

Warehouse at Bespunthwaite Lake E-g-189

J. S. Spideling Prof. R. S. No. 77

Drain 5 in + Ground 5 in + Sea Level 300 feet

YEAR - -					1854	1855	1856	1857	1858	1859	MEANS.
January - -					# 5.24	.59	3.88	2.51	3.27	8.00	
February - -					3.02	8.00	3.55	4.04	1.39	4.12	
March - - -					2.58	4.93	0.00	4.99	3.34	7.14	
April - - -					1.07	1.48	2.43	2.34	2.57	4.31	
May - - -					3.60	1.68	4.62	2.17	3.62	.24	
June - - -					7.33	4.72	4.78	3.71	2.56	2.62	
July - - -					1.92	3.53	2.01	2.84	4.10	1.59	
August - -					4.46	2.81	4.80	2.15	3.25	4.24	
September -					2.63	1.23	4.86	3.53	6.88	5.98	
October - -					6.29	0.31	3.29	3.14	5.37	3.28	
November -					4.99	2.98	1.61	3.24	1.26	4.50	
December -					5.38	.90	7.33	5.91	4.61	4.92	
TOTALS -					48.51	33.16	43.16	40.57	42.22	50.94	

c c c c c c

1859 Total agrees with ppt by S. Marshall, Kewdale

More House Baysmouthside

CJ 60

J S Spudding

My Ket No 77

6.62

310 634

Drain 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 --	2.04	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	2.732 -
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	.06	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	5.987 +
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

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

RAINFALL AT *Bassenthwaite Mine House*

Lat..... Lon..... County of *Cumberland*  
 ..... Rain Gauge, by..... Observer *Mr. Spedding*

Diameter .....	5											
Height .....	7							6				
Altitude .....	310											
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....	5.68	4.56	9.11	11.35	5.94	6.83	2.57	8.85	4.15	1.28	6.032	
February .....	5.18	3.89	5.25	8.6	3.59	1.05	4.46	4.76	2.89	2.85	3.478	
March .....	3.44	3.57	5.76	3.11	3.74	1.45	4.59	3.89	2.90	4.27	3.472	
April.....	2.34	2.29	2.46	3.4	2.59	1.35	3.59	2.09	2.60	1.44	2.109	
May .....	4.30	1.21	3.75	1.86	1.35	3.36	83	4.03	4.94	1.73	2.736	
June.....	1.40	1.63	5.64	2.05	1.05	3.32	3.32	4.09	3.25	4.47	3.022	
July .....	7.08	2.82	3.82	6.18	2.45	2.74	3.70	5.40	1.34	6.35	3.588	
August.....	3.39	4.81	3.90	5.62	7.10	2.66	4.59	7.22	5.17	5.18	4.964	
September.....	4.71	2.81	8.91	2.26	7.85	5.42	5.72	3.21	7.67	3.85	5.241	
October.....	11.13	3.65	8.64	5.95	10.64	4.90	3.75	7.85	6.98	2.51	6.600	
November.....	3.53	2.22	7.08	3.50	5.16	4.92	2.48	10.37	2.99	2.23	4.448	
December.....	2.79	6.66	8.30	3.22	2.68	4.51	5.93	4.59	2.27	4.19	4.574	
TOTALS .....	48.97	40.12	70.62	46.30	54.14	42.51	45.53	66.35	47.15	40.35	50.204	

1871 remarkable for an Earthquake on the 17<sup>th</sup> of March  
 severe shock felt in this district, the cold summer like  
 temp. with much drought, Rain about 10 in below the  
 average.



