

## RAINFALL AT

40

Bennith Greytoke Castle  
Cumberland

Observer \_\_\_\_\_

Rain Gauge { By Crossley  
Diameter 10.00 in. Height above Ground, ..... ft. .... in. Above Mean Sea Level 700 ft. 3

YEAR.....		1845	1846	1847	1848	1849	MEANS.
January.....			3.64	2.18	1.89	7.82	
February.....			2.54	2.10	9.72	2.25	
March.....			5.30	1.21	1.79	1.40	
April.....			3.05	3.23	2.81	2.07	
May .....			1.79	4.03	1.12	.62	
June.....			5.08	3.00	4.90	.72	
July .....			\$				
			16.95	.10	2.75	3.81	
August.....			3.57	2.22	3.75	5.06	
September.....			1.65	3.50	2.63	3.03	
October.....			2.42	7.19	7.17	3.96	3.26
November.....			6.24	4.54	6.34	3.94	4.33
December.....			5.54	1.44	2.68	4.74	2.01
TOTALS ....			56.74	37.76	44.00	36.38	

Copied from the original register by T. G. Benn  
who states "The observer in years gone by has had a  
very limited knowledge of decimals." The amounts are  
entered in inches tenths hundredths and there are  
numerous cases of  $\frac{1}{200}$  which have muddled the computer"  
1846 July 5 9.53 inches from  $\frac{1}{2}$  past 3 to  $\frac{1}{2}$  past 5 (Quotation  
from original register).

1845 - From Mr. S. A. Marshall - His record agrees  
with this except occasionally by .01

RAINFALL AT Pennith Greytoste Castle  
Cumberland

Observer \_\_\_\_\_

Rain { By Crosley .....  
Gauge Diameter  .....in. Height above Ground, .....ft. ....in. Above Mean Sea Level .....ft.

YEAR.....	1850	1851	1852	1853	1854	1855	1856	1857	1858	1859	MEANS.
January.....	2.73	7.53	9.84	6.39	2.81	1.01	2.95	2.50	1.58	6.35	
February.....	3.86	.82	5.40	1.30	2.56	.86	2.89	2.30	.70	5.99	
March.....	.67	4.93	.22	.78	.51	2.45	.20	4.08	2.79	3.93	
April.....	2.76	2.06	.87	3.98	1.45	2.23	2.46	1.88	.53	2.60	
May.....	2.72	1.00	3.11	1.71	2.58	1.07	3.65	1.50	4.08	.20	
June.....	3.94	3.39	6.59	2.95	4.85	4.91	4.19	2.11	3.36	1.72	
July.....	4.94	5.41	2.70	3.54	.17	1.85	1.70	2.76	2.57	2.28	
August.....	4.49	3.55	4.66	1.94	2.22	3.70	3.39	3.97	2.71	4.64	
September.....		2.68	3.07	3.95	2.67	1.16	3.97	2.64	4.43	3.58	
October.....	18.69	4.18	3.22	3.84	1.53	6.69	2.94	2.75	4.57	3.55	
November.....	5.63	1.27	5.98	2.11	2.43	2.20	1.25	2.87	2.33	5.79	
December.....	2.59	1.72	12.28	.71	5.30	1.71	6.81	5.82	3.76	3.27	
TOTALS ....	43.02	38.54	57.94	33.20	29.08	29.84	36.41	35.18	33.41	43.90	320.52

Copied from the original register by T. G. Benn. see 40 sheet

1850-9 - Agrees with Mr S. A. Marshall's book except  
an occasional .01

RAINFALL AT Graythorne, Penrith

Rain { By Crosby  
 Gauge Diameter..... in.

Height above Ground, ..... ft. .... in. Above Mean Sea Level, 700 ft.

YEAR.....	1850	1851	1852	1853	1854	1855	1856	1857	1858	1859	MEANS.
January .....	2.73	7.53									
February .....	3.87	.82									
March .....	.67	4.94									
April .....	2.76	2.06									
May .....	2.73	1.01									
June.....	3.94	3.39									
July .....	4.94	5.41									
August .....	4.49	3.55									
September ...	3.60	2.69									
October.....	3.26	4.18									
November.....	5.69	1.28									
December.....	2.54	1.72									
TOTALS .....	41.22	38.58	57.99	33.23	29.10	29.88	36.38	35.20	33.43	43.99	

43.04 c c c c c c c c

43.04 is also repeated in another return.

RAINFALL AT Penrith Greystoke Castle  
Cumberland

Observer.....

