

RAINFALL AT Morland [Penrith]

Lat. $54^{\circ} 35' N$ Lon. $2^{\circ} 45' W$ County of WestmorlandEden - 1. Rain Gauge, by Observer Col. F. Markham
mif m Markham

Diameter ...			5									
Height			10									
Altitude ...			455T									
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.	
January ...			2.17	6.09	5.56	1.41	5.60	1.23	2.70	4.68		
February ..			1.27	5.78	3.80	2.82	3.33	3.11	3.83	1.97		
March			2.07	7.99	2.05	3.53	2.15	2.89	4.12	2.45		
April.....			1.93	1.26	2.56	3.06	.94	2.02	2.00	2.72		
May			2.61	2.63	2.97	.62	6.19	4.55	2.35	1.94		
June			1.38	.95	1.78	1.80	.72	4.40	1.50	2.18		
July			3.51	3.23	1.52	1.35	1.21	1.72	2.85	3.97		
August			1.95	4.02	4.33	3.38	4.42	2.65	4.23	3.22		
September..			1.80	4.62	1.12	2.97	1.08	.38	2.61	2.16		
October....			2.98	8.96	1.25	2.41	5.89	4.54	2.25	5.58		
November..			2.69	2.39	2.96	3.97	3.41	3.34	2.83	1.52		
December ..			5.25	3.24	4.05	1.19	3.00	6.07	2.79	5.37		
TOTALS ...			29.51	51.16	33.45	28.51	37.94	36.90	34.06	37.76		

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1902 Morland Church 150 yards N

Chiburn Station $2\frac{1}{2}$ miles1905 Gauge is on a lawn shut in on all sides by yew hedges 2 sides
of house other two sides average height about 25 ft but distance
to base of gauge side is as much or greater than these

368710

RAINFALL at Morland [Penrith]

County of Westmoreland.

Observer Mif M. F. Markham

River Basin Eder

Rain Gauge, by

An. Av. 1916-50 36.84

Diameter ...	5										
Height	10										
Altitude ...	456										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	4.46	1.90	4.69	3.90	2.73	3.39	4.40	1.95	4.43	3.82	
February ...	6.40	3.87	2.94	2.75	6.24	6.60	12.28	.93	3.58	.75	
March	2.55	1.32	4.24	5.80	3.70	1.15	2.11	2.15	1.38	3.03	
April	3.08	1.94	.60	5.95	1.52	2.00	2.52	2.24	1.02	1.81	
May	1.82	2.14	1.47	1.69	1.84	1.61	2.65	2.79	2.09	1.65	
June	1.54	3.95	5.00	1.87	1.86	.72	3.18	2.18	1.19	1.79	
July	4.60	.66	3.40	.89	3.59	4.06	3.97	1.13	4.18	.95	
August	5.82	2.73	4.72	1.26	2.23	2.52	2.48	7.38	4.04	2.92	
September31	4.27	1.74	2.37	2.11	1.14	1.76	2.26	8.97	1.44	
October ...	2.30	3.18	3.57	8.55	1.07	.86	7.24	4.67	4.99	2.84	
November ...	3.04	4.90	3.60	3.35	5.41	1.40	4.32	2.82	2.99	2.95	
December ...	3.34	8.93	4.89	3.57	7.71	7.23	2.56	1.60	4.15	6.15	
TOTALS ...	39.30	39.79	40.86	36.94	40.01	32.68	41.47	32.10	43.01	59.53	

26-25 b final 25 Jr N + E

Heads 25 : 25 . 54 N

1916 "g. is on lawn. skirted on all sides by yew hedges on two sides and box on two sides. The average height is about 25 ft; but the distance to the base of any side is much greater than this."

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911	54°25'	245°W	Gibburn	26 mi	N	Thorland	150 yds	N

RAINFALL at Penrith Moorland

County of Westmorland

Observer Miss M. F. Markham

River Basin Eden

Fred R. Markham, Esq. (09-22)

Lanthanide Compounds

An. A. 1916-50 36.84"

(1922) Camp in centre of a quarry measuring 80 ft. east side; ledges 5 buildings 10-20 ft. high all round.

20/3/27 Inspected. See green file

Position of Station on reduced Ordnance Survey Map, 2 miles to 1 inch Series			No. of Map	Reference No.				
Date.	Lat. N.	Long. W.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
1920	54° 35' ^{45"} _{2'}	2° 45' ^{37"} _{24"}	Cleburn	2½ mi	N	Morland	1507ds	IV

RAINFALL at Morland Hall

County of Westmorland

Observer

River Basin Eden 1.

W. Gordon Shorrocks Esq.

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Britannia

Mo 1929?

Rain Gauge, by

An. Av. 33.45" 1916-50

Diameter ...										5"
Height										1' 0"
Altitude ...										475
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929
										MEANS
January ...									6.63	.74
February ...									3.74	.49
March									3.77	.14
April.....									.79	1.33
May									1.32	1.80
June									4.66	1.58
July									2.54	3.81
August									6.18	3.32
September...									1.44	1.68
October.....	From Warton Hall C. Lancs.								6.93	4.55
November...									5.57	5.82
December...									2.20	6.34
TOTALS...									44.87	31.57
										40.50

Tours 50 ft. high 70 ft. N. & S.