# RAINFALL AT *Bassenthwaite, March 80*

Lat. \_\_\_\_\_

Lon. \_\_\_\_\_

County of \_\_\_\_\_

Rain Gauge, by \_\_\_\_\_

Observer \_\_\_\_\_

*Bassenthwaite - 2*

Diameter ....	5										
Height .....	6										
Altitude ....	310 T					300 T					
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	1.18	.45	4.24	6.85	7.48	2.89	6.45	4.06	2.88	36.48	
February ....	5.43	4.41	4.12	4.93	6.10	6.87	1.54	3.01	.74	37.15	
March .....	1.99	3.85	3.92	2.65	4.73	3.41	3.92	1.76	4.23	30.46	
April .....	3.16	1.36	4.45	2.19	1.61	3.55	3.51	3.44	2.50	25.77	
May .....	1.80	3.58	2.23	1.81	4.65	3.71	6.08	2.38	3.01		
June .....	3.79	4.11	4.82	3.79	1.63	1.43	1.26	.46	1.54		
July .....	3.89	4.70	6.67	4.71	6.04	1.91	5.01	2.54	6.13		
August .....	1.06	6.71	4.23	3.96	2.31	2.83	1.98	1.97	3.40		
September ....	5.81	2.36	3.56	5.19	5.16	5.18	7.24	5.84	1.83		
October .....	4.18	2.92	3.43	7.29	3.34	6.16	6.03	2.68	4.73		
November ....	6.55	6.71	7.71	7.16	2.40	2.88	5.13	3.60	7.71		
December ....	5.98	4.07	3.57	5.50	6.21	2.05	6.83	4.53	4.13		
TOTALS ....	44.82	45.23	52.95	56.03	51.66	42.87	54.98	36.27	42.83	40.00	67.14

*St Bridget's Bassenthwaite Church 1/2 mile*

*600 yards S.W.*

*1889 Estimated from surrounding stations.*

# RAINFALL AT Rassenthwaite Mere House

Lat. \_\_\_\_\_

Lon. \_\_\_\_\_

County of Cumberland

Rain Gauge, by \_\_\_\_\_

Observer Lady Jane Spedding

Derwent - 2.

Diameter ....	5										
Height .....	0	6							1	1	
Altitude ....	300	T									
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January ....	6.71	3.47	3.25	2.10	5.57	3.20	3.07		2.22	8.52	
February ....	1.43	.42	3.09	5.90	8.48	1.99	2.17		5.77	8.68	
March .....	3.35	2.48	1.46	1.90	3.53	5.07	8.03		2.53	2.95	
April .....	1.49	1.23	.67	.57	1.86	2.96	3.30		4.27	3.72	
May .....	2.75	3.14	5.21	2.24	3.99	.65	.84		3.73	4.25	
June .....	5.18	1.41	3.67	2.90	3.72	.86	3.20		3.06	.99	
July .....	3.97	3.58	2.16	4.27	3.73	6.00	4.72	<i>Summ.</i>	1.12	3.17	
August .....	5.38	11.64	7.51	5.01	5.25	6.63	3.23	6.50	5.94	2.37	
September....	5.57	7.93	8.05	5.14	.52	1.42	6.55	5.92	1.94	7.93	
October .....	4.33	7.41	7.41	6.86	4.63	6.40	9.05	2.64	4.52	5.95	
November....	8.39	5.10	3.76	3.04	7.74	7.72	1.94	6.05	5.93	8.06	
December ....	.79	10.10	2.84	4.67	5.64	4.70	5.99	3.56	6.67	3.83	
TOTALS ....	49.34	57.91	49.08	44.60	54.66	47.60	52.09	60.00	47.70	55.42	(51.240)

1890 <sup>1/2</sup> Rassenthwaite Church <sup>N</sup> 1/4 mile N.W.

1897 Record for first seven months destroyed

" estimated from Cockermouth, Brandisgill

# RAINFALL AT Bassenthwaite Morehouse

Lat. \_\_\_\_\_

Lon. \_\_\_\_\_

County of Cumberland

Snowdon Rain Gauge, by \_\_\_\_\_

Observer \_\_\_\_\_

Derwent - 2.

Diameter ....							5				
Height .....							10				
Altitude ....											
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January ....											
February ....											
March .....											
April .....							# 2.95				
May .....							.81				
June .....							2.98				
July .....							4.32				
August .....							2.80				
September...							5.96				
October .....							8.48				
November...							1.81				
December ...							5.38				
TOTALS ....											

Bassenthwaite Church  $\frac{1}{2}$  mile NW

Tree 60ft high 60ft E



# RAINFALL AT Keswick Michouse.

Lat. ....

Lon. ....

 County of Cumberland.

Rain Gauge, by .....

 Miss Blanche F. Spedding.  
 Observer.

Servant - 2.

