

# RAINFALL AT

Barith, Newton Regny

80

Lat. ....

Lon. ....

County of

Cumberland

Rain Gauge, by

Observer

J. G. Benn Esq.

M. Eaten & Solway - 1

Diameter ....						8					
Height .....						1'0					
Altitude ....						580					
Year.....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....						2.66	5.68	2.95	1.81	1.96	
February ....						4.20	1.07	1.82	1.38	2.14	
March .....						2.23	2.54	1.56	2.41	1.42	
April .....						2.25	3.27	1.70	1.59	2.23	
May .....						2.50	5.08	1.84	2.60	3.24	
June .....						1.46	1.69	.23	1.25	.93	
July .....						1.52	5.89	2.07	5.62	1.84	
August .....						2.24	1.22	2.72	2.93	3.65	
September....						4.35	4.06	3.90	.80	1.91	
October ....						4.20	5.80	2.25	2.90	5.23	
November....						2.24	3.06	3.07	6.52	1.44	
December ....						1.77	5.09	3.70	3.24	2.83	
TOTALS ....						31.62	44.15	27.81	33.05	28.82	

RAINFALL AT *Pennith (Newton Rising)*

80

Lat. ....

Lon. ....

County of *Cumberland*

Rain Gauge, by .....

Observer *J. G. Penn. Esq.**Loam & Solway - 1*

Diameter ....				8							
Height .....				1.							
Altitude ....				580 $\pi$							
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January .....		(2.60)	4.85	7.25	2.67	5.70	3.02	1.84	1.94		
February ....		(5.80)	4.96	3.85	4.22	1.09	1.83	1.37	2.14		
March .....		(5.50)	2.18	3.38	2.26	2.83	1.53	2.38	1.41		
April .....		(5.05)	1.83	1.47	2.26	3.21	1.75	1.55	2.25		
May .....		(2.85)	.69	2.29	2.52	5.04	1.81	2.57	3.20		
June .....		(6.80)	3.20	.94	1.51	1.67	.27	1.23	.92		
July .....		(9.40)	3.91	4.87	1.53	5.87	2.07	5.70	1.84		
August .....		(8.70)	2.75	1.13	2.19	1.15	2.69	2.84	3.65		
September....		(6.00)	4.80	3.20	4.31	4.11	3.88	.76	1.90		
October ....		(5.45)	5.49	2.14	4.11	5.47	2.17	2.84	5.25		
November....		(11.70)	4.62	2.36	2.78	3.01	3.07	6.41	1.44		
December ....		(7.85)	3.29	4.74	1.75	4.99	3.65	3.26	2.81		
TOTALS ....		(78.40)	42.57	37.62	31.51	44.14	27.66	32.75	28.76		

1883. St John's Ch. 100 yds. E.

Wall 5 ft high 20 yds surrounding.

81-82 = Pennith Hill Donk. X  $\frac{112}{100}$

# RAINFALL AT *Penrith Newton Reving*

Lat. *54° 40' N* Lon. *2° 10' W* County of *Cumberland*  
*Baden + Solway - 1.*  
 Rain Gauge, by *Monthly* Observer *J. G. Benn Esq.*  
*Met. Council*

Diameter . . .	8										
Height . . . . .	10										
Altitude . . .	580 ft										
Year . . . . .	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January . . .	5.77	2.73	2.23	1.47							
February . . .	.74	.22	1.98	4.56							
March . . . . .	2.55	1.87	.84	1.63							
April . . . . .	1.10	1.63	1.07	.41							
May . . . . .	2.45	1.36	3.32	1.54							
June . . . . .	2.98	1.82	3.63	2.09							
July . . . . .	1.71	5.74	1.91	3.16							
August . . . . .	3.60	6.45	6.69	4.04							
September . . .	3.32	5.54	5.30	3.06							
October . . . . .	2.79	5.31	5.07	3.82						3.11	
November . . .	5.58	4.53	2.40	2.56						5.78	
December . . .	.45	7.72	1.21	4.59						2.46	
TOTALS . . .	33.04	44.92	35.65	32.93							



