

## RAINFALL AT Windermere Holehird

70

Lat..... Lon..... County of Westmoreland  
 Rain Gauge, by..... Observer... Robt. Mr. Durlap

Diameter.....					8						
Height.....					1.						
Altitude.....					420			425			
Year .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....						9.35		9.33	7.05		
February.....						2.70		8.60	3.30		
March.....						2.08		5.05	4.65		
April.....						1.0		3.25	3.07		
May .....						4.85		1.90	4.80		
June.....						3.32	4.75	6.30	5.45		
July .....						2.95	4.98	5.90	3.0		
August.....						8.26	2.00	5.00	5.27		
September.....						7.44	7.33	6.36	7.09		
October.....						15.25	11.60	8.64	4.06		
November.....						5.24	7.22	11.58	3.22		
December.....						6.30	5.0	8.33	3.60		
TOTALS.....						57.46	—	80.24	51.86		

1876 N.D.

1877 nothing within 60 or 70 yards of gauge

1879 no reply

## RAINFALL AT Windermere Holbeck

Lat. 54° 24' N

Lon. 2° 55' W County of Westmoreland

Smeeton

Rain Gauge, by Casella

Observer W.G. Groves Esq.

Leven - 2.

Diameter ..				5						
Height ....				1 0						
Altitude ..				483						
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
										MENS.
January ..				10.23	8.92	3.78	11.56	3.01	10.34	6.45
February ..				8.88	5.94	4.35	4.92	5.32	4.50	4.47
March ....				9.70	6.20	5.80	4.69	6.48	6.28	5.20
April.....				2.17	6.45	6.82	1.88	3.30	3.61	5.00
May .....				4.21	3.75	2.51	8.26	6.27	5.66	4.03
June .....				2.92	2.79	3.27	2.07	10.23	3.48	2.97
July .....				5.54	3.57	2.40	3.44	3.33	4.94	7.19
August .....				9.66	5.24	5.80	6.03	6.83	7.49	3.69
September..				7.48	4.29	4.10	2.82	1.16	8.20	3.93
October....				16.41	3.98	4.42	7.91	7.83	3.97	12.95
November ..				4.13	5.58	8.85	6.71	6.48	5.73	3.93
December ..				6.35	7.65	5.29	4.93	9.60	6.22	12.63
TOTALS ..				85.68	64.36	57.39	65.22	69.84	70.42	72.44

D D D D D D

1903 Troutbeck Church 1/2 miles N

Blasbrowne 1/2 mile 72 ft N

Wall 10 - . 90 . E. S + W

Windermere Station 1/2 miles S

## RAINFALL at Windermere Holmehead

County of Westmorland

Observer W.G. Graveshay

River Basin Lune 2

Station Rain Gauge, by Casella

Diameter ...	5										
Height .....	10										
Altitude ...	495 L										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	9.56	14.78	8.17	7.91	6.63	7.70	10.81	3.98	9.67	9.43	3369
February ...	10.53	10.88	6.09	5.87	10.57	12.84	9.26	1.90	9.84	1.90	2090
March .....	3.79	3.04	10.08	9.04	7.22	2.58	2.49	3.42	3.06	7.05	1602
April .....	4.44	14.78	2.04	8.14	1.81	3.70	3.88	2.65	1.37	3.72	1162
May .....	3.23	3.26	3.07	4.19	2.93	1.75	4.83	3.65	2.55	2.31	1324
June .....	1.79	4.79	7.99	5.92	2.34	1.48	5.38	3.72	2.72	2.88	11470
July .....	5.06	1.07	6.60	1.13	4.79	6.50	3.38	1.87	6.94	1.99	1418
August .....	10.00	5.29	7.70	2.41	6.64	3.88	4.10	11.90	5.18	5.13	2631
September ..	.74	5.98	2.73	2.79	4.90	1.91	3.08	6.60	15.08	6.93	3149
October ...	3.60	7.73	9.26	4.98	2.26	2.17	3.36	11.07	10.27	2.43	3713
November ...	6.49	11.13	7.18	9.07	10.94	3.84	10.30	7.30	4.97	5.14	2721
December ...	8.91	13.34	12.60	6.07	10.65	12.04	6.24	3.79	12.62	11.73	3438
TOTALS ...	68.14	76.07	83.51	67.02	71.68	60.39	75.11	61.85	84.27	60.34	2817
	D	D	D	D	D	D	D	D	D	D	

+ 1912 Sept. 9 in kitchen garden. Sweet peas 6' high had been allowed within 3' of g. but observer promised to keep clear in future.

1913 Raspberry 5 ft high 50 ft SE

Wall 10. . . . 90 E, S & W

Glass House 10. . . . 72 N

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911	54 24	255 W	Windermere	1/2 mi	S	Troutbeck	1/2 mi	N.

## RAINFALL at Windermere Holehird

County of Westmorland

Observer R. G. Groves Esq. M.A. F.R.S. M.B.E.

