

# RAINFALL AT *Armbrook Falls The Pwllt*

70

Lat. ....

Lon. ....

County of *Cumberland*

Rain Gauge, by .....

Observer *J. F. Bateman Esq F.R.S.*

Diameter.....									7		
Height.....									1. -		
Altitude.....									655 T		
Year .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....									10.00	1.90	
February.....									6.70	4.60	
March.....								4 2.2	2.90	3.90	7.10
April.....									3.60	3.10	3.30
May.....									6.70	7.90	2.10
June.....									7.10	4.70	9.50
July.....									9.70	1.70	9.50
August.....									9.40	6.80	9.20
September.....									5.40	12.60	10.50
October.....									17.30	13.70	4.80
November.....									20.00	3.10	2.20
December.....									10.30	4.10	8.10
TOTALS.....									78.30	72.50	

# RAINFALL AT *Armbroth Fells, The Pickets*

80

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

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

County of \_\_\_\_\_

*Cumberland*

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

Observer *J. F. Pateman, Esq., F.R.S.*

*Derwent - 2*

Diameter ....	7										
Height .....	1.0										
Altitude ....	1650 T										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	3.80	1.20	8.20	14.30	15.20	5.50	7.00	8.80	4.30	5.80	7.410
February ....	11.10	5.90	11.10	10.90	9.30	16.10	2.80	6.50	1.50	3.80	7.900
March .....	3.70	7.50	8.30	3.60	6.80	5.60	7.90	2.20	5.60	4.30	5.550
April .....	5.80	1.90	6.60	3.70	2.50	7.50	4.70	4.80	4.90	4.00	4.640
May .....	3.80	7.40	5.20	3.80	8.10	4.00	6.10	2.50	6.20	4.60	5.170
June .....	5.20	10.10	8.20	5.40	1.00	3.20	2.40	.60	2.50	1.00	3.960
July .....	8.40	8.00	13.90	5.00	6.30	4.80	7.40	6.00	11.90	4.10	7.580
August .....	3.10	10.30	5.70	6.50	2.40	5.30	5.20	4.20	7.00	8.20	5.790
September....	8.30	3.70	5.10	8.90	10.20	12.70	16.30	10.60	2.00	4.50	8.230
October .....	2.70	4.90	6.80	10.10	4.90	9.40	7.80	3.70	11.00	12.00	7.330
November....	15.40	13.80	12.00	13.70	5.00	6.70	9.40	4.80	15.00	3.70	9.890
December ....	6.90	8.10	7.10	7.90	11.20	5.20	7.60	6.60	13.00	8.10	8.170
TOTALS ....	78.20	82.80	98.20	93.80	82.90	85.40	84.60	61.30	84.90	64.10	81.620?

1888 Aug to Dec. "Amounts unsatisfactory & adjusted by reference to the other gauges"

*Rejected from survey. 16" low.*

# RAINFALL AT *Armbroth Fells The Fenwits*

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

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

 County of *Cumberland*
*Derwent - 2.*

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

 Observer *G. H. Hill Esq. C.E.*

Diameter ....	7											
Height .....	10											
Altitude ....	1650 T											
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January ....	16.00	7.80	2.90	4.00	9.00	1.80	7.00	2.80	10.00	15.50	7.680	
February ....	1.40	.80	1.90	10.00	11.00	.60	6.40	10.00	8.70	7.40	5.820	
March .....	6.50	5.00	1.90	3.90	5.20	7.60	11.80	12.70	3.30	6.00	6.390	
April .....	2.40	4.50	1.50	1.10	3.80	7.60	4.10	4.80	7.40	9.00	4.620	
May .....	5.20	4.10	8.60	3.80	5.80	1.00	1.00	4.60	4.80	5.80	4.470	
June .....	8.30	2.30	6.40	4.50	4.30	2.20	5.50	5.90	6.00	2.60	4.800	
July .....	8.00	5.70	6.50	7.20	5.30	9.10	7.10	3.90	2.30	5.50	6.060	
August .....	9.00	19.50	11.10	9.00	9.10	12.50	4.70	14.00	11.20	3.60	10.370	
September ....	11.00	15.30	17.20	8.00	.50	3.90	12.80	8.80	6.00	12.80	9.630	
October .....	6.20	13.70	8.60	11.80	12.70	7.70	9.50	6.30	9.30	8.90	9.470	
November ....	16.20	8.40	10.50	6.70	14.10	9.50	2.80	8.60	11.00	12.60	10.010	
December ....	.50	18.70	3.00	13.50	11.00	6.80	11.00	18.00	19.00	5.00	10.650	
TOTALS ...	90.70	105.80	80.10	83.50	91.80	70.30	83.70	100.40	99.00	94.70	90.000	

