

RAINFALL AT Carlton Cowdenknowes The Gartens.

Lat. Lon. County of Berwick

Leader - 2 Rain Gauge, by Observer Mr J Robertson

Diameter					5						
Height						10					
Altitude							360				
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January					3.95	1.90	3.29	1.39	1.51	.49	
February					3.37	2.75	1.94	.80	1.57	2.00	
March					1.69	1.26	4.09	1.74	3.45	2.14	
April					1.37	2.57	1.36	1.37	1.78	3.39	
May					2.10	3.09	3.92	1.34	.98	1.91	
June85	.71	1.59	.85	3.28	.55	
July					5.10	1.00	2.34	2.70	3.25	3.78	
August					1.47	1.78	1.61	2.54	2.67	4.60	
September					2.16	2.72	2.00	3.67	.92	1.09	
October					1.42	3.39	4.04	1.04	1.07	4.19	
November					1.93	1.12	3.73	3.29	6.26	.71	
December					2.37	1.14	2.54	1.75	1.94	1.67	
TOTALS					27.78	23.43	32.45	22.48	28.68	26.52	

RAINFALL AT Carlton Cowdenknowes The Gardens

Lat. 55° 39' N.

Lon. 2° 43' W.

County of

Berwick

Rain Gauge, by

Observer

Mr. J. Robertson

Leader - 2.

Diameter	5										
Height	10										
Altitude	360										
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	3.02	2.08	1.58	1.46	2.77	3.47	1.35	1.67	.89	2.95	2.124
February95	.21	2.25	3.44	6.23	.68	1.04	1.55	1.29	1.66	1.930
March	1.67	4.10	1.57	1.00	1.33	3.25	2.28	3.68	1.76	1.84	2.248
April98	.61	1.07	.78	1.14	.88	.98	1.17	2.97	2.66	1.924
May	1.29	1.43	2.83	2.15	3.75	1.04	.59	1.03	1.41	3.11	1.863
June	2.52	.83	3.14	2.14	3.05	1.32	1.94	3.40	1.12	1.64	2.110
July	2.80	2.21	1.73	2.22	2.18	4.80	3.78	1.45	.89	2.96	2.502
August	4.77	6.00	3.60	1.88	4.08	4.86	1.57	4.23	2.35	.77	8.1113
September	1.26	3.82	1.29	1.00	.67	.13	4.23	2.57	2.23	2.12	1.932
October	1.71	2.17	3.65	1.53	3.39	4.70	3.26	1.54	5.84	1.97	2.976
November	3.94	2.39	1.43	2.44	2.11	3.36	1.19	1.95	3.76	3.53	2.610
December80	5.32	1.33	2.77	2.30	2.78	4.86	3.75	1.66	2.80	2.837
TOTALS	25.71	31.17	25.47	22.81	33.00	31.27	27.07	27.99	26.17	28.03	29.869

1899 January New Negretti gauge

RAINFALL AT Earlston Cawdenknowes

Lat.

Lon.

County of Berwick

Rain Gauge, by N.Y.

Observer Mr J. Robertson

Tweed, Leader - 2.

Diameter ..	5										
Height ..	0 10										
Altitude ..	360										
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	3.33	2.26	1.51	4.03	2.12	.90	2.86	.99	2.74	2.58	233.2
February ..	4.47	1.37	1.22	4.02	2.90	1.33	1.70	1.67	1.99	1.79	222.46
March ..	1.39	1.69	1.57	3.06	2.29	3.09	2.15	2.20	5.39	5.59	284.2
April ..	2.05	2.11	2.00	1.39	1.79	2.34	1.21	2.13	1.43	3.42	198.7
May ..	1.52	2.22	2.53	1.50	2.50	1.23	6.18	3.65	1.98	1.94	252.5
June ..	4.58	1.71	2.42	1.45	2.82	1.55	2.20	3.41	1.42	1.69	232.0
July ..	3.88	2.17	2.65	4.25	2.92	2.12	1.99	2.48	2.47	2.24	271.7
August ..	3.97	3.64	1.55	3.64	3.15	5.88	5.93	3.68	2.27	1.79	355.0
September ..	1.82	1.44	1.56	2.80	1.12	2.00	.91	.78	2.42	2.56	1.741
October ..	3.69	2.11	2.02	8.27	.87	2.11	6.31	5.82	2.03	3.89	371.2
November ..	4.18	3.92	2.27	1.87	2.00	3.78	3.26	2.38	1.56	.51	257.3
December ..	3.92	5.20	3.56	1.55	2.11	1.14	3.70	3.83	.98	3.65	296.4
TOTALS ..	38.76	29.84	24.86	37.83	26.59	27.47	38.40	33.02	26.68	31.65	31509 1664

