

RAINFALL AT *Carlisle Wreay Vicarage*

Lat. _____ Lon. _____ County of *Cumberland*

Rain Gauge, by _____ Observer, _____

Diameter....												
Height												
Altitude												
Year	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January							1.00	4.93	3.15	1.12		
February. ..							2.84	2.53	1.21	2.01		
March.....							3.33	1.77	1.32	1.78		
April							2.60	2.01	2.33	2.36		
May .....							.80	1.74	3.03	1.59		
June							2.26	2.53	2.55	3.30		
July.....							2.56	4.88	.58	5.21		
August							3.54	7.65	3.28	3.35		
September ..							3.40	1.99	3.62	2.11		
October							2.24	3.55	3.58	1.56		
November ..							2.04	5.98	1.35	1.82		
December ..							4.04	2.84	1.67	1.75		
TOTALS ..							30.65	42.40	27.67	27.96		

1879 Hedge 5ft high 36ft N.

" 4ft 6in " 42 " S.

Wreay church 125 yds NE & E.

80

RAINFALL AT *Carlisle, Treay Vicarage*

Lat. _____

Lon. _____

County of _____

Cumberland

Rain Gauge, by _____

Observed _____

Rev. J. Lees
Eden & Solway - 1

Diameter	5											
Height	2.0											
Altitude	310 T											
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January ....	.86	3.4	2.14	3.76	4.48	2.01	4.43	1.62	1.28	.89	2.181	
February	2.51	2.66	2.03	2.61	1.96	2.12	1.08	1.04	1.00	1.44	1.845	
March	1.36	2.43	2.59	1.59	2.79	2.00	2.37	1.76	3.01	1.69	2.159	
April	1.53	.94	3.52	1.98	1.35	1.77	1.88	2.23	1.03	1.72	1.795	
May	1.22	1.89	1.63	.76	2.21	2.21	3.19	1.41	1.38	2.29	1.819	
June	2.05	3.41	3.56	3.12	.49	1.28	1.36	.28	1.39	1.03	1.797	
July	6.06	4.59	4.55	3.48	6.75	1.67	5.06	1.95	5.46	3.17	4.274	
August	1.35	5.00	2.83	2.63	1.63	3.65	1.40	2.83	2.94	4.89	2.915	
September....	4.84	3.16	2.18	4.36	2.89	2.93	2.99	3.94	1.07	1.90	3.026	
October	1.59	1.92	2.77	3.59	2.00	2.59	4.50	2.29	2.32	3.80	2.737	
November....	3.00	3.47	4.61	3.95	1.18	1.88	3.43	2.50	3.35	1.46	2.883	
December	4.22	3.01	3.49	2.63	3.04	1.24	4.58	2.79	2.01	2.36	2.937	
TOTALS	20.59	32.82	35.90	34.46	30.77	25.35	36.27	24.64	26.24	26.64	30.368	

1880. Treay

125 yards

N.E. by E

Hedge 5ft high 36ft. N.

4ft. 6in. " 42ft. S

RAINFALL AT Carlisle Wreay Vicarage

Lat. _____

Lon. _____

County of _____

Cumberland

Rain Gauge, by _____

Observer _____

Rev. J. Lees

Rev. A. R. Hall

Eden & Solway - 1.

Diameter	5										
Height	2 0										
Altitude	310 T										
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	3.61	1.71	2.38	1.29	2.72	2.03	1.57	1.21	1.77	4.29	2.258
February ....	.59	.13	1.76	3.37	4.87	.93	1.41	1.93	2.46	1.71	2.016
March	2.24	1.79	1.09	1.53	1.25	2.90	4.37	4.13	1.19	1.62	2.211
April .....	.86	.87	.91	.57	2.05	1.47	2.07	1.12	3.07	1.61	1.190
May	2.39	1.96	3.67	2.02	3.87	.55	.52	1.28	2.56	3.23	2.205
June	3.21	.95	3.51	2.33	3.67	2.19	3.62	3.89	2.62	1.16	2.915
July	1.90	3.80	1.95	3.87	1.90	6.59	3.52	1.51	1.03	3.55	2.962
August	5.49	6.78	6.10	3.78	4.29	5.41	3.43	5.10	3.73	.97	4.568
September....	2.67	4.91	5.10	3.37	.37	1.08	4.51	3.93	.85	4.27	3.006
October	2.27	3.62	4.62	3.23	3.05	4.41	4.77	1.80	3.31	2.00	3.308
November....	3.91	2.83	2.01	2.04	3.25	3.68	1.09	3.09	2.42	3.45	2.777
December ....	.71	5.99	1.47	3.37	2.84	2.42	2.63	3.43	3.30	2.10	2.826
TOTALS	29.85	35.34	34.57	31.07	34.13	33.66	33.51	32.42	28.31	29.96	32.282

