RAINFALL AT Berkside, Helvellyn

60

Rain	, , , , , , , , , , , , , , , , , , ,		
Gange	Diameterin.	Height above Ground, ft. D., in.	Above Mean Sea Level, J. EDAT. 6.

YEAR	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January									14.50		
February								9.00	11.50	13.25	
Mareh								/	15:25		
April								10.25			
May									4.25		
June									2.00		
July								1	1.00		
August								9.50			
September							KA.	7.50			
October							/	10.75		1	
November							1	2.00	1		
December								5.00	1		
Totals								86.50	112:50	9825	

cecc

RAINFALL AT Helvellam Birtside Lon. County of Cumberland 8 Diameter Height/ 1873 1874 1875 1876 1877 1878 1879 MEANS. January 9 . 25 6.50 24.75 12.5011.00 14:00 17.25 10:00) February 13 . 75 13.75 14.00 9.00 3.25 15.75 8.25 700 14:00 March 3.00 7.25 10.25 6.75 10:00 4:50 4.75 3.75 April 3.00 0.00 3.00 450 32511.00 4.50 2.75 2.50 May 9.50 2.00 5.00 275 5:50 2:00 8:50 8:50 1.25 June 2 50 3.75 11 . 25 325 1175 675 800 475 10:00 July - . 75 9.25 6.75 450 5.50 2.50 13.50 1.25 11.50 August 2 - 25 8 - 25 7 - 00 21.75 650 11.25 11.00 8.00 10:50 September..... 5 25 5.00 14.00 165011.75 8.75 7.00 9.50 10:00 October 22.50 9.75 15.50 23.50 9.50 9.00 22.00 1225 3.00 November 8 - 50 3 - 25 / 6 - 50 6.002 7.50 18.00 3.00 1.50 December 7 00 14.50 17.25 48.00 13.50 16.75 13:50 4:00 7:00

1871 Sept & Oct. Gange witfully damaged

111.00 101.50 109.75 136.2574.75 71.25

1878 Gange moved 300 go 5. in Gel-

TOTALS 87-25 92-25 145-25

RAINFALL AT Selvellyn Birkside 70

Lat. Country of Cumberland

Rain Grange, by Observer & Bateman Eng FR.

Diameter								7			
Height								1			
Altitude								19001			
Year	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEAN
January									6.80	1.50	
February									6.00	4.10	
March							3	# z? 3.30	3 00	5.10	
April									3.60		
May									8.50		
June									4 60		
July								12.00		/	
August								10.90			
September									9 30		
October								14.90			
November											
December								7.80	3.00	6.40	
TOTALS								/	67.90		

RAINFALL AT Yelwellere Parksia O _County of Cumberland Observed F. Baleman, Esq., F. 9. S. Rain Gauge, by Derwent - 2 Diameter Height /. 0 Altitude 1,900] 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 MEANS. January 3. 10 1.00 7.30 13.80 14:10 5:20 3.80 6.80 4.00 6.410 February 10.40 5.80 9.80 10.10 8.00 14:30 2 60 3.50 1.20 2.20 6.790 March 3.10 7.20 5.40 4.00 6:30 5:20 5:70 1.30 3.90 4.10 4.720 April 5.70 1.80 6.90 4.20 3.00 6.50 3.50 3.60 4.70 4.00 4.390 May 3.20 7.40 0.40 4.90 5.60 4.70 6.00 2.00 4.60 4.90 4.970 June 5.40 9.20 8.70 6.10 1.40 2.70 2.70 .70 2.80 4.040 July 8. 20 7.40 14.30 6.10 8.90 5.10 7.70 7.70 11.90 8.270 August 2: 90 9.10 7.30 7.80 2:10 5:50 14:10 4:20 5.930 September... 8. 50 4.30 580 9.80 8:90 1170 13:20 9.20 2.20 7.740 October..... 2: 30 4.10 6.80 10.20 4.70 8.20 9.90 5.20 11.70 7.5.40 12.30

4:60 5:20 9:00 5:30

8:30 2:70 4-40 6.30

12.80

12.50

4.80 9.360

8.00 6.870 64.10 77.030

N.W. of Dollywaggan Pike.

