

# RAINFALL AT

*Penrith Greystoke Castle*  
*Cumberland*

40

Observer.....

Rain { By.....

Gauge { *Crossley*.....  
Diameter.....in.

Height above Ground.....ft.....in.

Above Mean Sea Level.....ft. 700 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 MS. book of S. A. Marshall - His record agrees with this except occasionally by .01

# RAINFALL AT *Pennith Greystoke Castle* *Cumberland*

Observer.....

Rain { By.....*Crosley*.....Gauge { .....  
Diameter.....*1*.....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	29.54	36.41	35.18	33.41	43.90	38.52

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

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

# RAINFALL AT *Pennith 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	1.53	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	1.79	3.229
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. Penn. see 40 sheet

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

# RAINFALL AT *Penrith Greystoke Castle*

Lat. .... Lon. .... County of *Cumberland*

Rain Gauge, by ..... Observer .....

Diameter.....											
Height.....											
Altitude.....											
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	2.25						
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	51.18	38.21	38.41						

*Copied from the original register by T.G. Benn. to 1840 sheet*

*1872 Sept: 2 Terrible T.S. none similar within memory of oldest inhabitant. (From original register)*

*Agrees with Mr S.A. Marshall's copy*



# RAINFALL AT *Pennish Greystoke Castle* 80

Lat. ....

Lon. ....

 County of *Cumberland*
*Crossley* Rain Gauge, by

Observer

*Loam & Solway - 1*

Green & Norway - 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	2.55					
December ....					5.76	3.09	5.30	#				
TOTALS ....						35.82	43.59					

Copied from the original register by J. G. Benn

*Repealed from survey. 2<sup>nd</sup> class.*

# RAINFALL AT *Perrish Greystoke* 80

Lat. ....

Lon. ....

 County of *Cumberland*

Rain Gauge, by ....

 Observer *A. Fremagne Butler Esq*
*Caen + Solway - 1.*

Diameter ....								5			
Height ....											
Altitude ....											
Year.....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....								<sup>#</sup> 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 *Pewith Graystone Belle View*

Lat. \_\_\_\_\_

Lon. \_\_\_\_\_

County of *Cumberland*

Rain Gauge, by \_\_\_\_\_

Observer *M Rowe Esq*

*Eden & Solway - 1*

Diameter ....			5	.	5							
Height .....			4 - 0	.	4 0							
Altitude ....			640	.	640		680					
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January ....				1.12	4.68	2.92	1.96	1.32	2.91	6.41		
February ....			# 1.03	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	40.21		

1894 February S probably blown out of gauge

*Rejected from survey. S low*



# RAINFALL AT Penrith Greystoke

Lat. \_\_\_\_\_

Lon. \_\_\_\_\_

County of Cumberland

Rain Gauge, by \_\_\_\_\_

Observer A. James Buller Esq.

Exn & Solway - 1.

H. Walker Esq.

Diameter ....	5											
Height .....	...					1.3						
Altitude ....	700					650						
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	3.546	
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	2.23	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	<sup>34</sup> 7.42	4.54	3.83	5.53	2.91	6.08	7.56	1.62	5.090	
September....	3.98	6.26	5.68	3.60	.50	1.28	6.08	5.05	1.76	6.78	4.097	
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	7.05	1.92	5.51	4.67	4.30	4.44	6.08	7.53	3.05	4.703	
TOTALS ....	40.00	50.04	40. <sup>11</sup> 20	39.09	53.76	38.74	43.34	44.61	46.77	46.02	44.207	

1892. 60<sup>2</sup> by Mr. Walker 24 xi. 98. 8<sup>2</sup> 30 xi. 08.

1894 February Gauge probably caught too much S.



# RAINFALL AT *Fenish Greystoke*

Lat. ....

Lon. ....