1890 Wreay Church 125 yards NE by E 1880—
Hedge 5 ft high 36 ft N + S

RAINFALL AT *Wreay Vicarage*

Lat.

Lon.

County of *Cumbria*

Rain Gauge, by

Observer *Rev. A. R. Hall*

Idem, etc - 1.

Diameter ..	5											
Height	2 0											
Altitude ..	310 II											
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.	
January ..	2.88	1.62	2.33	3.94	2.76	1.09	4.80	1.15	2.57	2.17	2.531	
February ..	4.28	1.01	.89	4.74	2.39	1.34	2.05	1.34	2.07	1.87	2.198	
March ....	.40	2.04	1.76	3.52	1.86	2.95	1.65	2.45	3.48	3.16	2.327	
April	1.25	1.58	1.81	1.40	2.09	3.06	.95	3.09	2.25	2.81	2.029	
May	1.38	1.11	2.04	2.85	2.74	1.31	4.75	5.17	3.31	1.34	2.600	
June	4.71	1.89	1.47	1.72	1.37	1.53	1.40	5.03	1.45	2.42	2.299	
July	1.16	1.10	2.83	5.98	1.75	1.73	1.93	2.08	2.88	4.82	2.626	
August	5.21	4.11	2.14	6.76	3.53	4.44	5.62	3.72	3.17	4.05	4.275	
September ..	1.50	.71	1.63	3.98	1.30	2.65	1.52	.40	2.81	2.35	1.885	
October	4.51	3.47	2.90	7.74	1.17	2.55	4.92	6.24	1.67	4.71	4.188	
November ..	3.33	3.22	1.16	2.46	2.79	2.63	3.42	2.62	2.47	1.43	2.553	
December ..	3.96	3.76	2.97	2.57	2.99	1.38	2.75	6.12	1.80	4.19	3.249	
TOTALS ..	34.57	25.62	23.93	49.66	26.74	26.66	35.76	39.41	29.93	35.32	32.760	

1903 Wreay Church Station 120 yards E + $\frac{1}{4}$ mile ESE

Tree 25 ft high 54 ft W

1907 Wreay Station $\frac{1}{4}$ mile E.S.E

Hall

RAINFALL at

Wreay Vicarage

County of Cumberland

Observer Rufus A.R. Hall

River Basin Eden & Solway 1

Rain Gauge, by

Diameter ...	5										
Height	2.0										
Altitude ...	310 T										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1916-19 Means Totals
January ...	3.03	.91	1.59	2.33	1.89	3.16	3.44	1.85	3.08	3.39	11.76
February ...	5.02	2.94	1.66	1.45	2.75	3.25	(3.63)	1.13	2.89	1.10	8.75
March	1.34	1.26	4.01	3.40	2.93	1.96	2.44	1.69	.83	2.90	7.86
April	2.13	2.33	.36	3.19	1.01	1.96	1.86	2.54	.67	1.70	6.77
May	2.73	1.97	1.74	1.76	1.61	1.39	2.83	2.16	2.27	1.75	9.01
June .....	.96	3.58	4.22	2.34	1.36	.70	3.43	2.13	.98	1.98	8.52
July	4.11	.65	3.04	1.44	2.99	3.06	2.80	1.51	4.42	1.26	9.99
August	5.32	2.94	4.52	1.87	1.94	3.38	2.61	6.53	3.86	3.41	16.41
September ..	.49	2.40	2.00	2.22	1.71	.81	2.15	2.10	8.42	2.03	14.70
October ...	1.56	2.71	2.29	2.62	1.33	.67	5.18	4.36	4.74	3.19	17.47
November ..	3.42	3.45	2.19	3.53	4.35	.82	3.79	2.84	2.43	3.14	12.20
December ...	2.93	5.66	3.65	2.42	4.49	4.81	2.74	1.46	3.39	4.21	11.80
TOTALS ...	33.04	30.80	31.70	28.57	28.36	25.97	(36.90)	30.30	37.98	30.06	135.24
	2	2	2	2	2	2	2	2	2	2	