# RAINFALL AT Pennith Newton Reigry

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

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

 County of Cumberland

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

 Observer J. G. Benn Esq
Loan & Solway - 1.
Met Council

Diameter ....	8										
Height .....	10										
Altitude ....	580 ft										
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January ....	5.78	2.72	2.25	1.44			(19.70)				31.89
February ....	.74	.24	1.99	4.55			(17.60)				25.12
March .....	2.55	1.86	.82	1.67			(20.50)				27.40
April .....	1.06	1.61	1.08	.43			(14.30)				18.48
May .....	2.45	1.36	3.36	1.57			(11.60)				20.34
June .....	2.92	1.78	3.65	2.11			(15.40)				25.86
July .....	1.82	5.70	1.90	3.17			(20.90)				32.49
August .....	3.63	6.46	6.63	3.98			(22.90)				42.60
September....	3.30	5.55	5.33	3.07			(18.30)				35.55
October .....	2.81	5.28	5.01	3.81			(21.20)		3.11	32.11	
November....	5.54	4.57	2.36	2.52			(22.00)		5.78	36.99	
December ....	.46	7.69	1.23	4.61			(24.20)		2.46	38.19	
TOTALS ....	32.06	44.82	35.61	32.93			(228.60)				275.02

94-99 = Pennith for Bank  $\times \frac{112}{100}$

## RAINFALL AT

Penrith Newton Regny + Newton Rigg

Lat. ....

Lon. ....

County of

Cumberland

Rain Gauge, by

Observer The Meteor Council

Elev +c -1.

Diameter ..	...									8	
Height ....	...									10	
Altitude ..	...							559			
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	3.09	2.57	2.37	5.59	4.06	1.24	5.45	1.06	2.69	3.39	3.151
February ..	5.03	.93	1.29	8.17	3.37	2.28	2.36	2.43	3.27	2.59	3.172
March ....	.63	2.81	2.38	7.66	2.16	3.21	2.38	3.28	3.89	2.92	3.132
April .....	2.70	2.41	2.45	1.67	2.66	3.41	.91	1.85	1.76	2.36	2.218
May .....	2.18	1.23	2.68	(2.89)	2.49	.48	5.31	4.22	2.14	1.67	2.525
June .....	3.61	1.82	1.44	1.44	1.49	1.44	1.06	4.10	1.67	2.65	2.072
July .....	1.49	1.65	3.43	3.69	1.45	.98	1.70	1.61	2.81	3.90	2.271
August ....	6.17	2.91	1.48	4.65	3.92	3.34	3.49	2.99	4.08	2.88	3.591
September..	2.33	1.41	1.73	4.23	.89	2.63	1.26	.37	2.85	2.30	2.000
October ....	6.33	3.24	2.97	9.48	1.22	2.47	5.90	5.31	1.69	5.45	4.406
November..	2.93	4.10	2.97	2.51	3.48	3.45	3.33	2.75	2.69	1.59	2.980
December ..	5.93	5.51	5.37	2.82	3.22	1.27	2.49	5.47	2.37	5.01	3.946
TOTALS ..	42.42	30.59	30.56	(54.76)	30.41	26.20	35.64	35.44	31.91	36.71	35.461

1903 moved to Newton Rigg about 1 mile distant. Exact date not stated

in May 1903 (1903 + 11.11) *Hub*

RAINFALL at Pennith Newton RiggCounty of CumberlandObserver W. F. Lawrence EsqRiver Basin Eden & Solway 1

per M.O. (1916)

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

Diameter ...	8											
Height .....	1 0											
Altitude ...	559											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	80ms 16-19
January ...	4.15	1.12	3.57	3.28	2.86	3.98	4.93	2.26	4.13	3.68		1480
February ...	6.21	3.56	2.19	2.35	5.62	5.60	4.46	1.10	4.33	.74		1063
March .....	2.09	1.62	3.67	5.46	3.82	1.22	2.45	2.51	1.10	3.05		711
April .....	2.29	2.24	.60	4.69	1.32	2.11	2.66	3.00	.79	1.75		820
May .....	2.28	3.22	1.64	1.43	1.88	1.29	3.13	2.25	2.21	1.46		905
June .....	1.37	3.86	5.19	2.18	1.60	.48	2.32	2.76	1.02	1.82		888
July .....	4.72	.40	3.48	1.08	3.43	2.82	3.09	1.80	3.82	.77		948
August .....	6.01	2.83	5.01	1.61	1.57	2.83	1.72	5.12	4.02	2.78		1361
September ..	.39	3.01	1.57	2.02	2.75	1.03	2.30	3.35	8.93	1.85		1643
October ...	2.65	3.44	3.37	3.28	1.23	.57	7.30	5.72	3.82	1.93		877
November ..	3.43	4.35	3.16	3.34	6.07	1.20	5.61	4.17	3.11	1.92		481
December ...	4.13	8.22	5.33	3.71	8.99	6.31	3.41	1.61	4.10	5.24		163
TOTALS ...	39.72	37.87	38.78	34.43	41.14	29.94	43.18	35.65	41.38	26.99		