Diameter ..				5							
Height ...				1. 1							
Altitude ..				300							
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..				6.76	5.76	2.47	7.31	2.41	5.24	4.70	
February ..				9.45	4.64	3.68	3.75	2.74	4.55	4.12	
March ....				10.00	3.69	4.29	3.06	5.73	4.59	4.22	
April .....				1.70	3.92	4.25	1.31	2.44	1.99	2.99	
May .....				3.02	2.46	2.38	5.43	4.94	2.98	1.74	
June .....				1.05	2.94	1.95	1.98	5.93	2.19	3.29	
July .....				4.80	3.21	1.33	2.86	2.02	4.24	6.84	
August ....				6.40	4.29	3.48	5.22	4.16	5.87	3.61	
September ..				5.59	1.25	4.49	1.49	4.44	4.53	2.50	
October ....				12.88	2.55	3.79	7.91	8.02	1.71	8.91	
November ..				4.22	4.59	5.72	5.15	4.80	4.01	2.84	
December ..				4.42	5.65	3.03	4.14	7.46	3.78	7.29	
TOTALS ..	53.25	43.70	37.74	70.29	44.95	40.86	49.61	51.09	45.68	53.05	49.022

1900-1906 Recd 2 II. 08

 1908 Bassenthwaite Church 1/4 mile  
 Keswick Station 4/2

RAINFALL at Bassenthwaite MirishouseCounty of CumberlandObserver Miss Spedding  
gen. W. LewthwaiteRiver Basin Derwent 2Swarden Rain Gauge, by N. & Z.

Diameter ...	5										
Height .....	10							11			
Altitude ...	300										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January	4.43	2.87	3.73	4.85	3.52	6.10	6.55	2.66	4.86	4.80	1087
February	8.64	6.39	2.66	3.45	7.26	8.10	6.57	1.46	6.01	40	1004
March	3.97	1.57	6.98	6.87	5.89	2.14	1.84	2.74	1.65	4.30	1073
April	3.96	4.35	1.01	5.71	2.36	3.75	5.05	3.05	.88	2.70	1168
May	3.33	3.59	2.02	2.39	3.23	1.12	3.21	2.63	1.73	2.60	1017
June	3.18	6.27	5.86	4.46	2.61	.79	3.60	2.66	1.94	2.80	1100
July	4.76	.77	5.03	.79	4.68	4.31	5.52	.80	4.08	1.20	1160
August	7.33	3.23	5.95	2.29	2.40	3.79	2.65	8.26	5.57	3.80	2328
September	.63	3.20	2.41	2.34	3.32	.92	2.87	4.69	11.62	4.00	2318
October	3.04	5.27	5.44	4.24	1.51	.90	9.37	8.04	7.00	1.90	2631
November	4.79	6.78	5.46	5.19	8.56	2.74	6.34	5.49	4.50	2.10	1823
December	6.15	11.18	8.25	6.05	10.63	8.73	5.08	2.54	6.34	7.60	2156
TOTALS	54.21	55.47	54.80	48.63	56.37	43.39	58.65	45.02	56.18	38.40	19825
	7	2	2	2	2	2	2	2	2	2	

Inspected by H.B. 26.8.20. Rain collected in bottle - miner can badly broken, obs. will have it repaired. Gauge too near fence; obs. agreed to move it 15 feet South. Glass by N. & Z. - correct.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911			Keswick	4 1/2 mi	S	Bassenthwaite	4 1/2 mi	



RAINFALL at Hlewish MirehouseCounty of CumberlandObserver Miss SpeddingRiver Basin Derwent 2W. Leathwaite junr.  
S. Wilson (1924)Snowdon Rain Gauge, by N. G.