November.... 10.90 15.60 11.90 12.90

December 5.60 8.30 6.20 6.40

Rejected from Survey, 18 °low.

RAINFALL AT Helvellyn Firkside

Lat	-			Lon.		Co	unty of	Cun	100	iani	×L.
	£	erwe _Rain (nt -	2,		Obser	ver G	24.79	till !	Sq C	2
71	ronsh	ly							375744	1	
Diameter	7	1									
Height	10										
Altitude	1900 T										
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	13.60	6.10	5.00	3.70	10.00	1.50	5.00	1.70	6.90	1400	6.750
February	1.50	-60			11.70						
March	5.40	2.80	2.20		4.10			1		1.6	
April	2.50	4.50	1-20		6.50						
May	4.50	4-10	7.90		7.10					A Comment	
June	7.50				4.50						
July	7-20	2.60			6.20						
August	9.00		12.10		8.30						
September	6.50				.20			9.30			
October	5.00	1			11.60				1000		
November	14.30	990	8.30		13.00				10 A 1 - 10 C		
December	.80	1000			9.50						
			1								
Totals	77.80	96.70	74.70	73.10	92.70	61.50	72.30	10240	77.70	86.10	81.500

1880-

Helvellyn Birkside RAINFALL AT County of Cumberland Observer G. H. Itill Eng C& Rain Gauge, by Derwest - 2. Diameter . Height ... 1 3 Altitude 1900 T Year ... 1900 1904 1905 1906 1907 1908 1901 1902 1909 MEANS. January 7.00 4.40 6.00 11.50 10.40 4.00 11.00 2.30 10.80 8.40 7.580 February . 5.70 3.50 4.00 11.00 5-70 3.00 4.20 4.40 4.40 6.20 5.210 March 1.20 4.10 4.90 14.50 5.00 8.20 5.80 6.30 8.20 7.30 6550 April 5.10 5.20 5.10 2.10 7.00 9.10 5.00 5.00 5.190 2.10 6.20 May 6. 60 3.80 4.20 6.40 5.50 3.70 13.40 9.20 7.20 4.40 6440 June 6.30 4.80 3.00 3.80 4.70 4.60 4.70 4.90 5220 3.00 12.40 July 5.30 2.20 5.60 7.00 5.10 3.30 5.70 3.80 8.70 10.80 5.750 August 11.70 9.20 5.10 11.60 8.00 9.00 8.20 9.30 10.70 5.20 8.800 September 7.20 8-50 5.00 9.20 6.00 6.40 3.80 1.30 10.70 5.10 6320 October . . . 10.90 8.70 7.60 24.00 4.80 8.00 13.70 14.90 5.60 18.90 11.710 November 9.50 7.00 8.20 6.20 6.00 11.30 9.50 9.10 8.10 5.00 7990 December . 20.00 6.50 9.30 7.30 8.00 6.00 5.30 13.30 9.30 12.70 9:470

1905 Jan 1 Fely short informaball any leaking

TOTALS . 9650 67.90 68-00 114 60 76.20 76.60 85.70 92.50 93.40 93.90 86-530

RAINFALL at_				
inly of Cumberland		Observer	G. H Hie	Usa CE.
				-
or Basin Derwent	2			