1916 Feb'y not interpolated

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	54°49'	2°57' W	Wreay	1/4 m	E.S.E	Wreay	120 yds	E

RAINFALL at Wreay VicarageCounty of CumberlandObserver Rev. Canon A. R. HallRiver Basin Eden-Solway 1Wreay Rain Gauge, by

Diameter ...	5											
Height	2. 0											
Altitude ...	310											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS:	1920-30 Totals
January ...	4.41	4.85	2.45	1.64	2.63	2.34	3.44	3.32	4.27	1.08	4.03	34.46
February ...	2.18	.09	2.64	4.10	.57	5.01	3.45	1.16	2.86	.99	.19	23.24
March	3.93	3.20	1.74	1.03	1.07	1.27	.98	2.46	2.94	.26	2.39	31.27
April	2.16	.79	1.51	2.49	1.88	3.51	1.78	2.10	.76	1.45	1.42	20.15
May	3.63	1.61	1.90	2.28	3.31	3.37	2.26	1.87	1.47	1.36	1.05	24.11
June	2.08	.49	2.27	.63	2.13	.27	3.75	3.48	4.24	1.19	1.94	22.47
July	4.85	2.60	4.56	2.63	3.78	2.42	3.14	5.35	3.16	4.27	4.82	41.58
August	1.92	5.23	2.74	6.26	2.71	2.81	5.24	6.26	6.58	4.24	7.98	51.97
September...	1.87	1.69	3.33	2.74	3.69	4.10	5.22	7.11	1.40	1.15	2.28	34.58
October	1.11	3.11	1.15	4.99	3.24	2.96	3.07	2.36	4.31	4.48	3.86	35.63
November...	2.17	1.71	1.14	3.97	1.90	1.30	4.42	3.30	3.83	4.96	3.61	32.21
December...	2.64	3.59	3.90	2.89	5.68	3.34	.50	1.09	2.42	6.27	2.70	34.02
TOTALS...	32.95	28.96	29.63	35.65	32.59	33.69	37.25	39.36	38.24	30.70	36.17	375.69
	D	D	D	D	D	D	D	D	D	D	D	

1929. Herbaceous plants 3' high (in summer) 8 yards S.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
	54° 49'	2° 57'	Wreay	1/4 mi	E S E	Wreay	120 yds	E

RAINFALL at Wreay Vicarage,County of CumberlandObserver Rev. Canon A.R. Hall, Apr. 1940River Basin Eden & Solway-1Rev. J. Anderson

Type of Gauge.....

Annual Average 31.5 in. based on 35 years obs. un-weighted. Period of average 1891-1915 Ref. S

685911/26.

Diameter	5.										
Height	1.0.										
Altitude	310.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1931-40 Mean- Total
January	2.55	3.25	2.91	3.58	1.41	2.62	2.94	3.41	4.33	1.64	28.64
February	2.30	.14	2.13	.14	4.18	2.36	3.60	.87	2.18	0.58	184.8
March	.79	2.93	1.84	1.63	1.13	1.44	1.14	1.65	2.25	4.11	1891
April	1.88	1.80	.90	2.62	2.59	.72	2.31	.45	1.34	1.59	1620
May	2.28	2.33	2.64	2.53	.81	.44	2.36	3.15	0.91	2.32	1977
June	6.00	1.09	2.34	3.04	3.63	3.17	1.85	3.22	2.62	0.97	2793
July	4.30	5.01	3.91	2.38	1.46	4.08	2.49	3.89	5.83	6.62	3797
August	2.75	2.13	2.08	3.07	2.07	1.55	2.28	2.58	2.09	2.14	2274
September	1.56	5.09	1.48	2.15	4.05	3.94	2.44	2.29	1.19	3.43	2762
October	2.69	4.47	2.70	4.24	5.42	3.08	2.16	6.69	2.30	2.61	3636
November	4.69	1.75	1.20	.78	3.26	3.55	0.61	6.35	4.47	2.85	2951
December	1.95	2.26	.72	4.39	1.98	3.93	2.00	3.01	1.45	2.40	2409
TOTALS	33.74 D.	32.25 D.	24.85 D.	30.55 D.	31.99 D.	30.88 D.	26.18 D.	37.56 D.	28.96 D.	31.26 D.	30822

1931. Herbaceous plants, 3' high when full grown. 3yds.

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
1931.			Wreay L.N.S.	600 yds.	S.E.	Wreay	100 yds.	E.

