

10  
20  
3604.

## RAINFALL at Pentith, Hutton John.

County of Cumberland Observer F. Hudleston, Esq., C.E.  
 River Basin Eden & Solway - 1.

Brit. Acc<sup>o</sup> Rain Gauge, by ?(This is a Upper one  
+ well made)

7.71

Diameter ...						5"	5"	5"	5"	
Height .....						12"	12"	12"	12"	
Altitude ...	above Sea level, i.e. O.D.					689	689	689	689	
Year .....	19 <sup>0</sup> <sub>9</sub>	19 <sup>1</sup> <sub>0</sub>	19 <sup>2</sup> <sub>1</sub>	19 <sup>2</sup> <sub>2</sub>	19 <sup>3</sup> <sub>3</sub>	19 <sup>4</sup> <sub>4</sub>	19 <sup>5</sup> <sub>5</sub>	19 <sup>6</sup> <sub>6</sub>	19 <sup>7</sup> <sub>7</sub>	19 <sup>8</sup> <sub>8</sub> MEANS 19 <sup>9</sup> <sub>9</sub> /10/11
January ...							7.42	5.50	5.09	4.36
February ...							6.89	0.44	5.88	0.67
March .....							1.51	2.19	1.55	3.95
April .....							4.07	2.81	1.11	2.38
May .....							3.01	1.90	2.10	1.19
June .....							3.12	2.86	1.43	1.84
July .....							3.56	0.88	3.74	0.57
August .....							2.01	7.03	4.27	3.83
September...							2.52	3.49	10.04	2.67
October.....							9.89	7.69	5.61	2.02
November...							7.61	5.43	4.28	3.82
December...							2.52	2.91	5.62	8.66
TOTALS...							54.13	43.13	50.72	35.96
										183.94

Buckys 1916-23 until 1925.

In all the above figures the morning maximum  
is omitted as thus day + not to the previous one

7.71

11 March 1925  
30 March 1925

Position of Station on reduced Ordnance Survey } 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
30. March 1925.	54° 58'	2° 52' W	Penrith	1-1	NW by W	Grange St. Ck. Churc	2-4	North

## RAINFALL at Penrith, Hutton John.

County of Cumberland

Observer F. Huddleston, Esq., C.E.

River Basin Eden &amp; Solway - 1

Bent  $\frac{1}{2}$  Rain Gauge, by (?)  
 SNOWDON (from 8 May 1925) Rotating Cap  
 (It is a well made affair and  
 7.7)

Diameter ...	5"	5"	5"	5"									
Height .....	12"	12"	12"	12"									
Altitude ...	689	689	689	689				683					
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930.		
January ...	6.40	9.35	4.32	3.83	4.50	6.85	7.09	6.75	11.24	.94	8.96		70.23
February ...	5.91	0.28	4.92	6.33	8.1	7.28	4.68	1.61	5.66	.51	.75		38.71
March .....	8.21	8.16	3.47	2.04	9.6	1.63	3.20	3.80	4.62	.44	3.16		39.69
April .....	3.87	1.17	2.76	3.22	1.86	4.94	2.70	3.58	1.77	1.40	1.46		28.13
May .....	5.05	1.92	1.48	3.68	4.02	4.71	2.48	2.39	1.60	2.91	2.21		32.25
June .....	1.23	0.28	2.05	0.75	1.63	.12	3.66	3.34	5.46	1.67	2.37		22.56
July .....	4.42	2.04	5.11	3.51	4.30	1.63	3.50	4.90	4.01	4.17	4.73		42.32
August .....	1.87	5.59	3.01	10.21	2.58	3.12	5.40	8.11	7.24	4.29	7.98		59.70
September...	2.48	1.55	4.02	5.45	5.60	3.96	5.45	7.28	2.28	1.95	3.18		43.18
October....	2.46	2.44	0.91	9.26	3.83	6.91	4.31	5.79	9.87	5.75	7.84		58.51
November...	3.53	3.05	2.46	6.41	3.86	1.63	8.28	4.42	8.19	8.93	5.85		56.59
December...	4.42	6.81	8.78	3.68	9.84	6.15	1.39	1.50	5.58	11.89	5.02		63.07
TOTALS...	69.85	42.41	43.07	50.86	43.79	48.93	52.14	52.47	64.12	44.85	53.51		554.94

dated 21.2.25. Read Jan. 1916-22

In all the above figures the morning measurement  
 is added to the day + not to the previous one

1925 TREES 50' high 160' N  
 " " 59' " 120' S  
 WALL 12' " 12' E  
 HOUSE 62' " 162' W

2.72

30 March 1925

Position of Station on reduced Ordnance Survey } No. of Map \_\_\_\_\_ Reference No. \_\_\_\_\_  
 Map, 2 miles to 1 inch Series }

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Parish Church.	Distance from gauge
				Miles	N.H. by W.	Miles
30 March 1925	54° 38'	2° 51'	Pennardwick	1.1	N.H. by W.	2.4
		W.L.				S. acre (26)

## RAINFALL at Penrith (Hutton John)

County of Cumberland

Observer F. Huddleston Esq.,

River Basin Eden &amp; Solway - 1

Type of Gauge Snowdon.