Diameter	7										
Height /	. 3										
Altitude 19	POOT										
Year 19	10	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEAN
January 9.	00	4.60	8.10	11.70	9.30	9.10	10-80	2.10	10.70	10.70	
February 16					The second second	1	7.50			350000000000000000000000000000000000000	
March 6	50	3.20	11.10	9.20		A STREET STREET	4.50			Sheek Sales Sales	
April 7.	70	7.40	1.90	10.50	3.30	4.10	5.30	7.60	1.50	3.30	
May 4				4.80	4.60	2.50	7.40	4.90	2.70	3.10	
June 3.	10	7.80	11.70	6.90	4.10	1.10	490	3.50	2.30	3.10	
July 10	.10	2:50	10.50	1.40	7.00	9.10	5.90	2.10	7.20	2.20	
August 16.	10	6.60	12.20		1 4.		4.50				
September f.	50	8.00	5.30	4.90	4.70	2.00	5.00	4.00	13.70	8.00	
October 5.	20	10.70	13.50	9.70	1,		15.40	10.40	9.00	3.60	
November 6	60	16.80	7.00	8.70	12.30	3.40	13.30	6.10	6.50	4.60	
December /4	90	24:30	21.10	8.30	15.80	16.10	6.60	3.20	10.00	13.20	
TOTALS 99	80	105.70	113.60	88.70	0160	74/20	01:10	63.40	82.00	65.40	

			Rejected 18' lo	u from .	Survey.			
Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
							j	

RAINFALL at HELVELLYN BIRKSIDE

IRKSIDE New Soupe

River Basin	De	rwen Gauge, l	Ł 2		Observer			lesky L	2.	
iameter					5					
eight					1.0					
titude					1900					
Year 1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MBANS.

6.50 11.30 7.10 13:00 6.70 January ... 12.50 February ... 6.80 9.60 5.90 5:00 2.50 3.00 2.00 2.40 8.30 9.90 1.40 March 450 April 8.70 4.70 3.50 4.70 3.50 520 9.40 5.00 440 260 6.40 May 3.70 20 6.90 6.00 11.80 410 June 3.20 July 2.60 7.70 9.40 510 990 7.40 August 8.80 8.20 11.50 15:00 11.80 13.50 7.50 7.30 10.20 540 330 September ... 7.60 October 1400 7.40 9.10 18:10 11.50 15.70 230 12.80 9:30 16:20 18.70 November ... 10.00 December ... 620 1.80 3.50 600 19.90 9.10

TOTALS ..

7500 85.10 88 20 112.80 98.70

9540

+ County	of 6	umbe	land	_	_	Observer	me	13 % 9	H. Hil	L 9 So	~ 6E.
leaking River	Basin	Jerwe	nt s				1	Hol	ne fe	wig	(1921)
7	of con	Rain	Gauge, 1	T	ne:- s	liek gr					
Diameter	7	10									
Height	13										
Altitude	1900					2500					
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.
January	6.10	9.20	6.00	4.00	470	4.00					
February						490					
March	8.10	7.50	3.20	3.50	1.50	1.80					
April	7.20	1.20	4.10	4.10	2.80	5.HO					
May		4.20	3.00	4.70	5.10	5.50					
June	3.70	.40	3.30	2.00	2.90	.30					
July	8.90	3.60	2.90	3.70	7.00	1.80					
August				10.70							
September	4.00	2.20	450	6.80	7.60	460					
October	3.00	3.30	2.60	12.80	5.60	8.50					
November	6.00	3.60	3.70	5.20	3.90	5.50					
December	6.20	6.50	8.80	6.70	8.00	690					
TOTALS	68.80	50.90	58.50	72:40	\$ 55.26	51-80	pos	next	sheet		
e iges Net	R. Co	erect	, xs.	inch a	from ,		hilime	any			to wat.
Position of	Station of Map, 2 m	on reduc	ed Ordne inch Ser	ance Sur ries	vey } N	o. of Ma			Refer	ence No.	
Date.	Lat. N	. Lor	ig.	Railway S	tation.		e Direct m gauge	ion	Parish Ch	urch.	Distance Direct from gauge
	1										

Annue

RAINFALL at Helvellyn (Birkside)*

		Observer Manchester Corpn. W.W.
	River Basin Derwent - 2	***************************************
	Type of Gauge	
ıl	Average 98 43 in based on wears obs. un-weighted.	Period of average 1916-1950 Ref.
		660604/26.

