

Met 0 8b 10-YEAR SUMMARY SHEETS

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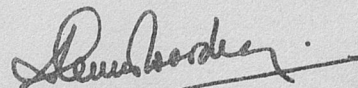
ENTRIES

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4. Every attempt should be made to ensure that any follow-up action is adequately cross-referenced to a previous entry.
5. Retrospectively effective comments MUST be entered on the station's 10-year sheets for all relevant previous decades, not just on the latest decade's sheet.

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Head of Hydrometeorological  
Data Systems

KEEP as top enclosure of each binder



# Rainfall at Whitbeck, Cumberland.

60

Rev<sup>d</sup> J. Ormandy

Diameter of Gauge, ..2..... in.

Height above Ground, ..... ft. 12... in.

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

YEAR - -					1864	1865	1866	1867	1868	1869	MEANS.
January - -					#3.26	4.50	6.95	4.31	3.53	6.75	
February - -					3.26	3.97	3.70	2.94	3.25	4.24	
March - - -					4.36	2.31	3.01	1.47	4.72	1.16	
April - - -					2.87	.83	1.73	4.21	3.44	2.73	
May - - - -					1.99	6.15	1.47	2.38	2.21	4.53	
June - - - -					3.72	.66	3.64	.94	.55	1.52	
July - - - -					2.52	2.32	2.46	4.32	.45	1.43	
August - - -					4.03	5.08	6.00	4.08	4.62	2.57	
September -					4.82	1.68	7.20	3.88	2.05	9.45	
October - - -					3.17	6.52	2.34	4.97	5.98	3.50	
November -					5.06	4.46	7.01	1.16	3.28	4.38	
December -					3.72	2.82	4.37	4.44	10.60	4.26	
TOTALS -					42.78	41.38	49.88	39.10	44.68	46.52	

c c c c c c

1868 Oct. 28<sup>th</sup> 1.00



M<sup>rs</sup> Ar<sup>th</sup> Wilkins

12 68

1 5 68

86 68

Diameter of Gauge, 8 in.

Height above Ground, ..... ft. 10 in.

Above Mean Sea Level, 87 ft.

YEAR - -			1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -			# 6.37	3.51	5.91	7.30	5.00	3.95	6.33	
February - -			1.53	3.09	3.67	3.97	3.34	3.25	4.28	
March - - -			1.79	3.87	2.43	4.33	1.70	4.80	1.15	
April - - -			2.35	2.43	.76	1.74	4.39	3.78	2.61	
May - - - -				1.76	5.84	1.39	2.03	2.32	2.42	
June - - - -			8.32	3.63	.64	3.27	.88	.66	.65	
July - - - -			1.34	2.71	2.21	2.24	4.58	.34	1.60	
August - - -			4.89	4.28	5.49	6.39	3.55	4.60	2.30	
September -			5.38	4.66	1.96	8.26	4.27	2.41	8.43	
October - -			6.20	3.29	6.47	2.48	5.63	6.06	3.77	
November -			5.52	5.91	6.09	6.42	1.01	3.55	4.46	
December -			3.85	4.08	2.97	4.35	4.23	10.04	4.05	
TOTALS -			47.54	43.22	44.44	52.14	40.61	45.76	42.05	

c c c c c c c c

In open garden away from walls or trees



Rainfall at Braystones nr Whitehaven 60

Jm: Dalton Watson

Diameter of Gauge, ...10..... in.      Height above Ground, 2... ft. 8... in.      Above Mean Sea Level, 36..... ft.

YEAR - -					1864	1865	1866	1867	1868	1869	MEANS.
January - -				#	2.89	3.02	6.60	3.00	3.03	5.92	
February - -					1.35	2.62	3.17	2.10	3.45	3.68	
March - - -					2.94	1.76	2.59	1.06	4.55	.82	
April - - - -					1.99	.36	1.00	3.45	2.52	2.82	
May - - - - -					1.72	5.03	1.29	1.30	2.19	1.90	
June - - - - -					2.88	.54	2.14	.96	.65	1.43	
July - - - - -					1.72	2.80	2.43	3.03	.39	1.85	
August - - -					3.20	3.53	5.15	4.72	2.75	2.37	
September -					4.81	1.56	5.39	3.65	1.79	7.99	
October - -					2.34	4.59	1.91	5.45	5.49	3.58	
November -					4.72	3.95	5.35	.76	1.99	4.64	
December -					4.46	3.44	3.70	3.76	6.85	3.77	
TOTALS -					35.02	33.20	40.80	33.24	35.65	40.77	

✓ c c c c c c c



Rainfall at Scaupell Pike

60

Highest point in England  
J Fletcher Esq.

Diameter of Gauge, ..... in.

Height above Ground, ..... ft. 6 in.

Above Mean Sea Level, 3,200 ft.

YEAR - -					1864	1865	1866	1867	1868	1869	MEANS.
January - -					6.31		4.40	7.65	6.20	7.87	
February - -								3.20	7.56		
March - - -					8.66		9.60		9.60		
April - - -						0.57		7.37	6.65		
May - - - -					2.36	0.22	5.18	3.55	3.16	2.51	
June - - - -					9.22	.00	4.20	3.84	2.25	2.09	
July - - - -					2.57	5.50	6.62	6.20	2.31	4.05	
August - - -					5.90	9.41	8.21	8.30	10.14	4.05	
September -					12.81	2.42	9.65	7.62	3.66	10.88	
October - -					6.22	1.07	4.44	4.38	5.59	7.10	
November -					5.65	5.65			4.34		
December -					13.50	7.54	16.36	7.84	9.31	10.07	
TOTALS -					73.20	49.12	68.66	59.95	70.77	59.06	

✓ c c c c c c

1864 measured monthly

1869 Oct. some ice



# Great End

I Blotcher

4 in + ground 6 in

+ Sea Level 2982 ft

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -						#	6.00	8.92	6.86	8.24	
February - -							frozen	3.55	8.30	frozen	
March - - -							13.20	frozen	10.26	"	
April - - - -						11.13	frozen	13.45	6.90	11.73	
May - - - -						10.63	5.37	3.06	3.75	1.72	
June - - - -						.74	4.56	3.51	2.55	2.27	
July - - - -						6.35	7.14	6.68	2.70	4.20	
August - - -						10.20	8.72	10.74	8.20	4.26	
September -						6.15	10.91	10.37	3.88	13.30	
October - -						2.98	5.30	5.02	6.02*	7.66	
November -						2.92	frozen	frozen	5.78	frozen	
December -						8.42	17.73	8.85	10.43	10.61	
TOTALS -						59.52	78.93	74.15	75.63	63.99	

C C C C C

1869 Oct. some ice



# Rainfall at Wastdale Head

60

*J Fletcher Esq.*

Diameter of Gauge, 4..... in.

Height above Ground, ..... ft. 6 in.

Above Mean Sea Level, 247... ft.

YEAR - -	1864	1865	1866	1867	1868	1869	MEANS.
January - -	6.05	8.30	12.93	9.86	6.17	10.85	
February - -	5.00	6.76	<del>7.14</del> <sup>8.87</sup>	9.20	10.53	11.75	
March - - -	7.39	4.66	8.15	4.27	16.48	2.06	
April - - -	3.28	2.86	3.31	10.12	7.08	7.70	
May - - - -	4.33	9.19	2.27	4.43	4.10	4.18	
June - - - -	7.42	1.07	5.38	2.92	2.53	4.76	
July - - - -	6.00	5.00	8.17	9.18	2.67	4.90	
August - - -	9.80	10.33	10.15	10.83	9.78	4.75	
September -	9.50	5.96	11.44	9.22	3.72	14.72	
October - -	5.46	8.47	5.64	8.53	10.90	9.47	
November -	9.02	8.04	15.60	2.89	5.92	16.86	
December -	13.53	5.09	12.40	9.34	15.50	9.00	
TOTALS -	86.78	75.73	<del>102.52</del>	90.79	95.38	101.00	

104.31

✓ c c c c c c

1866 Feb. 7.14 is the fall at Inosedale, the above entry of 8.87

is correct according to Wilson's original return to Mr. Fletcher. G.H.

1867 - Agrees with ppt by S. Marshall



# Brant Nigg

60

J. Sletcher Esq.

655 68

6 in + ground 6 in

+ Sea Level 695 ft

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -					7.10	6.97	11.25	9.16	5.12	10.12	
February - -					4.96	5.51	4.22	7.23	8.18	9.45	
March - - -					7.06	3.76	11.41	3.24	12.30	2.04	
April - - -					2.80	2.30	2.95	0.69	7.00	6.52	
May - - -					3.43	9.40	2.88	4.85	3.48	3.67	
June - - -					6.42	.78	4.53	2.55	2.06	4.21	
July - - -					3.65	4.10	6.88	7.53	2.14	4.10	
August - -					6.00	0.91	8.60	8.02	9.30	4.06	
September -					8.80	4.41	10.86	7.10	4.45	13.10	
October - -					5.31	10.33	4.03	7.54	8.07	9.34	
November -					8.78	7.30	11.25	frozen	4.83	10.40	
December -					11.90	4.50	10.77	9.90	13.85	10.31	
TOTALS -					76.21	68.27	89.63	75.81	80.78	87.32	

c c c c c c

1867 Agrees with ppt by S. Marshall



Rainfall at Sprinkling Tarn.

60

I Fletcher Esq.

Diameter of Gauge, ..... in.      Height above Ground, ..... ft. 6 in.      Above Mean Sea Level, 1985 ft.

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -					11.73	frozen	16.80	13.62	10.04	17.35	
February - -						11.59	frozen	10.40	13.86	7.83	
March - - -					13.92	6.72	18.45	3.70	18.98	frozen	
April - - -						3.39	3.58	14.44	9.14	22.60	
May - - - -					4.52	16.32	5.95	5.18	6.45	3.34	
June - - - -					11.45	1.12	8.11	4.42	4.26	5.28	
July - - - -					9.41	8.15	10.22	12.08	3.60	8.98	
August - - -					12.20	13.36	14.32	14.49	14.46	4.49	
September -					17.82	9.12	19.80	14.44	5.27	20.42	
October - - -					6.62	12.60	8.53	12.94	15.26	9.45	
November - -					11.61	12.20	17.27	frozen	7.73	frozen	
December - -					20.24	9.27	16.44	11.89	17.76	27.21	
TOTALS - -					119.52	103.84	139.47	117.60	126.81	126.95	

139.36  
c c c c c c

Taken monthly

1866. Nov. 17.27 is the fall at Sty Head Tarn, 17.16 is correct according to Wilson's original report to W.F. GF



Rainfall at Stye Head Tarn

60

*Sketcher*

Diameter of Gauge, 4 in.      Height above Ground, 6 ft.      Above Mean Sea Level, 1472 ft.

YEAR - -					1864	1865	1866	1867	1868	1869	MEANS.
January - -					<sup>*</sup> 13.10	<i>frozen</i>	17.11	14.46	9.94	18.07	
February - -					5.52	15.25	<i>frozen</i>	12.79	14.31	13.30	
March - - -					6.27	5.50	20.65	5.59	21.10	3.93	
April - - -					2.85	2.79	4.12	15.31	9.86	10.26	
May - - - -					4.20	14.33	4.58	5.59	6.41	3.33	
June - - - -					10.23	1.08	7.15	4.80	3.65	5.60	
July - - - -					6.50	7.30	10.11	11.63	3.44	8.44	
August - - -					10.32	12.63	12.50	15.35	14.28	5.42	
September -					13.40	8.49	17.44	12.40	5.33	20.55	
October - -					6.40	11.14	7.25	15.02	14.62	11.94	
November -					13.30	11.64	17.27	<i>frozen</i>	7.21	14.16	
December -					16.64	9.62	16.88	15.41	20.56	18.70	
TOTALS -					108.73	99.05	135.06	128.35	130.71	133.70	

*c c c c c c*

*Monthly*



The Stye

J Fletcher

+ ground 6 in

+ Sea Level 1077 ft

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -						* Frozen 34.12	21.82	17.75	25.09		
February - -						26.30	16.20	24.32	27.90	30.68	
March - - -						11.35	18.39	10.05	35.34	3.25	
April - - -						4.40	5.90	22.86	13.34	14.67	
May - - -						22.31	6.80	6.59	8.57	3.39	
June - - -						1.52	8.25	6.48	5.73	5.94	
July - - -						11.39	14.98	15.11	4.40	13.14	
August - -						14.88	17.30	20.05	17.46	6.09	
September -						11.06	22.62	15.00	7.24	31.27	
October - -						12.59	15.21	19.54	24.76	15.87	
November -						17.79	32.65	frozen	14.22	21.80	
December -						15.48	32.14	22.89	30.78	27.00	
TOTALS -						149.07	224.56	184.71	207.49	198.19	

c c c c c



RAINFALL AT Bromfield

60

J Fletcher Esq. Taylor's Gill

Rain { By .....  
Gauge { Diameter.....4.....in.

Height above Ground, ..... ft. 6... in.

Above Mean Sea Level, 107.7 ft.

YEAR .....								1867	1868	1869	MEANS.
January .....								<sup>4</sup> 18.10	14.37	21.20	
February .....								19.85	21.30	24.48	
March .....								8.96	33.43	4.18	
April .....								19.80	12.40	13.05	
May .....								6.16	7.78	3.20	
June .....								6.05	4.23	5.68	
July .....								13.54	4.05	12.84	
August .....								18.80	15.83	5.97	
September ...								15.24	6.92	27.15	
October .....								16.80	21.23	14.77	
November ...								<del>8.00</del>	11.45	19.80	
December .....								20.40	25.18	26.75	
TOTALS .....								163.70	178.17	179.07	

c c c



Mosedale

J Fletcher

+ Ground bin

+ Sea Level 624

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -						<del>10.27</del> 9.12					
February - -						10.27	7.14				
March - - -						3.41	6.88				
April - - - -						1.19	3.25				
May - - - - -						6.09	4.08				
June - - - - -						.71	5.00				
July - - - - -						3.05	7.21				
August - - -						7.53	10.36				
September -						2.54	13.86				
October - -						7.07	6.92				
November -						5.81	18.80				
December -						3.44	15.45				
TOTALS -						51.11	108.07				

C C



# RAINFALL AT St Bees Cumberland

Observer... W. G. Hughes .....

Rain { By.....

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

Height above Ground,.....1..ft..6..in.

Above Mean Sea Level...100..ft.

YEAR.....							1866	1867	1868	1869	MEANS.
January.....								6.19	3.46	7.75	
February .....								3.62	4.21	3.55	
March .....								2.08	4.80	.68	
April .....								4.93	2.44	2.39	
May .....								.96	3.24	2.80	
June.....								1.07	.22	.53	
July .....								3.08	.20	1.20	
August.....								4.16	2.69	1.84	
September.....								2.75	1.24	5.43	
October .....								6.25	3.48	3.12	
November.....							#6.12	.92	2.84	5.20	
December.....							4.72	4.20	9.92	2.69	
TOTALS .....								40.21	38.74	37.18	

c c c c

From 18 yd. form

The SE is the prevailing wind during winter

Gauge in garden sloping towards W, a wall 5 ft. h in high  
about 15 ft. off on SE side



# Seathwaite in Borrowdale

60

Fletcher

Mr Dixon

Myself Nov 78,

1 ft 6 1/2

Diam

+ Ground 10 in 5 + Sea Level 380 ft

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	23.79	9.00	16.78	20.65	13.23	13.84	25.99	15.66	13.54	17.43	17.079
February - -	9.23	10.27	5.50	14.25	10.11	10.94	19.17	17.05	19.90	23.13	14.755
March - - -	17.15	26.08	10.30	8.31	12.14	6.44	13.05	8.32	27.24	3.21	13.224
April - - -	5.04	1.82	17.26	10.94	3.04	4.31	5.97	16.92	8.95	10.26	8.351
May - - - -	9.80	4.61	8.28	13.30	4.53	16.72	5.06	5.25	6.98	3.16	7.769
June - - - -	15.07	7.70	15.62	11.01	11.62	1.25	6.57	4.90	3.47	5.13	8.314
July - - - -	3.21	14.50	13.67	2.82	7.57	7.00	11.18	10.43	2.32	8.30	8.108
August - - -	13.91	25.20	12.81	9.79	9.72	13.06	12.69	13.05	13.70	4.51	12.844
September -	6.68	17.42	6.38	25.03	16.55	7.19	21.35	12.47	5.77	24.09	14.293
October - -	23.70	9.07	32.13	14.86	6.37	11.78	9.62	13.67	18.30	9.95	14.945
November -	4.76	35.41	5.14	24.75	16.10	13.83	23.08	2.55	9.43	23.19	15.824
December -	9.06	13.62	26.16	18.13	23.69	11.05	25.39	13.04	27.51	17.75	18.540
TOTALS -	142.20	182.50	170.03	173.84	131.67	117.49	179.12	133.31	157.11	150.11	154.046

1861 Dec. is stated by Mr Dixon to be 13.672 but a paper written by you says 13.62

Found to be about 2% too big (Manchester Water 1919)



# Seathwaite Monthly Gauge

60

J Fletcher

4 in + ground 6 in + sea level 422 ft

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -						12.44	24.86	10.40	12.24	15.57	
February - -						10.19	17.61	14.75	17.84	22.04	
March - - -						6.33	12.15	7.64	22.07	3.00	
April - - - -						3.35	5.50	15.49	7.47	8.14	
May - - - - -						15.33	14.45	4.41	6.44	2.80	
June - - - - -						1.10	6.47	4.02	3.26	5.17	
July - - - - -						6.64	10.72	9.70	2.25	8.50	
August - - -						11.96	11.24	13.03	13.05	3.35	
September -						6.97	20.28	11.75	5.34	21.51	
October - - -						9.48	9.06	12.48	15.63	8.40	
November -						12.49	21.40	2.04	8.46	20.14	
December -						10.33	22.97	10.25	24.28	14.41	
TOTALS -						106.61	166.71	115.96	138.33	133.03	

c c c c c



# RAINFALL AT Seathwaite

S. Abberley

Rain { By .....  
Gauge { Diameter.....8.....in.

