

RAINFALL AT *Bonrodale The Moraine Keswick*

Lat. Lon. County of *Cumberland*

Rain Gauge, by Observer *R. J. Pollard Esq*

Serial - 2.

Diameter ..							5				
Height							10				
Altitude ..							350				
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..							13.34	3.64			
February ..							7.01	5.54			
March							7.91	9.14			
April							2.40	5.13			
May							10.60	7.35			
June							2.60	11.75			
July							5.58				
August							8.99				
September ..							3.13				
October							13.99				
November ..							10.79				
December ..							6.33				
TOTALS ..							92.62				

Note Gauge 200 yards from Vicarage gauge in next field (Posthouse)
 Bonrodale Church $\frac{1}{2}$ mile S E
 Keswick Station 7 miles N
 House 30 ft high 30 yards N
 Trees 15 " " " S W + W

RAINFALL at

Rothwaite
Dorowdale The Moraine

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County of *Cumberland*

Observer *J. Peayley*

River Basin *Derwent 2*

Miss C. Mansfield (16)

Under

Rain Gauge, by *N+3*

Diameter ...			5								
Height			0 9								
Altitude ...			(350)								
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...			9.08	13.11	10.18	11.64	15.48		11.14		
February ...			5.75	8.27	15.43	16.62	9.84		13.70	9.3	
March			13.37	13.30	9.78	3.46	2.67				
April			2.23	11.39	4.25	6.39	8.56				
May			3.78	4.56	5.64	1.25	6.84				
June			7.70	8.97	2.36	1.65	5.64				
July			8.60	1.41	5.34	8.57	6.26				
August			8.73	5.37	7.42	3.63	5.48				
September ..			4.58	2.22	5.25	1.39	4.75				
October ...			11.03	5.55	2.61	2.20	22.15				
November ..			9.39	11.39	16.56	5.13	14.75		8.69		
December...			17.94	11.56	16.42	14.20	(7.50)				
TOTALS ...			102.18	98.10	101.24	76.13	109.92	NR			

1913 House 30 ft high 20 yards N
Tree 40 . . . 50 . . . 55

1916 Dec. est?

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
			<i>Keswick</i>	<i>6 m</i>	<i>N</i>	<i>Rothwaite</i>	<i>250 yds</i>	<i>E</i>

RAINFALL at Rosthrwaite, The Moraine.County of CumberlandObserver E. Scott Esq.River Basin Derwent 2Shawdon Rain Gauge, by _____

Diameter ...									5"	5	
Height									1' 0"	1.0	
Altitude ...									200 200 750	330 330	
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEANS.
January ...									24.83	3.38	19.03
February ...									12.26	2.42	.68
March									9.45	1.73	5.68
April									4.70	2.65	3.01
May									1.01	6.98	4.04
June									11.51	3.76	4.28
July									9.49	9.34	6.07
August									12.59	13.37	15.74
September...									6.69	3.25	7.16
October									16.34	13.57	19.32
November...									21.09	22.74	13.37
December...									9.88	22.26	10.87
TOTALS...									139.64	105.45	109.25

Height above M.S.L. determined Feb. 1930 as 330 ft.

1929. House 30' L 45' S.W. }
 - do - 15' L 60' N } approx.
 Tree 60' L 60' N.E.

129 112
 130

Position of Station on reduced Ordnance Survey
Map, 2 miles to 1 inch Series

No. of Map _____

Reference No. _____

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
			<u>Hawthorn</u>	<u>7 miles</u>	<u>NNE.</u>	<u>Rothwaite</u>	<u>300 yds</u>	<u>SS.E.</u>

RAINFALL at Borrowdale (The Moraine)*

County of CumberlandObserver G. Scott, Esq. (retired and 1936).River Basin Derwent - 2T. Cockburn Esq. 1881-1927

Type of Gauge

G.H. Siskinch W.B. Lead, Esq. 1881-1915Annual Average 97.5 in. based on 7 years obs. un-weighted. Period of average 1881-1915 Ref. S

9262/30

Rev. W.S.

Diameter	5.										
Height	1.0.										
Altitude	330.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	9.93	22.05	13.90	21.00	4.26	13.46	(7.38)	16.29	16.58	2.77	137.62
February	8.47	.05	13.47	1.01	20.78	53.4	(9.71)	5.19	17.23	3.57	84.82
March	1.70	6.82	7.28	6.95	2.61	6.45	3.97	8.94	9.30	12.18	65.70
April	4.56	9.08	3.11	6.96	6.66	2.40	(4.15)	1.42	5.83	4.77	48.94
May	7.63	5.24	4.41	9.21	1.21	1.18	3.48	7.87	1.15	1.99	43.37
June	10.67	4.67	4.54	5.76	6.57	6.62	(4.46)	15.04	7.93	1.50	67.76
July	11.12	10.70	8.92	2.88	4.22	10.85	5.17	16.32	14.74	8.82	93.74
August	5.24	1.88	8.67	12.25	5.47	4.60	4.63	7.46	4.20	5.88	60.28
September	3.53	11.55	1.79	13.35	12.91	9.26	(8.64)	6.46	4.07	9.98	86.54
October	9.32	16.40	8.19	16.94	17.73	12.29	(4.90)	26.17	4.86	11.30	128.10
November	19.10	8.67	3.72	2.40	11.30	13.71	(2.49)	16.72	19.03	12.83	109.87
December	9.99	21.59	2.04	18.52	5.18	19.63	(3.40)	8.03	6.18	12.01	108.57
TOTALS	101.26	118.10	80.04	117.23	103.90	105.79	(24.38)	135.91	111.10	87.60	1035.31
	D.	D.	D.	D.	D.	D.	N.P.	D.	D.	D.	

