

RAINFALL AT Hawkshead Black Fell

Lat.

Long.

County of Lancashire

Rain Gauge, by

Observer S. A. Marshall Esq.

Seven & 6.2

Diameter	5										
Height	1 6										
Altitude	7055'										
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	11.25	6.45	5.75	2.30	9.00	1.80	5.80	1.50	7.30	10.00	6.115
February77	58	1.55	8.50	11.25	.50	6.00	6.00	6.50	5.85	4.750
March	4.60	1.25	1.90	1.80	4.00	6.35	8.15	9.25	2.50	5.70	4.580
April	2.15	3.40	1.50	1.05	2.25	4.30	1.80	3.10	6.80	8.40	3.1175
May	3.80	2.20	6.50	4.15	5.80	.65	.22	2.20	3.10	6.15	3.4477
June	5.45	2.20	4.40	2.70	4.70	1.30	3.35	5.25	5.10	1.95	3.640
July	5.60	3.65	4.50	5.00	4.75	5.50	7.15	2.70	1.20	3.85	4.390
August	5.20	13.55	10.25	7.90	5.05	7.50	3.40	9.60	11.15	2.30	7.620
September	5.35	8.90	10.60	5.55	.37	1.75	10.25	5.30	4.05	5.90	5.802
October	3.00	7.75	6.50	7.75	8.05	5.80	7.50	4.65	7.50	6.60	6.510
November	12.90	8.25	7.05	2.70	13.00	7.70	2.30	11.25	7.60	7.50	8.025
December60	12.85	3.40	9.55	10.60	5.65	11.80	11.00	13.50	4.25	8.320
TOTALS	60.67	71.03	63.90	58.95	78.82	49.10	67.72	71.80	76.30	68.45	66.674

1898 New copper gauge fixed early in the year

N.B. Rejected from Survey as 10° too low.

RAINFALL AT Hawkshead Black Fell

Lat. Lon. County of Lancashire North
 Rain Gauge, by Observer S. A. Marshall Esq.
 Mif Marshall

Seven 2

Diameter ..	5									
Height ..	16									
Altitude ..	10551									
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	MEANS.
January ..	9.81	4.50	5.70	10.20	10.35	5.00	12.40	8.5	13.36	8.36
February ..	4.85	1.85	3.30	10.00		4.30	5.50	3.60	5.08	6.51
March ..	.30	4.30	5.10	11.25	12.70	6.75	5.70	...	6.64	4.64
April ..	4.80	4.30	3.40	2.35	7.30	5.90	2.62	3.25	2.62	4.89
May ..	4.10	1.85	3.30	4.70	4.50	3.60	10.02	7.30	5.96	4.01
June ..	6.80	3.75	1.35	3.00	3.55	4.50	3.14	12.79	4.84	2.76
July ..	2.50	1.00?	3.80	7.00	4.40	3.25	5.10	3.71	5.86	9.21
August ..	7.65	10.05	5.40	10.70	6.30	7.50	7.73	9.25	8.66	4.29
September ..	5.20	5.60	3.50	8.00	5.80	5.25	3.21	1.70	9.59	4.19
October ..	8.75	7.70	6.30	15.80	5.70	5.10	11.30	9.76	4.17	14.87
November ..	7.70	6.35	6.20	4.55	6.50	9.82	6.96	8.78	7.42	4.90
December ..	16.85	7.70	8.20	6.50	9.30	7.35	4.95	13.29	7.23	13.93
TOTALS ..	79.31	58.95	55.55	94.05	76.40	68.32	78.63		81.43	82.56

1906 July estimated
 1907. Jan. ? small. March gauge tampered with

N.B. Rejected from Survey as too low.

RAINFALL at Hawkshead Black Fell

County of North Lancashire

Observer Miss C Marshall

River Basin Leven & C 2

Rain Gauge, by

Diameter ...	5										
Height	1 6										
Altitude ...	1055										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	10.56	6.33	8.02	8.06	6.35	6.68	11.28	2.62	10.07	8.88	
February ...	12.49	11.83	7.25	5.06	10.45	11.25	6.90	1.89	8.98	1.70	
March	5.11	3.77	11.26	8.42	7.70	2.70	1.35	2.98	3.44	5.53	
April	4.94	6.23	1.62	8.13	2.20	4.50	4.63	2.68	1.37	3.04	
May	3.82	4.27	3.05	4.25	3.15	1.18	5.20	4.60	2.34	2.13	
June	2.76	5.82	7.86	6.05	1.22	2.12	4.71	3.56	2.73	2.53	
July	5.69	1.31	7.21	1.12	5.40	4.80	3.53	2.47	6.89	1.37	
August	12.19	6.99	8.66	2.86	7.85	4.51	3.45	11.82	6.29	5.46	
September ..	.70	6.85	2.81	2.80	3.55	1.35	3.39	7.22	14.81	8.32	
October ...	4.27	7.97	10.75	4.83	2.62		15.27	11.57	12.85	2.16	
November ..	6.47	13.18	4.16	8.70	11.53		12.16	7.12	4.43	5.07	
December ...	11.08	14.54	13.24	4.75	10.93	14.95	6.28	3.37	13.26	11.80	
TOTALS ...	80.08	89.09	85.89	65.03	72.95		78.15	61.90	87.16	57.99	

1915 Oct + Nov of leaking.

NB. Rejected from Survey as 10" too low.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.