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

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

YEAR .....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January .....								16.00	15.25	17.50	
February .....								14.50	15.50	24.50	
March .....								7.50	24.75	2.00	
April .....								16.50	8.50	9.00	
May .....								4.50	5.50	2.75	
June .....								4.00	2.75	4.50	
July .....								9.75	1.75	8.00	
August .....								12.25	13.00	3.50	
September ...							#	8.50	11.50	4.75	22.00
October .....								10.00	12.50	18.50	8.25
November ...								19.75	2.75	7.00	21.25
December .....								23.50	10.75	25.25	16.75
TOTALS.....								122.50	142.50	140.00	

c c c c

1869 Nov. a great many hail storms which the flock catches more than the small one



Rainfall at Stonthwaite, Borrowdale

60

J. Fletcher Esq.<sup>r</sup> F.R.S.

Diameter of Gauge, ..... in.

Height above Ground, ..... ft. 6 in.

Above Mean Sea Level, 230 ft.

YEAR - -					1864	1865	1866	1867	1868	1869	MEANS.
January - -					<sup>0</sup> 10.16	9.45	19.09	8.65	9.42	14.57	
February - -					6.35	6.51	14.54	11.52	17.52	19.81	
March - - -					9.16	4.44	7.92	6.75	18.29	1.56	
April - - -					2.33	2.30	4.84	12.07	6.19	5.49	
May - - - -					2.86	13.40	3.40	2.04	5.03	2.96	
June - - - -					9.18	1.02	5.70	3.84	2.06	4.04	
July - - - -					5.84	4.50	5.60	8.30	1.10	6.04	
August - - -					4.60	9.26	10.86	6.83	11.72	3.29	
September -					13.65	3.60	17.83	9.85	4.47	20.03	
October - - -					3.25	9.20	7.69	10.97	14.37	6.04	
November -					12.43	11.24	14.04	1.71	7.64	18.03	
December -					20.95	9.05	19.60	7.14	21.68	12.86 <sup>#</sup>	
TOTALS -					100.76	84.13	131.11	91.27	119.49	114.72	

c c c c c c



Esk. House

I Fletcher

+ ground 6 in

+ Sea level 2550 ft

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -						# frozen 7.66	11.08	9.08	13.48		
February - -						" { frozen 6.24	9.18	{ frozen			
March - - -						" { 8.21	13.76	12.22			
April - - - -						12.20 { frozen	8.17	16.72			
May - - - -						8.16 { 6.10	4.32	5.56	2.46		
June - - - -						1.28	7.00	3.34	2.98	4.68	
July - - - -						5.54	9.60	11.20	2.76	6.17	
August - - -						10.73	11.70	12.75	11.76	4.67	
September -						5.26	12.54	10.48	4.49	15.57	
October - -						9.59	4.10	9.90	10.86	8.87	
November -						5.69	13.26	frozen	5.82	frozen	
December -						3.08	10.96	12.44	9.20	17.13	
TOTALS -						61.53	91.13	95.51	92.08	89.75	

c c c c c



# RAINFALL AT Wylburn Passage *Rev B. R. Lawson*

60

Rain { By .....  
 Gauge { Diameter.....*2*.....in.

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

Above Mean Sea Level, *574* ft.

YEAR .....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January .....								10.50	15.00	13.75	
February .....								8.25	12.50	17.50	
March .....								6.00	15.50	1.00	
April .....								10.63	6.37	5.00	
May .....								3.87	4.50	3.50	
June .....								2.50	2.00	2.75	
July .....								7.25	3.87	4.75	
August .....								7.00	12.00	2.00	
September ...								10.00	8.00	4.50	20.25
October .....								5.88	10.75	12.75	5.00
November ...								12.88	1.75	7.25	12.75
December .....								17.25	5.75	23.00	15.25
TOTALS .....								82.25	115.75	103.50	

*c c c c*



# The Flock

w<sup>th</sup> Whitlaver  
J. Anisworth Esq<sup>r</sup>

60

112 69

From 5 in + ground  $\frac{1.6}{2.0}$  in '66 + Sea Level 240 feet  
209 ft 66

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	7.67	3.11	5.08	6.34	3.37	4.67	8.46	4.43	3.67	7.62	
February - -	2.65	4.44	1.12	2.59	2.04	3.99	4.80	3.35	5.13	4.78	
March - - -	5.03	6.49	3.34	1.90	3.88	2.43	4.76	1.63	7.12	1.41	
April - - - -	2.53	.77	5.41	2.91	3.02	.81	1.17	4.54	3.13	3.88	
May - - - -	3.66	1.34	5.23	4.05	2.56	6.33	1.80	1.70	3.41	2.04	
June - - - -	<del>4.63</del> <del>6.69</del>	4.41	4.20	3.98	3.67	.77	2.53	1.64	1.26	1.52	
July - - - -	2.23	5.26	3.85	1.25	2.03	2.98	5.43	3.48	.81	2.25	
August - - -	6.65	7.38	5.15	4.08	5.51	5.38	4.91	6.60	4.11	2.52	
September -	2.03	4.83	2.42	6.33	6.90	2.86	8.02	3.59	1.74	9.63	
October - -	9.12	3.05	8.78	6.51	2.63	4.32	2.53	6.06	6.23	4.10	
November -	2.02	8.78	1.76	6.97	5.40	5.28	<del>7.03</del> <del>6.43</del>	.44	1.91	6.19	
December -	5.61	4.52	6.97	3.64	7.14	4.32	5.38	5.28	8.87	4.93	
TOTALS -	<del>53.82</del> 54.38	54.38	53.31	50.55	48.15	44.14	56.82	42.74	47.39	50.87	50.21

c c c c c c c c c c c

Gauge on open lawn

1868 Copied from Pub. of Mr S. A. Marshall

Redink corrections from Stephen Marshall xii '98. Enr<sup>d</sup> 30.xi.08



RAINFALL AT Whithaven

60

Willgrove 2 m N of Wh.

Monthly

Rain { By .....  
Gauge { Glaisher .....  
Diameter.....8.....in.

Height above Ground, 2. ft. .... in.

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

YEAR.....							1866	1867	1868	1869	MEANS.
January .....						#	8.00	4.09	3.96	6.78	
February .....							3.83	1.90	5.63	4.84	
March .....							3.86	1.31	3.42	1.19	
April .....							.72	3.65	2.88	2.15	
May .....							1.80	1.76	2.83	1.99	
June.....							2.53	2.08	.94	1.35	
July .....							3.52	1.59	.55	2.66	
August.....							10.09	3.11	3.45	2.14	
September ...								6.91	2.16	7.92	
October.....							4.79	4.71	6.50	3.91	
November.....							3.92	1.09	1.43	3.91	
December.....							3.94	3.80	0.13	4.79	
TOTALS .....							47.00	36.00	41.88	43.63	

c c c c

Orather sheltered by trees but it is hoped not injuriously -



# RAINFALL AT

Watendlaath Cumberland **60**  
*Wilson Green*

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

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

Above Mean Sea Level, 867 ft.

YEAR .....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January .....								10.00	14.10	12.00	
February .....								8.00	10.75	16.50	
March .....								5.25	13.00	1.00	
April .....								11.00	5.80	4.00	
May .....								3.75	3.75	1.70	
June .....								2.45	1.75	2.60	
July .....								7.40	.89	4.50	
August .....								6.50	10.25	2.50	
September ...								12.00	6.88	3.70	17.25
October .....								6.50	9.75	12.00	5.25
November ...								11.25	1.00	5.50	11.70
December .....								15.25	5.63	17.75	12.00
TOTALS.....								77.61	99.24	91.00	

C C C C



# RAINFALL AT Waterend in Loweswater Cumberland

60

Observer R. Jackson

Rain { By Basella

Gauge { Diameter 5 in.

Height above Ground, 0 ft. 9 in.

Above Mean Sea Level 432 ft.

YEAR.....									1868	1869	MEANS.
January.....										6.35	
February .....										7.52	
March .....										1.01	
April.....										3.32	
May .....										2.69	
June.....										1.94	
July .....										2.62	
August.....										2.54	
September.....								#	2.44	8.12	
October .....									7.34	5.25	
November.....									2.51	7.68	
December.....									9.80	6.40	
TOTALS .....										55.44	

C C

G. in kitchen garden 2 ft from edge of a terrace wall about 4 ft high.



# RAINFALL AT Derwentwater Island H C Marshall Keswick

60

Rain } By .....  
Gauge } Diameter.....2.....in. Height above Ground, 1..... ft. .... in. Above Mean Sea Level, ...280 ft.

YEAR .....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEAN.
January .....						<sup>R</sup> 5.20	11.35	6.27	7.50	8.19	
February .....						3.46	5.91	5.01	5.23	8.48	
March .....						2.33	5.28	3.23	7.92	.62	
April .....						.64	2.63	6.29	3.95	2.20	
May .....						7.94	1.63	3.07	3.15	2.18	
June .....						.80	3.24	1.98	1.49	2.67	
July .....						3.28	5.43	5.69	.61	2.46	
August .....						5.47	7.12	3.26	6.35	2.24	
September ...						2.03	9.83	4.93	3.25	11.49	
October .....						6.06	3.23	5.96	6.44	3.20	
November ...						5.97	7.06	7.0	3.73	6.37	
December .....						6.05	7.74	3.67	12.67	9.55	
TOTALS.....						49.23	70.45	50.06	62.29	59.65	

c c c c c

It is on pleasure ground sheltered by trees near but not close to it.



RAINFALL AT Keswick

Observer..... Brothwaite

Rain { By.....  
Gauge { Diameter..... 5.....in. Height above Ground,.....ft.....in. Above Mean Sea Level.....ft.

YEAR.....						1865	1866	1867	1868	1869	MEANS.
January.....						#	10.70	5.96	9.95	8.82	
February .....							6.84	5.72	7.37	12.29	
March .....							4.95	3.51	7.59	.64	
April.....							3.45	7.17	3.88	2.38	
May .....						7.07	1.03	2.89	2.82	2.19	
June.....						71	2.44	1.74	1.09	2.63	
July .....						3.15	5.20	6.17	.35	2.45	
August.....						5.20	7.09	2.59	7.14	2.24	
September.....						1.93	7.95	4.35	3.26	12.95	
October.....						6.68	3.57	6.39	5.36	3.91	
November.....						6.57	8.97	.92	2.72	10.90	
December.....						7.02	9.22	4.79	14.11	8.99	
TOTALS .....							71.41	52.20	65.64	70.39	

1869 Feb a slight leak found in the receiver.



# RAINFALL AT Keswick

60

Barrow. House

S Z Langton Esq.

Rain { By W. B. 17

Gauge { Diameter 2 in.

Height above Ground, 0 ft. 0 in.

Above Mean Sea Level, 270 ft.

YEAR .....								1867	1868	1869	MEANS.
January .....								# 7.17	11.83	10.78	
February .....								7.08	9.42	13.63	
March .....								4.62	10.68	1.07	
April .....								9.01	5.09	2.93	
May .....								3.49	3.55	2.56	
June .....								1.91	1.65	2.34	
July .....								4.45	.87	2.62	
August .....								3.30	7.90	2.55	
September ...								6.09	2.69	15.27	
October .....								8.44	9.63	4.77	
November ...								1.15	5.25	11.00	
December .....								4.94	16.04	13.91	
TOTALS .....								61.65	84.60	83.43	

c c c

No wall nor tree within 30 ft - On lawn slightly sheltered by a bank 7 ft high, the slope of which begins 7 ft from the gauge -

We only commenced observations on the 1st of Feb. (1867) \*\*\*\* I have kept a rough rain gauge for some years & have continued during the last for the sake of comparison. It gives 50 in for the last 11 months which you will observe is 4.48 in less than the correct gauge - according to the former the Rainfall of January was 7.15 in. My rough gauge shows an average Rainfall of 66 inches for the last ten years - \*\*\*\*  
 Extract from letter from S. Z. Langton dated Jan'y 2. 1868.



# RAINFALL AT Crown Park Keswick

60

(Monthly)

H G Marshall

Rain { By .....

Gauge { Diameter..... 10 in Height above Ground, 4 ft. .... in. Above Mean Sea Level, 245 ft.

YEAR .....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January .....				# 8.95	4.60	4.40	10.70	4.90	7.60	7.70	
February .....				3.30	3.20	3.00	4.90	4.30	6.30	8.20	
March .....				2.20	4.80	1.90	4.70	3.50	6.70	.50	
April .....				3.80	1.80	.60	2.30	5.50	3.50	2.00	
May .....				3.90	1.80	6.10	1.50	2.40	2.70	1.90	
June .....				3.10	3.70	1.10	2.70	1.80	1.00	2.20	
July .....				1.20	2.50	2.80	5.10	5.00	.30	1.80	
August .....				5.90	2.10	4.80	6.40	2.80	6.00	1.80	
September ...				8.85	7.70	1.80	8.70	4.10	2.70	10.20	
October .....				7.50	4.00	5.50	3.10	5.60	6.20	3.80	
November ...				6.80	7.80	5.10	7.80	.60	3.70	6.70	
December .....				5.00	4.00	5.90	6.40	3.60	8.30	8.60	
TOTALS.....				60.50	48.00	43.00	64.30	44.10	55.00	55.40	

c c c c c c c c c

On a low hill in the middle of a grass field well exposed  
 about  $\frac{1}{2}$  a mile S of Mr. Croxthwaites at Keswick  
 1868 This G as Mr. S knows is in a very windy & exposed  
 situation and always registers less than Keswick &  
 Derwentwater Island



# RAINFALL AT Kreswick Cross Park

60

N C Marshall

B = Daily

Rain { By .....  
Gauge { Diameter.....7.....in.

Height above Ground, 1. ft. 9. in.

Above Mean Sea Level, 280. ft.

YEAR.....						1865	1866	1867	1868	1869	MEANS.
January .....						4.33	10.64		9.40	8.31	
February .....						2.89	5.00		7.93	10.65	
March .....						2.02	5.10		8.83	.64	
April .....						.54	2.46		4.08	2.29	
May .....						6.89	1.45		3.15	2.19	
June.....						.66	2.61		1.40	2.59	
July .....						2.83	5.07		.47	2.28	
August.....						5.17	6.37		6.57	2.17	
September ...						1.81	8.95		3.13	12.35	
October.....						6.43	3.21		7.29	3.80	
November.....						5.83	8.18		4.23	7.00	
December.....						5.87	6.56		9.26	10.35	
TOTALS .....						45.27	65.60		65.74	64.62	

c c c c c



270 65

6 ft + ground 6.4.68 245 ft + s l

c c c c c c c c c 62403

1860 agrees with ppt by S. Marshall

1

2

3

4

5

6

7 agrees with ppt by S. Marshall



RAINFALL AT Keswick Briow Top

Observer W. J. Barker

Rain { By .....

Gauge { Diameter 5 in.

Height above Ground, 8 ft. in.

Above Mean Sea Level.....ft.

YEAR.....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January.....									#6.98	7.96	
February .....									7.41	9.92	
March .....									8.61	.52	
April.....									3.89	1.94	
May .....									3.48	2.34	
June.....									1.45	2.66	
July .....									.54	2.18	
August.....									6.40	2.36	
September.....									3.37	11.92	
October .....									7.07	3.99	
November.....									5.03	8.32	
December .....									12.50	10.28	
TOTALS .....									66.73	64.39	

C C



Rainfall at Greta BankKisurickJ J Spalding

Diameter of Gauge, ..... in.

Height above Ground, ..... ft. <sup>6</sup>..... in.

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

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -					5.27 <sup>R</sup>	5.17		5.53	10.03	7.70	
February - -					3.19	3.00		6.32	6.20	9.38	
March - - -					4.95	2.30		2.07	8.42	.64	
April - - -					1.90	.69		6.44	3.93	2.25	
May - - - -					2.19	7.17		2.47	3.22	2.21	
June - - - -					3.93	.69		2.14	1.36	2.94	
July - - - -					2.63	3.02		5.08	.56	2.18	
August - - -					2.76	5.27		3.16	7.47	2.16	
September -					8.44	1.79		4.94	3.34	12.20	
October - -					5.00	6.70		6.51	6.72	4.04	
November -					8.00	5.66		.85	3.56	7.40	
December -					4.18	6.23		4.36	12.52	9.72	
TOTALS -					52.44	47.77		50.67	67.33	62.82	

c c c c

1864 From signed Ind. rec'd to Mr W. Fletcher



Scaleby House

Scaleby w. Carlisle

M A Allison

8 in 68

5 in 69

14 in 68

0 65

12 in + ground 9 in

+ Sea Level 120?