Rain	{ By.....										
Gauge	{ .....										
	Diameter.....in.										

Height above Ground, .....ft.....in. Above Mean Sea Level .....ft.

YEAR.....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January.....	7.40	1.58	4.59	7.61	2.82	3.10	8.11	5.57	6.45	3.79	5.097
February.....	2.21	4.63	1.32	3.09	2.80	2.51	4.71	3.30	4.69	7.07	3.533
March.....	5.79	5.30	3.02	1.77	4.60	1.49	2.62	1.54	5.37	7.9	3.239
April.....	2.14	.83	3.30	3.92	1.36	.84	2.24	4.56	3.73	1.85	2.477
May.....	1.89	.83	4.18	2.69	1.70	4.45	4.62	2.67	1.66	4.19	2.885
June.....	4.50	2.12	3.25	4.04	3.02	.71	1.07	1.18	.04	.57	2.050
July.....	1.57	4.14	3.70	1.29	1.38	1.98	3.86	3.35	.29	.16	2.172
August.....	4.66	4.80	2.82	4.19	2.06	4.42	4.99	2.41	2.84	2.10	3.529
September.....	1.74	6.54	2.63	6.91	4.33	2.28	7.38	4.08	3.69	1.22	4.080
October.....	6.79	1.47	7.83	5.17	3.82	4.04	2.96	3.62	5.72	4.09	4.551
November.....	1.56	8.81	2.86	4.83	3.22	3.85	4.53	.71	4.69	6.68	4.174
December.....	3.58	3.34	4.29	4.19	3.01	3.65	4.56	2.50	6.38	6.05	4.155
TOTALS ....	43.83	44.34	43.79	49.70	34.12	33.32	51.65	35.49	45.55	38.56	42.035

Copied from original register by T.G.Benn. see 40 sheet

Agrees except an occasional .01 with Mr S.A. Marshall's  
copy

RAINFALL AT grey slate, Penrith

A Rose Gardenia grows on a  
 Rain { By crossing .....  
 Gage } Diameter.....in. Height above Ground, ..... ft. ..... in. Above Mean Sea Level, 700. ft.

YEAR .....	1860	1861	1862	1823	1824	1825	1826	1827	1828	1829	MEANS.
January .....											
February .....											
March .....											
April .....											
May .....											
June .....											
July .....											
August .....											
September .....											
October .....											
November .....											
December.....											
TOTALS.....	43.86	44.37	43.82	49.74	34.15	33.34					

Months and to be got c  
 c c c c c

RAINFALL AT Penrith Greystoke **70** Castle

Lat. .... Long. .... County of Cumberland  
 Rain Gauge, by ..... Observer .....

Diameter.....												
Year .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....	4.00	3.57	3.92	8.54	5.02							
February.....	4.06	2.81	5.43	1.29	1.73							
March.....	1.05	2.94	2.60	2.03	2.99							
April.....	.51	2.30	1.25	.43	2.38							
May.....	1.06	1.19	1.89	1.66	1.43							
June.....	2.41	3.27	3.23	1.75	1.33							
July.....	.45	3.53	3.17	3.75	2.26							
August.....	3.81	3.11	3.85	5.48	4.35							
September.....	2.34	3.79	7.05	2.57	6.08							
October.....	8.30	4.00	7.24	5.25	7.73							
November.....	2.92	1.34	5.80	2.76	2.34							
December.....	2.21	4.27	5.75	2.70	.78							
TOTALS .....	33.12	36.12	57.18	38.21	38.41							

Copied from the original register by T.G. Benn - ~~sq~~ 1840 sheet

1872 Sept. 2 Terrible T.S. more similar within memory  
of oldest inhabitant. (From original register)

Agrees with Rev S.A. Marshall's copy

RAINFALL AT *Penrith Greystoke Castle* 80Lat. .... Lon. .... County of *Cumberland**Crossley Rain Gauge, by* Observer .....*Eden & Solway - 1*

Diameter ....	10	□									
Height ....		5.	-								
Altitude ....											
Year.....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January .....						2.78	4.87				
February .....						5.21	2.05				
March .....					4.17	3.05	5.32				
April .....					2.54	3.69	2.07				
May .....					2.49	2.44	5.72				
June .....					1.14	1.30	1.76				
July .....					6.92	1.10	1.52				
August .....					1.56	2.73	2.00				
September.....					4.26	4.55	2.93				
October .....					2.50	3.38	7.50				
November .....					2.70	2.50	2.85				
December .....					5.76	3.09	5.30				
TOTALS .....					35.82	43.59					

Copied from the original register by T.G. Benn

RAINFALL AT Pennrith Grystoke**80**

Lat. ....

