

RAINFALL AT Geltdale

Lat.

Long.

County of

Cumberland

Rain Gauge, by

Observer C.B. Newton Esq. C.E.

Eden & Solway - 1

Diameter .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
Height .....									1.2		
Altitude .....									924		
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	
January .....									2.48	5.96	
February .....									3.00	2.36	
March .....									1.48	1.92	
April .....									4.56	3.17	
May .....									2.93	3.11	
June .....									4.16	.93	
July .....									2.34	5.98	
August .....									6.39	1.18	
September .....									1.57	5.60	
October .....									5.31	3.37	
November .....									2.51	3.44	
December .....									4.33	2.31	
TOTALS .....									41.06	39.33	

1898 Cumrew Castle Carron Ch 2 ft + 2 $\frac{1}{8}$  miles S.W + N.W.

## RAINFALL AT Geltdale

Lat.

Lon.

County of Cumberland

Swindon

Rain Gauge, by Corroller

Observer C.B. Newton Esq. C.E.

Eden etc - 1.

J.Campbell Boyd Esq. C.E.  
H.C. Martholby Esq.

Diameter ..	5										
Height ..	1.2										
Altitude ..	924 ft										778 ft
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	3.34	1.97	3.72	3.91	2.62	.92	4.50	.69	2.39	2.47	2.653
February ..	3.06	1.39	.82	4.80	2.82	1.44	1.98	1.13	1.37	2.25	2.106
March ..	.57	2.31	2.92	4.42	1.78	3.41	1.73	2.50	3.66	3.69	2.699
April ..	3.59	2.05	2.00	2.01	3.28	3.66	1.15	2.14	1.83	3.71	2.542
May ..	1.54	1.63	2.57	3.46	2.38	1.48	4.50	3.68	3.17	1.96	2.637
June ..	3.56	2.45	1.79	1.96	2.05	1.06	2.45	4.66	1.95	3.53	2.546
July ..	2.40	1.69	3.62	5.28	2.26	1.97	2.48	3.71	3.66	7.70	3.477
August ..	4.25	3.41	2.83	6.50	4.50	4.94	5.25	4.05	3.87	4.08	4.368
September ..	2.79	1.06	1.75	4.60	1.05	3.51	1.41	.41	4.77	2.74	2.1409
October ..	5.40	4.11	3.54	9.10	2.35	2.24	4.51	6.24	1.63	5.38	4.450
November ..	3.75	5.82	1.89	3.65	2.56	3.05	3.35	2.78	3.03	1.57	3.145
December ..	5.29	3.21	4.12	2.72	2.72	2.02	1.81	4.03	2.24	5.30	3.346
TOTALS ..	39.54	31.10	31.57	52.41	30.37	29.70	35.12	36.02	33.57	44.39	36.878

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Hills

1903 Castlecannock Church 3 miles NW

Howgill Station 5 3/4 miles NW.

1904 Cardurneth Pike 1511.7 1 1/2 miles NW

Tarnmire Fell 1677.8 1 NE

Middle Tap 1607.1 1 SE

1908 Marske Gauge moved 500 yards N

## RAINFALL at Geltdale.

County of Cumberland

Observer.

H. G. Marks Esq C.E.

River Basin Eden &amp; Solway

Sunder Rain Gauge, by Casella

Diameter ...	5														
Height .....	1.2														
Altitude ...	778 ft														
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919					
January ....	3.04	1.66	1.95	4.07	3.53	3.74	3.91	2.10	2.83	3.79	12.63				
February ...	5.96	3.46	2.05	1.55	4.41	4.37	3.21	0.92	2.81	1.07	8.01				
March .....	1.66	2.48	5.66	5.29	3.28	2.52	2.14	1.73	1.33	2.97	8.17				
April .....	2.65	2.96	.45	4.52	1.35	2.38	3.56	2.11	.87	2.24	8.78				
May .....	2.15	2.09	2.44	2.30	2.36	1.78	3.59	2.47	1.73	1.30	9.09				
June.....	2.39	4.13	5.43	2.06	2.12	2.32	3.55	1.77	1.60	1.75	8.57				
July .....	5.19	1.07	3.87	1.60	3.45	3.83	5.16	1.40	4.36	1.87	12.79				
August.....	5.91	3.06	5.72	2.51	2.81	4.04	3.60	6.89	3.28	4.62	18.39				
September ..	.62	2.46	3.41	2.30	2.13	1.07	2.09	3.80	6.82	2.27	14.98				
October ...	1.83	4.29	3.59	3.68	1.98	.67	5.56	4.68	4.34	3.69	18.27				
November ..	4.74	4.46	4.07	3.70	5.33	1.29	5.58	3.51	2.03	3.52	14.64				
December ...	2.92	6.54	4.02	2.82	7.09	4.88	3.40	1.97	3.28	4.66	13.31				
TOTALS ...	39.06	38.66	42.66	36.40	39.88	32.89	45.35	33.35	35.18	33.75	147.63				
	D	D	D	D	D	D	D	D	D	D					