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -				(4.00)	2.31	1.90	3.64	3.63	1.56	3.28	
February - -				.03	2.04	2.92	3.20	2.14	3.35	5.04	
March - - -				.67	2.30	.50	1.86	.01	3.04	.79	
April - - -				2.68	1.54	.65	.94	4.07	2.57	2.34	
May - - - -				2.87	2.38	5.39	1.30	2.02	2.30	2.08	
June - - - -				3.87	1.98	1.22	1.04	1.41	.84	1.40	
July - - - -				.06	1.31	1.86	3.42	3.47	.71	2.16	
August - - -				3.53	1.90	4.24	3.97	1.35	4.17	1.13	
September -				5.58	4.37	.70	5.14	2.93	2.60	5.95	
October - -				4.47	3.03	4.70	1.70	2.70	2.87	1.85	
November -				3.68	1.47	2.52	3.90	.20	1.41	4.86	
December -				2.63	2.64	2.15	3.39	2.33	4.35	4.32	
TOTALS -				35.67	27.27	28.03	34.30	27.06	29.77	35.20	

c c c c c c c c

1869 5 inch gauge used

1869 5' distinctly marked & 1' instead of 8 in  
 Gauge quite open

1863. Jan. ext? (v.19)



# RAINFALL AT Gowbarrow Fell

60

name changed  
Sep - J. Coulthard  
J. Taylor

Rain { By .....  
Gauge { Diameter.....8.....in.

Height above Ground, ...1... ft. ....7 in.

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

YEAR .....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January .....								15.25	7.75	9.50	
February .....								5.25	5.50	(11.30)	
March .....								5.00	8.00	1.25	
April .....								9.50	5.00	2.75	
May .....								5.50	2.75	1.00	
June .....								2.75	1.25	1.25	
July .....								7.25	.75	3.25	
August .....								3.85?	7.25	2.25	
September ...							3.00	8.50	4.75	12.75	
October .....							4.33	5.75	7.00	2.75	
November ...							7.25	1.25	3.50	6.25	
December .....							17.25	2.25	15.25	10.50	
TOTALS .....								(72.10)	68.75	64.80	

c c c c



# RAINFALL AT

Matterdale Toll

60

*John Coulthard*

*name changed - J. Taylor*  
*Sept -*

Rain { By .....

Gauge { Diameter.....*0*.....in.

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

Above Mean Sea Level, *1400* ft.

YEAR .....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January .....								19.00	13.75	12.25	
February .....								6.00	11.00	(15.20)	
March .....								5.25	11.50	2.00	
April .....								10.50	7.75	3.50	
May .....								6.00	3.50	1.50	
June .....								3.00	1.50	1.50	
July .....								7.50	1.25	4.50	
August .....								5.30	9.00	3.00	
September ...							4.25	9.00	5.50	17.50	
October .....							5.25	6.00	7.75	3.50	
November ...							7.75	1.50	4.25	9.50	
December .....							18.75	2.75	19.75	14.00	
TOTALS.....								(81.80)	66.50	87.95	

*c c c c*

*1868 Aug 4 Temporal with*



RAINFALL AT Cockermouth  
Beech Hill Manor

Observer John Alderson

Rain { By.....  
Gauge { Diameter 5 in.

Height above Ground, 2 ft. 3 in.

Above Mean Sea Level 550 ft.

YEAR.....									1869	MEANS.
January.....									4	
February .....									5.74	
March .....									6.48	
April .....									6.5	
May .....									3.06	
June.....									2.21	
July .....									1.62	
August.....									2.32	
September.....									1.82	
October .....									10.74	
November.....									5.73	
December.....									6.88	
TOTALS .....									6.66	
									53.91	

C

No trees or walls to shelter gauge -



# Whinfell Hall, Cockermouth

60

Wilson Robinson

Marshall

260 64

5 in

+ Ground 2 ft.

+ Sea Level 266 ft 5

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	8.38	3.29	5.83	8.71	3.40	4.73	9.69	5.12	5.90	7.15	6.220
February - -	2.52	7.29	1.66	3.79	2.52	4.02	6.08	3.66	6.42	8.46	4.442
March - - -	6.99	7.66	3.90	1.84	4.34	2.40	3.83	2.37	8.79	.61	4.273
April - - -	2.56	.92	6.03	4.51	2.28	.45	1.89	5.52	3.44	3.10	3.070
May - - -	3.46	1.52	4.49	3.93	2.42	7.73	2.00	2.38	2.92	2.45	3.330
June - - -	6.87	2.87	5.55	5.77	4.24	.64	2.72	1.65	1.89	2.16	3.436
July - - -	2.15	5.53	3.76	1.32	1.98	2.52	4.36	4.77	1.03	2.14	2.956 -
August - -	5.46	8.66	5.10	4.37	4.09	4.31	5.37	4.27	6.02	2.28	4.993
September -	1.89	6.21	2.59	9.99	7.21	2.23	9.11	6.27	2.39	10.60	5.849
October - -	10.42	4.53	10.89	6.81	4.71	5.13	3.58	5.53	7.76	4.75	6.411
November -	1.77	14.22	2.61	8.47	6.07	4.84	7.97	.84	3.24	7.71	5.774
December -	3.60	6.24	8.40	4.94	7.23	5.25	6.88	4.35	9.83	7.40	6.412 +
TOTALS -	56.07	68.94	60.81	64.45	50.49	44.25	63.48	46.73	59.63	58.81	57.366

c + c c c c c c c c c c

1864 Whinfell Hall is on the W side of the Hill the Vale of Lorton near the bottom of Whinfell fell, a northern spur detached off the Cumberland Lake district group of mountains & about 4 miles S.E. of Cockermouth

1868 In the beginning of Aug. the springs and brooks were lower than on any previous occasion except twice in the last 50 yrs. On those two occasions once in 1826 & once since they were nearly if not quite as low, whether quite is doubtful, yet the rainfall for the whole year exceeds the average of the preceding 12 years by 5.217 the wet early & late months account for this

1869 Oct 6<sup>th</sup> Frost Sun? see slip

Hydro No 594323



RAINFALL AT *Broughton The Grange*

Observer *Eliz<sup>th</sup> Bass*

*Fletcher*

Rain { By.....  
Gauge { .....

Diameter.....in. Height above Ground, ...0...ft...0...in.

Above Mean Sea Level. *214* ft.

YEAR.....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January.....					2.49						
February.....					1.71						
March.....					3.17						
April.....					2.06						
May.....					1.96						
June.....					2.77						
July.....					1.86						
August.....					2.77						
September.....					4.93						
October.....					2.54						
November.....					2.65						
December.....					6.50						
TOTALS ....					35.41						



Wire House Bassenthwaite

C J 60

J S Spedding

Sept Oct Nov 77

6. 62

310 634

Diam 5 in + Ground 5 in + Sea Level 310 ft

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	8.25	2.29	5.48	9.21	2.99	3.72	10.43	4.80	5.32	6.53	5.910
February - -	2.51	7.06	1.52	3.65	3.30	3.53	5.72	4.53	6.85	8.12	4.679
March - - -	6.47	7.51	2.94	2.26	5.01	2.40	3.39	2.73	8.19	74	4.164
April - - -	2.23	.96	4.60	5.15	2.45	.40	2.09	5.35	3.10	2.53	2.894
May - - - -	2.84	1.41	5.15	3.33	2.09	6.43	1.89	2.21	3.15	3.26	3.176
June - - - -	4.92	2.08	5.53	4.92	3.99	1.00	2.52	1.62	1.15	2.09	2.982
July - - - -	1.86	4.91	3.72	1.35	1.25	2.86	5.33	4.25	.61	1.38	2.752 -
August - - -	5.82	7.02	4.40	4.59	3.21	4.11	5.30	2.50	5.31	2.20	4.446
September -	1.65	7.40	2.15	8.68	6.58	1.54	8.20	5.25	3.13	9.55	5.413
October - -	8.57	3.24	9.98	6.10	5.22	5.95	2.95	4.60	6.50	3.94	5.713
November -	1.99	11.49	2.22	8.89	5.97	5.43	7.81	.86	4.10	7.94	5.670
December -	2.68	4.98	7.60	5.57	4.36	5.17	6.90	4.01	10.97	7.33	5.957 +
TOTALS -	49.79	60.35	55.29	63.70	46.42	42.62	62.53	42.87	58.38	55.61	53.756

C C C C C C C C C C C

1860 given by S. Marshall in ppt as 50.41 which is wrong



# RAINFALL AT Phiddaw

60

*Mr G. Nigou*

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

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

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

YEAR .....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January .....								5.80	10.25	4.88	
February .....								6.00	3.75	8.12	
March .....								2.80	7.25	1.25	
April .....								5.90	5.38	.00	
May .....								3.00	1.37	.25	
June .....								2.30	1.25	3.50	
July .....								9.00	1.00	3.75	
August .....								3.90	7.25	2.25	
September <sup>15 to 30</sup> .....							<sup>from 15</sup> 2.40	3.90	3.75	11.00	
October .....							2.50	6.80	6.25	5.25	
November ...							6.00	2.10	3.50	7.75	
December .....							4.90	5.10	10.00	6.50	
TOTALS.....								56.60	61.00	54.50	

c c c c

x In second paper only 2.30



# RAINFALL AT

Wokington

60

W Thompson Esq

Parkend

Rain { By Apps  
Gauge { Diameter.....5.....in.

Height above Ground, 1.... ft. 2.... in.

Above Mean Sea Level, 124.... ft.

YEAR .....								1867	1868	1869	MEANS.
January .....								3.21	3.10	6.33	
February .....								1.80	3.58	5.03	
March .....								1.04	5.08	1.03	
April .....								3.76	2.38	2.86	
May .....								1.78	2.62	2.10	
June .....								1.15	1.00	1.49	
July .....								3.12	1.02	1.93	
August .....								3.19	3.35	1.54	
September ...								4.15	1.72	6.49	
October .....								4.53	5.29	3.18	
November ...								4.7	1.95	4.97	
December .....								3.68	7.71	4.46	
TOTALS.....								31.88	38.80	41.41	

c c c

On open Lawn - Half a mile from Stainburn, nearer Sea.



Rainfall at Workington StainburnCumberland

Charles Litt

6 69

3 68

99.68

Diameter of Gauge, ..... in.

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

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

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -						2.80	5.73	3.23	3.36	5.84	
February - -						1.97	3.21	2.38	3.78	4.82	
March - - -						1.76	2.62	1.13	5.44	1.28	
April - - -						.45	.77	3.92	2.50	2.73	
May - - - -						5.26	1.55	1.85	2.46	2.23	
June - - - -						.68	2.06	1.18	1.03	1.38	
July - - - -						2.70	3.37	3.24	.90	1.91	
August - - -						3.94	2.88	3.33	3.48	1.63	
September -						1.65	5.93	3.92	1.75	6.60	
October - -						3.46	1.90	4.79	5.20	2.66	
November -						3.88	5.18	.51	2.10	4.95	
December -						3.57	4.34	3.39	7.63	4.06	
TOTALS -						32.12	39.54	32.87	39.63	40.09	

c c c c c

1865 Gauge is at Stainburn Workington on the banks of the  
 Derwent about 1½ miles from the sea at Solway Firth  
 and 10 miles NW of the Cumberland mountains.



Tarn Bank, Lockermouth  
Cumberland

60

Isaac Fletcher

Lat. 54° 39'

Die 8 in + ground bin

+ Sea level 225 ft.

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -				<sup>#</sup> 6.89	3.24	3.90	8.03	3.85	4.32	6.03	
February - -				3.24	2.13	3.44	4.92	2.69	5.69	6.53	
March - - -				1.23	3.67	2.51	3.07	1.30	7.38	.92	
April - - -				3.40	2.28	.75	1.09	5.05	2.78	2.87	
May - - - -				3.76	2.16	6.77	1.98	2.15	2.68	2.12	
June - - - -				5.07	3.33	.00	2.46	1.56	1.19	1.77	
July - - - -				1.37	1.71	3.71	4.48	3.70	.86	2.31	
August - - -				3.79	3.41	3.59	3.65	3.68	3.71	1.86	
September -				6.66	5.74	2.20	7.02	4.69	1.82	7.53	
October - -				5.81	3.20	3.62	2.49	4.64	6.34	4.05	
November -				6.70	5.02	4.24	6.53	.79	1.56	6.10	
December -				3.85	6.88	4.85	5.78	3.71	8.72	5.62	
TOTALS -				51.77	42.77	40.46	51.50	37.89	47.05	47.71	

c c c c c c c c

1869 Blange rim  $\frac{1}{2}$  in wide at 45° angle, material  
very strong sheet trap



60

Tarnbank, Cockermouth  
Cumberland

Isaac Fletcher

Sea 10 in + ground 5 ft

229 64  
+ Sea Level. 225 ft

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -				# 6.47	2.99	3.64	8.18	3.62		6.08	
February - -				3.04	2.00	3.27	4.73	2.50		4.43	
March - - -				1.16	3.38	2.41	2.94	1.26		.75	
April - - - -				3.21	2.17	.67	1.00	5.09		2.82	
May - - - -				3.44	2.11	6.61	1.93	2.00		1.93	
June - - - -				4.81	3.23	.75	2.42	1.58		1.73	
July - - - -				1.29	1.70	3.59	4.49	3.62		2.25	
August - - -				3.58	3.36	3.49	3.46	3.63		1.72	
September -				6.39	5.68	2.25	6.97	4.62		7.45	
October - -				5.54	3.06	3.51	2.47	4.60		3.84	
November -				6.18	5.00	4.12	6.40	.72		6.62	
December -				3.52	6.84	4.95	5.81	3.54		5.45	
TOTALS -				48.63	41.52	39.26	50.80	36.78		47.07	

c c c c c c c

Vertical rim glegg tube graduated scale attached.  
In heavy rains this gauge at 5 ft elevation receives more than the one at 6 in, this is especially the case in high winds from SW & S and I attribute it to my lawn on which these gauges stand sloping gently to the NE the site is very open, but much exposed. material copper.



# RAINFALL AT Tarn Bank, Cockermouth

*I Sletcher*

60

Rain { By 12  
Gauge { Diameter.....in.

Height above Ground, 40 ft. .... in.

Above Mean Sea Level, 272 ft.

YEAR.....						1866	1867	1868	1869	MEANS.
January .....						5.99	2.31		4.09	
February .....						3.65	1.58		4.24	
March .....						2.27	.70		.43	
April .....						.81	3.64		1.96	
May .....						1.39	1.46		1.36	
June.....						1.75	1.19		1.33	
July .....						3.59	3.08		1.78	
August.....						2.78	2.92		1.40	
September ...						5.63	3.91		6.25	
October.....						1.82	3.62		3.13	
November.....						4.65	.52		4.47	
December.....						3.92	2.60		3.54	
TOTALS .....						38.25	27.61		33.98	

*c c c*

*Gauge above chimneys on House Top. Water brought down into the Hall by a gas pipe. Vertical rim, copper.*



# Cockermouth

60

Ans 1

W. Dodgson M.D.

158 64 65

8 Bin diam. + ground bin + Sea level 157 ft

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -			4.93	7.48	2.67	3.48	8.56	4.30	5.15	5.35	
February - -			1.39	3.45	2.18	3.39	4.44	3.32	6.52	6.63	
March - - -			3.07	1.38	3.72	2.57	2.44	1.53	6.92	.85	
April - - - -			4.45	3.50	2.20	.56	1.00	4.72	3.07	2.69	
May - - - - -			3.60	3.69	2.44	6.32	1.96	1.59	3.22	2.05	
June - - - - -			4.20	5.13	3.24	.70	2.48	1.60	1.28	1.66	
July - - - - -			3.03	1.48	1.66	2.80	4.51	3.37	.80	1.81	
August - - -			4.23	3.94	3.02	3.51	3.45	3.67	4.11	1.80	
September -			2.24	7.97	5.79	1.90	6.91	5.05	1.93	7.55	
October - -			10.38	6.09	3.22	3.41	2.55	4.31	5.99	3.97	
November -			1.94	6.38	4.87	4.22	6.89	1.01	2.91	6.17	
December -		#5.26	7.03	4.14	6.32	4.93	5.58	3.88	8.22	5.78	
TOTALS -			50.49	54.63	41.33	37.79	50.77	38.35	50.12	46.31	

c c c c c c c c c c

Gauge in Dr. H. Bell's garden

1865 Gauge in open garden with walls & buildings around it but at some distance from it. Not to be depended upon as a leak was discovered in the gauge during the month



Rainfall at Cockermouth.

No 2

H. Dodgson. M.B. M.S.

Diameter of Gauge, ... 8 ..... in.

Height above Ground, ... 6 ft. 6 in.

Above Mean Sea Level, ... 164 ft.

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -					2.57	3.25	8.24	3.93	4.97	5.30	
February - -					2.05	3.13	4.16	3.09	5.97	6.42	
March - - -					3.63	2.36	2.31	1.44	6.57	.77	
April - - - -					2.19	.49	.95	4.41	2.98	2.61	
May - - - - -					2.33	5.02	1.85	1.51	3.10	1.90	
June - - - - -					3.00	.69	2.33	1.50	1.22	1.52	
July - - - - -					1.54	2.80	4.30	3.29	.77	1.76	
August - - -					2.81	3.32	3.20	3.54	4.05	1.71	
September -					5.18	1.78	6.53	4.81	1.88	7.22	
October - - -					2.91	3.44	2.40	4.07	5.69	3.83	
November - -					4.34	3.79	6.58	.98	2.85	5.91	
December - -					5.63	4.50	5.34	3.72	7.97	5.53	
TOTALS -					38.18	35.38	48.19	36.29	48.02	44.48	

c c c c c c

1865 Gauge on a Post



Rainfall at Lockermouth No 3

60

H Dodgson Esq M D

Diameter of Gauge, ..... in.