River Basin Level 2

R. G. Groves, Esq.

Snowdon Rain Gauge, by Gascoigne

Diameter ...	5"												
Height .....	10												
Altitude ...	483												
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	M. 1930:		
January ...	10.82	13.56	8.70	6.64	7.19	7.73	10.07	8.04	18.75	3.50	12.43	10743	
February ...	8.59	-28	7.08	9.83	1.17	8.07	10.45	5.34	8.18	2.21	.71	6191	
March .....	9.36	9.67	4.86	2.62	2.44	2.16	4.47	6.92	7.76	1.50	4.02	5578	
April .....	7.31	1.99	3.57	5.39	3.45	7.46	3.56	3.88	7.35	2.85	2.99	6580	
May .....	8.24	4.96	6.12	4.33	7.47	7.78	2.95	3.20	1.18	4.07	2.45	5075	
June .....	3.66	-36	2.69	1.84	4.47	2.7	4.18	4.86	8.34	3.18	2.42	3627	
July .....	8.07	4.42	7.23	6.38	6.65	2.24	5.44	5.83	8.17	7.08	4.12	6563	
August .....	3.82	10.61	6.52	11.17	5.62	6.07	6.16	7.77	9.27	8.88	10.03	8542	
September...	4.11	2.34	5.09	7.87	9.02	5.95	6.17	9.37	4.73	3.11	4.34	6210	
October.....	2.90	3.67	3.01	13.79	6.39	9.44	6.04	7.97	12.25	9.65	12.44	8755	
November...	5.08	4.13	3.98	11.07	6.03	3.54	12.12	8.41	15.54	15.70	9.02	9062	
December...	8.17	11.77	10.65	8.21	14.76	6.08	2.16	2.34	6.88	13.48	8.07	9257	
TOTALS...	80.13	67.76	67.50	89.14	74.66	66.79	73.77	73.93	104.40	74.71	73.04	84583	
	D	D	D	D	D	D	D	D	D	D	D		

1920 Raspberries 5ft high 50ft S.E.  
 Wall 10 .. " 90 " E.S.W  
 Glasshouse 10 .. " 72 " N

1930 Observer gives his average for 28 years as 72.78."

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	Parish Church.	Distance from gauge	Direction
1920	54° 24'	2° 53'	Windermere	1/2 mi	S	Grotbeck	1/2 mi	N

## RAINFALL at Windermere (Holehird)

County of Westmorland

Observer H. L. Groves, Esq.

River Basin Leven - 2

Type of Gauge

Annual Average 68.0 in. based on 26 years obs. un-weighted. Period of average 1881-1915 Ref. S

895800/29.

Diameter	S.											
Height	1. 0.											
Altitude	483.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	7.31	11.24	7.57	10.37	2.85	8.50	7.59	10.87	9.46	4.77	8102	
February	7.37	1.17	6.63	4.47	10.99	3.49	10.47	3.76	8.84	2.71	5490	
March	1.07	5.68	5.46	4.99	2.41	4.59	3.16	4.48	4.50	7.56	4380	
April	3.49	5.86	3.04	5.22	5.09	1.20	4.34	.86	2.94	2.96	3494	
May	4.36	6.09	3.54	5.62	6.67	1.12	3.68	6.59	1.48	1.39	3354	
June	7.75	8.48	2.81	3.61	6.02	5.93	3.30	8.67	4.00	1.17	4734	
July	7.41	6.90	4.59	2.15	2.98	6.15	4.10	10.58	9.36	7.44	6166	
August	4.68	1.68	4.44	7.17	4.60	4.84	3.59	4.75	2.95	1.92	4062	
September	2.65	8.46	1.27	9.73	12.51	7.45	4.92	3.96	3.38	5.28	5960	
October	5.28	11.21	5.04	11.29	11.65	6.30	4.01	16.86	8.59	7.58	8291	
November	14.54	5.82	3.02	1.60	7.04	7.42	2.62	12.25	12.13	8.62	7566	
December	6.49	11.24	1.75	12.48	4.70	10.87	6.64	7.54	2.44	8.31	7379	
TOTALS	72.40	76.73	49.16	74.70	71.51	67.86	58.42	91.16	67.59	59.65	68918	
D.	D.	D.	D.	D.	D.	D.	D.	D.	D.	D.		

1931. Raspberries 5' high 50° S.E. Garden wall 10' high 90° E.S.W. Glasshouse 10' high 72° N.  
Apple tree 6' high 10° S.W.

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	Parish Church.	Distance from gauge	Direction
1931.			Windermere	1½ m	S.	Houtbeck	1½ m	N.

Station No. 3696

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## RAINFALL at Windermere (Holehird)

County of Westmorland

Observer H. L. Groves - Esq.

River Basin Leven - 2

Type of Gauge 110

Annual Average 68.9 in. based on 26 years obs. unweighted. Period of average 1881-1915 Ref. S

File No. 895800/20.