Diameter ...	5"											
Height .....	1. 6											
Altitude ...	300	280										
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. Means.	
January ...	6.10	8.61	4.50	3.67	5.79	6.12	8.81	6.35	10.30	1.09	9.22	7037
February ...	4.76	.28	5.08	7.40	.88	7.24	5.37	2.20	5.76	.80	.72	4049
March .....	7.89	9.14	2.76	1.61	.92	2.94	2.37	4.22	4.44	.58	2.87	3974
April .....	3.20	1.33	3.00	3.98	2.73	5.90	3.83	4.11	1.74	1.53	1.52	3287
May .....	6.19	3.21	2.02	4.39	4.57	5.21	3.28	2.32	1.46	3.36	1.89	3790
June .....	1.71	.45	3.09	1.40	2.40	.43	4.84	4.21	5.21	2.14	2.59	2847
July .....	5.56	3.01	5.19	3.33	5.50	2.02	4.23	6.47	5.31	5.38	5.71	5171
August .....	2.53	6.94	3.47	8.57	5.08	3.84	4.90	6.90	6.32	4.71	9.91	6317
September...	2.23	2.15	3.31	7.01	6.86	4.52	6.19	7.51	2.86	.98	3.01	4663
October .....	2.26	4.32	1.87	9.32	4.79	7.03	4.18	6.83	8.13	7.24	9.02	6504
November...	3.82	2.02	2.38	6.89	4.13	2.98	7.94	4.89	9.41	11.08	5.17	6071
December...	4.48	7.04	7.54	5.04	10.13	6.47	1.57	1.51	4.66	10.30	5.20	6424
TOTALS...	50.73	48.50	44.31	62.61	53.78	54.76	57.51	57.52	65.60	49.19	56.83	60134

1920 Gauge Inspected—H.B.C. 26.VIII.20. See Cost sheet

Beach Hedge 5 ft high 12 yds S.E.

1924. 8. in open

Position of Station on reduced Ordnance Survey } No. of Map

Reference No.

Date.	Lat. N.	Long. W.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1920	54° 30'	3° 12'	Hlewish	4 mi	N	Basenthwaite	1/2 mi	W

RAINFALL at Keswick (Mirehouse)County CumberlandObserver Miss SpeddingRiver Basin Derwent - 2Type of Gauge GLAISHERAnnual Average 49.8 in. based on 45 years obs. un-weighted. Period of average 1881-1915 Ref. 5

665381/26

Diameter	5.										
Height	1.6.							2	0		
Altitude	280.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	5.42	9.38	8.07	7.47	3.47	7.19	8.39	7.21	7.65	(1.86)	6.621
February	4.85	1.15	6.45	1.65	8.71	3.79	7.37	2.71	8.15	1.19	4.522
March	8.1	3.86	4.93	3.68	1.27	2.37	3.08	3.04	4.29	5.87	3.320
April	2.65	4.17	2.64	4.66	4.88	1.02	2.67	7.75	2.68	2.25	2.837
May	2.78	3.17	3.11	4.53	1.04	1.37	2.21	3.63	1.12	2.41	2.537
June	7.04	2.11	2.84	2.77	4.93	3.56	1.68	7.85	3.84	1.40	3.802
July	6.77	6.40	4.61	2.08	2.34	5.77	3.45	6.13	6.07	5.24	4.886
August	4.34	1.98	2.38	6.38	2.77	1.74	3.45	3.59	3.25	2.82	3.270
September	2.21	7.13	1.77	5.88	10.84	6.24	4.48	3.23	2.00	6.06	4.929
October	3.49	8.36	4.02	8.38	9.64	6.29	3.52	13.77	2.69	6.45	6.663
November	9.54	3.12	1.80	1.61	5.46	5.68	1.06	10.71	8.05	6.07	5.313
December	4.73	7.83	7.4	8.35	3.15	7.67	3.29	5.45	2.68	5.71	4.960
TOTALS	54.63	57.66	43.36	57.44	58.50	52.69	44.65	68.44	52.50	47.33	53.720
	D	D	D	D	D	D	D	D	D	D	

1934. Thus 60' high 100' W.N.EPosition of Station on reduced Ordnance Survey Map, }  
1 mile to 1 inch Series

No. of Map.....

Reference No.....

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1937			Keswick	42.	NW.	Mirehouse	300 yds	SW.

Station No. 3644

RAINFALL at Keewick (Mirehouse)

41

County of Cumbria Observer Miss SpeddingRiver Basin Derwent - 2Type of Gauge GladstoneAnnual Average 49.8 in. based on 45 years obs. un-weighted. Period of average 1881-1915 Ref. SFile No. 663381/26