1900 Earlston Church 1 mile N

1903

Station 1 N.

H.W.S.

RAINFALL at Carlston, Cowdenknowes

County of Berwick Observer Mr. Jas. Robertson
 River Basin Tweed - left bank trib. Leader Mr. John Smith (May 1915 -)

Rain Gauge, by N + Z.

Diameter ...	5	Height	0.10	Altitude ...	360 ft	Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	SUMS.
January ...	3.05	1.13	2.14	3.57	1.60	1.43	3.05	3.02	3.57	3.41	2.57	2.05	2.45	2.54	2.01	2.22	9.18	13.05
February ...	2.84	2.02	2.67	1.03	3.04	2.45	3.87	7.1	2.54	2.01	2.22	2.33	2.77	2.68	1.57	1.76	1.89	1.91
March	1.29	2.45	2.51	3.68	3.26	2.12	4.33	1.46	1.73	1.56	2.33	2.33	2.56	2.77	1.57	1.76	1.89	1.91
April	2.84	2.00	3.2	3.23	.95	1.71	2.56	2.77	1.68	1.57	1.76	1.76	2.01	2.11	1.13	1.89	1.89	1.91
May	1.58	.96	1.16	2.97	1.81	1.41	3.76	2.01	2.11	1.89	2.01	2.01	2.11	2.11	1.13	1.89	1.89	1.91
June	1.15	2.70	5.76	1.89	2.22	1.08	1.56	1.51	1.24	1.89	2.01	2.01	2.11	2.11	1.13	1.89	1.89	1.91
July	4.43	.83	1.70	1.44	1.23	2.45	4.11	1.80	3.74	2.11	2.11	2.11	2.11	2.11	1.13	2.11	2.11	10.08
August.....	5.12	1.41	5.05	1.26	1.33	3.02	3.62	6.26	1.96	2.60	3.16	3.16	3.62	6.26	1.96	2.60	3.16	14.44
September ..	7.5	1.18	2.84	1.73	.89	1.61	1.87	1.55	4.16	1.65	1.82	1.82	1.87	1.55	1.65	1.82	1.82	9.23
October ...	3.21	2.73	3.13	2.58	1.89	2.12	4.46	3.81	3.35	2.58	2.98	2.98	3.13	3.81	2.58	2.98	2.98	14.20
November ..	3.17	3.91	2.06	2.47	3.80	1.89	4.63	2.25	1.04	4.46	2.98	2.98	3.13	2.25	1.04	4.46	2.98	12.38
December ...	2.20	4.52	2.76	2.64	5.19	5.68	2.89	1.89	1.41	4.52	3.37	3.37	3.37	2.89	1.89	1.41	4.52	10.71
TOTALS ...	31.63	25.84	32.10	27.49	27.21	25.97	40.71	28.79	25.53	27.03	27.23	27.23	27.23	28.79	25.53	27.03	27.23	122.06

1914 "Standing clean out".

Date.	Lat. N.	Long. W.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911			Carlston	1 mile	N.	Carlston	1 mile	N.
1913	51°39'	2°43'						

RAINFALL at Earlston (Loudonwood)

County of Berwick. Observer J. Smith
 River Basin 2 Tweed-Leader. J. J. Herring (1921)

(1920 M.O. Rain Gauge, by N.C.G.)