Diameter	5'			387	328						
Height	1' 0"					1					
Altitude	483					X41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.95	8.41	15.13	9.41	5.89	9.48	7.58	11.78	4.18	(4.62)	7793
February	8.59	2.59	4.56	3.48	8.30	5.76	1.06	5.61	4.41	8.45	5581
March	3.96	5.42	2.20	.79	4.41	3.97	8.91	4.35	2.40	4.82	4226
April	1.98	3.86	4.22	4.90	3.77	1.64	8.14	2.67	5.60	5.15	4393
May	4.20	5.12	6.67	3.03	5.12	1.99	4.05	2.07	3.10	2.19	3954
June	.50	.86	4.32	4.39	4.80	6.16	3.88	7.04	.85	3.18	3598
July	2.13	4.64	5.53	3.76	4.38	5.82	4.31	2.78	2.74	6.46	4355
August	7.09	6.72	9.55	4.92	3.55	6.27	.21	6.45	2.62	11.20	6058
September	2.10	6.37	7.68	7.12	6.08	12.09	4.87	6.78	1.39	14.84	7002
October	8.24	7.43	8.26	7.87	8.41	.94	1.29	4.86	6.51	6.23	6304
November	5.48	2.06	4.34	11.48	.46	11.80	10.54	5.61	7.96	6.62	7135
December	4.03	10.09	3.44	8.76	5.08	8.82	3.52	6.51	8.81	4.04	6910
TOTALS	50.25	63.57	73.90	69.91	60.25	75.24	58.36	66.51	50.57	77.88	67309

1941 Raspberry bushes 5' high 50° S.E. Garden Wall 10' high 90° E.S.W. Glasshouse 10' high 72° N.

1944 Go above and Apple tree 8 ft. N.E.

1945 " " But 6 ft. 10 ft. S.E.

1946 Gauge moved 45 ft. W. in early - Raspberry 5 ft. high, 50-80 ft. S.E.

Garden wall 10 ft. - 60 ft. S.W.

Apple trees 6 ft. - 10-24 ft. N.E.

Glasshouse 10-20 ft. - 70-60 ft. N.W.

1949 N.E. low

1950 0 ft. funnel testing, replaced.

1950 fun 1" added due to funnel defect.

33334 66674 40004

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
1941			Windermere	1 miles S.		Tarnthwaite	1 miles N.

Station No. 3696

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## RAINFALL at Windermere (Holehird)

County of Westmorland

Observer

H. L. Groves Esq.

River Basin. Leven - 2

Type of Gauge. M.O.

Annual Average 68.0 in. based on 26 years obs. un-weighted. Period of average 1881-1915 Ref S  
 71.13 - 35 " 1916-1950 1916-1950 File No. 895800/29 P

Diameter ...	5"				587	328					
Height ...	1' 0"						1				
Altitude ...	500'						51				
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	8.19	6.61	4.63	6.47	6.21	6.42	10.43	8.44	4.12	11.52	
February	7.44	1.16	3.86	6.43	2.18	1.58	7.03	8.60	2.60	8.04	
March	6.48	4.81	.98	5.25	2.81	3.32	6.23	2.04	5.85	2.02	
April	4.15	4.78	4.71	2.50	3.62	1.56	1.51	1.83	6.11	6.10	
May	2.14	4.20	3.18	4.63	4.34	3.88	4.73	6.24	1.35	3.51	
June	1.55	5.07	4.45	7.11	5.11	2.75	2.72	5.18	5.44	3.64	
July	3.99	3.28	4.83	5.98	2.62	6.24	4.17	4.59	6.70	7.95	
August	7.65	7.96	8.57	8.07	3.49	11.19	6.89	5.51	1.28	5.11	
September	9.50	5.82	10.78	13.23	4.60	6.04	7.07	8.84	1.37	5.01	
October	1.02	7.28	3.57	15.12	5.89	5.87	8.66	8.41	8.27	5.91	
November	13.08	3.80	11.62	14.32	3.80	2.42	2.78	1.99	9.20	13.24	
December	15.22	7.30	4.98	9.98	10.45	8.60	7.04	6.19	14.59	7.77	
TOTALS ...	80.41	62.07	72.16	99.10	65.78	59.87	69.26	67.86	66.88	79.82	
	D	D	D	D	D	D	D	D	D	D	

1951 Stone wall (sunken) 18', 45° NW; Iron fence 4', 29° SW; Stone wall 6' E, 31° NE;  
 Stone wall 5' 30° SE;  
 1955 Stone wall 6' - distance 31° N.E.; Stonewall 5' - distance 30° S.E.; Railway 4' 6' distance 29° E.W.

Position of Station on Ordnance One-Inch map : No. of Map ..... National Grid Reference M(35)413 07

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge.
1951			Windermere	1 1/2 mi	S	Trotbeck	1 1/2 mi N.

Summary of Earlier Records from 10-year Sheets :

1916-1950 P-accepted

Record D, or d		1910-19	1920-30	1931-40	1941-50	1951-60
	10	✓	✓	✓	✓ np 49	
		✓	✓	✓	✓	