Diameter	5"				593	589					
Height	1' 6"					1				1' 1"	
Altitude	280'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.69	5.65	7.77	6.65	4.20	6.67	5.24	4.87	4.14	3.33	5321
February	5.87	2.54	4.78	2.48	5.55	4.17	1.00	3.79	4.53	6.03	4076
March	3.22	2.92	1.44	.66	3.33	2.57	6.34	4.74	1.53	4.18	3088
April	2.00	2.20	2.96	2.14	2.37	1.70	8.33	2.61	6.04	4.17	3452
May	4.00	4.04	4.18	2.93	5.96	1.00	3.53	1.89	2.76	2.29	3258
June	(60)	1.03	3.58	5.21	4.60	3.07	3.40	6.76	.73	2.70	3168
July	2.63	4.06	2.24	2.93	4.72	5.62	2.62	3.05	2.10	3.54	3351
August	7.40	4.89	7.62	4.32	2.88	6.92	.00	5.36	2.77	7.56	4972
September	(1.34)	6.44	6.20	6.85	4.87	7.42	3.90	6.88	1.99	11.86	5775
October	6.66	7.13	6.93	5.39	6.07	.64	.72	3.97	7.91	5.35	5071
November	3.50	1.62	3.18	8.91	.39	9.53	8.99	4.40	8.40	5.69	5461
December	2.60	8.36	3.10	5.79	4.36	5.33	3.50	7.01	10.84	3.13	5402
TOTALS	(41.45) d	50.88 d	53.98 d	54.26 d	49.30 d	54.64 d	47.57 d	53.33 d	53.74 d	59.78 d	5239.3

1941 Feb. May &amp; Sept part cold. June cold.

01104

Position of Station on reduced Ordnance Survey Map,  
1 mile to 1 inch Series

No. of Map.....

Reference No.....

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1941	54° 30'	3° 12' W.	Keewick	4 1/2		Bassenthwaite	1/4 m.	

BRITISH RAINFALL ORGANIZATION



Station No. 3644RAINFALL at Keswick (Moorhouse)

51

County of Cumbria Observer Miss SpeddingRiver Basin DerwentType of Gauge Glaisher's (No 2)Annual Average 49.8 in. based on 45 years obs. un-weighted. Period of average 1881-1915 Ref. 5" " 52.67 " " 41 " " with 1916-57File No. 663381/26

Diameter ...	5"				593	589				5"	
Height ...	1' 1"					1				1' 0"	
Altitude ...	280'					51				330'	
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	4.12	4.45	2.36	4.15	3.93	3.66	6.67	6.36	2.39	6.22	
February ...	5.16	1.20	1.66	4.12	1.51	1.01	5.40	6.27	1.52	6.06	
March ...	6.10	2.10	.73	3.59	1.61	2.44	3.46	1.01	3.36	1.46	
April ...	4.04	2.85	4.57	1.32	19.2	1.16	1.11	1.86	4.83	3.79	
May ...	2.44	3.36	4.17	4.88	4.28	2.77	2.54	3.93	1.22	2.13	
June ...	1.66	3.08	1.45	4.80	3.30	2.25	1.60	3.62	4.11	1.86	
July ...	3.40	3.54	5.50	5.88	2.58	6.12	3.79	3.02	4.73	7.08	
August ...	5.42	7.92	4.89	6.46	3.65	8.82	6.13	5.12	.85	3.67	
September ...	6.55	5.43	8.10	9.36	3.62	3.63	5.82	5.43	1.65	4.75	
October ...	1.85	4.81	2.89	11.94	2.76	2.06	5.84	5.46	7.15	3.90	
November ...	11.51	2.82	9.10	11.60	3.22	2.21	2.10	1.16	8.41	12.08	
December ...	11.21	5.58	3.91	7.60	6.01	7.60	5.47	5.67	9.81	6.43	
TOTALS ...	63.46	47.14	49.33	73.70	38.29	43.73	49.93	48.91	50.03	59.43	
	d	d	d	d	N.P.	N.P.	77	220	77	d	

1955 UNRELIABLE.

1956. NP low. Monthly &amp; daily values unreliable.

1957 NP. daily values poor.

1958 NP low.

Imp. 13.9 to 6.36 in. Partly long &amp; narrow 45°-15' NNE - SNE. also of WSW - SSW. Present garden leaning and seriously old and infirm. Better site 40-50 yds E. also of NW otherwise satisfactory

Position of Station on Ordnance One-Inch map : No. of Map..... National Grid Reference 35/22222

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.

Summary of Earlier Records from 10-year Sheets :

1916-1950, P - Rejected

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	10-18 ✓	✓ but - 20	✓ but 40	✓ but 50	