RAINFALL at Hawkshead Black Fell

County of N. Lancashire

Observer Miss G. Marshall

River Basin Seven & C 2

[†] At Bradford Rain Gauge by Corolla
 Date: 5-62
 A.O. (26) 5-00
 4-98

[†] Correction, as for sheltered fell

Diameter ...	5"	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	METERS. 1930
Height	1 6						1.5					
Altitude ...	1055-											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929		
January ...	10.92	13.26	7.77	7.12	7.90	9.40	14.05	7.51	21.10	3.30	12.25	
February ...	7.88	3.34	7.64	8.46	7.5	6.50	20.35	5.32	14.20	2.85	.42	
March	9.18	11.30	4.74	3.27	2.63	1.75	2.82	7.50	7.32	1.45	3.84	
April	6.34	1.93	2.61	4.90	3.78	6.48	3.58	2.65	3.10	2.64	3.12	
May	(10.00)	5.54	4.56	3.02	7.05	8.88	2.98	2.70	1.68	4.17	3.10	
June	3.27	.19	3.59	7.62	4.59	.40	3.70	4.20	7.68	2.64	3.45	
July	9.56	4.16	7.84	5.80	6.88	2.30	5.08	5.90	14.64	(7.00)	5.15	
August	4.84	8.85	7.26	9.94	4.55	6.39	6.44	7.00	10.43	9.20	9.78	
September...	5.11	2.72	5.19	8.70	10.74	7.49	7.25	10.70	5.25	3.15	(4.50)	
October.....	3.33	4.19	3.46	14.53	7.39	10.40	4.82	7.63	13.45	9.05	(14.00)	
November...	6.19	(4.60)	4.10	10.18	5.72	2.65	10.66	8.75	15.80	19.56	9.86	
December...	8.37	11.63	10.92	8.68	15.58	6.69	1.58	2.00	7.50	14.56	11.50	
TOTALS...	(84.99)	(68.71)	69.65	86.30	78.06	(69.33)	83.31	71.86	123.75	(50.37)	(80.97)	

1920 May estd

1927. R. is overexposed on Moon

1921 Nov. "

^t Impaired R Corolla 5-10-25. Gauge fixed in rock on top of fell not far from edge may be affected by eddies. Possibly a better exposure could be got if g. were set in hollow to E. of present site. Rock slopes are distinct 8 yds. W., 30 yds. E., 50 yds. N., c. 1 mile off high 20 yds. S.

1930. Sept + Oct estimated.

NB. Rejected from Survey as 10° too low.

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

Date.	Lat. N.	Long.w.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1925	54° 24'	3° 1'	Gosforth	3 mi	S.W.	Brathay	1 1/4 mi	N.E.

RAINFALL at Hawkshead (Black Fell)*

County of North Lancashire

Observer Miss C. Marshall,

River Basin Leven & C - 2

Type of Gauge

Annual Average in. based on years obs. un-weighted. Period of average Ref.

462692/26

Diameter	5.										
Height	1.6.										
Altitude	1055										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	7.50	14.09	7.56	13.08	3.97	10.60					
February	8.64	(2.20)	(10.36)	5.56	14.06	3.15					
March	1.12	5.60	4.96	6.02	2.60	4.80					
April	2.70	(7.00)	3.60	3.78	4.68	4.42					
May	(5.00)	5.30	3.63	6.79	1.61	4.54					
June	8.65	2.30	3.53	3.70	6.84	5.52					
July	7.67	7.95	6.79	2.50	4.10	7.80					
August	3.69	1.70	(4.36)	8.02	4.89	5.65					
September	2.86	10.00	1.20	12.02	11.96	7.90					
October	6.86	12.30	3.68	12.64	13.00	7.56					
November	18.09	7.40	2.90	1.60	8.96	8.56					
December	8.00	14.20	(1.74)	14.85	5.96	13.25					
TOTALS	(80.78)	(88.04)	(56.29)	(84.56)	81.63	75.65					
			Crown Landings								

* Gauge over-exposed on moor. (B.R.)

1931. May estimated. Sept. tampered with

1933. n.p. - low.

1936 - figures for new gauge - No 8631/1.

NB. Spectra from survey as 10° too low.

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