Height above Ground, 100 ft. .... in.

Above Mean Sea Level, 2.60 ft.

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -						2.49	5.10	1.55	1.60	2.25	
February - -						1.93	2.05	1.20	3.63	3.30	
March - - -						1.59	.85	.75	3.06	.25	
April - - -						.37	.61	2.55	1.31	1.00	
May - - - -						4.78	1.30	.78	2.13	.88	
June - - - -						.54	1.39	.79	.57	.75	
July - - - -						2.00	3.25	2.50	.44	.77	
August - - -						2.65	2.50	3.00	2.94	.96	
September -						1.36	4.50	2.25	1.00	4.35	
October - -						2.28	2.06	2.50	3.10	2.10	
November -						2.28	4.94	.50	2.20	3.05	
December -						2.45	2.75	1.70	5.12	3.20	
TOTALS -						24.80	31.30	20.07	27.10	22.86	

Gauge on a pinnacle of the Church tower it has a narrow tube extending from the funnel to a cistern 20 feet below on top of tower, a second gauge was for some time placed on the roof of the tower, as a check, to ascertain whether loss was occasioned by Evaporation or length of tube, more rain was usually found at the end of the month in the upper gauge, the lower one was too much sheltered by the Parapet, and was therefore removed



Rainfall at Higham in Set. Murchy

Coekermouth

J A Hoskins Esq

68 = 478 66 67

Diameter of Gauge, 2 in.

Height above Ground, ..... ft. 6 in.

Above Mean Sea Level, 4.00 ft.

YEAR - -	1860	1862	1864	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -					2.98	2.99	7.79	3.75	5.46	3.32	
February - -					2.47	3.93	5.08	3.25	5.77	7.16	
March - - -					3.12	2.88	3.09	1.85	7.23	1.31	
April - - -					2.41	.52	1.02	4.86	3.16	2.35	
May - - - -					2.25	5.66	3.06	1.51	2.48	1.85	
June - - - -					3.65	.69	1.90	1.79	1.49	2.03	
July - - - -					1.56	2.55	5.03	3.18	.80	1.56	
August - - -					3.32	4.28	3.57	2.85	5.06	2.31	
September -					3.53	1.65	7.69	4.81	2.42	7.91	
October - -					4.09	3.82	2.75	4.05	5.36	4.39	
November -					4.00	3.87	7.11	.87	3.69	6.36	
December -					5.87	4.53	5.80	3.77	8.30	6.53	
TOTALS -					41.15	37.37	53.89	36.54	51.22	47.08	

c c c c c

1864 from signed M.S. ref to Mr W Fletcher



# RAINFALL AT Cockermouth

60

*W. I. Drane Esq. C.E. Oakhurst*

Rain { By.....

Gauge { Diameter.....8.....in.      Height above Ground, .....ft. 11.. in.      Above Mean Sea Level, 250.....ft.

YEAR.....							1866	1867	1868	1869	MEANS.
January .....							7.68	2.44			
February .....							4.54	2.53			
March .....							2.33	1.28			
April .....							.95	4.25			
May .....							1.62	1.54			
June.....							2.42	1.64			
July .....							3.46	3.31			
August.....							4.75	3.41			
September ...							6.52	4.53			
October.....							2.49	3.75			
November.....							6.07	1.02			
December.....							4.85	3.80			
TOTALS .....							47.68	33.50			

*c c*

*1868-Imp: g. leaky*



Bridelkirk

CockermouthJas Carter Rev<sup>d</sup>

8 in + ground to

+ Sea level 350?

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -					2.53 <sup>#</sup>	3.03	6.82	3.79	3.93	3.62	
February - -					1.93	3.12	3.67	2.34	3.79	5.51	
March - - -					3.98	1.88	2.45	1.17	4.99	3.44	
April - - -					2.03	.52	1.22	4.99	2.62	1.20	
May - - -					1.88	7.10	4.74	1.72	2.55	1.79	
June - - -					4.40			1.37		1.24	
July - - -					1.39	3.95	3.86	5.17	1.55		
August - -					2.57					1.62	
September -					5.69	1.78	7.24	4.58	1.98	6.75	
October - -					3.65	3.74	2.40	3.79	4.75	3.10	
November -					3.74	3.81	6.21	3.55	1.96	4.48	
December -					4.17	3.67	4.96		6.20	3.68	
TOTALS -					37.96	31.98	47.77	34.43	37.94	37.98	

c c c c c

1864 from Mr Fletcher's MS. signed by Mr Carter and ref<sup>d</sup> to W. Fletcher



Penrith  
Rainfall at Edenhall, Cumberland

60

*T. Bowstead. Esq.*

Diameter of Gauge, ....5..... in.

Height above Ground, 1... ft. 3... in.

Above Mean Sea Level, 320<sup>?</sup> ft.

YEAR - -					1864	1865	1866	1867	1868	1869	MEANS.
January - -					# 2.10	2.05	5.28	1.50	4.20	4.80	
February - -					1.65	1.95	3.75	2.60	3.00	4.10	
March - - -					2.67	.65	1.85	1.70	4.00	.50	
April - - - -					1.55	.90	1.60	3.80	2.90	1.20	
May - - - -					1.83	5.20	1.35	1.75	1.50	2.00	
June - - - -					2.37	.94	1.65	1.65	1.00	1.50	
July - - - -					1.02	2.25	3.15	4.10	.85	1.50	
August - - -					1.75	4.10	3.45	2.40	3.60	1.00	
September -					3.73	.85	5.17	2.70	2.95	6.20	
October - -					4.05	4.60	1.85	2.50	3.00	3.90	
November -					3.27	3.00	3.77	1.10	2.15	1.50	
December -					2.62	2.50	3.88	2.10	6.03	2.30	
TOTALS -					28.61	28.99	36.75	27.90	35.18	30.50	

c c c c c c c



# RAINFALL AT Penrith Cambridgeshire

Thos. Lester

60

Rain { By .....

Gauge { Diameter.....5 in.

Height above Ground, ..... ft. 2 in.

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

YEAR.....							1866	1867	1868	1869	MEANS.
January .....							<sup>2</sup> 6.12	<del>4</del> 3.90	5.00	4.49	
February .....							3.75	1.90	2.95	3.92	
March .....							3.01	1.62	4.19	.68	
April .....							.70	3.52	2.59	1.40	
May .....							.78	2.12	1.28	1.12	
June.....							1.45	1.52	.63	.16	
July .....							2.47	3.42	.42	.51	
August.....							3.06	1.82	3.38	1.48	
September ...							4.53	3.07	2.01	6.04	
October.....							1.14	2.61	3.11	2.12	
November.....							1.64	.59	2.18	3.57	
December .....							3.80	2.10	6.60	3.92	
TOTALS .....							32.45	<del>20</del> 43	34.34	29.41	

c c c c

1867 Agrees with ppt by S Marshall  
 " corrected by H Lester 3.III.16



RAINFALL AT, Watermilllock

60

*Wm. Rumsey*

*about 1 mile N of Millwater  
Lat 54° 36' N Lon 2° 32' W*

Rain { By .....  
Gauge { .....  
Diameter.....*10*.....in.

Height above Ground, *3* ft. *6* in.

Above Mean Sea Level, *720* ft.

YEAR.....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January .....	8.1	4.00	9.00	10.00	6.50	6.00	12.40	4.70	6.20	7.80	7.470 +
February .....	6.0	7.60	2.00	3.70	3.00	7.00	4.90	5.00	9.00	10.30	5.850
March .....	7.5	7.30	4.20	2.80	4.60	2.00	3.80	3.40	7.80	2.00	4.540
April .....	2.5	1.50	5.00	4.50	1.10	1.00	3.00	6.90	5.00	.30	3.080
May .....	4.0	1.00	3.10	3.20	2.00	7.40	1.50	2.20	3.40	2.30	3.010
June.....	6.2	2.20	6.40	3.80	4.00	1.00	2.60	1.40	.50	1.90	3.000
July .....	1.6	6.20	4.40	1.30	2.20	2.80	3.10	5.00	.50	2.10	2.920 -
August.....	6.2	7.00	3.00	5.70	2.20	5.00	6.50	2.20	6.20	2.40	4.640
September ...	2.0	8.20	3.50	8.60	6.60	1.00	9.40	4.30	3.90	10.60	5.810
October.....	8.8	4.30	12.10	6.00	4.60	7.40	2.90	4.50	6.00	3.50	6.010
November.....	3.0	12.00	2.20	5.20	11.80	6.20	6.10	.90	4.90	8.80	6.110
December.....	4.2	5.30	10.60	6.60	4.30	6.20	9.00	2.60	14.30	11.60	7.470 +
TOTALS .....	60.10	66.60	65.50	61.40	52.90	53.00	65.20	43.10	67.70	63.60	59.910

*c c c c c c c c c c*



RAINFALL AT *Pennith Greystoke Castle*  
*Cumberland*

Observer.....

Rain { By.....  
Gauge { .....

Diameter.....in.      Height above Ground,.....ft.....in.      Above Mean Sea Level.....ft.

YEAR.....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January.....	7.40	1.53	4.59	7.61	2.82	3.10	8.11	5.57	6.45	3.79	5.097
February.....	2.21	4.63	1.32	3.09	2.80	2.51	4.71	3.30	4.69	7.07	3.633
March.....	5.79	5.30	3.02	1.77	4.60	1.49	2.62	1.54	5.37	7.79	3.229
April.....	2.14	.83	3.30	3.92	1.36	.84	2.24	4.56	3.73	1.85	2.477
May.....	1.89	.83	4.18	2.69	1.70	4.45	4.62	2.67	1.66	4.19	2.888
June.....	4.50	2.12	3.25	4.04	3.02	.71	1.07	1.18	.04	.57	2.050
July.....	1.57	4.14	3.70	1.29	1.38	1.98	3.86	3.35	.29	.16	2.172
August.....	4.66	4.80	2.82	4.19	2.06	4.42	4.99	2.41	2.84	2.10	3.529
September.....	1.74	6.54	2.63	6.91	4.33	2.28	7.38	4.08	3.69	1.22	4.080
October.....	6.79	1.47	7.83	5.17	3.82	4.04	2.96	3.62	5.72	4.09	4.551
November.....	1.56	8.81	2.86	4.83	3.22	3.85	4.53	.71	4.69	6.68	4.174
December.....	3.58	3.34	4.29	4.19	3.01	3.65	4.56	2.50	6.38	6.05	4.155
TOTALS.....	43.83	44.34	43.79	49.70	34.12	33.32	51.65	35.49	45.55	38.56	42.035

*Copied from original register by T.G. Benn. see 40 sheet*

*Agrees except an occasional .01 with W.S.A. Marshall's copy*



# Hallshead. Penwith

## 6 miles from Padstow

60

Robt. Linsell

Trace 400 4.6 66

200 60

430 65

68 = 6 in + ground 4 ft

+ Sea level 334 ft

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	6.10	3.20	4.70	10.80	7.30	3.40	12.40	5.10	9.90	7.00	6.990
February - -	1.20	8.00	1.50	1.60	2.70	2.20	7.00	5.10	9.00	11.30	4.960
March - - -	5.10	5.40	4.50	3.40	4.00	2.50	3.00	3.40	6.30	.50	3.810
April - - -	1.20	0.00	5.40	4.50	2.20	4.0	4.80	7.60	6.10	2.50	3.430
May - - -	3.20	0.00	4.0	3.50	2.00 <sup>3</sup>	4.20	3.20	5.10	2.20	1.70	2.910
June - - -	5.70	3.50	6.50	5.40	4.00 <sup>3</sup>	4.70	3.00	1.00	.00	1.10	3.490
July - - -	1.60	5.50	4.90	2.20	3.10	3.60	2.20	4.20	1.60	1.90	3.080
August - -	5.90	6.50	4.80	2.10	1.60	4.70	5.00	3.40	6.60	10.10	4.170
September -	2.80	7.80	3.00	10.90	10.40	1.00	11.30	4.40	3.90	10.30	6.580
October - -	8.40	6.20	13.60	8.20	5.50	7.30	1.20	6.00	6.50	3.00	6.590
November -	2.70	9.30	1.00 <sup>3</sup>	3.80	8.20	6.90	10.80	.50	6.10	6.90	5.620
December -	3.00	4.50	9.30 <sup>3</sup>	8.50 <sup>3</sup>	4.40	0.50	3.40	2.40	11.00	10.00	6.500
TOTALS -	40.90	59.90	63.20	64.90	55.40	49.00	67.30	48.20	69.20	57.30	58.130

c c c c c c c c c c c

1863 Decr. 5.80 and total 62.20

1865 March 3.30; April .70; May 6.70; June 1.10 July 3.20 Sep 1.20 Oct 7.10

Novr. 7.9 Dec. 7.50 total as above.

On low level will exposed



Lowther Castle

Josiah Parkes Esq. for L<sup>d</sup> Lowther  
W<sup>m</sup> Bundy W

+ Ground 4 ft

+ Sea Level 840 ft

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	7.03			7.72	3.29						
February - -	2.27			2.88	2.94						
March - - -	4.51			1.77	2.81						
April - - -	1.66			2.96	1.41						
May - - - -	2.57			2.27	1.20						
June - - - -	6.39			4.32	3.57						
July - - - -	2.64			1.26	1.48						
August - - -	5.09			3.82	1.51						
September -	1.25			6.33	4.83						
October - -	6.20			5.64	4.63						
November -	2.18			3.57	5.00						
December -	3.54			3.22	2.41						
TOTALS -	45.33			45.76	35.08						

✓

✓ ✓

1860 Agrees with ppt by S. Marshall

1861 - This is a group which is described as a group of the same  
10 months interval by different intervals and that is the same  
of the old group.

1862 - This is a group which is described as a group of the same

1863 - This is a group which is described as a group of the same



## Boorham Hall

Westmoreland

Northall

G Campbell gardener 1<sup>st</sup> 66

470 66

5 + ground 4<sup>th</sup> 6

Level 400

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	5.60	1.00	3.47	6.32	1.16	.70	9.30	1.95	5.57	5.07	
February - -	1.10	3.15	.78	2.90	1.24	.45	3.00	2.95	3.45	6.11	
March - - -	4.40	4.58	2.55	.83	2.40	1.30	1.75	1.07	5.07	1.18	
April - - -	2.23	.82	1.98	2.10	1.35	.70	2.90	3.78	2.73	.50	
May - - - -	2.40	.50	1.20	1.49	1.15	4.05	.20	2.22	1.95	2.33	
June - - - -	4.72	1.89	3.31	3.57	1.70	.45	4.15	1.55	.84	2.09	
July - - - -	1.16	3.95	3.36	.96	1.70	1.70	2.95	3.47	.39	.74	
August - - -	4.25	3.97	2.61	2.91	mt kept	4.01	3.90	1.57	4.16	1.34	
September -	.72	5.62	1.85	5.38	3.08	.48	6.15	3.22	1.13	6.64	
October - -	4.57	2.71	6.38	4.20	3.70	4.33	1.96	3.00	3.08	3.31	
November -	2.17	6.55	1.20	2.60	3.65	3.53	4.09	1.59	1.56	4.61	
December -	6.48	2.70	5.10	2.85	1.85	3.18	4.36	1.08	8.62	5.29	
TOTALS -	37.80	37.44	33.79	36.05		24.88	44.71	28.25	38.55	39.21	

1860 stated to be 36.68 on another weather paper  
 1865 G in centre of garden quite exposed, his funnel  
 shaped with floating Indicator

1866 - New 5 in gauge used in Nov: & Dec and records of the previous  
 10 months increased by 25 per cent inasmuch as that is the error  
 of the old gauge.

1868 above the average

1860 - Total = 36.68 in ppt by S. Marshall

1864 = August entered as 1.08 by Mr Fletcher



Rainfall at *Great Skickland**6m. S. of Penrith.**H. Plumer*

650 65.68

Diameter of Gauge, *5* in.Height above Ground, *1* ft. *6* in.Above Mean Sea Level, *700* ft.

YEAR - -					1864	1865	1866	1867	1868	1869	MEANS.
January - -						1.70	8.55	3.31	6.74	7.18	
February - -						2.98	4.29	3.21	3.98	6.57	
March - - -						1.59	2.70	2.75	5.39	.62	
April - - -						.95	1.80	4.84	3.37	1.01	
May - - - -						5.54	.72	2.49	1.86	2.32	
June - - - -						.84	2.43	1.32	.56	1.58	
July - - - -						1.36	2.99	3.92	.19	.68	
August - - -						4.88	5.33	2.51	4.51	2.74	
September -						.55	6.35	3.33	3.04	7.90	
October - -							6.27	2.25	2.88	4.48	2.73
November -					#	4.68	4.50	4.35	.70	3.36	4.62
December -						3.30	4.71	4.24	2.29	10.89	6.72
TOTALS -						35.87	46.00	33.55	48.37	44.67	

1864 The heaviest and most flood causing fall was on the 25<sup>th</sup> month .98 fell in 14 hours, the rain commenced at 8 30 am & by 11 PM every part of the country in which the levels would permit it were flooded

1865 by on an eastern slope sheltered by a house 15 yds off otherwise free

1868 The driest May June & July I have ever recorded yet from the heavy falls in Jan & Dec the total fall exceeded that of any other yr I have noticed

1869 This year like 1868 has been divided into two strongly marked periods, the one very dry, the other very wet the result being in both cases that the fall far exceeded the average



RAINFALL AT Graystoke, Penrith

*A Kerr Gardener gone away*  
Rain { By dropping  
Gauge { Diameter.....in.      Height above Ground, ..... ft. .... in.      Above Mean Sea Level, 700 ft.