Diameter ...	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	SUMS
Height	0.10	1.2												
Altitude ...	560	300	320											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1920- MEANS.			
January	2.44	4.27	2.89	1.74	1.84	2.25	2.90	2.92	5.48	2.11	2.57	4.65		31.31
February	2.63	2.20	2.68	3.70	2.97	5.12	3.26	1.11	2.63	1.71	.70	1.42		24.76
March	2.57	2.61	1.73	1.87	1.68	1.86	1.66	2.45	4.30	1.12	2.81			22.10
April	2.06	1.45	2.64	2.41	1.51	2.59	2.30	1.81	1.96	1.77	1.30			19.74
May	3.08	1.40	1.82	1.83	3.58	4.80	2.34	1.87	1.49	1.18	1.07			23.46
June	1.88	1.53	2.15	1.90	1.45	1.40	3.08	2.48	4.42	1.95	2.06			20.30
July	2.92	3.01	3.51	1.77	4.86	1.81	2.28	3.55	1.43	4.91	3.38			33.43
August	3.71	5.33	2.40	4.19	2.63	4.27	3.33	7.60	4.81	4.89	5.61			48.27
September	1.10	1.39	2.08	1.33	3.58	4.74	3.93	6.15	1.19	2.20	2.84			28.75
October	1.89	2.17	2.95	2.37	2.94	2.58	4.09	3.03	5.15	2.84	4.46			35.97
November	1.46	1.44	1.67	3.07	1.34	1.22	4.12	2.32	3.88	3.07	3.21			35.80
December	3.52	2.69	2.05	2.35	4.01	3.42	1.44	1.99	1.46	4.14	2.64			27.73
TOTALS...	29.2	26.29	26.57	26.75	29.39	35.00	33.73	36.28	37.25	28.39	31.95			340.82

1922. Flower Beds 1 ft high 5 ft N.

Shrub 12 - 9 - 12.

Tree 20 - 12 - 12.

Site inspected by Dr. Glasenapp 20.9.29.

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	Parish Church.	Distance from gauge
1913	51°39'	243	Carlton	1 mi N.E.	1922 Carlton	1 mi N.E.

RAINFALL at Carlton (Gowdenknowes)County of BerwickObserver T J FlemingRiver Basin 2-Tweed-LeaderY.A. male

Type of Gauge

Annual Average 29.5 in. based on 44 years obs. unweighted. Period of average 1921-1940 Ref S

Diameter	5"											SUM Means
Height	1' 2"	1.0	1.3									
Altitude	300'											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940		
January	(1.80)	2.27	2.21	1.68	1.46	4.15	2.83	3.71	5.54	1.78	27.43	
February	(2.20)	4.43	2.42	.01	1.73	3.10	3.41	.77	1.63	1.58	7.28	
March	(1.10)	2.95	.59	3.77	1.17	1.55	3.06	.73	3.06	3.17	21.15	
April	(3.70)	2.58	.82	3.44	3.15	1.18	1.46	.33	1.17	1.87	9.70	
May	(2.70)	1.59	1.84	1.98	1.00	1.51	4.26	2.50	.96	1.44	19.78	
June	(3.90)	1.00	1.10	2.64	3.69	1.53	1.66	3.17	1.88	.68	21.25	
July	(3.80)	3.00	3.79	2.49	1.32	3.34	3.56	3.51	2.91	6.03	33.43	
August	(3.30)	.80	.82	2.52	2.52	1.10	2.87	2.18	1.02	.98	18.11	
September	(1.20)	3.57	1.41	2.54	2.91	4.18	1.98	2.04	1.74	2.07	23.64	
October	(1.40)	6.09	3.60	4.01	4.83	2.19	2.72	5.42	4.34	3.67	38.27	
November	(4.20)	1.12	2.07	2.41	3.09	3.48	.72	5.08	3.79	3.47	29.43	
December	(1.10)	3.30	.56	5.15	1.27	2.57	2.73	3.10	.96	2.09	22.83	
TOTALS	(30.10)	N.R.	(28.70)	21.23	32.64	28.14	29.88	31.26	32.54	29.00	28.83	292.32

1933 Shrub 8' high 15' E.

1934 Shrub 18' high 12' E.

Shrub 6' " 24' W.

24.823

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
			Carlton	3 fm	N.	Carlton	1 fm	N.E.

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