1880 —

Rejected from survey, 16" low.



# RAINFALL AT *Armbrook Fells, The Hewitt*

Lat. ....

Lon. ....

County of *Cumberland*

Rain Gauge, by .....

Observer *G. H. Hill Esq C E*

*gement - 2.*

Diameter ..	7										
Height ....	1 6										
Altitude ..	<i>1650 ft</i>										
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	11.00	4.60	7.40	17.50	11.40	5.60	14.00	3.80	12.50	10.00	9.780
February ..	4.00	9.20	4.50	17.70	9.60	4.50	5.20	5.70	5.80	7.20	7.340
March ....	1.00	4.50	5.70	19.30	6.10	7.50	6.20	6.50	6.90	4.80	6.850
April .....	5.90	16.10	5.40	2.50	10.70	6.50	2.40	4.20	3.30	4.90	5.590
May .....	6.40	2.80	4.80	5.50	4.40	3.80	9.50	7.30	5.50	3.20	5.320
June .....	7.10	4.90	1.60	3.50	4.10	4.80	3.00	10.30	3.60	4.00	4.690
July .....	3.80	2.20	4.80	7.40	4.80	2.80	5.10	3.40	4.40	10.20	4.890
August ....	11.00	8.50	4.40	13.40	8.00	6.00	7.20	7.50	11.30	5.50	8.280
September ..	8.20	7.50	4.50	8.90	5.10	6.70	2.50	1.60	10.30	4.00	5.930
October ....	11.00	9.20	9.00	20.90	5.50	7.50	12.70	12.80	4.00	13.10	10.570
November ..	8.20	7.00	8.20	7.10	7.50	9.50	10.30	7.60	9.50	3.50	7.840
December ..	21.00	8.50	11.00	8.30	10.00	6.50	5.50	12.60	7.00	10.00	10.040
TOTALS ..	98.60	79.00	71.30	132.00	87.20	71.70	83.60	83.30	84.10	80.40	87.120

*Hill*

*Rejected from Survey. 16" low.*

RAINFALL at Armbush Falls The Bewellts (West of Lake)County of CumberlandObserver G. H. Hill Esq. C.E.River Basin Derwent 2

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

Diameter ...	7											
Height .....	1.6											
Altitude ...	1650 T											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	
January ...	6.20	3.40	6.30	7.20	7.20	7.00	14.10	1.90	10.80	6.00		
February ...	15.00	9.60	5.80	5.70	10.50	10.10	7.70	1.00	11.10	1.10		
March .....	5.50	2.60	7.90	7.20	9.00	3.30	1.80	4.80	3.00	4.70		
April .....	6.60	6.30	2.00	8.30	2.80	4.40	6.00	5.90	1.50	5.70		
May .....	4.20	4.50	3.50	3.50	3.50	1.20	5.40	4.40	2.90	2.20		
June .....	2.20	5.20	6.30	5.00	2.60	1.90	4.70	4.40	3.70	4.60		
July .....	7.40	2.30	8.40	.60	5.10	6.00	5.20	2.30	5.70	2.20		
August .....	12.20	5.80	6.40	2.10	5.50	3.60	4.50	16.90	7.80	5.90		
September ..	1.30	5.20	3.00	3.50	3.80	1.40	4.10	10.10	14.50	6.60		
October ...	5.10	9.00	8.20	5.00	1.50	1.70	19.30	14.30	10.30	2.60		
November ..	5.60	9.20	5.00	9.70	10.60	2.10	12.50	11.80	6.20	5.20		
December ...	15.00	15.10	13.20	8.40	11.90	13.30	6.30	3.40	8.10	12.90		
TOTALS ...	86.30	78.20	76.00	67.20	74.00	56.00	91.60	81.20	85.60	57.70		