YEAR .....	1860	1861	1862	1823	1824	1825	1826	1827	1828	1829	MEANS.
January .....											
February .....											
March .....											
April .....											
May .....											
June .....											
July .....											
August .....											
September ...											
October .....											
November ...											
December .....											
TOTALS.....	43.86	44.37	43.82	49.74	34.15	33.34					

*Months not to be got*  
c c c c c c



RAINFALL AT Netherhall Maryport  
Cumberland

Observer... H P Sembrase

Rain { By.....  
Gauge { Diameter... 8 .....in. Height above Ground, .....ft. 6 .....in. Above Mean Sea Level... 27 .....ft.

YEAR.....									1868	1869	MEANS.
January.....									3.71	4.62	
February .....									3.57	5.24	
March .....									4.89	.73	
April.....									2.60	2.21	
May .....									2.01	2.11	
June.....									.91	1.27	
July .....									.91	1.47	
August.....									3.38	1.39	
September.....									2.04	6.47	
October.....									4.39	3.10	
November.....									2.19	4.10	
December.....									7.13	4.03	
TOTALS .....									37.73	36.74	

C C

Gauge in the middle of a lawn



RAINFALL AT Brayton HallBy Mr. Robt. Elliot (Gardener)Wigtonto Sir Wifford Lawson Bart.at Village of Aspatina

Rain { By .....

5 69

220

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

Height above Ground, ... 1 ... ft. .... in.

Above Mean Sea Level, ... 120<sup>?</sup> ... ft.

YEAR .....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January .....	-		2.89	4.55	1.60	3.00	5.20	2.80	3.63	4.40	
February .....			1.08	2.75	2.20	2.60	2.00	1.60	4.65	5.93	
March .....			2.25	1.80	3.70	1.40	4.20	.80	5.31	.60	
April .....			3.60	3.50	1.45	.28	1.60	4.08	2.62	2.19	
May .....			2.30	3.23	1.90	4.70	1.40	1.40	2.60	2.68	
June .....			4.08	5.31	3.30	1.00	2.50	1.10	.77	1.59	
July .....			4.00	1.25	1.00	1.84	3.00	3.10	.73	1.28	
August .....			4.01	3.65	3.10	3.20	4.70	2.60	4.77	1.57	
September ...			1.88	7.40	3.80	1.40	6.40	2.70	2.46	6.94	
October .....			7.88	5.20	4.25	3.50	2.00	3.10	4.68	2.88	
November ...			2.08	4.70	3.00	3.30	5.70	2.69	2.58	5.32	
December .....			4.45	3.50	4.20	2.80	4.00	2.00	6.22	4.24	
TOTALS .....			40.50	45.04	33.50	29.02	42.70	27.97	41.02	39.62	

c c c c c c c c c



RAINFALL AT Alstone Newhead

Observer... W. Dalton Esq. .....

Rain { By.....

Gauge { .....

Diameter..... 5 .....in.

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

Above Mean Sea Level.....ft.

YEAR.....							1866	1867	1868	1869	MEANS.
January.....							<sup>R</sup> 7.88	3.80	8.10	6.40	
February .....							4.45	4.17	3.17	6.70	
March .....							2.33	2.65	5.61	2.12	
April .....							2.78	6.53	3.72	1.64	
May .....							1.58	2.20	2.36	2.61	
June.....							1.99	1.82	1.64	.95	
July .....							4.52	3.91	.54	.44	
August .....							3.88	2.33	5.23	3.77	
September.....							7.05	3.15	2.88	6.80	
October .....							2.60	3.50	4.72	2.40	
November.....							5.52	1.40	3.85	3.00	
December .....							6.57	3.20	8.84	4.75	
TOTALS .....							51.15	38.66	50.66	41.58	

C C C C



RAINFALL AT *Alstone*

*J Dickinson Junr Esq.*

*Love Lady Shield  
Cumberland*

Rain { By .....  
Gauge { Diameter.....*10*.....in.

*4 68*

Height above Ground, *3* ft. .... in.

Above Mean Sea Level, *1150* ft.

*5 in 97*

YEAR .....			1862	1863		1865	1866	1867	1868	1869	MEANS.
January .....				7.05			6.30	3.15	6.08	6.04	
February .....				1.15			5.68	3.82	2.91	8.33	
March .....				.89			2.59	4.88	5.22	1.76	
April .....			<i>#</i> 2.83	3.83			4.03	5.33	4.46	1.34	
May .....			4.56	2.52			1.64	2.32	.95	1.72	
June .....			5.80	2.49			2.05	1.65	1.63	1.23	
July .....			3.38	.98	<i>#</i>	2.58	4.63	4.20	.71	.93	
August .....			3.54	4.92		4.51	5.56	2.30	5.75	1.40	
September ...			2.13	5.16		.70	7.45	3.40	4.69	8.00	
October .....			5.06	3.77		9.08	2.77	3.10	4.30	1.49	
November ...			1.76	3.50		4.17	5.98	1.28	3.00	4.78	
December .....			4.85	5.45 <i>#</i>		3.07	6.08	3.84	8.65	4.65	
TOTALS .....				41.71			54.76	39.27	48.35	41.67	

*The G is situated in a Valley & about 30 yards from a stream running from SE to NW towards the NE the ground rapidly rises to some height but towards the S and W slopes more gradually upwards The gauge is on the NE of the river and clear of trees &c*



Rainfall at Brookfield, Wighton, Cumberland

60

R. M. Lidbetter

H W Higgins

Diameter of Gauge, ..... in.

Height above Ground, 6 ft. .... in.

Above Mean Sea Level, 130 ft.

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -			2.26	6.48	1.87	1.00	4.69	5.36			
February - -			.86	2.52	1.74	2.46	2.05	3.31			
March - - -			1.82	.51	3.78	1.05	1.11	1.26			
April - - -			2.54	2.99	1.61	.30	.70	.77			
May - - - -			2.81	2.14	1.73	4.52	1.18	1.27			
June - - - -			2.75	3.20	2.86	.76	1.72	2.18			
July - - - -			3.53	.28	2.26	1.69	5.20	5.24			
August - - -		#	4.15	3.45	4.01	1.84	3.12	3.32	4.08		
September -			3.15	2.32	9.38	2.79	1.12	5.64	7.46		
October - -			1.71	7.70	5.62	5.48	3.95	1.89	2.50		
November -			8.06	2.13	4.87	2.06	3.30	4.81	6.14		
December -			2.27	4.54	3.85	3.80	2.16	3.82	4.94		
TOTALS -			36.71	45.85	31.82	26.23	36.93	44.51			

c c c c c c c

1865 g on a 4 ft well & 30 yards from the house or any other high object

1867 from obs. rep to Mr W. F. Fletcher



Silloth

Cumberland

The Prev: F. Redford. M.A. F.R.S.

3 ft 64 5 6

2  
28 63 4 5 688

30 62

18 61

Gauge 8 in

6 ft + ground; 661 - 16 ft + s l

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	5.79	2.51	3.13	7.12	2.35	2.55	4.69	2.53	3.68	4.15	
February - -	1.90	3.14	1.04	3.11	1.77	2.63	3.42	2.01	3.74	4.74	
March - - -	3.64	4.98	1.85	.69	2.75	1.44	1.39	.63	4.47	.85	
April - - -	1.51	.50	4.03	4.16	1.66	.38	.84	2.80	3.00	1.77	
May - - - -	2.40	.87	3.81	2.59	1.91	4.84	1.37	2.18	2.48	1.59	
June - - - -	3.78	2.65	3.77	4.23	2.91	.97	2.20	1.20	1.00	1.13	
July - - - -	2.29	4.29	5.24	.76	1.65	2.03	3.60	2.77	.70	.65	
August - - -	4.37	5.48	3.58	2.88	1.80	3.15	3.55	2.61	4.20	1.05	
September -	1.29	3.13	2.80	5.99	5.15	1.32	5.31	3.84	2.02		
October - -	6.85	1.96	7.82	4.77	4.78	3.64	2.07	2.98	3.79		
November -	1.84	10.34	2.63	4.52	2.05	3.00	4.33	.92	2.13		
December -	2.15	2.62	4.49	3.03	4.79	2.79	3.99	2.01	6.47	.84	
TOTALS -	37.81	42.47	44.19	43.85	33.57	28.74	36.76	26.48	37.68		

c c c c c c c c c c

Silloth ought to be added to your circular on 2  
 1000 1 den will be given I will send monthly  
 + 3.488 in in case of greatest monthly rainfall  
 previously observed at this station.

1860 - Agrees with ppt by S. Marshall

7 - Agrees with ppt by S. Marshall



# RAINFALL AT Carlisle, Parhambeck Church

60

Rev: Wm. Pees

Hyd Sta. No. 606281  
NGR: (35) 392558  
Alt 15m.

Rain { By: .....

Gauge { Diameter.....1.2.....in.

Height above Ground, 8 ft. .... in.

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

YEAR .....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January .....	5.96	1.06	3.18	4.16							
February .....	1.62	1.89	.83								
March .....	2.94	3.27	.62								
April .....	1.54	.71	2.60								
May .....	2.29	.98	4.46								
June .....	3.47	2.22	3.65								
July .....	3.36	5.02	4.65								
August .....	4.10	3.81	3.82								
September ...	1.46	5.17	2.46								
October .....	5.56	1.84	4.97								
November ...	1.57	6.45	.86								
December .....	2.35	2.02	2.88								
TOTALS.....	36.22	34.44	34.98								

C C C



Carlisle

Ord. Office

+ Ground 50 ft + Sea Level 123

YEAR -	1860	1861	1862	1863	1864						MEANS.
January -	5.55	1.37									
February -	1.46	1.68									
March -	2.93	3.48									
April -	1.54	.60									
May -	1.02	.89									
June -	3.09	2.06									
July -	2.49	4.80									
August -	3.29	4.14									
September -	1.44	5.15									
October -	4.89	1.62									
November -	1.12	6.56									
December -	2.00	2.11									
TOTALS -	31.62	34.46									

✓ ✓



CarlisleCemetery

Isaac Cartmell

J. Cameron Junr.

$$1162.8 \text{ in} + \text{ground } 8 \text{ in} + \text{Sea Level } 114 \text{ feet } 64$$

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	(338)	.75	(2.59)	3.92	1.73	1.36	3.29	2.19	2.50	2.45	
February - -	(.85)	1.48	(.78)	1.33	1.57	1.83	2.06	1.63	2.43	4.08	
March - - -	(2.59)	2.51	(1.76)	.47	2.76	.95	1.64	.84	3.23	.53	
April - - -	1.41	.47	(2.22)	2.36	1.04	.42	.67	2.66	2.73	1.63	
May - - - -	1.73	.81	2.99	1.89	1.76	5.09	.96	1.84	2.10	1.91	
June - - - -	2.94	1.77	2.65	2.96	1.89	.99	1.90	.94	.67	1.59	
July - - - -	2.65	3.93	3.73	.52	1.73	1.82	2.89	3.72	.43	.86	
August - - -	2.77	3.09	3.09	3.53	1.67	3.60	2.99	2.21	3.34	1.21	
September -	1.05	4.92	2.51	4.48	3.54	.72	3.70	2.16	2.37	4.67	
October - - -	4.14	1.72	3.70	3.16	3.02	4.27	1.27	2.05	2.34	2.19	
November - -	.77	7.03	1.39	2.98	1.76	2.34	3.17	.40	2.03	4.24	
December - -	1.32	(1.94)	2.35	2.41	1.82	1.33	2.96	1.48	4.76	2.30	
TOTALS -	(25.60)	(30.42)	(29.76)	30.01	24.29	24.72	27.50	22.20	28.93	27.66	27.109

C C C C C C C C C C C C C C C C

missing months interpolated from Brimken Hill (V.19)

1865 Gauge on level with the ground, enclosed by iron railings 3 ft from the gauge & the rails 4 or 5 feet high & rails 5 inches apart no high trees, site elevated & exposed.



RAINFALL AT Carlisle Munks Hill  
2 m. W. of Carlisle

Observer J. Barnes M.D.

Rain { By.....  
Gauge { Diameter.....12.....in. Height above Ground,.....6.....ft.....in. Above Mean Sea Level.....184.....ft.

YEAR.....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January.....	3.38	1.09	2.59	3.57	2.00	1.37	3.77	2.28	2.39	2.23	2.467
February .....	.85	1.42	.78	1.37	1.78	1.66	2.18	1.72	2.01	3.06	1.683
March .....	2.59	2.94	1.76	.47	2.97	1.09	1.59	1.41	3.35	.47	1.864
April.....	1.19	.56	2.22	2.59	1.15	.80	.69	2.92	2.50	1.87	1.649
May .....	1.81	1.22	3.07	2.38	1.87	4.31	1.06	2.49	1.99	2.02	2.222
June.....	3.11	1.92	2.85	2.61	2.39	.78	1.94	1.16	.99	1.17	1.892
July .....	1.40	4.02	4.16	.63	.54	1.10	2.97	3.41	.28	.74	1.925
August.....	3.68	3.41	3.47	2.58	1.72	3.67	4.00	1.66	3.12	.87	2.818
September.....	1.06	4.62	2.61	4.71	4.61	.89	3.97	2.31	2.12	4.25	3.115
October .....	4.50	1.82	4.14	4.00	3.41	5.00	1.28	1.86	2.19	1.92	3.012
November.....	1.25	6.70	1.70	3.18	1.92	2.63	3.59	.58	1.65	3.06	2.626
December.....	2.19	1.94	2.31	2.27	1.93	1.41	3.46	1.27	4.41	2.24	2.343
TOTALS .....	27.01	31.66	31.66	30.36	26.29	24.71	30.50	23.07	27.00	23.90	27.616

c c c c c c c c c c ↑ c  
96w



# RAINFALL AT Carlisle, Castletown Cumberland

Observer Mr. A. Smith

Rain { By.....

Gauge { .....

Diameter.....5.....in.

Height above Ground,.....1...ft....6...in.

Above Mean Sea Level.....ft.

YEAR.....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January.....							4.73	3.38	2.14	3.42	
February.....							3.05	1.25	3.78	4.32	
March.....							1.76	1.08	3.68	1.13	
April.....							1.10	2.43	2.00	1.11	
May.....							1.02	2.68	1.42	1.99	
June.....							2.31	1.26	.92	.85	
July.....							2.75	3.84	.58	1.52	
August.....							3.29	2.08	4.13	1.10	
September.....							4.94	2.83	2.16	6.18	
October.....							1.57	2.33	2.64	2.20	
November.....							4.35	.66	1.09	4.25	
December.....							4.04	1.78	6.02	2.49	
TOTALS ....							34.91	25.60	30.56	30.56	



Rainfall at Kirkby Stephen

55° 29' N 2° 20' W

Thos. Mason

Diameter of Gauge, 5 in.Height above Ground, 1 ft. 6 in.Above Mean Sea Level, 574 ft.

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -						2.42	5.19	3.84	5.52	5.97	
February - -						3.10	4.10	1.86	3.37	5.39	
March - - -						1.83	2.12	3.00	4.22	.68	
April - - -						1.29	1.77	3.70	2.51	2.20	
May - - -						5.48	1.08	2.84	1.67	2.20	
June - - -						.56	3.45	1.76	.58	1.00	
July - - -						2.35	3.78	3.95	.52	1.26	
August - - -						4.40	4.76	2.46	3.00	2.13	
September -						1.00	7.64	1.50	3.95	7.52	
October - -						4.66	2.15	3.11	3.53	2.18	
November -						3.07	4.82	.67	3.12	3.30	
December -						2.48	6.55	2.24	8.30	5.49	
TOTALS -						32.64	47.41	34.93	40.29	39.32	

Gauge on a down on S side of the house  
 rain and wind having free access to it,  
 Day preceding.



Rainfall at *Biggins House, Kirkby Lonsdale*

*Ellyth*  
A. B. Tomlinson

Diameter of Gauge,  $12\frac{1}{4}$  in.

Height above Ground, 3. ft. 6. in.

Above Mean Sea Level, 400. ft.

YEAR - -					1864	1865	1866	1867	1868	1869	MEANS.
January - -					# 4.53	3.39	5.86	6.31	4.00	5.26	
February - -					2.33	3.42	6.10	4.05	4.92	7.91	
March - - -					4.02	2.12	2.38	1.92	7.25	.90	
April - - -					1.84	1.90	1.00	5.00	2.63	3.45	
May - - - -					2.91	5.08	2.18	2.45	.65	2.78	
June - - - -					5.60	.60	4.22	2.15	.55	1.80	
July - - - -					2.85	2.88	5.53	3.40	.95	1.50	
August - - -					3.15	7.10	5.95	4.40	4.94	2.50	
September -					5.28	1.95	10.05	5.39	2.89	9.74	
October - -					2.52	6.15	3.10	4.67	4.95	3.70	
November -					4.11	5.80	8.02	2.75	2.52	6.45	
December -					4.78		7.24	4.05	8.69	6.00	
TOTALS -					43.92	40.39	61.63	48.14	44.94	51.99	

✓ C C C C C C



# Kirkby Lonsdale

60

W Harrison

Casella

1 3 65

1ft 2in 64 & 687 68

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

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	4.58	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 24<sup>th</sup> to the 29<sup>th</sup> of Dec. my ther. stood at 18° 14° 9° & on the morning of the 28<sup>th</sup> inst. at 4° above zero. It is placed facing the N and about 5 feet from the ground.



