2.80	5.20	6.15	2.80	8.30	3.00	2.10	4.017
December.....	2.64	4.85	4.50	2.55	4.25	2.90	6.30	3.50	2.10	2.60	3.619
TOTALS	35.08	42.56	65.17	43.75	47.45	42.55	45.08	55.17	45.55	39.67	46.203

RAINFALL AT *Dirkby Lonsdale*

80

Lat. _____

Lon. _____

County of _____

Westmoreland

Rain Gauge, by _____

Observer _____

Mr. W. Harrison

June - 4

N. 1881-1915 47.5

Diameter	<i>5</i>											
Height	<i>1.2</i>											
Altitude	<i>209</i>											
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January	<i>1.50</i>	<i>2.00</i>	<i>4.50</i>	<i>6.20</i>		<i>2.80</i>	<i>4.30</i>	<i>3.00</i>	<i>2.00</i>	<i>3.00</i>		
February	<i>3.70</i>	<i>5.60</i>	<i>4.25</i>	<i>3.00</i>		<i>3.00</i>	<i>1.50</i>	<i>2.75</i>	<i>1.25</i>	<i>2.50</i>		
March	<i>3.40</i>	<i>4.81</i>	<i>5.20</i>	<i>1.25</i>		<i>3.40</i>	<i>3.00</i>	<i>2.15</i>	<i>2.60</i>	<i>4.20</i>		
April	<i>1.65</i>	<i>1.92</i>	<i>4.50</i>	<i>2.50</i>		<i>2.50</i>	<i>4.50</i>	<i>2.10</i>	<i>2.75</i>	<i>2.00</i>		
May	<i>2.70</i>	<i>4.20</i>	<i>2.00</i>	<i>2.00</i>		<i>1.65</i>	<i>4.50</i>	<i>2.25</i>	<i>2.00</i>	<i>3.00</i>		
June	<i>4.00</i>	<i>4.75</i>	<i>6.08</i>	<i>5.00</i>		<i>3.00</i>	<i>2.00</i>	<i>2.30</i>	<i>2.50</i>	<i>1.00</i>		
July	<i>5.50</i>	<i>6.82</i>	<i>8.00</i>	<i>2.60</i>		<i>2.70</i>	<i>6.50</i>	<i>2.50</i>	<i>6.00</i>	<i>3.60</i>		
August	<i>2.80</i>	<i>6.80</i>	<i>4.10</i>	<i>4.00</i>		<i>3.00</i>	<i>2.25</i>	<i>1.90</i>	<i>4.00</i>	<i>7.50</i>		
September	<i>4.00</i>	<i>3.30</i>	<i>2.50</i>	<i>5.00</i>		<i>5.80</i>	<i>6.00</i>	<i>4.50</i>	<i>6.00</i>	<i>3.00</i>		
October	<i>2.10</i>	<i>3.30</i>	<i>4.50</i>	<i>6.50</i>		<i>3.75</i>	<i>5.00</i>	<i>1.25</i>	<i>3.25</i>	<i>4.50</i>		
November	<i>7.00</i>	<i>5.50</i>	<i>6.70</i>	<i>5.20</i>		<i>2.50</i>	<i>4.50</i>	<i>3.50</i>	<i>5.30</i>	<i>2.50</i>		
December	<i>8.00</i>	<i>5.47</i>	<i>4.30</i>	<i>5.20</i>		<i>2.25</i>	<i>5.60</i>	<i>3.70</i>	<i>2.70</i>	<i>3.00</i>		
TOTALS	<i>46.35</i>	<i>54.47</i>	<i>56.69</i>	<i>48.45</i>		<i>36.35</i>	<i>49.65</i>	<i>32.00</i>	<i>40.35</i>	<i>39.80</i>		

RAINFALL AT Kirkby Lonsdale

Lat. _____

Lon. _____

County of Westmoreland

Rain Gauge, by _____

Observer J. R. Picard Esq

June 4,

Diameter									7		
Height									8		
Altitude										215	
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January								# .92	6.04	7.10	
February								4.39	5.17	2.78	
March								7.08	1.76	2.39	
April								3.00	3.76	4.16	
May								2.35	2.42	3.55	
June								4.04	3.40	1.48	
July								2.38	1.60	2.76	
August								6.60	8.74	1.96	
September...								4.81	2.36	6.23	
October.....								2.28	4.43	4.02	
November...								5.25	4.89	4.02	
December								7.10	6.09	3.85	
TOTALS . . .								50.20	50.66	44.30	

1899 Kirkby Lonsdale Church 150 yards NE

RAINFALL AT Kirkby Lonsdale

Lat.

Lon.

County of Westmoreland

Cylindric Rain Gauge, by Cassell

Observer J. R. Picard Esq

June - 14.

Diameter ..	7										
Height	0 8										
Altitude ..	2157										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	4.55	2.58	3.70	7.10	4.91	3.26	7.58	2.49	5.95	2.88	4.500
February ..	3.98	1.38	1.46	5.24	4.04	3.56	3.46	2.68	3.40	3.01	3.221
March ....	.40	3.86	2.77	5.07	3.61	3.21	4.76	5.43	3.70	3.05	3.586
April	3.76	2.66	1.69	2.12	4.84	4.28	1.95	1.95	2.67	4.07	2.999
May	2.74	1.18	2.89	3.03	3.58	1.61	7.47	4.45	3.60	2.23	3.278
June	3.39	2.51	1.10	2.50	1.97	2.54	3.81	9.20	3.60	2.70	3.332
July	3.04	1.61	5.45	5.56	1.82	2.68	3.10	4.60	5.07	8.18	4.111
August	5.33	4.33	2.96	9.38	3.74	6.59	6.18	5.82	5.06	5.40	5.479
September ..	3.26	2.21	1.49	7.53	2.26	4.63	1.62	1.03	7.42	3.92	3.537
October	9.26	5.07	3.56	10.61	3.05	3.65	7.70	4.84	2.52	7.01	5.727
November ..	5.29	5.66	2.73	3.21	4.85	4.79	5.29	4.72	3.92	2.88	4.334
December ..	7.86	5.77	3.68	3.81	4.60	2.06	3.59	6.61	4.16	8.49	5.063
TOTALS ..	52.86	38.82	33.48	65.16	43.27	42.86	56.51	53.82	51.07	53.82	49.167