*Rejected from Summary 16" low.*

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.

RAINFALL at ARMBOOTH FELLO (THE PEWITTS) New G.County of CumberlandObserver L. HOLME LEWISRiver Basin Derwent 2.Manchester Corp. W.W.

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

Diameter ...							5				
Height .....							1.0				
Altitude ...							1650				
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEANS.
January ...						(8.30)	14.70	10.80	19.60	2.50	16.00
February ...						11.80	12.20	6.00	11.20	2.00	.50
March .....						2.70	4.50	8.50	8.60	1.70	4.30
April .....						9.90	6.10	5.60	3.60	2.30	2.90
May .....						10.30	4.50	4.90	1.50	6.80	4.60
June .....						.50	5.50	7.00	13.60	3.70	3.60
July .....						1.80	10.10	8.80	6.30	9.50	7.10
August .....						7.80	8.90	9.80	13.40	11.60	15.60
September...						6.90	9.10	12.80	5.90	3.60	6.80
October .....						12.80	7.20	13.00	16.50	13.20	17.40
November...						2.40	13.10	10.90	16.50	19.10	12.90
December...						9.30	2.10	3.40	6.20	20.60	7.60
TOTALS...						(84.50)	93.00	101.80	122.90	96.60	99.30.

1925. New gauge fixed Jan 19. Total for Jan est'd from old gauge.

*Revised from survey. 11" low.*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



RAINFALL at Armbroth Fells The PwellsCounty of CumberlandObserver Messrs G. H. Hill & Sons C.E.River Basin Derwent 2L. Holmes Lewis (1921)


 Rain Gauge, by  
 + high float dim. 7.02  
 7.03  
 7.05

Diameter ...	7	10									
Height .....	1	6	1	3			0.9				
Altitude ...	1650										
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.
January ...	9.20	23.50	5.90	5.30	5.40	6.10		10.20	19.30		
February ...	5.80	.80	7.10	9.30	1.10	7.20		6.80	11.20		
March .....	9.10	16.30	3.50	3.20	1.30	2.00		8.50	8.60		
April .....	5.00	1.70	3.50	4.20	3.00	6.20		5.60	3.60		
May .....	8.10	4.40	4.70	5.50	5.30	6.80		11.90	1.50		
June .....	3.40	.70	4.50	2.70	2.70	1.40		7.80	13.50		
July .....	8.00	5.20	9.70	4.60	7.70	1.80		8.80	6.30		
August .....	3.80	10.80	5.40	12.20	5.30	6.10		9.80	13.40		
September...	3.40	3.70	6.40	8.30	10.50	5.10		12.60	5.70		
October .....	4.20	4.30	2.80	13.00	5.60	10.40		13.00	16.50		
November...	5.90	3.70	3.20	8.20	6.10	2.40		10.90	16.50		
December...	7.10	17.50	9.50	5.30	11.40	7.40		3.70	6.20		
TOTALS...	73.00	91.60	66.00	81.80	65.40	61.00		101.80	122.90		

See new sheet

1924. Low. N.P. On hills. W. side of lake.

+ Inspected R. Colles X.25. site in 20 yds. S. of new g. & probably overexposed.  
 g. is in wooden box - waterlogged

1925 Not furnished low.

1927. See new gauge sheet.

*Rejected from survey. 16" low.*

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

Reference No. \_\_\_\_\_

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

RAINFALL at Armbboth Fells (The Pewitts)\*County of CumberlandObserver Manchester Corp'n. W.W.River Basin Derwent - 2.