County of *Cumberland*

Rain Gauge, by *N+3*

Observer *H Walker Esq*

*Elev 72 - 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	41.24
February ..	5.01	.98	1.15	9.77	4.32	3.14	3.28	3.10	4.08	3.90	38.73
March ....	.61	3.08	2.77	9.03	2.84	3.50	3.04	4.38	4.90	3.64	37.79
April .....	3.15	2.38	2.30	1.63	4.10	4.17	.94	1.51	2.43	2.62	25.23
May .....	2.14	1.58	3.05	3.51	1.80	.76	5.94	5.84	2.65	1.74	29.01
June .....	3.33	1.85	1.55	1.33	5.28	1.35	1.04	4.93	2.00	2.79	25.45
July .....	2.23	1.29	3.30	4.22	1.65	1.15	2.28	2.00	3.72	5.01	26.85
August ....	7.28	4.57	1.70	5.28	4.88	2.46	4.77	3.49	4.58	3.30	42.31
September ..	2.24	1.56	2.58	4.48	1.04	3.25	1.83	.50	3.90	2.53	23.91
October .....	5.72	3.87	3.45	11.54	1.78	3.05	6.66	5.96	1.89	6.61	50.53
November ..	3.34	5.10	2.99	3.71	3.80	4.46	4.86	3.61	3.67	2.65	38.19
December ..	7.61	5.69	6.05	3.66	4.34	2.55	3.04	6.45	3.11	6.73	49.23
TOTALS ..	46.44	35.03	34.15	64.69	40.58	31.86	45.57	43.67	41.13	45.35	42.84

1903 *Greystoke Church* <sup>700</sup>300 yards SE

*Blencow Station* <sup>2 1/2</sup>2 miles SE

1908 *Garden Wall* <sup>12</sup>8 ft high <sup>70</sup>70 yards all round

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

# RAINFALL AT *Pennith Greytuke Belle Vue*

Lat. ....

Lon. ....

County of *Cumberland*

Rain Gauge, by .....

Observer *Mr M Rowe*

*Eden, etc - 1.*

*Miss E. A. Rowe*

Diameter ..	5											
Height ....	4 0											
Altitude ..	680 T											
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.	
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	3.200	
March ....	.77	2.97	2.16	6.34	2.55	3.20	2.34	3.01	4.21	3.57	3.112	
April .....	2.56	2.46	2.44	1.43	3.01	3.51	.71	1.82	2.21	2.37	2.252	
May .....	1.97	1.35	3.04	3.61	2.49	.98	5.56	4.49	2.31	1.74	2.754	
June .....	3.40	1.69	1.54	1.73	1.54	1.32	1.11	4.34	1.60	2.68	2.095	
July .....	1.67	1.47	3.52	4.02	1.55	1.20	2.06	2.13	3.26	4.28	2.516	
August ....	6.96	3.12	1.67	5.46	4.61	3.33	4.30	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	2.080	
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	<i>84.3</i>

1903 St Andrews Greytuke 1/2 mile WNW  
 Blencown Station 1/2 " E.S.E  
 House 28 ft high 45 ft. NW  
 Tree 10 + 50 ft high 15 + 75 ft E + W

Rejected from Survey. 5' low.

RAINFALL at Penrith Greystone CastleCounty of CumberlandObserver H Walker EsqRiver Basin Eden + Solway 1Penrith Hill Sq (1916)Rain Gauge, by N + Z

Diameter ...	5										
Height .....	1 3										
Altitude ...	650										
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	.96	3.95	
April .....	2.93	2.88	.89	5.02	1.68	2.39	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	3.98	.72	
August .....	7.20	3.08	5.35	1.72	1.67	2.39	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	2.47	
October ...	3.05	5.40	5.04	3.46	1.15	.57	8.65	6.60	4.24	2.57	
November ..	3.50	5.08	4.26	5.58	7.84	1.18	6.40	4.98	3.98	4.35	
December ...	4.73	9.56	8.89	4.92	8.48	6.85	3.80	1.90	5.02	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 roadside

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911			Blencown	2 1/2 mi	SE.	Greystone	100 yds	SE.
1916	54° 40' 15"	2° 52' 16"						



RAINFALL at Pennith Greytike Belle VueCounty of CumberlandObserver Mrs E. A. RoweRiver Basin Eden & Solway 1

Rain Gauge, by \_\_\_\_\_

Diameter ...	5											
Height .....	4.0											
Altitude ...	680 T											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	
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								
	2	2	3	2								

1911 Read gpm  
 1912 Dawson Recs 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 W	Blencoe	7 1/2 fur.	E	Greytike	3 fur.	NW by W.

RAINFALL at Pennith Greytuke CastleCounty of CumberlandObserver J. Smith Hill EsqRiver Basin Eden - Solway 1M.O. Rain Gauge, by N.B.

Diameter ...	5"										
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	.85	4.42	6.00	.60	7.10					
March .....	6.73	6.98	2.69	1.89	.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	1.75	.62	1.65	.47					
July .....	5.60	2.42	4.85	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	1.45	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	37.54	43.47	#				

1920 Wall 12 ft high 40 yds all sides

Position of Station on reduced Ordnance Survey } No. of Map

Map, 2 miles to 1 inch Series

Reference No.

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1920	54° 40' 15"	2° 52' 10"	Blencowe	2 1/4 mi	S E	Greytuke	700 yds	S E.