# RAINFALL AT *Kirkby Lonsdale*

60

*Samuel Morris*

*Casterton St.*

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

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

Above Mean Sea Level, *267*<sup>?</sup> ft.

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

1869 Thrush singing frequently before the 12<sup>th</sup> of Jan<sup>y</sup>  
 found 2 full grown mushrooms in the meadow on 17<sup>th</sup> Feb<sup>y</sup>  
 Temp. at or below 32° on 17 nights in March  
 April Swallows on 19<sup>th</sup> Cuckoos on 23<sup>rd</sup>  
 June Snow on the fells on 16<sup>th</sup>  
 Aug. 28<sup>th</sup> Max Temp 86° 5 The hottest day this year  
 Knot. Gorse in flower on 3<sup>rd</sup>  
 D.S. Temp. 6° on the morning of 28<sup>th</sup>  
 1867 - Agrees with ppt by S. Marshall



# RAINFALL AT *Kirkby Lonsdale* *Croston*

Observer.....*Saml Morris*.....

Rain { By.....

Gauge { .....

Diameter.....*2*.....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 65 2 6 8 67 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	4.57	
June - - - -	5.30	.55	4.78	2.60	.55		
July - - - -	2.97	2.70	5.16	3.25	1.18	4.07	
August - - -	3.29	6.90	5.85	4.48	4.85		
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 Feb by disabled 'M. Harrison's report  
 My by is rather more exposed than M. Harrison's & rather  
 more within the influence of the damp and mist from  
 the River Lune



Rainfall at *Whelprigg. Kirkby Lonsdale.*

60

*Anne Gibson*

*4 in 68*

*16 67*

*3 0 66*

Diameter of Gauge, *5* in.

Height above Ground, *2* ft. *3* in.

Above Mean Sea Level, *475* ft.

YEAR - -						<i>1865</i>	<i>1866</i>	<i>1867</i>	<i>1868</i>	<i>1869</i>	MEANS.
January - -							<i>5.50</i>	<i>5.90</i>	<i>3.99</i>	<i>5.39</i>	
February - -							<i>5.76</i>	<i>4.16</i>	<i>4.07</i>	<i>7.53</i>	
March - - -						<i>#</i> <i>from 2<sup>nd</sup></i> <i>1.40</i>	<i>2.86</i>	<i>2.03</i>	<i>5.76</i>	<i>1.34</i>	
April - - -						<i>1.99</i>	<i>1.39</i>	<i>5.47</i>	<i>2.81</i>	<i>3.69</i>	
May - - - -						<i>3.85</i>	<i>2.52</i>	<i>3.14</i>	<i>1.65</i>	<i>2.84</i>	
June - - - -						<i>.54</i>	<i>5.23</i>	<i>2.58</i>	<i>.67</i>	<i>1.81</i>	
July - - - -						<i>2.33</i>	<i>4.90</i>	<i>3.45</i>	<i>.85</i>	<i>1.49</i>	
August - - -						<i>7.15</i>	<i>5.37</i>	<i>4.66</i>	<i>5.10</i>	<i>2.17</i>	
September -						<i>1.72</i>	<i>10.77</i>	<i>4.80</i>	<i>1.85</i>	<i>9.37</i>	
October - -						<i>5.84</i>	<i>3.18</i>	<i>4.63</i>	<i>6.36</i>	<i>3.46</i>	
November -						<i>4.05</i>	<i>7.16</i>	<i>1.84</i>	<i>2.41</i>	<i>5.33</i>	
December -						<i>2.20</i>	<i>7.24</i>	<i>3.51</i>	<i>9.36</i>	<i>5.60</i>	
TOTALS -							<i>61.88</i>	<i>46.17</i>	<i>44.88</i>	<i>50.02</i>	



Rainfall at *Rigmaden nr Lonsdale*

*Edw & Wilson*  
*H & Z*

*? tested gauge*

Diameter of Gauge, ..... in.      Height above Ground, *3*.. ft. .... in.      , Above Mean Sea Level, *350 65* ~~155~~... ft.

YEAR - -					1864	1865	1866	1867	1868	1869	MEANS.
January - -						3.52	5.92	7.86	4.38	5.85	
February - -						3.40	5.62	4.59	4.10	9.29	
March - - -						1.59	2.67	2.66	6.94	.95	
April - - -					<i>#</i> 1.60	1.63	1.52	6.11	2.96	3.90	
May - - - -					2.71	4.63	2.13	3.24	1.97	2.34	
June - - - -					5.24	.51	4.02	2.80	.81	2.32	
July - - - -					2.95	3.03	3.81	3.22	.99	1.71	
August - - -					2.84	6.54	5.23	4.51	5.50	2.05	
September -					6.13	2.01	11.59	5.20	2.58	11.19	
October - -					2.88	5.40	3.36	5.31	6.10	3.95	
November -					3.86	4.03	8.33	1.89	2.97	6.59	
December -					5.29	2.48	6.94	3.96	9.83	6.27	
TOTALS -						38.77	61.14	51.35	49.13	56.41	

*✓ C C C C C C*

*1868 4 miles N of Kirby Lonsdale in the valley of the Lune. C.W*







Kendal, St George's Church ==/ Site 1/==

Samuel Marshall

Gauge 8 in Dia 4 ft 6 in 62 4 129 67  
 4 ft + ground; 149 ft + m s l

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.	
January - -	8.71	3.74	4.75	7.72	5.17	4.60	7.33	6.56	4.09	5.34	5.801	+
February - -	2.60	5.74	1.05	3.32	3.97	4.80	6.16	5.23	6.67	8.40	4.794	
March - - -	5.80	7.95	5.10	1.37	3.73	1.79	3.53	2.11	7.06	1.42	3.986	
April - - -	2.09	.55	5.12	3.56	2.26	1.21	1.61	5.76	3.08	3.98	2.922	
May - - - -	2.72	.71	4.70	3.83	1.86	6.56	1.86	2.42	2.06	2.73	2.945	
June - - - -	7.79	3.01	4.54	5.37	3.63	.56	3.01	2.17	.81	1.75	3.264	
July - - - -	2.47	6.88	4.30	.54	3.31	1.96	3.17	3.79	.56	1.61	2.859	-
August - - -	6.20	8.31	4.73	4.47	3.55	7.10	5.22	3.49	6.16	1.88	5.111	
September -	3.71	5.85	2.05	7.66	6.12	1.78	9.77	5.22	2.69	10.97	5.582	
October - -	8.06	3.53	10.56	6.33	3.04	5.20	2.92	5.00	6.00	3.59	5.423	
November -	3.10	11.40	2.19	5.99	3.81	4.27	8.39	.67	3.14	6.99	4.995	
December -	3.75	3.03	5.32	4.76	7.12	2.84	7.42	4.89	10.43	6.84	5.640	
TOTALS -	57.00	60.70	54.41	54.92	47.57	42.67	60.39	47.31	52.75	55.50	53.322	

1861 Average of past 40 yrs = 52.27

1860 - Agrees with ppt by S.M.

Marshall died in autumn of 1869 but as Nelson's residence  
 is only three houses distant the two are treated as one gauge

Hyd Sta. No. 45.585680

NGR: SD (34) 513928

alt 45m.

1867 - Agrees with ppt by S.M.



RAINFALL AT RendalHighgateObserver J. Haydon

Rain { By .....

Gauge { Diameter 8 in.Height above Ground, 5 ft. in.Above Mean Sea Level 180 ft.

YEAR.....										1869	MEANS.
January.....										5.94	
February .....										8.62	
March .....										.89	
April.....										3.85	
May .....										2.83	
June.....										1.68	
July .....										1.60	
August .....										1.93	
September.....										11.44	
October .....										3.36	
November.....										6.99	
December .....										6.95	
TOTALS .....										(52.75) 56.08	

↑  
C  
- Marshall's record



RAINFALL AT *Underfell**Kendal**Sam Marshall*Rain { By *J. J. Wilson 68*Gauge { Diameter *8* in.Height above Ground, *4* ft. *6* in.Above Mean Sea Level, *300* ft.

YEAR .....								1867	1868	1869	MEANS.
January .....								<i>6.27</i>	<i>3.63</i>	<i>4.99</i>	
February .....								<i>4.64</i>	<i>6.18</i>	<i>7.90</i>	
March .....								<i>1.78</i>	<i>6.01</i>	<i>1.34</i>	
April .....								<i>5.42</i>	<i>3.03</i>	<i>3.44</i>	
May .....								<i>2.69</i>	<i>2.10</i>	<i>2.87</i>	
June .....								<i>2.43</i>	<i>.80</i>	<i>1.58</i>	
July .....								<i>4.01</i>	<i>.54</i>	<i>1.42</i>	
August .....								<i>3.53</i>	<i>5.92</i>	<i>1.85</i>	
September ...								<i>5.06</i>	<i>2.74</i>	<i>11.14</i>	
October .....								<i>5.03</i>	<i>5.66</i>	<i>3.54</i>	
November ...								<i>.64</i>	<i>2.78</i>	<i>6.64</i>	
December .....								<i>4.92</i>	<i>10.09</i>	<i>6.16</i>	
TOTALS .....								<i>46.42</i>	<i>49.48</i>	<i>52.87</i>	

1868 In an open garden sloping S & exposed to SW which is the <sup>wind</sup> prevailing in wet weather

1867 - Agrees with ppt by S. Marshall



RAINFALL AT *Windermere*

*Matson Grounds*

Observer *Geo. Healey*

*about 1 m E of Bowring*

Rain { By .....  
Gauge { .....  
Diameter *1.2* in.

Height above Ground, .....ft. *8* in.

Above Mean Sea Level *400* ft.

YEAR.....								1867	1868	1869	MEANS.
January.....									7.07	8.48	
February .....									6.67	9.59	
March .....							*	2.96	9.92	1.24	
April.....								6.65	3.36	3.79	
May .....								2.50	2.16	2.24	
June.....								1.89	1.13	2.05	
July .....								5.31	.79	2.41	
August.....								4.64	7.56	2.54	
September.....								7.57	3.27	13.06	
October .....								6.83	7.90	3.69	
November.....								2.08	4.09	8.71	
December .....								5.18	12.51	8.73	
TOTALS .....									66.43	66.53	

C C C



Rainfall at The CraigWindermere.Sir J S Pasley

Diameter of Gauge, ..... in.

Height above Ground, 2 ft. 7 in.Above Mean Sea Level, 300 ft.

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -											
February - -											
March - - -											
April - - -											
May - - - -						<sup>4<sup>th</sup></sup> 7.27					
June - - - -						5.50					
July - - - -						2.92					
August - - -						7.92					
September -						2.42					
October - -						6.73					
November -						4.71					
December -						4.50					
TOTALS -											

C

The day on which it is measured.



# RAINFALL AT *Stavely*

60

*Middle Fairbank*

*J King Alkaine* *Barth Hule* *Rendell*

Rain { By .....  
Gauge { Diameter.....*1.0*.....in.

Height above Ground, *3* ft. .... in.

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

YEAR .....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January .....						6.24	9.79	8.55	6.53	7.64	
February .....						5.15	9.22	7.64	8.62	13.22	
March .....						1.93	4.39	3.30	8.88	1.08	
April .....						1.41	2.82	7.11	3.51	3.71	
May .....						7.56	1.83	2.74	2.90	2.62	
June .....						.39	3.29	2.45	.84	2.42	
July .....					4.19	2.88	4.66	4.99	.82	2.60	
August .....					3.51	6.83	6.90	4.67	8.68	2.22	
September ...					8.47	1.99	11.81	8.27	3.49	14.98	
October .....					3.30	7.08	4.66	7.60	8.28	3.21	
November ...					6.23	6.12	11.40	.68	4.80	10.27	
December .....					7.44	4.71	9.94	6.42	11.56	8.12	
TOTALS .....						52.29	80.71	64.42	68.91	72.09	

*Fixed on the top of a well*



RAINFALL AT WindermereHaytonHigh HouseRain { By.....  
Gauge { Diameter.....0.....in.Height above Ground, 3... ft. .... in.Above Mean Sea Level, 136... ft.

YEAR.....							1866	1867	1868	1869	MEANS.
January .....							<sup>*</sup> 7.15	7.17	6.41	8.19	
February .....							7.46	6.18	6.31	8.99	
March .....							3.85	2.52	8.04	1.19	
April .....							2.18	6.46	3.40	3.47	
May .....							1.72	2.15	2.13	1.79	
June.....							3.25	1.80	.73	2.58	
July .....							3.18	5.29	.67	2.01	
August .....							5.49	3.74	7.69	2.02	
September ...							9.62	5.26	3.40	12.27	
October.....							4.00	5.88	7.12	3.87	
November.....							7.70	1.73	3.75	8.14	
December.....							8.56	4.44	11.77	7.52	
TOTALS .....							64.16	52.53	61.42	62.04	

C C C C

1867 given as 53.55 in ppt by S. Marshall



RAINFALL AT *Windermere**donation*  
by B Brewster*The Wood**In middle of vegetable garden, quite unseltered*

Rain { By .....

Gauge { Diameter.....*0*.....in.Height above Ground, *3*... ft. *2*... in.Above Mean Sea Level, *310* ft.

YEAR .....						1865	1866	1867	1868	1869	MEANS.
January .....						# 7.18	10.62	9.77	6.68	9.37	
February .....						6.91	7.79	8.31	11.05	12.94	
March .....						2.60	5.66	3.73	9.43	2.10	
April .....						1.13	2.84	7.77	4.00	4.23	
May .....						7.45	2.00	3.04	3.02	3.34	
June .....						.64	3.27	1.55	1.18	1.90	
July .....						2.59	4.06	5.54	.61	2.41	
August .....						7.91	6.19	4.71	9.24	2.35	
September ...						2.45	12.33	6.99	4.20	14.89	
October .....						5.99	5.11	7.87	9.78	4.12	
November ...						6.69	10.86	1.17	5.44	9.24	
December .....						5.53	10.23	6.95	16.58	9.17	
TOTALS .....						57.07	80.96	67.40	81.21	76.06	

*1867 - Agrees with ppt by S Marshall*

*1868 Aug<sup>4</sup> 27<sup>th</sup> 2.77 in 15 days on which more than  
 an inch of rain fell Last snow on mountains 27<sup>th</sup> April  
 First snow 24<sup>th</sup> Oct.*



RAINFALL AT <sup>2</sup>*Ibbotsholme* <sup>1</sup>*Windermere*  
*Samuel Taylor*

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

Height above Ground, *3* ft. .... in.

Above Mean Sea Level, *180* ft.

YEAR.....						1865	1866	1867	1868	1869	MEANS.
January .....					#	5.50	10.60	7.60			
February .....						7.30	7.65	6.40			
March .....						1.10	6.15	3.35			
April .....						2.40	2.50	7.25			
May .....						7.10	2.15	2.95			
June .....						1.20	4.75	1.05			
July .....						2.00	3.75	4.35			
August .....						6.90	5.75	4.50			
September ...						2.15	9.90	5.40			
October .....						8.05	4.80	6.80			
November .....						5.95	9.50	2.80			
December .....						5.30	10.20	3.80	#		
TOTALS .....						54.95	77.70	57.05			

*C C C*



RAINFALL AT *Windsormere The Priory*

*Geo Rothergill*

*2 m S of Ambleside*

Rain { By *H. Gauld*  
Gauge { *Howard's Tube*  
Diameter.....*1.2*.....in.

Height above Ground, *6*... ft. .... in.

*200 ft above Windsormere*  
Above Mean Sea Level, ..... ft.