1900 Kirkby Lonsdale Church 150 yards NE

Wall 5' 6" high 12 ft W

Kirkby Lonsdale Station 1 1/2 miles SE

1905 Open on all sides except on the W where there is a Wall 5' 6" high 12 ft do

Hutch

RAINFALL at

Kirkby Lonsdale

10
3725

County of Westmorland

Observer

J.R. P. C. L. G.

River Basin

Lune 4

Gaffer

Rain Gauge, by Baella

Diameter ...	7										
Height	0 8										
Altitude ...	215 T										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	6.93	2.21	2.96	4.50	5.36	7.12	5.74	2.93	4.45	6.35	
February ...	7.07	6.89	2.42	2.80	4.01	5.43	4.44	1.63	6.51	1.59	
March	1.09	1.90	6.06	5.44	5.22	2.12	2.01	2.78	2.21	4.93	
April	2.15	4.32	1.28	4.73	1.20	3.00	3.51	2.10	1.44	2.22	
May	2.58	2.81	2.87	2.67	3.05	1.19	3.68	2.03	1.86	1.55	
June	2.50	3.75	7.77	3.49	1.37	91	3.24	3.24	2.33	1.59	
July	5.61	.50	5.34	.98	3.96	5.25	3.61	2.50	6.34	1.72	
August	7.73	4.88	6.18	3.27	3.90	4.57	5.95	9.52	5.10	4.55	
September ..	.55	4.39	2.00	3.68	4.45	.73	2.90	5.65	11.47	4.65	
October ...	2.88	5.74	5.86	2.71	2.31	1.14	9.99	7.09	6.60	2.60	
November ..	4.19	7.00	6.38	5.68	7.45	2.69	3.80	4.72	3.24	2.61	
December...	4.78	6.71	5.91	4.05	5.67	6.77	4.25	2.74	8.67	6.42	
TOTALS ...	48.06	51.10	55.03	44.00	47.98	40.92	53.12	46.93	60.22	40.78	

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911	54.12.	2.37.	Kirkby Lonsdale	1 1/2 mi	SE	K. Lonsdale	150 yds	N.E.

RAINFALL at Hirby LonsdaleCounty of WestmorlandObserver J. R. Picard EsqRiver Basin Lune 4Gauger Shawdon Rain Gauge, by Basella

Diameter ...	7											
Height	0	3								1	0	
Altitude ...	215											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930.	MEANS.
January ...	5.98	9.05	4.19	4.75	4.56	3.55	5.40	5.31	11.44	2.04	7.94	
February ...	5.40	1.7	4.98	4.79	7.4	5.94	7.28	3.33	6.56	1.09	3.8	
March	5.20	6.02	3.03	1.17	1.92	1.35	2.37	3.75	2.72	1.62	3.21	
April	4.66	1.25	1.65	3.49	1.96	3.86	1.37	3.30	1.66	2.06	2.26	
May	7.03	3.73	3.30	3.69	7.33	4.83	3.03	2.38	5.58	2.35	1.77	
June	2.46	4.3	3.99	1.06	3.90	4.3	3.23	4.21	8.72	2.17	3.37	
July	7.96	1.79	6.84	4.71	5.03	2.93	4.57	4.27	7.13	4.44	5.09	
August	2.90	8.32	5.67	7.06	5.12	6.00	4.93	7.12	8.48	8.17	7.14	
September...	3.13	2.75	4.05	6.08	5.72	4.33	5.95	7.52	3.62	2.46	2.42	
October	1.13	3.51	.92	8.35	5.40	5.11	3.71	5.40	6.13	6.83	7.32	
November...	3.16	2.85	2.97	7.85	4.95	2.09	6.00	6.33	7.35	8.48	5.77	
December...	4.05	8.31	5.83	4.72	6.94	3.96	1.45	.97	3.95	7.71	3.70	
TOTALS...	53.08	48.18	47.42	58.22	53.27	44.43	49.29	53.89	68.34	49.42	50.37	

1924. Situation quite open, except on the W. where there is a wall 8' 6" high, 12 ft. distant.

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
1911	54° 12'	2° 37'	Hirby Lonsdale	1 1/2 mi	SE	H. Lonsdale	150 yds	NE

RAINFALL at Kirkby Lonsdale,County of Westmorland Observer J. R. Picard, Esq.,River Basin Lune - 4Type of Gauge ShawdonAnnual Average 46.1 in. based on 32 years obs. un-weighted. Period of average 1881-1915 Ref. 3

Diameter	7.											
Height	1.0.											
Altitude	215.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	4.66	6.20										
February	5.42	.07										
March	.83	3.34										
April	3.24	3.34										
May	1.70	4.52										
June	6.94	1.78										
July	6.60	6.70										
August	3.82	1.48										
September	1.64	5.95										
October	4.30	6.83										
November	7.30	3.89										
December	4.30	4.00										
TOTALS	50.75	48.10										

1931. Situation quite open, except on W. where there is a wall 8'6" high 12' distant.
 Observer died 7/10/33. Hence close observations discontinued

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

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1931.			Kirkby Lonsdale	134m	E.	Kirkby Lonsdale	150yds.	E