1911 cor. for W.D.  
 1912 Cadwrek Hill 1511.7 high 12 miles WSW  
 Tannock Fell 1677.5 : " " NE  
 Middle Top 1607.1 : " " SE

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911	54° 30'	2° 39' W	How Mill	5 1/4 mi	NW	Loch Garroch	3 mi	NW

## RAINFALL at Geltedale

County of Cumberland

Observer H. G. Moxon Esq. C.E.

River Basin Eden - Solway

F. Dalton, Esq. L.C. (126)

Snowdon Rain Gauge, by Casella  
1927 M.O.

City of Carlisle

Diameter ...	5"											
Height .....	1.2											
Altitude ...	778											
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEANS:	1920-29 TOTALS
January ...	4.40	5.29	2.73	2.39	2.90	3.06	3.65	3.45	6.18	1.38	6.60	41.03
February ...	2.20	2.0	3.25	4.53	1.11	5.35	3.52	1.29	3.56	.60	.39	25.80
March .....	4.32	5.14	2.01	1.38	1.03	2.84	1.66	2.86	3.26	.60	2.18	27.00
April .....	3.08	1.00	2.69	3.45	2.22	4.00	3.09	2.54	0.60	1.99	1.93	26.59
May .....	5.14	1.75	1.75	2.74	3.56	4.02	2.97	2.66	1.56	1.59	1.45	29.29
June .....	1.22	.79	3.41	1.21	2.19	.45	4.43	3.87	5.56	2.20	2.27	27.60
July .....	5.05	2.76	5.63	3.26	4.57	1.97	3.08	4.14	5.03	3.83	7.63	46.95
August .....	2.42	5.99	3.43	8.35	5.28	4.35	4.14	5.86	7.81	4.72	6.69	59.04
September...	2.57	2.11	2.75	3.55	4.60	4.14	5.01	3.10	2.29	1.56	2.57	39.25
October.....	1.00	3.05	1.15	5.23	3.25	3.44	3.07	2.57	5.85	6.69	4.75	39.05
November...	2.33	1.70	1.33	4.47	2.49	1.64	5.47	4.98	5.43	6.25	3.92	39.01
December...	3.34	5.13	4.92	2.80	4.61	3.49	1.20	1.44	2.97	6.64	2.72	39.26
TOTALS...	37.07	34.91	35.15	43.36	37.83	38.45	41.29	43.7	49.90	36.05	42.10	439.87

1920 Bardwick 1511.7 High 1/2 mi W SW.

Yarrowdale 1617.8 - " NE  
Middle Top 1607.1 " 1 " SE

Position of Station on reduced Ordnance Survey Map, 2 miles to 1 inch Series				No. of Map	Reference No.	
Date.	Lat. N.	Long. W.	Railway Station.	Distance from gauge	Parish Church.	Distance from gauge
1920	54° 52' 30" 2° 39' 45"		Haw Mill	53 1/4 mi NNE	Glasgow Carron	3 mi NW

## RAINFALL at Geltsdale,

County of Cumberland

Observer P. Dalton, Esq., C.E.

River Basin..... Eden & Solway - I.

Type of Gauge..... M. O.

Annual Average 32.8 in. based on 31 years obs. un-weighted. Period of average 1981-1985 Ref 5

1931. Cardnook Pike 1511' 7' high 1/2 m WSW. Yarrowath Fell 1677' 8' high 1 m NE.  
Middle Top 1607' 1' high 1 m SE.

*Position of Station on reduced Ordnance Survey Map,* } No. of Map.....  
1 mile to 1 inch Series }

**References No.**

1 mile to 1 inch Series							
Date.	Lat. N.	Long.	Railway Station.	Distance from gange	Direction	Parish Church.	Distance from gange
1931.			Bow mill (near)	5 1/2 m	N.W.	Baile Banock	3 m N.W.

Station No. M 3618

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RAINFALL at Geltshall

County of Cumbria and Observer P. Dalton Esq C.E.  
 River Basin 1 - Eden & Solway L.T.A. STORM ESS (II 49)  
 Type of Gauge M. O.