YEAR .....						1865	1866	1867	1868	1869	MEANS.
January .....							10.62	9.97			
February .....							7.74	6.19			
March .....							4.84	3.00			
April .....							2.56	7.35			
May .....						<i>8 1/2</i> 6.84	1.85	2.84			
June .....						5.52	3.89	1.62			
July .....						2.46	3.74	4.08			
August .....						6.59	6.50	3.46			
September ...						2.06	9.75	5.32			
October .....						7.83	4.77	5.63			
November ...						6.04	9.80	1.68			
December .....						4.55	10.13	4.84			
TOTALS.....							76.19	55.98			

*1865 2.85 in fell in the 24 h ending 9 AM 30<sup>th</sup> of May at Ambleside nearly 4 in I believe.*



The How, Troutbeck  
Vice Admiral  
John Wilson

8 in 1ft 2 in + ground 6 1/2 4 70 ft + 3 c 64 58

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	17.79	9.08	12.12	12.02	10.96	7.48	12.40	12.14	6.91	9.83	11.073
February - -	5.52	13.62	3.22	6.14	7.14	7.57	9.51	11.66	11.79	14.14	9.031
March - - -	10.43	15.60	9.04	3.34	7.99	3.43	5.75	5.43	12.20	2.16	7.537
April - - -	4.92	1.25	10.40	5.13	4.01	1.51	3.21	13.53	4.17	4.63	5.276
May - - - -	6.31	.79	4.03	5.94	2.44	0.14	1.93	4.01	2.41	3.08	3.908
June - - - -	11.90	2.56	7.33	5.56	5.25	.54	3.55	1.77	1.09	2.52	4.207
July - - - -	2.13	0.64	9.53	1.36	3.84	3.37	4.50	4.06	.75	2.66	4.084
August - - -	7.96	15.91	5.36	5.02	4.80	7.38	6.53	4.48	7.49	2.79	6.772
September -	3.02	12.46	2.61	10.85	8.47	2.33	14.48	6.44	3.51	14.45	7.862
October - -	18.32	5.17	16.16	8.79	2.99	0.49	5.93	6.63	10.64	4.41	8.753
November -	5.13	21.41	2.75	11.35	6.65	7.99	15.00	.74	6.15	10.45	8.762
December -	9.15	9.77	11.72	9.47	11.20	5.82	15.90	6.94	15.66	10.95	10.658
TOTALS -	102.58	116.26	94.27	84.97	75.74	64.05	98.69	77.83	82.77	82.07	87.923

1860 agrees with ppt by S Marshall

1

2

3

4

5

6

7 agrees with ppt by S. Marshall



RAINFALL AT *Grange Langdale*  
*Brigg House*

Observer.....*E. Jucker*.....

Rain { By.....

Gauge { Diameter.....*5*.....in.      Height above Ground,.....ft..*9*.....in.      Above Mean Sea Level..*250*.....ft.

YEAR.....									1868	1869	MEANS.
January.....										<i>14.10</i>	
February .....										<i>18.45</i>	
March .....										<i>1.88</i>	
April.....										<i>5.62</i>	
May .....										<i>2.78</i>	
June.....										<i>3.54</i>	
July .....										<i>3.79</i>	
August .....										<i>3.39</i>	
September.....								<i>2 15</i>	<i>3.29</i>	<i>19.99</i>	
October .....									<i>14.03</i>	<i>6.30</i>	
November.....									<i>7.98</i>	<i>19.73</i>	
December.....									<i>22.89</i>	<i>15.54</i>	
TOTALS .....										<i>115.11</i>	

*G. on open grass plot, considerably further from any trees than their height, and 70ft from house.*

*Bench mark on Brigg House 260 ft 7 in*  
*1869 In 36 hours commencing at 9 PM on 12.<sup>th</sup> Nov: 10.17 in*  
*of rain fell 4.62 measured in the morning of the 13.<sup>th</sup>*  
*5.55 on the 14.<sup>th</sup>*



# RAINFALL AT

*Elkermater*  
*Bottom of Longhogg*

60

*E. B. W. Balme*

Rain { By .....  
Gauge { Diameter.....*2*.....in.

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

Above Mean Sea Level, *200* ft.

YEAR .....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January .....								# 11.50	9.75	11.75	
February .....								10.50	9.00	12.50	
March .....								4.25	12.00	1.00	
April .....								10.50	5.25		
May .....								3.00	3.25		
June .....								2.00	1.25		
July .....								5.75	.50		
August .....								5.75	9.25		
September ...								7.60	3.25		
October .....								9.75	13.00		
November ...								2.00	<sup>x</sup> 5.50	<sup>?</sup>	
December .....								6.50	19.00		
TOTALS .....								(79.10)	91.00		

*C C C*

1868 <sup>x</sup> Nov. by damaged



*Lesketh House*  
*nr Ambleside*

*Dr John Davy*

*8 66*

*1-6 66*

*3*

*110 61*

*Diam. bin. + Ground 2 ft + Sea Level 130 ft*

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	14.34	6.69	9.61	13.14	9.95	8.25	13.90	10.78			
February - -	5.55	12.08	2.65	5.80	5.73	7.00	10.92	11.55			
March - - -	8.56	11.67	6.26	3.66	6.97	2.99	6.94	3.97			
April - - -	3.14	.99	9.24	4.54	2.99	1.80	2.97	9.01			
May - - - -	5.33	1.10	4.92	4.99	2.52	8.65	2.36	3.46			
June - - - -	7.78	4.62	6.28	5.25	4.69	.65	3.82	1.72			
July - - - -	2.00	9.56	7.03	.79	3.65	3.39	4.26	4.39			
August - - -	6.47	10.96	4.74	4.63	5.21	8.12	7.97	5.91			
September -	3.01	9.52	3.13	11.42	9.39	2.78	13.93	6.45			
October - -	15.46	5.76	18.43	9.21	3.95	7.74	4.95	9.74			
November -	3.27	17.88	2.91	11.44	7.47	7.14	13.78	1.62			
December -	5.06	7.20	13.06	6.82	11.57	7.29	14.01	7.96			
TOTALS -	79.97	98.03	88.26	81.69	74.09	65.80	99.81	76.56			

*Partially sheltered by trees.*

*Daily*

*1860 - Agrees with ppt by S. Marshall*



RAINFALL AT Ambleside

*The Nurseries*

Observer John Grier

Rain { By .....

Gauge { Diameter 5 in. Height above Ground 1 ft. 2 in. Above Mean Sea Level 140 ft.

YEAR.....										1869	MEANS.
January.....										<del>#</del> 10.48	
February .....										14.19	
March .....										1.75	
April.....										4.34	
May .....										2.61	
June.....										2.50	
July .....										2.07	
August.....										2.60	
September.....										11.70	
October .....										4.68	
November.....										13.38	
December.....										10.90	
TOTALS .....										81.20	

*The gauge is placed in the most exposed place in the Nursery - it is the one formerly in Low Hook gardens, observed by W. Wilson*



Rainfall at *Ambleside, (Low Nook)**J.C. Wilson**Basella*Diameter of Gauge, .... *5* ..... in.Height above Ground, ... *1* ... ft. .... in.Above Mean Sea Level, ... *150* ..... ft.

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	12.80	6.15	10.30	16.30	10.20	7.66	14.33	11.63	9.79		
February - -	4.65	11.40	2.30	5.10	6.80	6.63	9.97	9.17	9.60		
March - - -	8.20	10.60	5.10	3.40	6.30	2.78	5.94	4.11	10.70		
April - - -	1.50	1.25	7.50	5.10	2.30	1.84	3.15	9.03	5.08		
May - - - -	5.35	1.20	5.30	5.20	2.40	9.47	2.43	3.34	3.18		
June - - - -	7.95	4.20	6.30	5.10	4.90	.64	4.33	1.80	1.61		
July - - - -	1.30	10.35	7.10	1.00	4.50	3.63	3.99	4.55	.60		
August - - -	5.65	12.50	4.40	6.00	4.00	7.79	8.23	4.84	9.59		
September -	2.50	10.25	3.10	11.10	9.10	2.64	11.92	6.24	3.92		
October - -	14.30	6.20	16.20	9.50	4.10	8.81	5.07	9.03	11.78		
November -	3.40	20.30	4.80	10.70	8.70	6.90	11.78	1.76	6.32		
December -	5.65	7.00	13.70	7.00	11.10	6.99	13.39	6.29	16.71		
TOTALS -	73.25	101.40	86.10	85.50	74.40	65.78	94.27	71.79	88.88		

1865 *g* on level ground about 5 ft above the stream.  
 May 29<sup>th</sup> 3.90

1868 - From Nov 11<sup>th</sup> to Dec<sup>r</sup> 31<sup>st</sup> the gauge was at W. Greer's  
 Ambleside Nurseries, which see for subsequent obs<sup>s</sup>.



RAINFALL AT *Low Hook Ambleside*

Observer... *Rev. H. J. J. J.* .....

Rain { By..... } *The late Dr. Davy's gauge-*  
Gauge { Diameter..... *6* .....in. Height above Ground, *3* .....ft.....in.

Above Mean Sea Level... *180* .....ft.

YEAR.....										<i>1869</i>	MEANS.
January.....											
February .....											
March .....											
April.....										<i>3.27</i>	
May .....										<i>2.81</i>	
June.....										<i>2.45</i>	
July .....										<i>2.86</i>	
August.....										<i>2.90</i>	
September.....										<i>16.65</i>	
October .....										<i>4.95</i>	
November.....										<i>13.01</i>	
December .....										<i>19.17</i>	
TOTALS .....											

*C*



# RAINFALL AT *Top of Loughrigg* *E. B. W. Balme*

Rain { By .....  
 Gauge { Diameter.....*0*.....in.      Height above Ground *41 ft* ....., in.      Above Mean Sea Level, *1050*.. ft.

YEAR .....	<i>1860</i>	<i>1861</i>	<i>1862</i>	<i>1863</i>	<i>1864</i>	<i>1865</i>	<i>1866</i>	<i>1867</i>	<i>1868</i>	<i>1869</i>	MEANS.
January .....								<i># 11.00</i>	<i>7.50</i>	<i>13.00</i>	
February .....								<i>7.50</i>	<i>6.50</i>	<i>8.75</i>	
March .....								<i>3.25</i>	<i>8.75</i>	<i>1.00</i>	
April .....								<i>7.50</i>	<i>5.00</i>	<i>4.00</i>	
May .....								<i>3.00</i>	<i>3.50</i>	<i>2.75</i>	
June.....								<i>1.75</i>	<i>1.25</i>	<i>2.25</i>	
July .....								<i>4.75</i>	<i>.50</i>	<i>3.25</i>	
August.....								<i>5.25</i>	<i>8.50</i>	<i>2.50</i>	
September ...								<i>6.75</i>	<i>3.25</i>	<i>13.25</i>	
October .....								<i>9.00</i>	<i>11.50</i>	<i>4.25</i>	
November ...								<i>1.50</i>	<i>4.25</i>	<i>7.00</i>	
December.....								<i>4.00</i>	<i>17.50</i>	<i>12.00</i>	
TOTALS.....								<i>65.25</i>	<i>78.00</i>	<i>74.00</i>	

*C C C*



High Close

Loughrigg

Amble side

E. B. W. Balme

60

551 69

563 68

9 in 64

580 64

8 in + ground 2 ft 63 + sea level 570 ft 63<sup>5</sup>

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -		3.68	9.94	9.72	7.60	8.36	13.39	11.07	8.80	12.32	
February - -		9.02	2.53	5.26	<del>6.10</del> 6.08	7.53	10.44	9.09	8.43	13.56	
March - - -		12.03	6.14	<del>3.78</del> 4.08	6.42	3.68	6.49	3.91	11.03	1.61	
April - - - -		1.05	9.71	6.03	2.54	1.90	3.09	9.92	5.18	4.46	
May - - - - -		1.30	5.06	5.81	2.76	9.32	2.52	<del>2.98</del> 2.97	3.25	2.84	
June - - - - -		3.94	7.58	5.94	4.94	.71	3.92	1.87	1.36	2.92	
July - - - - -		9.60	7.44	<del>2.53</del> 1.53	<del>3.72</del> 3.63	3.54	4.96	5.50	.68	3.10	
August - - -		11.61	4.81	7.45	6.14	0.48	0.72	5.61	8.97	3.00	
September -		11.75	3.21	<del>13.04</del> 13.02	9.87	2.70	14.35	7.44	3.38	16.03	
October - - -		8.20	18.49	<del>11.18</del> 10.08	11.57	0.61	4.97	<del>7.28</del> 7.18	11.88	5.22	
November -		17.07	3.22	<del>7.19</del> 9.19	8.42	0.90	11.44	1.95	6.12	13.30	
December -		<del>7.38</del> 7.30	12.33	<del>8.43</del> 8.72	11.55	7.11	12.76	6.00	17.94	12.42	
TOTALS -	178.00	93.75	90.46	<del>86.34</del> 86.86	<del>74.63</del> 74.52	71.00	97.05	<del>74.62</del> 74.51	87.02	90.78	

In Nov<sup>r</sup> 1868 Mr. Balme writes "I believe the gauge was first set up in 1863, and that therefore no prior returns exist."

1861 Correction received from E. B. W. B. in 1878

1863-64 + 1867 Corrected XI. 1913. by daily figures.

\* Aug<sup>d</sup> est. from Larkett's How (Manchester 1915)



RAINFALL AT *High Close Loughrigg**E. B. W. Balme*

Rain { By .....

Gauge { Diameter.....*5*.....in.Height above Ground.....*9*.....ft. in.Above Mean Sea Level, *553*.....ft.

YEAR .....	<i>1860</i>	<i>1861</i>	<i>1862</i>	<i>1863</i>	<i>1864</i>	<i>1865</i>	<i>1866</i>	<i>1867</i>	<i>1868</i>	MEANS.
January .....								<i>11.36</i>	<i>9.24</i>	
February .....								<i>9.25</i>	<i>8.76</i>	
March .....								<i>3.97</i>	<i>11.43</i>	
April .....								<i>10.00</i>	<i>5.37</i>	
May .....								<i>3.00</i>	<i>3.30</i>	
June .....								<i>1.87</i>	<i>1.37</i>	
July .....								<i>5.58</i>	<i>9.32</i>	
August .....								<i>5.70</i>	<i>4</i>	
September ...								<i>7.56</i>		
October .....							<i>5.04</i>	<i>9.37</i>		
November ...							<i>11.40</i>	<i>2.00</i>		
December .....								<i>6.08</i>		
TOTALS.....								<i>75.74</i>		

*C C C*



# RAINFALL AT

*Langdale Head*

60

*Wm Asher*

*E. W. Palmer*

Rain { By .....  
Gauge { Diameter *2* ..... in.

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

Above Mean Sea Level, *380* ft.

YEAR .....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January .....								# 14.50	11.75	14.00	
February .....								11.75	14.00	18.50	
March .....								6.25	20.00	1.25	
April .....								13.00	8.00	7.75	
May .....								4.25	4.25	2.50	
June .....								3.00	2.00	4.00	
July .....								9.25	1.25	5.25	
August .....								8.25	11.25	2.25	
September ...								8.00	4.00	18.75	
October .....								11.00	14.00	8.50	
November ...								2.25	6.00	21.75	
December .....								9.00	21.75	14.00	
TOTALS .....								100.50	118.25	118.50	

c c c



# RAINFALL AT *Rydal*

60

*J M I Jones*

Rain { By .....  
Gauge { Diameter.....*5*.....in.

Height above Ground, ...*1*... ft. *6*... in.

Above Mean Sea Level, *175* *69*  
*185*<sup>p</sup> ft.

YEAR .....							<i>1866</i>	<i>1867</i>	<i>1868</i>	<i>1869</i>	MEANS.
January .....							<i>#</i>	<i>10.57</i>		<i>11.15</i>	
February .....								<i>10.57</i>		<i>14.65</i>	
March .....								<i>4.09</i>		<i>2.52</i>	
April .....								<i>8.32</i>		<i>4.98</i>	
May .....								<i>3.34</i>		<i>3.04</i>	
June .....								<i>1.77</i>		<i>3.31</i>	
July .....								<i>4.58</i>		<i>3.10</i>	
August .....								<i>5.07</i>		<i>3.14</i>	
September ...								<i>5.94</i>		<i>16.91</i>	
October .....								<i>9.12</i>		<i>5.62</i>	
November ...								<i>1.42</i>		<i>12.82</i>	
December .....								<i>6.47</i>		<i>9.59</i>	
TOTALS.....							<i>94.02</i>	<i>71.26</i>	<i>92.89</i>	<i>90.83</i>	

*C C C C*

*Monthly values doubtful in 1866*

*1868 Observations doubtful -*



Appleby

Westmorland

Fergus Armstrong M.D

442

Rain 8 in + ground 1 ft  
Sink bottle gauge

+ Sea Level 242?

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.	
January - -	4.39	1.58	2.87	5.57	2.92	1.89	6.60	4.89	6.01	5.51	4.223	+
February - -	1.55	5.48	.72	1.79	2.22	2.52	3.21	2.34	3.57	5.34	2.874	
March - - -	4.46	4.22	2.81	.89	1.99	1.60	1.66	2.41	4.23	.66	2.493	
April - - -	1.91	.84	2.54	1.88	1.37	.85	1.97	4.47	2.36	1.18	1.937	-
May - - - -	2.67	.65	2.73	1.56	2.22	5.58	.86	2.18	1.41	1.54	2.140	
June - - - -	5.38	1.73	3.06	4.56	2.72	.76	2.24	1.60	.68	1.28	2.401	
July - - - -	2.61	4.74	3.37	1.27	1.25	1.21	2.75	4.51	.58	.96	2.325	
August - - -	4.05	4.93	3.55	2.92	1.74	3.85	4.64	2.93	2.47	1.93	3.301	
September -	1.53	4.30	2.02	4.68	4.20	.44	5.77	2.60	2.74	7.54	3.582	
October - -	4.69	2.19	5.76	4.41	2.37	4.73	1.73	3.55	3.02	2.48	3.493	
November -	2.07	8.01	1.34	3.07	2.46	2.89	3.46	.66	3.07	3.41	3.044	
December -	2.92	3.29	4.12	2.71	3.39	3.94	4.47	2.41	8.90	5.66	4.181	
TOTALS -	38.23	41.96	34.89	35.31	28.85	30.26	39.36	34.55	39.04	37.49	35.994	

C + C C C C C C C C C C C

1863 End of year so mild that the Bees have been  
working as if in summer & mignonette was in  
flower to the last day

in a garden away from walls &c

1868 The rainfall in D.S. exceeded that of any previous  
month for the past 12 yrs being nearly 6 in + average



RAINFALL AT Gramere

John S Green

Coffee Pot by

Wsp Obs: sheets

Rain { By .....