Type of Gauge .....

Annual Average <sup>1910</sup> in. based on 24 years obs. un-weighted. Period of average 1916-1950 Ref. ....

660604/56.

Diameter	5.										
Height	1.0.										
Altitude	1650.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	8.9	24.20	15.11	21.24	4.76	12.84	17.23	17.60	17.51	2.00	14.39
February	6.8	19	10.78	7.76	19.55	45.6	10.56	5.91	17.12	4.16	80.39
March	1.9	59.2	7.06	6.75	2.35	6.34	5.60	9.90	8.43	11.73	65.98
April	4.1	9.71	3.10	6.27	7.30	2.18	5.38	1.61	4.78	4.10	48.53
May	6.2	59.2	4.48	9.00	8.7	1.76	3.54	7.41	1.57	1.97	42.72
June	10.0	53.2	3.59	4.82	7.27	5.70	5.40	14.77	7.74	1.02	65.63
July	10.4	10.66	9.35	2.95	4.21	11.06	6.06	16.12	14.08	9.59	94.48
August	5.6	1.79	6.56	4.71	4.94	4.18	4.79	7.31	4.40	5.26	56.54
September	3.4	9.84	2.47	14.10	17.03	10.02	9.56	7.41	3.70	9.87	87.40
October	9.1	16.40	8.70	16.36	18.04	11.12	6.04	28.49	5.07	12.11	131.43
November	19.1	8.97	3.96	3.12	9.57	11.48	2.54	18.98	19.05	13.57	110.34
December	9.1	25.16	1.13	18.37	5.19	17.73	6.46	9.19	5.74	12.73	110.80
TOTALS	94.6	1240.8	76.29	115.45	101.08	98.94	83.16	144.70	109.19	88.11	1035.63

\* Gauge over exposed on Moor (B.R.).

Gauge fixed on site about 11 yds. from old - surrounded by turf wall in Dec. 1931. (Recommended after inspection in Sept. 1931.)

Painted in BR with footnote "turf wall round gauge."

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



Station No. T.F. 3634

RAINFALL at Annboth Talla (The Pewitts) S

41

County of LancashireObserver Manchester & W.River Basin Dunsmuir

Type of Gauge

Annual Average <sup>101.3</sup> in. based on 24 years obs. un-weighted. Period of average 1916-1950 Ref.1918 in. computed by Mr Cornish (1943) for 20048740. 1881-1915 File No. 196 138 132

Diameter	5"				592	840						
Height	1' 0"					1						
Altitude	1650'					41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	
January	4.54	7.08	14.69	15.55	(9.00)	9.10	10.53	13.96	7.62	8.11		
February	11.45	3.16	6.78	4.99	(13.00)	5.23	(2.50)	7.41	8.04	9.61		
March	4.68	7.34	2.97	1.11	5.99	4.49	(9.50)	8.02	2.30	5.49		
April	3.96	7.09	5.61	(5.96)	4.30	2.57	13.14	5.50	10.52	5.98		
May	6.47	8.77	6.27	4.29	8.13	1.73	5.24	3.11	4.09	2.94		
June	.93	1.73	6.16	7.25	5.94	7.28	5.65	11.23	1.96	5.83		
July	4.23	7.40	5.07	4.20	6.51	6.95	5.22	5.57	3.01	6.36		
August	12.87	12.27	12.94	6.69	2.98	12.01	.06	8.09	5.71	13.06		
September	2.59	12.22	8.94	10.61	9.58	13.63	9.07	10.38	4.04	18.96		
October	10.46	12.89	12.21	9.79	12.02	1.04	2.35	8.11	10.58	7.79		
November	8.73	2.34	5.25	(16.15)	.90	15.25	18.25	8.07	15.80	8.74		
December	9.37	15.52	4.24	10.69	7.25	10.02	3.85	11.64	13.35	2.43		
TOTALS	80.33	99.31	91.13	(97.28)	85.60	89.30	85.36	79.09	87.02	96.30		10
		M	MP	n.p.	n.p.	n.p.	M.P.	M.P.	M.P.	M.P.		