1912 72ms 30 ft high 30 gals

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	54.40.24	2.48.42 W	Pennith	SE 2 1/2 m	NW	Newton Rigg	1 1/2 m	NW - NE WNW



RAINFALL at Pennith Newton PiggCounty of CumberlandObserver J. Procter EsqRiver Basin Eden - Solway 1P. No. Surabul, Paq. (126)Glaister Rain Gauge, byPrincipal Newton Pigg Farm School  
Cumbria & Westmorland Farm School

Diameter ...	8										
Height .....	1. 0										
Altitude ...	559										
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS.
January ...	4.61	7.00	3.70	2.49		4.72	4.04	3.83	5.94	.66	6.46
February ...	3.63	20.3	2.29	5.24	.71	6.85	2.79	1.39	3.28	.61	.48
March .....	5.87	5.02	2.37	1.59		1.49	1.93	2.96	3.72	.18	2.24
April .....	3.24	1.02	2.50	3.04	1.85	5.33	1.82	1.84	0.81	1.30	1.77
May .....	4.66	1.74	1.27	3.28	3.78	5.12	2.21	2.18	1.50	1.96	1.77
June .....	1.27	4.6	2.22	.71	1.44	.15	2.90	2.68	5.40	1.57	3.74
July .....	4.36	2.60	4.08	2.67		1.61	2.17	4.89	3.24	4.90	5.25
August .....	(2.00)	5.30	2.29	7.47	2.21	3.11	3.86	6.91	5.93	4.11	8.33
September...	2.06	1.39	4.48	4.35		3.50	4.17	7.67	2.03	1.79	3.34
October .....	3.00	2.42	1.05	6.26	3.46	4.64	2.53	3.48	6.48	4.88	5.36
November...	2.92	1.99	1.45	4.85	3.12	1.34	5.67	3.08	5.58	6.82	4.87
December...	2.75	5.35	7.34	3.53		3.96	.93	1.11	2.67	9.52	3.98
TOTALS...	(40.3) 4	34.4 3	36.04 3	45.48 2	imp	41.52 D	36.02 D	42.02 D	46.58 D	38.30 D	47.59 D

1920 Aug. partly estimated.

1929 Inspector 26/4/24. Gauge very old and top badly distorted  
 Split at side seam also. Dil 313404/28  
 Sledge 6' high 18' NE.

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

Reference No.

Date.	Lat. N.	Long. W	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
	54° 40' 24"	2° 48' 41"	Pennith	2 mi	NW	Newton Pigg	1 mi	N NW

RAINFALL at Penrith (Newton Rigg) M.W.R.County of Cumberland, Observer Cumberland County Council.River Basin Eden & Solway.-1.

Type of Gauge

Annual Average 36.4 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. B.O.N.

Diameter	9.							5			
Height	1.0.										
Altitude	560.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	3.79	5.91	3.57	3.58	1.89	3.50	4.69	4.55	4.18	1.89	3.745
February	3.07	.12	3.65	.22	4.49	2.20	4.54	1.20	2.91	.78	2.318
March	.92	3.12	2.27	2.19	1.03	1.54	1.82	1.50	3.04	3.74	2.117
April	2.59	2.92	1.22	3.24	3.17	.84	2.27	.39	1.17	1.69	1.950
May	3.10	2.68	2.79	3.01	.88	1.23	2.00	2.23	.61	1.65	2.018
June	5.60	.76	1.62	2.32	3.28	2.63	1.53	4.04	2.74	.54	2.506
July	4.33	5.20	2.34	1.72	1.33	4.67	1.75	3.95	4.96	4.82	3.507
August	3.30	1.16	1.81	2.66	1.79	1.41	2.24	2.68	2.54	1.68	2.127
September	1.83	4.34	1.41	3.35	5.68	4.06	2.47	1.87	1.55	3.79	3.025
October	2.11	5.93	3.41	5.04	5.98	4.22	2.74	8.77	2.73	4.19	4.512
November	6.07	2.29	1.76	.58	3.75	3.77	.69	6.95	5.29	3.29	3.344
December	2.38	3.31	.46	6.13	2.29	4.55	2.78	3.99	1.33	2.98	3.020
TOTALS	39.09	37.64	26.31	34.04	35.56	34.62	29.52	41.12	33.05	31.04	34.199

Inspected 24/10/31. Glaisher gauge looking badly, thick grass round gauge.  
New gauge sent 31/1/32

Inspected 6/7/37. Gauge is over-exposed to S.W. winds, in which direction there is open grassland for some distance with a slight downward slope. A high wall would be advisable.