Gauge { Diameter.....in.

Height above Ground, 1 ft. 0 in.Above Mean Sea Level, 240 ft.

YEAR.....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January .....	<sup>*</sup>	6.74	8.00								
February .....		14.37	2.60								
March .....		14.73	6.68								
April .....	2.70	1.09	8.95								
May .....	5.98	1.24	3.00								
June.....	7.50	5.09	8.50								
July .....	1.52	10.60	8.50								
August.....	9.99	15.20	4.60								
September ...	4.62	12.04	3.00								
October.....		9.04	17.70								
November.....	8.41	17.62	3.40								
December.....	6.09		12.30 <sup>*</sup>								
TOTALS .....			87.23								

P C C



Lancaster  
Grasmere  
Sir J. Richardson

+ ground <sup>ft in</sup> 4.6

3300 ft

YEAR - -	1860	1861	1862	1863	1864	1865					MEANS.
January - -	19.34	6.09									
February - -	7.02	13.39									
March - - -	11.98	15.30									
April - - - -	1.93	1.19									
May - - - -	5.32	1.64									
June - - - -	9.76	3.65									
July - - - -	2.53	0.47									
August - - -	0.75	17.50									
September -	3.80	16.28									
October - -	17.36	9.05									
November -	5.31	20.17									
December -	11.77	10.49	#								
TOTALS -	104.87	123.22									

1859 - <sup>#</sup>July 3.37; Aug: 7.68; Sept: 13.11; Oct: 12.43; Nov: 10.42; Dec: 15.02.



RAINFALL AT Kirkstone Pass

Observer...Jas Thompson.....

Rain { By.....  
Gauge { Diameter.....8.....in.

Height above Ground, 1.....ft.....in.

Above Mean Sea Level.....ft.

YEAR.....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January.....								14.75	29.00		
February .....								9.25	12.00		
March .....								4.00	11.00		
April .....								10.50	6.00		
May .....								3.50	4.75		
June.....								2.00	1.75		
July .....								6.50	1.00	#	
August .....								6.25			
September.....								7.33			
October .....							#	7.25	9.90?		
November.....							12.00	2.30?			
December .....							13.50	6.12?			
TOTALS .....								75	(8240)		

C C C



# RAINFALL AT Berkside, Helvellyn Wm Walker

60

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

Height above Ground, ..... ft. D... in.

Above Mean Sea Level, 1800 ft.

YEAR .....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January .....								11.25	14.50	16.25	
February .....								9.00	11.50	13.25	
March .....								6.50	15.25	2.50	
April .....								10.25	7.00	4.75	
May .....								3.75	4.25	3.75	
June .....								2.75	2.00	2.50	
July .....								8.25	1.00	5.25	
August .....								9.50	8.50	2.00	
September ...							#	9.00	7.50	5.00	19.25
October .....								5.75	10.75	12.75	4.75
November ...								12.00	2.00	7.50	9.50
December .....								14.50	5.00	23.25	14.50
TOTALS.....								86.50	112.50	98.25	

c c c c



Tarn  
 RAINFALL AT Laddale, Grassmere  
 Robert Hayton

Rain { By .....  
 Gauge { Diameter.....2.....in.

Height above Ground, 1 ft. .... in.

Above Mean Sea Level, 1175 ft.

YEAR .....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January .....								12.00	13.00	12.50	
February .....								9.50	12.75	17.00	
March .....								5.75	17.00	2.00	
April .....								12.00	5.50	6.00	
May .....								3.50	4.25	2.50	
June .....								2.75	1.75	3.25	
July .....								7.75	.75	5.00	
August .....								8.00	12.50	3.25	
September ...								9.00	4.50	20.00	
October .....								7.50	11.50	13.00	6.75
November ...								14.25	2.25	6.00	15.75
December .....								18.25	7.00	20.00	13.00
TOTALS.....								91.00	111.00	107.00	

C C C C

1869 12 in of snow in Feb Mar April May & June very fine heavy rain in Sept. with sultry weather



Requested that this form be filled and returned as soon as possible to G. J. SYMONS, Esq., F.R.S.,

62, CAMDEN SQUARE, LONDON, N.W.

Additional Copies of this form will be supplied with pleasure.

## RAINFALL IN 18.63.

At Patterdale

In County of .....

Rain Gauge { Diameter of Funnel ..... in.  
Height of Top { Above Ground ..... ft. .... in.  
Above Sea Level ..... ft.

Month.	Total Depth.	Greatest fall in 24 Hours.		Number of Days on which .01 or more fell
	Inches.	Depth.	Date.	
Jan.				
Feb.				
March				
April				
May				
June				
July				
Aug.				
Sept.				
Oct.				
Nov.				
Dec.	6.30	mins 10.30		
Total	88.90	mins 92.90		

Signed.....

Please write any remarks on the other side.  
S. 10-8/97.



Patterdale

Penrith

Robt. Sinclair

2 6 66

388 67

8-67

2 64 5-68

450 65

500 68

7

+ Ground 3<sup>rd</sup> bin 64 + Sea Level 340 ft

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	10.30	5.80	10.50	18.70	6.90	5.11	15.85	7.13	11.21	12.87	
February - -	5.30	15.40	1.70	4.30	1.40	6.76	9.97	9.50	14.36	16.31	
March - - -	5.60	11.60	7.20	2.60	1.50	5.15	4.92	5.79	14.04	2.53	
April - - -	3.60	.60	7.80	6.30	.73	1.95	6.56	11.88	6.55	3.35	
May - - - -	12.30	1.70	2.60	5.40	1.13	11.65	5.68	3.63	4.77	3.26	
June - - - -	5.60	2.10	8.60	3.60	6.00	.22	3.75	2.23	.59	2.72	
July - - - -	6.60	9.80	5.80	1.90	2.60	2.01	7.56	6.83	.48	3.08	
August - - -	10.60	20.50	5.10	7.40	3.90	4.12	7.10	3.97	9.56	3.16	
September -	11.40	13.70	3.80	14.60	10.57	4.11	11.02	6.35	5.35	16.65	
October - - -	13.60	9.20	18.60	9.60	7.55	5.20	4.77	9.75	11.02	4.43	
November - -	3.50	16.20	4.50	8.20	12.11	8.55	11.14	1.40	6.99	9.73	
December - -	5.50	10.00	14.70	6.30	7.10	7.16	12.71	4.67	21.22	12.07	
TOTALS -	93.90	116.60	90.90	88.90	61.49	61.99	101.03	72.43	106.14	90.16	

I have lived here (Patterdale) 17 years the last 4 yrs have far exceeded in the fall of rain any year in that time.

"A mem. in the writing of Henry Cooper Marshall says Old 10" gauge 5' high used up to May 1864 then Casella's new gauge".







RAINFALL AT Greenside Mills

Jas. Barrington

Rain { By .....  
Gauge { .....  
Diameter.....5.....in.      Height above Ground, ..... ft. 4..... in.      Above Mean Sea Level, 1000..... ft.

YEAR.....						1865	1866	1867	1868	1869	MEANS.
January .....								16.44			
February .....								11.36			
March .....								6 96			
April .....								#			
May .....											
June.....											
July .....											
August.....											
September ...											
October.....						#	6.74				
November.....							12.99				
December .....							17.45				
TOTALS .....											

C C



RAINFALL AT Greenside Stang End

Birmingham

Rain { By.....  
Gauge { Diameter.....7.....in.      Height above Ground, 1... ft. 6... in.      Above Mean Sea Level, 1550... ft.

YEAR.....							1866	1867	1868	1869	MEANS.
January .....						#	21.22	7.94			
February .....							7.40	0.36			
March .....							4.63	4.57			
April .....							5.30	#			
May .....							2.49				
June.....							4.28				
July .....							6.34				
August.....							7.27				
September ...							13.91				
October.....							4.64				
November.....							10.44				
December .....							11.70				
TOTALS .....							99.62				

1865 "W. Marshall put up the gauge on the top above 3000 ft. but from Jan'y to May there was from 10 to 20 ft. of snow on the top of the gauge; so it was moved to a lower level."



RAINFALL AT *Greenside Mines*  
*James Barningham*

Rain { By .....  
Gauge { .....  
          { Diameter.....in.      Height above Ground, ..... ft. *8* in.      Above Mean Sea Level, *2,000* ft.

YEAR .....	<i>1860</i>	<i>1861</i>	<i>1862</i>	<i>1863</i>	<i>1864</i>	<i>1865</i>	<i>1866</i>	<i>1867</i>			MEANS.
January .....								<i>4.25</i>			
February .....								<i>1.50</i>			
March .....								<i>1.25</i>			
April .....								<i>#</i>			
May .....											
June .....											
July .....											
August .....											
September ...											
October .....							<i>#1.74</i>				
November ...							<i>6.25</i>				
December .....							<i>3.75</i>				
TOTALS.....											

*C C*



RAINFALL AT *Sharrow Bay**A. Parkin Esq*  
*W. Stevenson**Smaller Gauge*

Rain { By .....

Gauge { Diameter.....*5*.....in.

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

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

YEAR .....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January .....										8.46	
February .....									<i>#4-8</i> 3.79	10.85	
March .....									6.35	.81	
April .....									4.50	1.43	
May .....									2.51	3.11	
June .....									.75	1.74	
July .....									.31	.91	
August .....									6.18	2.57	
September ...									3.78	9.87	
October .....									5.74	2.79	
November ...									4.13	5.74	
December .....									12.41	11.11	
TOTALS.....										59.29	

1869 These Gauges are as near as possible, without interfering with each other, and yet there is 19 inches in the year difference



RAINFALL AT *Wed Pledale* *Westminster*

*Wm Hindson*

Rain { By .....

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

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

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

YEAR .....	<i>1860</i>	<i>1861</i>	<i>1862</i>	<i>1863</i>	<i>1864</i>	<i>1865</i>	<i>1866</i>	<i>1867</i>	<i>1868</i>	<i>1869</i>	MEANS.
January .....								<i>10.75</i>	<i>14.50</i>	<i>14.75</i>	
February .....								<i>8.00</i>	<i>13.00</i>	<i>18.00</i>	
March .....								<i>7.00</i>	<i>12.50</i>	<i>6.00</i>	
April .....								<i>11.75</i>	<i>6.75</i>	<i>6.00</i>	
May .....								<i>4.75</i>	<i>4.50</i>	<i>3.50</i>	
June .....								<i>6.75</i>	<i>2.50</i>	<i>4.00</i>	
July .....								<i>8.50</i>	<i>2.50</i>	<i>5.00</i>	
August .....								<i>6.75</i>	<i>10.00</i>	<i>3.50</i>	
September ...								<i>5.75</i>	<i>4.25</i>	<i>25.25</i>	
October .....								<i>7.75</i>	<i>9.50</i>	<i>16.00</i>	
November ...								<i>10.50</i>	<i>1.75</i>	<i>7.50</i>	
December .....								<i>15.75</i>	<i>5.75</i>	<i>14.75</i>	
TOTALS .....								<i>87.00</i>	<i>108.75</i>	<i>113.75</i>	

*C C C C*

*1869 Mar, Apr & June not 111.19*



# RAINFALL AT *Shannon Bay, Ullswater*

*A. Parkin*

Rain { By .....  
Gauge { Diameter.....*8*.....in.

Height above Ground, *1*... ft. *6*... in.

Above Mean Sea Level, *500*... ft.

YEAR .....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January .....								# 3.45	6.50	7.00	
February .....								3.75	3.24	6.00	
March .....								2.25	5.25	.00	
April .....								5.00	4.00	.75	
May .....								2.75	2.00	2.50	
June .....								.75	.25	1.12	
July .....								3.25	<sup>x</sup> .15	<sup>?</sup> .35	
August .....								1.65	5.00	1.50	
September ...								3.75	3.00	0.25	
October .....								3.87	4.50	1.50	
November ...								.37	3.00	4.50	
December .....								1.50	10.50	7.00	
TOTALS .....								32.34	47.47	40.47	

*1868<sup>x</sup> July not enough to raise the float*



RAINFALL AT *Crookadyke Swathfell*  
*E. Burdett*

Rain { By .....  
Gauge { Diameter.....*0*.....in.      Height above Ground, *1* ft. .... in.      Above Mean Sea Level, *12.70* ft.

YEAR .....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January .....								5.25	9.50	8.50	
February .....								4.25	4.00	8.75	
March .....								3.25	6.75	1.50	
April .....								6.00	4.75	1.25	
May .....								3.75	2.75	2.25	
June.....								1.25	.75	1.50	
July .....								3.75	0.00	1.50	
August.....								2.75	<sup>x</sup> 6.00	1.50	
September ...								<sup>+</sup> .25	4.50	4.75	12.50
October .....								3.50	5.75	4.50	2.50
November ...								5.50	0.00	2.50	5.25
December.....								7.00	2.25	12.75	9.00
TOTALS.....								42.75	59.00 <sup>3</sup>	53.00	

*C C C C*

*1868 Aug: 4 meddled with*

*\* No rain this month in the gauges because something the matter with float - written on back of Sharon's Box return.*



RAINFALL AT Kirkstone Pass

Observer.....

Rain { By.....

Gauge { .....  
Diameter.....5.....in.

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

Above Mean Sea Level.....ft.

YEAR.....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January.....										#10.25	
February .....										13.48	
March .....										3.41	
April.....										5.51	
May .....										3.99	
June.....										3.62	
July .....										4.87	
August.....										2.57	
September.....										15.18	
October .....										6.79	
November.....										14.58	
December.....										13.04	
TOTALS .....										97.29	

1869 Jan'y 17<sup>th</sup> 3.75 in 23 hours.



RAINFALL AT *Mardale**Mrs Mary Clarke*Rain { By .....  
Gauge { Diameter.....*8*.....in.Height above Ground, *1* ft. .... in.

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

YEAR .....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January .....								10.00	17.25	15.00	
February .....								12.00	13.33	10.50	
March .....								6.50	15.50	1.00	
April .....								13.50	7.50	5.00	
May .....								4.00	6.00	3.25	
June .....								2.50	4.00	3.50	
July .....								6.75	1.00	4.25	
August .....								7.00	10.50	2.25	
September ...								1.00	4.50	4.50	19.75
October .....								3.75	10.50	14.50	5.00
November ...								12.25	1.25	6.50	9.50
December .....								16.50	6.00	22.50	14.75
TOTALS.....								84.50	123.00	101.75	

C C C C



# RAINFALL AT *Ullswater Martindale Parsonage*

Observer... *Rev S. Golding* .....

Rain { By.....

Gauge { .....

Diameter.....in.

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

Above Mean Sea Level.....ft.

YEAR.....								1867	1868	1869	MEANS.
January.....								4.31	12.21	10.69	
February .....								9.47	9.35	14.90	
March .....								7.08	11.14	1.91	
April .....								8.87	6.28	2.53	
May .....								.00	3.60	2.46	
June.....								3.00	1.57	2.50	
July .....								5.59	.28	2.52	
August .....								4.17	7.98	1.91	
September.....								6.04	3.09	14.53	
October .....								4.50	10.54	3.67	
November.....								4.36	6.26	8.45	
December .....								3.07	19.08	12.43	
TOTALS .....								60.46	91.38	78.50	

1867 Supplied by W. S. A. Marshall



## RAINFALL AT

Measandh Hamerwater

Jonathan Rigg

Rain { By .....

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

Height above Ground, 1... ft. .... in.

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

YEAR .....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January .....								6.00	7.50	9.50	
February .....								5.50	7.50	10.00	
March .....								4.00	8.00	.50	
April .....								6.50	5.00	2.00	
May .....								3.00	2.25	3.00	
June .....								2.25	1.25 .50	2.75	
July .....								5.50	0.00	2.50	
August .....								4.00	8.75	2.50	
September ...								1.00	3.75	3.75	13.25
October .....								3.50	6.25	8.00	4.00
November ...								4.50	1.00	3.75	5.00
December .....								7.50	3.00	14.00	7.00
TOTALS .....								50.75	69.75	62.00	

C C C C

1869 Sep. Gauge tampered with



RAINFALL AT Crosby Ravensworth  
Westmoreland

Observer R. G. Weston

Rain { By Baker Hillman Glaisher

Gauge { Diameter 8 in. Height above Ground, 5 ft. in. Above Mean Sea Level 600 ft.

YEAR.....									1868	1869	MEANS.
January.....										0.63	
February .....										10.01	
March .....										1.40	
April .....										2.27	
May .....										2.62	
June .....										1.83	
July .....									0.76	1.37	
August .....									3.62	2.53	
September.....									3.68	10.87	
October .....									6.11	2.15	
November.....									3.67	4.10	
December .....									12.40	7.75	
TOTALS .....										55.53	

C C



Ensmure Hill  
Ullswater

60

Angus

+ Ground 3ft

+ Sea Level 360ft

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -				# 7.29	}						
February - -				3.07							
March - - -				1.70							
April - - -				2.92							
May - - - -				3.00							
June - - - -				3.99							
July - - - -				.80							
August - - -				3.71							
September -				9.72							
October - -				3.84							
November -				5.37							
December -				x 5.04 #							
TOTALS -				50.45							

C