Station No. 3616

RAINFALL at Wray Vicarage

41

County of Cumberland Observer Rev. F. SandersonRiver Basin Eden & Schungh - 1

Type of Gauge

Annual Average 34.5 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. SFile No. 685911/26

1890

Diameter	5"	6"	5"			605	105			8"	
Height	1' 0"		1' 0"				1			6' 0"	
Altitude	310'		300'	320'			41				
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means 1941-50 Total
January	83	3.80	4.00	3.05	3.05	2.50	2.30	5.80	2.25	2.10	29.68
February	3.48	1.70	2.75	1.25	3.65	1.86	(.50)	1.10	2.30	3.75	22.34
March	2.99	1.90	.80	.40	1.60	1.40	(4.35)	1.15	1.15	1.70	17.44
April	95	1.70	2.05	1.45	2.05	1.30	3.95	1.10	2.30	2.55	19.40
May	2.60	2.40	3.40	1.95	4.75	.65	2.95	.80	1.60	1.70	22.80
June	72	.90	2.95	3.05	2.65	2.94	2.70	3.40	.80	1.40	21.51
July	1.25	3.80	1.95	2.80	2.25	4.55	4.00	1.90	2.00	3.40	27.90
August	3.85	2.65	5.30	3.30	1.90	4.84	.25	4.45	2.30	5.10	33.94
September	1.05	4.05	3.60	6.50	2.60	5.45	2.55	5.65	.85	5.75	37.45
October	5.70	3.70	4.35	2.85	4.25	.75	.40	8.45	6.70	2.85	34.00
November	2.15	1.10	2.45	6.80	.25	4.70	3.85	2.65	3.85	3.55	31.35
December	1.25	2.95	1.20	3.95	1.65	3.10	2.05	3.65	5.65	1.55	27.00
TOTALS	26.82	30.65	34.80	37.35	30.65	34.04	29.85	35.60	31.75	35.40	324.81
	d	d	d	d	d	d	d	d	d	d	

10

1947 Feb. est. rain. put out for snow.

1950 gauge tested and found to be in working order on 1st June 1950.

30004

289.41

Position of Station on reduced Ordnance Survey Map, 1 mile to 1 inch Series

No. of Map

Reference No. 35 A 35458

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge.	Direction from gauge.
1941			Wray	1/2 mile	W.	Wray	108 yds	

BRITISH RAINFALL ORGANIZATION

10

Station No. 3616 T

51

RAINFALL at Wreay VicarageCounty of Cumbland Observer Rev. J. SandersonRiver Basin Eden & Solway - 1

Type of Gauge

Annual Average 31.5 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. SFile No. 63594/26

Diameter ...	5'				605	105						
Height ...	1' 6"					1						
Altitude ...	300'	320'				51						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	
January ...	3.05	3.20	1.25									
February ...	2.95	.95	1.00									
March ...	2.70	.95	.55									
April ...	1.55	2.05	2.65									
May ...	1.65	1.65	1.45									
June ...	.95	2.50	1.15									
July ...	3.35	2.15	2.55									
August ...	2.70	3.55	3.80									
September ...	3.05	2.70	2.95									
October ...	1.10	2.40	1.65									
November ...	5.65	2.10	3.45									
December ...	4.50	3.35	1.60									
TOTALS ...	33.20	27.55	24.05									
	d	D	d									

Dec 1953 Dominated Observer's hand

Position of Station on Ordnance One-Inch map : No. of Map..... National Grid Reference 35-235 488

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

Summary of Earlier Records from 10-year Sheets :

1916-1950 P - Rejected

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	✓	✓	✓	
	✓	✓	✓	✓	