Long. ....

County of

Cumberland

Rain Gauge, by

Observer A. Trenayne Buller EsqEden + Solway - 1.

Diameter .....									5		
Height .....											
Altitude .....											
Year.....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January .....								4 3.42	2.10	2.51	
February .....								2.77	1.18	2.48	
March .....								1.82	2.54	1.86	
April .....								2.01	1.87	2.39	
May .....								2.13	2.85	3.58	
June .....								17	.91	1.05	
July .....								2.23	5.87	1.94	
August .....								2.41	3.29	4.10	
September .....								4.43	1.08	2.28	
October .....								2.28	3.43	6.15	
November .....								3.48	8.53	1.76	
December .....								4.43	3.67	3.43	
TOTALS .....								31.58	37.32	33.53	

## RAINFALL AT Penwith Greystoke Belle Vue

Lat.

Long.

County of Cumberland

Rain Gauge, by

Observer

M Rowe Esq

Eden &amp; Solway - 1

Diameter . . . .	5	5									MEANS.
Height . . . .	4 - 0	4 - 0									
Altitude . . . .	640	640									
Year . . . .	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	
January . . . .				1.12	4.68	2.92	1.96	1.32	2.91	6.41	
February . . . .	4.03	4.53	6.54		.42	1.61	2.90	3.65	2.80		
March . . . .	.98	1.52	2.93	3.65	4.86	5.82	1.73	1.96			
April . . . .	1.29	.45	2.30	1.67	1.93	1.94	3.87	2.38			
May . . . .	3.50	1.85	4.03	.82	.47	1.21	3.00	3.29			
June . . . .	4.18	2.24	3.26	1.00	3.97	3.25	2.73	1.08			
July . . . .	1.73	3.86	2.54	5.76	3.47	1.73	1.20	4.36			
August . . . .	7.15	3.85	3.07	5.06	2.64	6.09	6.65	1.43			
September . . . .	5.69	3.07	.63	1.26	5.38	4.50	1.61	6.05			
October . . . .	5.29	4.12	3.70	4.90	7.16	2.37	3.37	2.74			
November . . . .	2.57	2.46	4.66	5.02	1.26	2.64	3.75	5.06			
December . . . .	1.64	4.00	3.55	3.50	3.66	4.81	4.73	2.66			
TOTALS . . . .	33.07	41.89	35.98	38.37	38.58	39.20	40.22				

1894 February S probably blown out of gauge

Rejected from survey. 5 low

RAINFALL AT Penrith Greystoke

Lat.

Long.

County of Cumberland

Rain Gauge, by

Observer A Tunneyne Buller Esq.

Exen &amp; Dolway - 1.

H. Walker Esq.

Diameter .....	5										
Height .....	...										
Altitude .....	700										
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January .....	6.74	3.36	2.91	1.28	5.15	2.52	2.81	1.14	3.92	8.58	3.841
February .....	.91	.41	2.58	6.05	13.21	.72	2.38	4.08	4.78	3.64	3.876
March .....	2.98	2.40	.92	1.50	3.49	4.26	5.88	7.09	1.51	2.65	3.268
April .....	1.22	1.77	1.20	.38	2.22	1.99	2.32	2.28	4.34	2.82	2.049
May .....	2.62	1.76	3.38	1.26	4.23	.57	.39	1.27	3.13	3.11	2.182
June .....	3.78	2.37	4.38	2.66	3.51	1.05	3.64	3.30	2.72	1.00	2.841
July .....	2.75	4.07	1.94	3.68	2.98	5.63	3.59	2.06	1.38	2.01	3.009
August .....	4.14	7.35	7.47	3.14	4.54	3.83	5.53	2.91	6.08	7.56	5.090
September .....	3.98	6.26	5.68	3.60	.50	1.28	6.08	5.05	1.76	6.78	5.097
October .....	3.34	6.53	5.29	5.23	5.43	4.92	7.52	2.88	3.81	1.87	4.682
November .....	7.06	4.71	2.57	3.30	4.54	5.97	1.38	3.35	4.33	8.89	4.610
December .....	.48	9.05	1.92	5.51	4.67	4.30	4.44	6.08	7.53	3.05	4.703
TOTALS .....	40.00	50.04	40.20	39.09	53.76	38.74	43.34	44.61	46.77	46.02	44.265 44.248

1892. 60? by Mr. Walker 24. xi. 98. 8th. 30. xi. 08.