Annual Average 26.2 in. based on 31 years obs. un-weighted. Period of average 1881 - 1915. Ref. S

File No. 493342/36

Diameter	5"				604	039					
Height	1' 2"						1				
Altitude	778'						41				
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means Total 1941-50
January	1.08	3.63	4.08	2.79	3.89	3.12	2.34	7.48	2.80	2.94	34.15
February	(3.89)	2.03	2.60	2.13	3.43	2.23	(1.50)	2.28	2.47	4.81	27.37
March	3.92	2.05	1.03	.57	2.22	1.64	(4.41)	1.65	1.33	2.21	21.03
April	1.30	1.80	1.90	2.30	2.12	1.72	4.26	2.25	2.98	2.65	23.28
May	2.52	3.07	3.01	2.73	5.47	1.54	2.27	1.39	1.37	2.31	25.68
June	.80	1.09	2.91	3.96	3.52	3.96	3.62	4.81	.66	2.95	28.28
July	1.38	4.02	3.11	2.48	2.46	5.70	5.30	2.40	2.72	3.70	33.27
August	6.20	2.39	6.30	4.31	3.03	6.02	.11	6.14	2.14	6.82	43.49
September	1.09	4.73	3.72	5.71	3.34	5.60	3.23	5.08	1.21	6.07	39.78
October	5.07	4.02	5.07	3.04	3.60	1.08	.59	2.82	5.18	3.02	33.49
November	2.03	.89	1.71	6.10	.45	5.00	4.72	3.26	4.75	4.64	33.55
December	1.08	4.11	1.91	3.37	1.89	3.17	2.39	2.89	5.71	1.57	28.15
TOTALS	30.36	33.83	37.35	39.49	35.42	40.78	34.74	42.45	33.41	43.69	371.52

1941 Feb. covered by snow.

1947. School near post ext. ref. sum. stations.

30004

20004

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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

18 ~~4~~ TF<sub>107</sub>

'51

RAINFALL at Gelttsdale

County of Cumberland

Observer Dr. F. D. Stawler, C.E.

River Basin - Eden & Solway - 1

Betty Surveyor and Water Engineer  
Geologist

Type of Gauge..... M.D.

Annual Average 36.8 in. based on 31 years obs. un-weighted. Period of average 1881-1915 Ref S

37-98 - " 35 - 1916-1950

1916-1950 P  
File No. 49.3342/36

Diameter	5"		604	039					5"		
Height	1' 2"				1				10"		
Altitude	778'				51				778'		
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means Total
January	3.78	3.77	2.08	3.04	2.88	2.22	3.95	2.96	2.38	5.53	32.53
February	2.45	1.43	1.06	1.69	2.10	1.64	3.02	4.16	1.07	3.01	21.63
March	4.33	1.26	.60	1.56	.95	1.75	2.72	.78	1.75	1.29	16.99
April	2.09	2.49	2.97	.82	2.23	1.41	1.30	2.17	3.00	2.35	20.83
May	2.08	1.58	2.60	3.45	2.34	1.43	2.67	3.84	1.98	2.08	23.55
June	1.79	3.23	2.25	4.16	3.49	3.43	1.72	2.45	3.10	1.73	27.35
July	4.15	3.38	5.34	5.09	1.78	3.43	5.22	4.23	4.01	5.46	42.09
August	3.47	3.83	5.38	6.08	1.94	11.40	4.83	4.26	.92	3.79	45.90
September	4.08	3.88	4.11	5.91	2.72	2.69	4.46	4.13	1.65	1.97	35.60
October	1.40	2.85	1.84	9.13	2.32	3.75	4.67	3.70	4.47	3.22	37.35
November	7.30	3.42	4.48	5.02	1.38	2.30	1.70	1.84	5.71	5.16	38.31
December	5.61	3.51	2.17	5.01	4.03	3.81	3.79	4.40	5.18	3.59	41.10
TOTALS	42.53	34.63	34.88	50.96	28.10	39.26	40.05	38.42	35.22	39.18	383.23

Reported 12-9-60 by Giffheller. Site of all densities. Run of g. loose. Alt. site 40 yds N saddle w but otherwise  
satisfactory. Overlay rec. NY(35) 575537 250'

1960 low but point

*Position of Station on Ordnance One-Inch map:*

*No. of Men*

National Grid Reference NY 3573536

*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
		✓	✓	✓	✓	
(62) WL 13072-389	101	6/50	T.S.	841		