

RAINFALL AT *Ravenglass The Grove*

Lat.

Lon.

County of *Cumberland*

Rain Gauge, by

Observer

3650
70

Diameter....						5					
Height						5.6				2.6	
Altitude						80					
Year	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January						4.29	1.56	7.37	3.58	1.36	
February ...						1.82	3.18	2.76	2.74	2.20	
March .....						.80	2.73	3.51	1.26	2.50	
April .....						.81	1.83	2.12	2.33	1.45	
May						2.23	.37	2.38	2.84	2.04	
June						3.93	3.41	3.40	2.81	3.40	
July						2.68	3.28	4.49	.76	6.73	
August						2.73	3.93	5.86	3.98	6.00	
September ..						5.06	4.94	2.45	4.59	4.01	
October						6.17	2.61	8.27	2.91	2.53	
November ..						4.20	3.64	9.20	2.20	1.16	
December ...						2.60	7.56	5.28	1.83	2.81	
TOTALS ..						36.82	39.04	57.09	31.83	36.19	

1879 Hedge 3ft high 40ft distant

RAINFALL AT *Parenglass, The Grove* 80

Lat. _____

Lon. _____

County of *Cumberland*

Northumberland

Rain Gauge, by _____

Observer *L. Ross, Esq.*

West Coast Streams - 3

Diameter	<i>5</i>										
Height	<i>2.6</i>										
Altitude	<i>80 ft</i>										
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January	<i>1.15</i>	<i>54</i>	<i>3.00</i>	<i>6.64</i>	<i>4.65</i>	<i>2.29</i>	<i>3.87</i>	<i>3.41</i>	<i>1.83</i>	<i>2.37</i>	<i>2.975</i>
February	<i>3.94</i>	<i>3.86</i>	<i>3.33</i>	<i>4.67</i>	<i>4.58</i>	<i>5.56</i>	<i>2.02</i>	<i>1.93</i>	<i>.99</i>	<i>2.68</i>	<i>3.356</i>
March	<i>1.81</i>	<i>3.91</i>	<i>3.47</i>	<i>1.60</i>	<i>4.67</i>	<i>3.20</i>	<i>4.33</i>	<i>1.37</i>	<i>3.39</i>	<i>2.70</i>	<i>3.045</i>
April	<i>2.40</i>	<i>1.60</i>	<i>3.49</i>	<i>2.82</i>	<i>1.38</i>	<i>4.08</i>	<i>2.14</i>	<i>2.72</i>	<i>2.28</i>	<i>1.74</i>	<i>2.465</i>
May	<i>1.56</i>	<i>3.61</i>	<i>2.19</i>	<i>1.23</i>	<i>3.10</i>	<i>2.11</i>	<i>4.17</i>	<i>2.12</i>	<i>1.84</i>	<i>3.62</i>	<i>2.555</i>
June	<i>2.88</i>	<i>4.52</i>	<i>4.15</i>	<i>3.70</i>	<i>.62</i>	<i>.99</i>	<i>2.02</i>	<i>.21</i>	<i>.93</i>	<i>.98</i>	<i>2.100</i>
July	<i>3.52</i>	<i>5.08</i>	<i>8.48</i>	<i>1.50</i>	<i>4.89</i>	<i>3.15</i>	<i>7.05</i>	<i>3.17</i>	<i>6.83</i>	<i>2.73</i>	<i>4.640</i>
August	<i>1.76</i>	<i>3.26</i>	<i>4.30</i>	<i>4.24</i>	<i>1.99</i>	<i>1.89</i>	<i>1.90</i>	<i>1.96</i>	<i>3.17</i>	<i>5.07</i>	<i>2.954</i>
September....	<i>4.64</i>	<i>3.03</i>	<i>3.16</i>	<i>4.71</i>	<i>3.96</i>	<i>6.71</i>	<i>5.76</i>	<i>3.93</i>	<i>1.60</i>	<i>3.28</i>	<i>4.078</i>
October	<i>.91</i>	<i>3.00</i>	<i>3.97</i>	<i>3.53</i>	<i>4.09</i>	<i>2.71</i>	<i>6.07</i>	<i>3.08</i>	<i>3.88</i>	<i>5.51</i>	<i>3.675</i>
November....	<i>5.53</i>	<i>5.93</i>	<i>6.40</i>	<i>6.21</i>	<i>1.46</i>	<i>5.22</i>	<i>5.22</i>	<i>2.71</i>	<i>6.28</i>	<i>3.26</i>	<i>4.822</i>
December	<i>4.73</i>	<i>3.63</i>	<i>3.17</i>	<i>3.93</i>	<i>3.75</i>	<i>1.38</i>	<i>6.45</i>	<i>0.80</i>	<i>4.42</i>	<i>5.45</i>	<i>4.071</i>
TOTALS	<i>34.83</i>	<i>41.97</i>	<i>49.11</i>	<i>44.78</i>	<i>39.14</i>	<i>39.29</i>	<i>51.00</i>	<i>30.41</i>	<i>37.44</i>	<i>39.39</i>	<i>40.736</i>

X.