			-			66	0604/2	6.				
Diameter .	 5.											
Height .	 1.0.						-					
Altitude .	1900.											
Year .	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January .	 7.6	20.30	10.85	15.94	4.69	14:29	14.84	12. 08	14.26	1.66	11651	1089
February						/	10.30				6871	6151
March	 2.0	6.64	6.96	6.79	2.60	6.90	8.30	5.50	7.57	10.29	6355	
April	 5.6	9.21				,	6.01				5173	
May	 6.8	638	4.83	6.89	1.13	1.95	3.82	8-31	2-25	2.95	4531	
June	 10.8	5.75					5.28				6848	5768
July	 9.2	10.72	8.60	3.20	4.55	1067	6.55	13.27	14.73	10.22	9171	825
August	 4.9	291					4.98				5780	
September	 5.1	10.09	2.65	13.52	16:37	12.02	8.35	6.53	2.96	1	8410	10.8
October	 5.7	14.28	9.00	15.11	16.37	8.10	6.64	19.59	6-23	11.00	11202	
November	 172	6.61	473	4.41	9.78	11.24	2.49	17-17	15.29	11.40	10032	
December	 6.1	16.98	1.65	19.53	7.69	15.82	6.94	8.59	5.14	10.68	9915	930
TOTALS	 91.2	110.31	71.67	10820	99.37	103.45	84.53	114-42	97.86	78.38	95939	9115

* Gauge over exposed on Moor. (B.R.) to 1931.

1981 Gauge removed to sile selected by inopector + ownormed by linf wall.

Pointed in Bh. with foot note "Linf wall round guage".

Date.	Lat. N.	Long.	Railway Station,	Distance Direction from gauge	Parish Church.	Distance Direction from gauge
1931.						

1943. Feb. aprile, aug., Oct De 1944 n.p. too much columnation from 1945 n.p. low. Feb part cot of 1947. Febb harch est. np los.	e app the Al	on low	w
	65404	20004	30004

& Turk wall round gauge

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 Direction from gauge	Parish Church.	Distance Direction from gauge.		
					P. P. G.			

	48.43	based or	25 "	rs obs. un	-weighted	d. Perio	d of aver	File		26738	Ref	
Diameter	5				592	775						
Height	1' 0"				,	1				*		
Altitude	1900	•				51						
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	
January	9.29	(8.22)	5.81	818	8-23	(6.08)	14.63	10.09	6.94	13.87		
February	10.20	. ,	4.58	7.28	(3.45)	1. 97	9.80	9.86	3.13	12-37		
March	8.10	-		7.54		(4.03)	8-23	2.19	7.58	3.3 4		
April	6.80	5.62	5.48	2.43	4.32	2. 18	2.37	3.12	8.48	726		-
May	4.11	5.00	5.67	7.40	8.29	H. 83	5.02	9.70	2.16	4-11		
June	1.76	4.63	5.39	9.15	y.12	5.52	2.98	7.43	6.92	730		
July				7.72	4 38	8.96	7.58	7-12	9.45	9.95		
August	10.75			10.04	4.46	16.19	11.54	7.83	2.13	5-96		
September	12.78	9-42	16.00	1820	7.21	7. H3	11.08	10.17	1.54	5-65		
October	1-28	11.62	5.34	20.63	Y 36	7. 25	12.55	10-23	15.51	8-15		
November	22.25	6.09	17-66	19.87	477	3.99	441	2.49	15.61	20-39		
December	15.40	7.89	6.87	12.67	12.93	13.36	11-12	8.84	19.13	9.84		
Totals	108-81	87-05 M	9899 M	151-11	y5.97	81.79 NP.	101.31	89.07	95.28	108.19		
1955 Feb.	Mar. app. 1	7. 0.3b.	P faut.		30004	50004	1/2			7		
1957 np 1958 pr - sh. 3	and !	40004		Ls. 9	le su	s. 0°	d to	of w	el .			1
		dnance O	ne-Inch 1	nap:	No. o	f Map			ional Gr	id Referen	ce NY 33	
sition of Sta			Long. Railway S		Station. Distance Direct from gauge		rection age Parish Church.		Distance Direction from gaug			

A.M. Form 1903. Air Ministry, Meteorological Office.