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



Station No. 3107  
**RAINFALL** at Perrith (Newton Rigg) M.W.R.  
 County of Cumberland Observer Cumbria County Council  
 River Basin Eden Schum  
 Type of Gauge

41

Annual Average 36.4 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. B of N

File No. 

Diameter	5"				604	740					
Height	1' 0"					1					
Altitude	560'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	✓ 49	5.13	5.66	3.17	3.53	3.25	4.52	7.12	2.07	2.40	34.94 ✓
February	4.52	2.21	2.61	1.38	3.37	2.83	90	2.82	2.60	100	23.24 ✓
March	2.38	1.91	1.03	.51	1.48	1.26	5.59	2.64	1.19	100	17.99 ✓
April	60	2.28	2.08	1.43	1.51	1.06	6.13	2.46	3.60	2.76	21.15 ✓
May	2.26	2.45	3.53	1.59	3.29	1.03	3.17	1.19	2.39	100	20.90 ✓
June	23	.80	3.10	2.56	3.45	2.15	2.69	4.66	.60	1.51	20.24 ✓
July	1.21	2.62	2.60	2.61	2.35	3.53	3.00	1.11	2.33	3.36	21.36 ✓
August	4.70	3.26	5.66	2.30	1.68	6.49	.08	4.00	1.92	100	29.99 ✓
September	1.12	3.53	4.23	4.80	3.60	5.18	3.02	3.04	.91	7.25	29.43 ✓
October	4.78	3.65	5.25	3.89	5.58	.80	1.09	2.19	5.45	3.44	32.68 ✓
November	2.59	.88	2.25	6.22	.18	5.01	4.26	2.43	6.15	4.34	29.97 ✓
December	1.62	4.28	2.08	3.93	1.91	3.39	(.80)	4.87	6.66	100	29.94 ✓
TOTALS	✓ 26.50	33.00	39.98	34.39	31.93	35.98	36.25	37.93	35.87	100	31.83 10
	2	D	D	D	D	D	D	2	D	77. inc.	

1917 Dec. 1936

1950 inspected by F.K. Lamb 23/9/50 gauge labelled from K - to be moved a few feet.

00014

Total 1941-50 = 3118.3

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

BRITISH RAINFALL ORGANIZATION

Station No. 3607 51RAINFALL at Penrith (Newton Rigg) M.W.R. (232)County of Cumberland Observer Cumberland County CouncilRiver Basin Eden + Solway - 1

Type of Gauge.....

Annual Average 36.4 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. B.F.N.34.93 " " 24 " " 1931-1955 (not 1950)File No. 1916-1950

Diameter ...	5"				604	740						
Height ...	1' 0"					1						
Altitude ...	560'					51						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	
January ...	3.23	3.28	1.00	3.16	1.98	2.65	4.08	1.99	2.55	1.87	28.71	729.234
February ...	3.72	.54	.87	2.47	1.24	.76	2.93	4.19	.35	3.14	20.21	513.334
March ...	3.18	1.16	.38	2.60	.86	1.35	2.95	.86	2.02	1.03	16.39	616.306
April ...	1.73	1.95	2.31	.84	.44	.70	.35	.82	3.21	2.65	15.00	381.086
May ...	1.65	1.78	2.99	3.67	2.78	1.29	1.71	3.80	1.34	2.14	23.15	582.010
June ...	.51	1.67	2.80	3.01	1.97	2.49	1.05	3.52	3.77	0.96	21.75	552.450
July ...	2.37	2.12	3.16	3.12	.99	(3.58) inc.	3.52	2.90	3.53	3.10	28.39	721.106
August ...	4.71	4.54	3.77	4.38	2.78	7.05	4.60	3.30	.60	3.56	39.29	997.966
September ...	3.27	2.59	3.92	5.70	2.14	2.99	4.51	4.30	1.02	2.36	32.80	833.120
October ...	.79	4.84	1.75	8.32	2.43	2.23	3.33	3.59	4.07	3.45	34.80	883.920
November ...	8.92	2.07	1.50	8.66	2.04	1.52	.97	.73	4.94	6.69	37.74	958.596
December ...	5.77	3.50	1.73	3.98	5.06	4.54	3.67	3.05	5.43	4.71	41.44	1052.576
TOTALS ...	39.85	30.04	26.18	49.61	24.71	31.05 inc.	33.67	33.05	32.83	33.68	339.67	827.618
	D	D	D	D	D	D	D	D	D	D		

1956: NP Inc.

Insp. 2.11.58 R.W. Glynn - Satisfactory.

Position of Station on Ordnance One-Inch map: No. of Map..... National Grid Reference 351493310

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

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
	✓ but 10-18	✓ np 2+	✓	✓ np 50	