1943. n.p. low

1944 n.p. too much estimation April 1945 n.p. low

1945 n.p. low Jan &amp; Feb past est'd. 1946 n.p. low.

1947 n.p. low Feb &amp; March est. snow.

1948 n.p. low

1950 n.p. low

Jan &amp; Feb 1945

April 1945 n.p. low

Oct-Nov 1945

1946 n.p. low.

1947 n.p. low

1948 n.p. low

1949 n.p. low

1950 n.p. low

30004

04024 60004

S. J. J. wall round gauge.

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

RAINFALL at Armbold Tells (St. Penitta) Station No. 3634 IF  
 County of Cumberland Observer Manchester borgh. N. D.  
 River Basin Derwent - 2  
 Type of Gauge

Annual Average 101.80 in. based on 24 years obs. un-weighted. Period of average 1916-39 Ref. 196738/52  
 File No. 196738/52

Diameter ...	5"				92	840					
Height ...	1' 0"					1					
Altitude ...	1650'					51					
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	8.26	(7.50)	3.83	8.33	7.91	(6.07)	22.21	11.08	7.53	14.29	
February ...	9.90	2.95	3.92	6.66	3.53	1.54	11.32	11.46	3.55	13.64	
March ...	7.60	(6.18)	.72	5.95	2.16	3.88	9.21	2.55	9.97	3.33	
April ...	7.00	4.08	4.08	2.26	4.30	2.13	2.80	3.74	8.95	10.45	
May ...	3.61	4.39	3.16	6.61	8.39	4.95	5.09	11.50	2.02	4.38	
June ...	2.87	4.30	4.13	9.24	5.71	4.10	3.09	6.73	5.81	6.73	
July ...	4.87	5.06	10.28	9.52	3.94	8.76	9.21	6.33	11.05	10.75	
August ...	11.00	11.16	9.08	8.08	4.63	14.24	11.43	10.05	2.02	5.91	
September ...	10.86	6.44	14.07	16.16	6.40	7.12	11.82	12.90	1.64	7.51	
October ...	1.34	8.10	6.66	21.91	6.51	9.86	15.98	13.16	16.27	5.95	
November ...	16.91	4.91	18.68	22.33	4.76	4.23	4.69	3.17	16.50	23.58	
December ...	13.00	4.45	6.90	14.36	13.13	19.28	14.78	7.95	22.79	13.67	
TOTALS ...	97.22	69.52	85.51	131.41	71.37	86.16	121.63	100.62	108.10	120.19	
	NP	NP.	NP.	M							

1951 NP 100

1952 NP 100

1953 NP 100

1954 NP 100

1955 NP 100

1956 NP 100

1957 NP 100

1958 NP 100

1959 NP 100

1960 NP 100

1961 NP 100

1962 NP 100

1963 NP 100

1964 NP 100

1965 NP 100

1966 NP 100

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2007 NP 100

2008 NP 100

2009 NP 100

2010 NP 100

2011 NP 100

2012 NP 100

2013 NP 100

2014 NP 100

2015 NP 100

2016 NP 100

2017 NP 100

2018 NP 100

2019 NP 100

2020 NP 100

2021 NP 100

2022 NP 100

2023 NP 100

2024 NP 100

2025 NP 100

2026 NP 100

2027 NP 100

2028 NP 100

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2196 NP 100

2197 NP 100

2198 NP 100

2199 NP 100

2200 NP 100

2201 NP 100

2202 NP 100

2203 NP 100

2204 NP 100

2205 NP 100

2206 NP 100