1894 February Gauge probably caught too much S.

# RAINFALL AT Penrith Greytoke

Lat.

Lon.

County of Cumberland

Rain Gauge, by N+3

Observer H Walker Esq

Eden &amp;c - 1.

Diameter ..	5										
Height ..	1.3										
Altitude ..	650										
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	3.78	3.08	3.26	6.53	4.75	2.02	7.89	1.90	4.20	3.83	4.124
February ..	5.01	.98	1.15	9.77	4.32	3.14	3.28	3.10	4.08	3.90	3.873
March ..	.61	3.08	2.77	9.03	2.84	3.50	3.04	4.38	4.90	3.64	3.779
April ..	3.15	2.38	2.30	1.63	4.10	4.17	.94	1.51	2.43	2.62	2.523
May ..	2.14	1.58	3.05	3.51	1.80	.76	5.94	5.84	2.65	1.74	2.901
June ..	3.33	1.85	1.55	1.33	5.28	1.35	1.04	4.93	2.00	2.79	2.545
July ..	2.23	1.29	3.30	4.22	1.65	1.15	2.28	2.00	3.72	5.01	2.685
August ..	7.28	4.57	1.70	5.28	4.88	2.46	4.77	3.49	4.58	3.30	4.231
September ..	2.24	1.56	2.58	4.48	1.04	3.25	1.83	.50	3.90	2.53	2.391
October ..	5.72	3.87	3.45	11.54	1.78	3.05	6.66	5.96	1.89	6.61	5.053
November ..	3.34	5.10	2.99	3.71	3.80	4.46	4.86	3.61	3.67	2.65	3.819
December ..	7.61	5.69	6.05	3.66	4.34	2.55	3.04	6.45	3.11	6.73	4.923
TOTALS ..	46.44	35.03	34.15	64.69	40.58	31.86	45.57	43.67	41.13	45.35	42.845 665 ✓ H.W.

1903 Greytoke Church 300 yards SE  
Blencow Station  $\frac{1}{2}$  mile SE

1908 Sanderwall  $\frac{1}{2}$  miles  $\frac{1}{2}$  high 70 yards all round

1909 Note - The readings taken are more accurate than those from other gauges in the district which are in close proximity to high trees on the west & S.W. sides notably the one at Belgrave Greytoke H.W.

RAINFALL AT Penrith Greystoke Belle Vue  
Lat. .... Lon. .... County of Cumberland

Eden, etc - 1.

Rain Gauge, by

Observer Mr M Rowe

Miss E. A. Rowe

Diameter ..	5										MEANS.
Height ..	40										
Altitude ..	680 ft										
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	
January ..	3.20	2.96	2.50	4.36	3.83	1.61	5.91	1.35	2.62	2.65	3.099
February ..	5.06	.81	1.28	7.12	3.69	2.61	3.05	2.34	3.17	2.87	32.00
March ..	.77	2.97	2.16	6.34	2.55	3.20	2.34	3.01	4.21	3.57	31.12
April ..	2.56	2.46	2.44	1.43	3.01	3.51	.71	1.82	2.21	2.37	22.251
May ..	1.97	1.35	3.04	3.61	2.49	.98	5.56	4.49	2.81	1.74	27.54
June ..	3.40	1.69	1.54	1.73	1.54	1.82	1.11	4.34	1.60	2.68	20.95
July ..	1.67	1.47	3.52	4.02	1.55	1.20	2.06	2.13	3.26	4.28	25.16
August ..	6.96	3.12	1.67	5.46	4.61	3.33	4.80	3.33	4.08	3.05	3.991
September ..	1.83	1.29	1.92	4.62	.92	2.79	1.42	.38	3.32	2.31	20.80
October ..	5.93	3.59	2.59	10.18	1.41	2.98	5.98	5.55	1.57	4.57	4.435
November ..	2.68	3.53	2.61	3.22	3.47	3.75	3.66	3.01	2.71	1.56	3.019
December ..	5.57	4.78	4.53	3.17	3.57	1.62	2.92	5.29	2.26	5.32	3.903
TOTALS ..	41.60	30.02	29.80	55.26	32.64	28.90	39.02	37.04	33.32	36.96	36.456

✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓

H.W.B.

1903 Standards Greystoke 1/2 mile NW  
Blencow Nation 1/2 E.S.E.  
House 28 ft high 45° N.E.  
Trees 10 + 50 ft high 15° + 75° N.E. E + W

Rejected from Survey. 5% low.