1880 Muncaster

1 mile.

E.

1882 Hedges 4 ft 6 in. high 30 ft W. & N.

RAINFALL AT Ravenglass The Grove

Lat. _____ Lon. _____ County of Cumberland

Rain Gauge, by _____

Observer J. Ross Esq

West Coast Streams 3.

a Watt Esq

Diameter	5							5			
Height	2 6							1 2			
Altitude	80 π							84			
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	5.67	2.28			(490)			1.74	3.56	4.49	
February ....	.82	.43			(1430)			2.53	2.49	2.57	
March	3.51	2.50			(1410)			4.37	1.10	2.51	
April	1.65	2.47			(870)			2.27	3.58	3.58	
May	3.08	1.81			(1340)			1.94	2.71	3.46	
June	6.07	1.54			(1320)			3.96	3.26	1.73	
July	3.49	3.45			(2050)			1.82	1.03	3.58	
August	5.96	8.20			(2880)			6.56	6.82	1.80	
September....	5.71	5.85			(1680)			3.41	3.11	4.97	
October	2.80	6.82			(2690)			2.57	3.57	2.65	
November....	11.01	6.15			(1720)			6.11	4.51	3.30	
December ....	.65	7.22			(2220)			3.97	4.08	3.62	
TOTALS	50.42	48.72	45.00	41.00	43.00	39.00	43.00	41.25	39.82	38.26	42.947

211.00

1890 Manchester Church 1 Mile E

Hedges 4 ft 6 in high 30 ft W + N

1897 House 16 ft high 42 ft S.W.

Meaning years computed from Volcanic activity (Manchester 1915)

months computed from Severe winter 1915

RAINFALL AT *Ravenglass The Grove*

Lat. _____ Lon. _____ County of *Cumbria*

Rain Gauge, by _____

Observer *A. Watt Esq*

W. Coast stream - 3.

W. C. Marshall

Diameter ..	5											
Height	1.2											
Altitude ..	84 T											
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.	
January ..	5.78	2.07	2.59	3.67	4.69	1.80	4.81	1.39	3.87	2.37	3.304	
February ..	5.28	2.08	2.07	3.00	3.22	2.47	3.60	2.35	2.17	2.96	2.920	
March ....	.79	2.56	3.44	4.30	3.44	3.37	1.93	(3.77)	4.03	3.21	3.084	
April	2.61	2.67	1.55	2.10	2.75	4.36	1.62	3.45	1.94	3.57	2.662	
May	3.29	1.27	2.91	3.13	2.54	2.18	6.00	4.23	3.43	2.93	3.191	
June	3.63	2.09	1.46	2.66	1.05	2.56	2.28	7.16	2.42	2.71	2.802	
July	2.14	1.49	3.81	3.89	2.27	1.98	3.16	2.62	5.37	6.23	3.296	
August	7.43	6.66	3.39	3.89	4.35	4.78	5.89	4.93	4.65	3.20	4.917	
September..	3.09	2.41	1.87	6.28	2.47	2.75	1.37	.65	5.60	2.76	2.925	
October	5.44	6.34	3.66	8.91	2.41	3.95	4.55	7.69	2.25	7.84	5.304	
November ..	4.82	4.21	3.54	4.64	3.90	4.85	4.09	5.02	3.67	1.64	4.038	
December ..	6.29	4.65	4.51	3.46	2.96	2.34	3.43	6.20	4.11	6.87	4.482	
TOTALS ..	50.59	38.50	34.80	49.93	36.05	37.39	42.73	49.46	43.51	46.29	42.925	

1900 Minneaster Church $\frac{1}{4}$ mile E
 House 16 ft high 42 ft S
 1903 Ravenglass Station $\frac{1}{8}$ mile W

Hub

RAINFALL at Ravenglass The fureCounty of CumbriaObserver Miss C MarshallRiver Basin West Coast streams 3Alex. Wall Esq (11)

