

# RAINFALL AT Geltsdale

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

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

County of Lumberland

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

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

Eden & Solway - 1.

Diameter ....									5		
Height .....									12		
Altitude ....									924		
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
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 Currer Cattle Canal Ch 2 1/2 + 2 3/8 Miles S.W. + N.W.

# RAINFALL AT

Geltsdale

Lat.

Lon.

County of

Cumberland

Snowdon

Rain Gauge, by Cassella

Observer

C.B. Newton Esq. Ch.

Idem etc - 1.

J. Campbell Boyd Esq. & E.

H.C. Marshall 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	2.409
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	44.38	36.898

1903 Castlecarnock Church 3 miles NW

How Mill Station 5 3/4 miles NW.

1904 Canderneth Pike 1511.7 1 1/2 miles NSW

Fammeth Fell 1677.8 1 NE

Middle Top 1607.1 1 SE

1908 Mars gauge moved 500 yards N

Hick

RAINFALL at GeltdaleCounty of CumberlandObserver H. F. Marking C.E.River Basin Eden & Solway 1Smother Rain Gauge, by Caralla

Diameter ...	5											
Height .....	1.2											
Altitude ...	778 ft											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1910-1919 Mean Total	
January ...	3.04	1.66	1.95	4.07	3.53	3.74	3.91	2.10	2.83	5.79	12.63	
February ...	5.96	3.46	2.05	1.55	4.41	4.37	3.21	.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	1.50	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	3.64	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	42.64	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 cont for W.D.  
 1912 Cardington Pike 1511.7 high 1 1/2 miles W 56  
 Tarncliffe Hill 1677.8 " " " NE  
 Middle Top 1667.1 " " " SE

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911	54. 30 52.52	2° 39' W 39' W	How Hill	5 1/4 mi	NW	Bas Barrook	3 mi	NW



RAINFALL at GeltsdaleCounty of CumberlandObserver H. C. Markus Esq B.E.River Basin Eden - Solway 1P. Dalton, Esq. B.E. (126)Snowdon Rain Gauge, by Garth  
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	5.60	41.03	
February ...	2.20	2.0	3.25	4.53	1.11	5.35	3.52	1.29	3.36	.60	.39	25.80	
March .....	4.32	5.14	2.01	1.38	1.05	2.54	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	1.55	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	3.37	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	5.96	7.81	4.72	6.69	59.04	
September...	2.57	2.11	2.75	3.55	4.60	4.14	5.01	8.10	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	5.69	4.75	39.05	
November...	2.33	1.70	1.33	4.47	2.49	1.64	5.47	4.98	5.43	5.25	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	43.71	49.90	36.05	42.10	439.87	

1920 Bardunnoch 1511.7 High 1 1/2 mi W S.W.  
 Farnmouth Fell 1677.8 " 1 " N E  
 Middle Top 1607.1 " 1 " S E

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	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1920	52° 51' 30"	2° 39' 45"	How Mill	5 1/2 mi	NW	Garth Barrock	3 mi	NW

RAINFALL at Geltsdale,County of CumberlandObserver P. Dalton, Esq., C.E.River Basin Eden & Solway - L.Type of Gauge N.O.Annual Average 36.8 in. based on 31 years obs. un-weighted. Period of average 1881-1915 Ref. 5

Diameter	5										
Height	1.2										
Altitude	778										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1931-40 Means Totals
January	2.80	3.60	3.32	4.80	2.23	3.11	3.54	3.65	5.01	1.74	33.80
February	3.52	3.9	2.77	2.25	4.91	2.91	4.38	1.44	2.93	1.82	24.32
March	1.30	3.59	2.37	2.58	1.29	1.40	1.43	2.00	3.89	4.45	24.30
April	2.56	3.04	1.65	3.02	3.72	1.29	2.56	5.9	2.01	2.25	22.69
May	2.10	3.42	2.73	3.26	1.96	6.9	3.22	2.94	1.3	2.75	22.80
June	5.24	1.36	2.35	3.53	4.31	3.00	2.01	3.90	3.18	1.98	29.86
July	6.86	4.56	3.91	3.13	2.53	4.89	3.15	4.76	4.14	6.73	46.66
August	3.55	2.00	2.81	4.42	2.55	1.73	2.12	3.14	2.28	3.29	27.89
September	1.55	5.71	1.19	3.22	3.87	3.69	3.66	2.50	1.44	5.06	31.89
October	3.57	5.81	3.83	5.32	6.68	3.90	2.34	7.99	2.76	2.89	45.09
November	4.77	2.42	2.00	1.69	3.48	3.46	1.33	6.39	5.03	3.40	33.97
December	2.33	1.91	1.12	4.32	2.26	5.05	3.67	3.17	1.31	3.92	29.06
TOTALS	40.15	37.81	30.05	39.54	38.19	35.12	33.41	42.47	34.71	38.28	370.33
	D	D	D	D	D	D	D	D	D	D	

1931. Landrum Pike 1511' 7" high 1/2 m W.S.W. Lammath Fell 1677' 8" high 1 m NE.  
Middle Top 1604' 1" high 1 m SE.

1941. Averages so worked for 1933/42/36

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
1931.			<u>Boss Hill (near)</u>	<u>5 3/4 m</u>	<u>N.W.</u>	<u>Castle barock</u>	<u>3 m</u>	<u>N.W.</u>

Station No. M 3618RAINFALL at Geltsdale

41

County of CumbriaObserver P Dalton Esq. C.E.River Basin 1 - Eden & SolwayL.T.A. Sten, Esq. (11.47)Type of Gauge M.O.Annual Average 36.8 in. based on 31 years obs. un-weighted. Period of average 1881-1915. Ref SFile No. 493342/36

Diameter	5"				60.4	039					
Height	1' 2"					1					
Altitude	778					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means 1881-1950 Totals
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	2.17	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 D	33.83 D	37.35 D	39.49 D	35.42 D	40.78 D	34.74 D	42.45 D	33.41 D	43.69 D	371.52

1941 Feb. record for snow.

1947 Feb. record much put out, ref. sun strikes.

30004

20004

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. 3618 7F 107RAINFALL at Geltedale

51

County of CumbriaObserver L. J. R. Howley C.E.River Basin Eden & Solway - 1

City, Town and Water Engineer

Type of Gauge M.D.BarbaleAnnual Average 36.8 in. based on 31 years obs. un-weighted. Period of average 1881-1915 Re WS37.98 " " 35 " " 1916-1950File No. 1916-1950 493342/36 P

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
January ...	3.78	3.77	2.08	3.04	2.82	2.22	3.95	2.96	2.38	5.53	32.33
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	.96	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	3.34	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
	D	D	D	D	D	D	D	D	D	D	10

Reported 12.4.60 by Giffiths. Site of all directions. Run of g. low. alt. site 40 yds N alt of c. 100 ft above stream  
 satisfactory. Overlap rec. W (35) 575537 750'

1960 low but print

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference NY 35173536

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
	✓	✓	✓	✓	
	✓	✓	✓	✓	