Annual Average.....in. based on.....years obs. un-weighted. Period of average.....Ref.....  
766197/27.

Diameter	5										
Height	1' 0"										
Altitude	688'										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January				6.75							
February				4.41							
March				3.07							
April				3.57							
May				3.93							
June				2.58							
July				2.80							
August				4.04							
September				4.69							
October				8.24							
November				1.21							
December				8.19	#						
TOTALS				49.68 2.39	NR	NR	NR				

1930 True 50' height 160' N

True 59' " 120' S

Siding 60' 83' E

House 52' " 162' W

N.B. "This snowdon gate has been set up SW of the place where a rain gauge has functioned for 50 years." (For BR purposes it is to be regarded as a chief gauge & not printed but the values are to be retained on this sheet).

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

## RAINFALL at Penrith (Hutton John)

County of Cumberland

Observer F. Huddleston, Esq., C.E.

River Basin Eden &amp; Solway - I.

Type of Gauge Snowdon

Annual Average 45.1 in. based on 13 years obs. unweighted. Period of average 1881-1915 Ref. S

766197/27

Diameter	S.		"62"									1936-40 Means Total
Height	1.0.		5'									
Altitude	688.		688'									
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940		
January	6.23	11.34	7.15	7.26	7.09	6.24	7.44	7.71	7.12	1.56	6550	
February	4.89	.06	5.99	4.44	8.72	3.19	5.82	1.97	5.58	1.06	3772	
March	.92	3.89	3.39	3.20	1.14	2.36	2.34	2.74	4.26	4.45	2869	
April	2.99	4.68	1.86	3.66	4.66	1.01	2.27	.78	2.21	2.25	2637	
May	2.98	2.74	2.80	4.04	.82	1.38	2.29	2.67	0.79	1.52	2203	
June	5.28	2.09	2.12	2.64	4.55	2.66	2.09	6.50	2.96	1.12	3201	
July	4.18	5.59	2.83	2.88	2.24	5.75	1.94	4.71	5.90	5.49	4151	
August	3.21	1.89	2.43	4.14	1.94	1.40	2.51	3.28	2.68	1.96	2544	
September	1.75	5.57	1.44	4.82	7.79	4.84	3.39	2.08	1.76	4.32	3779	
October	2.44	7.08	4.33	8.85	9.53	5.35	3.74	12.50	3.01	5.61	6244	
November	8.79	3.39	1.88	1.25	4.88	5.08	1.34	9.99	7.87	5.30	4977	
December	3.99	5.94	.49	8.57	3.08	8.01	2.96	4.17	2.31	4.89	4441	
TOTALS	47.65	54.26	36.71	51.75	52.44	47.30	38.43	59.16	46.45	39.53	47368	
	D.											

1931. Tues 50' high 160' N. Tues 59' high 120' S. Dwarf wall 1½' high 12° E. House 62' high 165' W.

1932 Jan 1st: Snowdon gauge replaced by "British Assoc" in order to test the "turbulence" at the spot. See sheet no 3604/1

1934. Dwarf wall 1½' high 33° E.

1940. Jan. 9 Feb. apportioned.

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.			Penruddock.	1½ m	W.N.W.	Dacre	1½ m	E of S.

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

Station No. 3604

## RAINFALL at Penrith (Hutton John)

41

County of Cumbria

Observer F. H. H. Hutton Esq. C.E.

River Basin Eden &amp; Solway

N. HADLESTON Esq.

Type of Gauge Standard

Annual Average 25.1 in. based on 13 years obs. - weighted. Period of average 1881-1915. Ref. S.