Rain Gauge, by

Diameter ...	5											
Height	1	2	2	8								
Altitude ...	84	77	77									
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	TOTALS
January ...	3.35	1.77	3.97	4.93	3.93	4.99	2.83	2.36	4.57	4.24	14.60	
February ...	5.59	3.49	2.50	1.75	5.08	7.17	3.59	1.35	4.78	3.5	10.57	
March	2.83	1.20	5.46	4.20	4.79	2.24	1.00	2.72	1.52	4.10	9.34	
April	2.42	3.88	1.03	4.40	1.12	2.57	2.88	1.93	1.06	3.24	9.11	
May	2.40	3.47	1.90	4.61	2.12	1.35	3.30	3.01	1.91	1.90	10.12	
June	2.24	2.72	5.74	2.58	1.16	1.09	4.04	2.72	2.09	1.80	10.65	
July	4.23	1.10	4.02	1.15	6.22	5.03	3.37	1.29	5.76	9.2	11.34	
August	5.76	3.26	6.21	1.97	3.03	3.99	1.91	6.30	4.52	3.73	16.46	
September ..	9.7	3.95	2.07	1.73	2.64	1.43	3.30	4.80	8.62	4.01	20.73	
October ...	1.92	3.19	5.05	3.73	1.29	1.67	7.20	7.26	4.67	2.61	21.74	
November ..	5.09	5.10	5.09	3.94	4.56	1.74	5.76	4.87	2.70	4.27	17.60	
December...	5.60	9.76	4.63	3.16	7.04	7.69	4.56	3.22	7.18	6.38	21.34	
TOTALS ...	42.40	42.89	47.67	38.15	42.98	40.96	43.74	41.83	49.38	38.65	173.60	

1912 House 16 ft high 14 ft E

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911			Ravenglass	1/2 mi	W	Truncaster	1 1/4 mi	E

RAINFALL at Prasenglass, The GroveCounty of CumberlandObserver Alexander Watt Esq.River Basin West Coast Streams 3Sweton Fraser (1921)Water Marchant (1923)

Rain Gauge, by _____

Diameter ...	5											
Height	2.8	3.0							1.0			
Altitude ...	77	70										
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEANS.	1920-30 Totals
January ...	5.12	6.26	4.44	3.49	4.81	2.77	5.28	4.39	8.57	2.09	6.87	54.09
February ...	2.41	1.9	4.05	7.93	1.11	5.44	3.61	3.28	4.29	1.74	3.4	34.39
March	5.84	4.43	1.77	1.47	1.34	3.4	1.50	3.75	4.13	1.16	2.12	28.35
April	4.70	1.62	1.76	4.82	2.39	3.40	2.26	2.21	1.45	2.08	2.56	29.25
May	3.99	2.60	3.41	2.68	5.14	6.90	2.55	2.42	8.2	2.24	1.65	34.40
June	3.69	4.2	2.88	1.25	3.29	6.1	2.01	2.82	4.39	2.66	2.22	26.24
July	4.55	3.61	5.52	4.52	5.37	1.72	3.92	6.32	5.13	5.24	3.45	49.35
August	3.15	6.24	4.87	6.85	3.34	4.48	4.45	4.36	7.04	5.16	7.27	57.21
September...	4.76	1.54	2.50	6.33	5.35	3.09	4.68	7.96	3.87	1.98	2.87	44.93
October	2.57	1.90	2.53	8.61	3.94	6.01	3.82	3.36	6.87	6.86	7.87	54.34
November...	3.06	2.54	2.85	5.80	2.99	2.55	7.53	5.13	8.07	8.65	5.65	54.72
December...	3.02	5.11	5.77	6.60	7.59	3.42	1.27	1.88	3.39	8.36	3.70	50.61
TOTALS...	46.86	36.46	42.35	60.35	46.66	41.23	42.88	47.88	58.52	48.12	46.57	517.88

1920 House 70 ft high 14 yds E

1923

1924 2 1/2 stone wall 6' " 10' " W

Position of Station on reduced Ordnance Survey } No. of Map _____

Map, 2 miles to 1 inch Series

Reference No. _____

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
	54° 21' 30"	5° 24' 15"	Prasenglass	1 1/4 mi 400 yds	W	Manxston	1 1/4 mi	E

RAINFALL at Ravenglass (The Grove)County of Cumberland, Observer Walter Marchant, Esq.River Basin West Coast Streams - 3.

Type of Gauge.....