House 40" - 65" W.

1930 Inspected June gauge sound but measures real incorrectly. New tapes measure purchased July 1930. Exposure best available but somewhat overshadowed by trees except a road.

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
			Temple Sowerby	3 mls. E.N.E.		Morland	1 mls. W.	

RAINFALL at Morland

County of Westmorland.

Observer F. R. Markham, Esq.

River Basin Eden - 1.

Type of Gauge Gasholder.

Annual Average 35.6 in. based on 27 years obs. un-weighted. Period of average 1881-1915 Ref. 5

662699/26.

Diameter	5.										
Height	1.0.										
Altitude	455.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	3.23	7.15	5.39	4.68	2.10	5.29	4.05	5.39	5.35	1.13	
February	3.10	.13	3.58	.05	4.75	2.62	4.93	1.24	3.50	1.21	
March	.79	2.86	2.00	2.31	1.22	1.90	1.81	1.74	3.40	3.12	
April	2.34	3.26	1.08	3.38	3.99	.70	2.01	.30	.94	1.56	
May	2.26	3.20	3.30	2.78	.76	1.36	3.08	2.62	.40	1.37	
June	4.08	2.30	2.57	1.52	3.92	3.37	1.15	3.81	3.19	1.06	
July	3.71	5.46	2.10	1.60	1.16	4.00	2.71	4.53	3.60	4.17	
August	3.20	1.01	1.58	3.03	1.75	1.48	2.33	2.82	2.60	1.20	
September	1.60	3.77	1.80	3.51	5.91	5.08	2.44	1.62	1.08	3.32	
October	2.14	6.62	3.56	6.15	6.24	3.80	1.64	3.79	2.32	5.16	
November	7.58	2.05	1.82	.41	3.53	3.94	.54	6.59	5.00	4.14	
December	2.56	4.65	.46	6.33	2.32	6.73	3.48	4.19	1.51	3.45	
TOTALS	36.59	42.46	29.24	35.75	37.65	40.24	30.17	43.54	33.22	30.89	
	D	D	D	D	D	D	D	D	D	D	

1932. Gauge in centre of square with 80 ft sides, having 18' 20' trees + buildings all round.

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.			Gillburn	2 1/2 m	N.	Morland	155 yds.	N.W.

BRITISH RAINFALL ORGANIZATION, EXHIBITION ROAD, LONDON, S.W.7.

RAINFALL at Morland Hall,

County of Westmorland,

Observer W.G. Sharrock, Esq.,

River Basin

Type of Gauge Snowdon

Annual Average 3345 in. based on 8 years obs. year-weighted. Period of average 1916 - 50 Ref.

Loc.

S15972/28.

Diameter	5.										
Height	1.0.										
Altitude	475.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	2.90	7.00	3.85	3.88	2.00						
February	2.62	.15	2.43	.08	4.11						
March	.78	2.68	1.70	1.94	1.19						
April	2.10	2.80	1.17	3.20	3.50						
May	1.99	3.06	3.10	2.52	.77						
June	3.63	2.01	2.63	1.38	3.34						
July	4.02	5.23	2.01	1.65	1.07						
August	2.92	.47	1.52	3.03	1.59						
September	1.52	3.61	1.69	3.17	5.69						
October	1.94	6.12	3.37	5.71	5.79						
November	6.45	1.85	1.81	.42	3.29						
December	2.31	3.71	.48	5.52	2.24						
TOTALS	33.18	39.19	25.76	32.50	34.58	N.R.					

1931. Elevation 50' high 70° N. Open E. Elevation 50' high 70° S. House 70' high 65° 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 from gauge	Parish Church.	Distance from gauge	Direction from gauge
1931.			Temple Sowerby	3m	E.	Morland	1m	W.

BRITISH RAINFALL ORGANIZATION, EXHIBITION ROAD, LONDON, S.W.7.

Station No. 3687

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RAINFALL at MorlandCounty of WestmorlandObserver J. R. Markham Esq. Date 19.1.48River Basin Eden - 1Type of Gauge GlaisherAnnual Average 35.6 in. based on 27 years obs. un-weighted. Period of average 1881-1915 Ref. S

36.84 26.75. 1916-50 File No. 662699/26

Diameter	5 "										
Height	1' 0"										
Altitude	455'										
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	7.5	3.11	5.86	3.51							
February	5.62	1.84	2.17	1.45							
March	2.47	3.02	.95	1.33							
April	4.49	2.62	2.07	1.06							
May	2.25	2.95	4.65	1.06							
June	6.63	.62	2.42	2.18							
July	1.51	2.22	2.60	3.89							
August	5.01	3.10	6.17	1.87							
September	1.03	3.53	3.15	4.19							
October	4.37	3.65	4.78	3.16							
November	2.32	1.25	2.14	6.94							
December	1.67	5.31	2.73	4.82		#					
TOTALS	28.12	33.22	39.71	35.46	N.R.	N.R.					

1941 gauge in centre of square with 80' sides, with trees 18'-20' high and buildings all round.

1946 (804) gauge leaking - winter can. No record until 1947

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			Blawith	2 miles	N.	Holmwood	105 pds	N.W.

BRITISH RAINFALL ORGANIZATION