* Formerly known as Rosthwaite (The Moraine) B.K.

1927. change of station at end of 1926.

1937. N.P. Too many adjustments.

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

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

Station No. M.3623RAINFALL at Bonnewdale (The Moraine)*

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County of Cumbria Observer W. Bonstead Esq.River Basin Dumfries - 2Type of Gauge Annual Average 97.5 in. based on 7 years obs. un-weighted. Period of average 1881-1915 Ref. S. Av. W. S.File No. 9262/3a

Diameter	5"				592	488					
Height	1' 0"					1					
Altitude	330'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	(3.50)	10.36	23.85	18.85	8.45	15.66	12.33	17.99	10.07	9.23	
February	11.32	3.57	9.90	4.40	13.31	5.06	(2.50)	7.28	12.06	9.30	
March	4.61 (8.00)	3.91	1.28	6.69	8.42	8.50	100	2.69	6.85		
April	4.53	6.77	6.80	5.76	5.68	3.29	14.81	100	13.12	7.06	
May	6.52	9.44	5.72	4.89	8.72	1.68	4.13	100	100	3.10	
June	.65 (2.80)	7.29	10.19	6.61	9.06	5.97	14.71	100	6.57		
July	2.37	7.78	5.96	4.08	7.15	6.01	5.01	5.27	100	5.82	
August	13.89	11.23	14.55	7.15	2.69	100	.00	8.65	14.01	13.48	
September	2.75	14.22	10.93	10.04	9.92		9.13	12.12	2.30	18.91	
October	10.92	13.77	15.23	10.95	12.04		1.75	8.36	11.49	8.77	
November	8.60	2.75	5.91	16.14	.71	100	19.68	10.11	15.40	9.67	
December	8.77	16.62	7.43	10.80	8.44	9.98	4.35	13.23	20.10	4.80	
TOTALS	78.43 (107.31)	117.48	104.53	90.41	120	88.16	Inc	100	103.50		10
	d	d	d	d	d	d	Inc	Inc	d		

* Formerly known as Roshwaite (The Moraine)

1941. Jan. cold in snow.

1942 March & June cold from nearby snow.

1946 Aug - Nov. measure broken

1947 Dec. measure broken

1948 Measure broken. Measure broken. Measure broken.

1949 Measure broken. Measure broken. Measure broken.

* 101.4 computed by W. Cornish (1952-60) 2

1100.4

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

BRITISH RAINFALL ORGANIZATION

Station No. 2633 41RAINFALL at Barnardale (The Hermit)

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County of CumberlandObserver W. Bonsted Esq.River Basin Derwent - 2W. & P. W. R. R. 1953. ?Type of Gauge M.O. (H.K.) (on loan)Mrs. Bonbridge 7. 1954.Annual Average 77.5 in. based on 7 years obs. un-weighted. Period of average 1881-1915 Ref. 5" " 105.38 " " 23 " " 1728-57 " " 1916-50 " " 5 21. 113File No. 9262/20

Diameter ...	5"				592	488				5"	
Height ...	1' 0"					1				11"	
Altitude ...	330'					51				330'	
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	9.59	9.04	6.05	(11.80)	9.05	6.50	13.52	9.62	6.42	12.13	
February ...	9.08	2.19	4.23	(10.20)	2.76	2.07	7.60	10.62	3.65	10.11	
March ...	6.24	5.51	.93	(11.00)	2.83	4.09	7.73	1.94	7.39	3.41	
April ...	7.59	5.69	100	2.56	4.91	1.86	3.05	3.46	7.12	8.75	
May ...	2.13	5.39		5.99	3.04	5.91	4.67	7.37	1.89	4.02	
June ...	2.09	5.11		9.96	6.89	3.68	3.49	4.81	6.38	5.06	
July ...	4.86	6.06		10.03	4.23	9.41	8.01	4.80	8.36	10.09	
August ...	8.60	13.96		7.61	4.62	13.58	9.65	8.40	1.92	4.83	
September ...	10.89	6.76		16.72	7.32	6.81	9.94	10.76	1.71	5.24	
October ...	1.88	8.50		24.04	6.29	9.21	11.99	12.20	14.13	5.09	
November ...	16.86	5.88		21.89	3.64	3.91	3.16	1.96	14.75	20.51	
December ...	19.10	7.52	100	15.75	14.87	14.83	12.37	7.19	20.79	9.83	
TOTALS ...	98.91	81.61	100	147.55	74.45	81.86	95.18	83.13	94.51	99.07	
	NP	D	NP	NP	D	D	D	D	D	D	

1951 NP low.

1953 NP low.

1954. Gauge repaired 4/54 - and then normal.

1954. NP. Too much out.

Inspected 10-9-60 by H.H. Butler of S.W.S.W. and W.S.W. → N. Narrow tree 40'-40' W.S.W. tree 30'-30' N.W. → 40'-70' N.W.W.
 → young birch 25'-40' N → old apple 8'-15' N.E. No alternatives available

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference 35/256 143

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

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
		C 1928	✓ NP 37	✓ NP 46, 48-49.	
			✓ but 050		