RAINFALL at Penrith Greystoke Castle

County of Cumberland

Observer H Walker Esq

River Basin Eden + Solway (

J. Smith Hill Sq (1916)

Rain Gauge, by N+Z

Diameter ...	5'										
Height .....	13										
Altitude ...	6507										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January .....	5.54	2.47	3.79	5.65	3.35	5.32	7.85	2.59	3.72	4.25	
February .....	7.96	5.69	2.51	3.98	6.98	5.93	4.83	1.12	6.34	.64	
March .....	3.00	1.98	4.97	7.97	5.40	1.12	2.72	2.13	.95	3.45	
April .....	2.93	2.88	.89	5.02	1.68	2.38	3.56	3.10	.76	2.00	
May .....	2.73	3.20	1.57	1.64	1.98	1.22	2.32	1.30	2.00	1.12	
June .....	1.63	4.68	5.34	2.56	1.71	1.28	2.86	3.10	1.20	2.34	
July .....	4.20	.50	4.68	.83	3.40	2.31	2.55	1.23	3.95	.72	
August .....	7.20	3.08	5.35	1.72	1.67	2.89	1.90	5.73	4.05	3.03	
September .....	.45	2.78	2.33	2.18	2.90	1.28	1.84	4.46	9.68	2.44	
October .....	3.05	5.40	5.04	3.46	1.15	.57	8.65	6.60	4.44	2.57	
November .....	3.50	5.08	4.26	5.58	7.84	1.18	6.40	4.98	3.98	4.85	
December .....	4.73	9.56	8.89	4.92	8.48	6.85	3.80	1.90	8.02	4.67	
TOTALS ...	47.02	47.30	49.62	45.51	46.54	31.83	49.28	38.24	46.09	32.11	

1912 Wall 12 ft high 40 yds on all sides

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911			Bencow	26 mi	S.E.	Gryptoke	100 yds	S.S.
1916	54° 40' 15"	2° 52' 10"						

## RAINFALL at Penwith Cragg Belle Vue

County of Cumberland

Observer Mif E. A. Rowe

River Basin Eden + Solway

Rain Gauge, by

Diameter ...	5										MEANS.
Height .....	4.0										
Altitude ...	680 T										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	
January ...	3.42	1.15	4.23	3.80							
February ...	5.68	3.43	2.08	2.18							
March .....	2.05	1.53	4.19	4.63							
April .....	2.43	2.24	.76	4.91							
May .....	2.45	2.90	1.47	1.80							
June .....	1.44	1.19	6.34	1.97							
July .....	4.20	.54	3.60	1.18							
August .....	6.93	2.69	5.21	1.60							
September ..	.41	2.74	3.41	1.43							
October ...	2.13	3.91	3.95	3.16							
November ...	3.49	3.74	2.99	4.16							
December ...	4.03	7.58	5.03	3.11							
TOTALS ...	38.66	36.64	43.26	33.93							

1911 Read 9pm  
 1912 Damon tree 15 ft high 14 ft E

Rejected from survey 5 low.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911	54.40.	2.52 N	Blenco	7 fur.	E	Greystoke	3 fur.	NW by W.

## RAINFALL at Penrith Greystoke Castle

County of Cumberland Observer J. Smith Hill Esq.

River Basin Eden - Solway 1

M.O. Rain Gauge, by N.Y.Z.

Diameter .....	57										
Height .....	1.3										
Altitude ...	650										
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.
January .....	5.18	8.15	4.80	3.26	3.50	7.50					
February .....	5.32	.88	4.42	6.00	.60	7.10					
March .....	6.73	6.98	2.69	1.89	1.84	1.63					
April.....	3.69	3.20	2.69	3.21	1.46	4.32					
May .....	5.10	1.71	1.35	3.30	3.97	4.75					
June .....	1.95	.29	1.78	.62	1.65	.47					
July .....	5.60	2.42	4.86	2.38	4.82	1.50					
August .....	2.40	5.36	2.65	9.87	2.55	2.80					
September...	2.28	2.41	4.02	4.62	5.50	2.50					
October.....	2.18	2.34	1.65	8.10	3.50	4.30					
November...	3.54	3.03	1.90	7.22	3.45	1.60					
December...	3.56	7.86	7.02	3.95	7.70	5.00					
TOTALS...	47.53	44.60	39.59	54.42	39.54	43.47	#				

1920 Wall 12 ft high 40 yds all sides

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	Parish Church.	Distance from gauge
1920	54° 40' 15"	2° 5' 10"	Blencoade	2 1/4 min S E	Greystoke	700 yds S E.