File No. 766197127

Diameter	5"				600	191					
Height	1' 0"					1					
Altitude	688'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means 1941-50 Totals
January	3.08	1.92	3.74	7.37	6.23	5.06	5.34	6.38	8.18	2.93	3.08
February	5.73	1.10	2.28	4.07	2.28	6.06	4.43	(1.50)	4.78	4.06	5.73
March	3.29	7.73	3.26	1.62	5.8	2.89	1.98	5.60	4.26	7.36	6.58
April	3.62	1.12	3.34	3.09	1.95	2.23	1.56	8.55	2.80	5.94	3.62
May	2.19	9	3.62	4.45	2.49	4.24	1.33	3.68	1.05	2.71	2.19
June	2.16	5	9.8	3.66	2.75	3.83	2.84	2.22	5.45	6.1	2.16
July	3.37	3.49	2.98	2.89	2.79	3.82	2.58	1.67	2.22	3.37	2.673
August	5.86	4.36	7.95	2.22	2.45	6.90	1.1	4.78	2.28	5.86	4.323
September	9.90	5.16	5.19	6.49	4.74	6.27	3.42	4.85	1.34	9.90	4.883
October	11.34	5.48	6.98	4.79	6.29	8.1	.68	3.96	1.29	11.34	5.48
November	5.16	8.9	3.91	8.71	4.3	8.60	6.68	3.32	8.08	5.16	46.04
December	3.2.46	.59	2.65	5.44	3.25	5.42	2.80	6.84	10.43	2.46	49.38
TOTALS	35	51.16	19	53.82	46.82	44.26	49.30	44.20	51.94	47.25	51.16
	3	D	0	D	D	D	D	D	D	D	50.26

1941:- Tree 50' high 160° N. Tree 59' high 120° S. Dwarf wall 1/2' high 12° E. House 62' high 165° W.  
1947. Tel est for sun.

20004

M/S  
X

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	Parish Church.	Distance from gauge
1941			Penrith	1 mile	W.N.W.	Dacre	1 m E of S.

Station No. 3604

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## RAINFALL at Penrith (Hutton John)

County of Cumberland

Observer Mr. Huddleston Esq.

River Basin Eden &amp; Solway - 1

Type of Gauge Standard

Annual Average 45.1 in. based on 13 years obs. un-weighted. Period of average 1921-1945  
 48.07 " " 35 " " 1916-1950

Ref. S P

1916-1950

File No. 76697/27

Diameter ...	5"				600	791					
Height ...	1' 0"						1				
Altitude ...	689'						51				
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means Total
January	4.64	3.86	1.79	3.96	9.48	3.10	6.46	4.39	3.42	5.90	41.00
February	5.37	1.20	1.84	3.95	1.89	2.80	4.10	6.05	.90	5.21	33.31
March	5.04	1.96	.63	1.84	1.11	1.66	3.00	.94	2.84	1.39	20.40
April	2.44	(2.61)	3.60	1.16	1.06	1.41	.30	1.47	3.86	3.81	21.72
May	2.29	2.69	2.59	4.01	3.88	1.90	2.16	4.31	1.25	1.89	26.97
June	.80	2.63	2.81	4.16	2.65	2.86	1.38	4.15	4.72	1.60	27.76
July	2.98	2.61	4.33	3.52	2.31	4.76	4.00	3.18	2.97	4.28	34.94
August	4.42	6.98	5.23	5.39	3.01	7.65	6.05	3.44	.76	3.19	46.12
September	5.29	4.81	6.82	7.51	2.60	4.27	4.22	5.84	.96	2.74	45.06
October	.96	6.62	2.74	10.72	3.35	3.09	5.47	4.69	5.28	4.73	47.65
November	12.81	(2.50)	6.45	11.64	2.16	2.55	1.47	.78	6.31	9.77	56.44
December	10.55	(4.18)	2.86	6.61	7.68	7.39	6.58	4.13	7.45	6.22	63.65
TOTALS ...	57.59	(42.65)	41.69	64.47	36.18	43.43	45.19	43.37	40.72	50.73	465.02
	d	d	d	d	d	d	d	d	d	d	d

1951 Trees 50', 160' N; Trees 59', 120' S; Dwarf wall 1½', 12' E; House 62', 165' W;  
 1952. n.p. too much est.

Inspected 2-8-56 Mr. Deeks. Gauge sound and serviceable. Site has been shown  
 experimentally to be satisfactory

04034

Position of Station on Ordnance One-Inch map : No. of Map 8.3 National Grid Reference 35.44370270

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Parish Church.	Distance from gauge
1951			Pennardock	1 ½ NW	Dacre	1 ½ E by S.

Summary of Earlier Records from 10-year Sheets :

1916-1950, P - accepted

	1910-1913	1920-30/31	1931-40/41	1941-50/51	1951-60
Record D, or d	C 1916 -	✓ But - 20-23	✓ ✓	✓ ✓	