Annual Average 42.5 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. Bar N

614475/27

Diameter	5.										
Height	1.0.										
Altitude	70										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1931-40 Means 1089.5
January	4.92	5.13	4.19	4.68	2.43	4.70	4.82	4.11	4.99	2.19	4216
February	3.42	.01	5.77	22	4.41	2.00	5.32	1.57	4.64	1.60	2896
March	1.10	3.79	3.53	2.64	1.23	3.15	3.18	1.97	3.00	4.67	2826
April	3.02	3.15	1.84	2.68	2.76	.70	2.90	.25	2.25	1.52	2107
May	3.10	4.79	2.70	4.09	.91	.95	1.80	4.30	.44	1.50	2458
June	6.66	1.97	2.02	1.95	3.77	5.03	2.34	4.91	3.78	.70	3313
July	5.85	6.11	3.04	1.04	2.05	4.29	3.18	6.16	5.86	4.29	4187
August	3.02	2.03	3.17	4.58	2.63	3.50	3.03	3.51	1.43	1.68	2858
September	2.17	4.91	1.11	5.91	8.36	4.44	3.28	3.16	2.31	4.62	4027
October	3.40	8.70	3.13	5.64	6.72	3.22	2.96	8.48	1.97	4.82	4904
November	8.23	2.56	2.39	1.03	4.56	6.10	1.49	8.14	4.65	5.43	4458
December	5.22	5.79	1.21	7.64	3.97	5.69	2.67	5.28	1.71	5.30	4446
TOTALS	50.11	48.94	34.10	42.10	43.80	43.95	36.97	51.84	37.03	38.32	42696

1931. Garden wall 6' high 10 yards S.W.

Inspected 1934:- Recommended that rain should be caught in glass bottle. Otherwise satisfactory.

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.			Ravenglass	4 m	W.	Mellin castle	1 m	E.

Station No. M 3650.

RAINFALL at Barrington (The Grove)

41

County of Cumbria Observer Walter Marchant Esq.River Basin West Coast Streams - 3 G.T.A. D. 1946Type of Gauge W.G. MARSHALL'SAnnual Average 42.5 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. B of NFile No. 814475/27

Diameter	5"				591	170						
Height	1' 0"											
Altitude	70'					41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	
January	1.70	4.27	6.70	4.71	3.93	5.07	4.41	7.96	8.06	2.33	44.14	
February	3.35	1.86	2.84	1.77	3.45	3.59	.87	2.47	2.39	4.77	27.38	
March	2.66	3.85	.97	.40	2.86	1.78	6.99	2.97	2.84	4.10	28.42	
April	2.34	1.78	2.38	2.73	2.36	2.00	4.39	2.19	3.31	3.33	26.81	
May	3.50	3.33	3.59	1.92	3.82	1.62	4.97	1.38	2.81	1.62	28.56	
June	.87	.92	3.01	2.79	3.76	3.54	2.41	5.33	.65	2.94	26.22	
July	2.35	3.64	3.25	3.25	2.90	3.96	3.46	2.20	4.12	4.39	33.51	
August	3.99	5.04	7.90	3.49	1.18	4.41	.22	3.94	3.83	6.28	40.28	
September	2.38	4.03	5.16	4.12	4.68	6.78	3.51	5.70	2.60	8.59	47.55	
October	5.71	4.35	7.20	5.01	5.28	.87	.85	4.04	5.14	3.26	41.51	
November	3.34	1.31	3.11	7.11	.28	7.12	5.07	4.47	4.83	4.34	40.98	
December	1.84	5.68	2.32	3.99	3.27	7.08	1.96	5.45	6.17	2.62	40.38	
TOTALS	34.03	40.08	48.43	41.29	37.77	47.82	37.91	48.10	41.75	48.56	425.74	10

14.5 Aug. Tree killed about 3 yrs ago. Nearest trees 50-60 yds away. It probably 60 ft. young wood. 3 trees 25 ft. 27 ft.
No vegetation near. Wire with 1/2 inch cage 10' away 6' high.

1950 Garden wall 6 ft high 30 ft. E & W. Row of trees 60 ft high 60 ft. SW. House 40 ft high 80 ft. N. Row of trees 50 ft high 70 ft. N.

377.18

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.

Station No. 3650 mRAINFALL at Ravenglass (The Grove)

51

County of CumberlandObserver W. S. Harriott Esq.River Basin West Coast Streams - 3Date 12th 15th 11th 1957Type of Gauge HO MK II

(See Agent)

Annual Average 42.5 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. Bd N44.12 " " " " " " 1916-1950File No. 814475/27

Diameter ...	5"				59 1/2	70				5"	
Height ...	1' 6"					1	1 1/2			11"	
Altitude ...	70'					51	128'			70'	
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means Totals
January ...	4.16	2.94	2.74	2.99	1.95	3.42	3.47	4.50	2.06	5.55	33.78
February ...	4.65	1.14	1.49	4.30	1.52	.55	3.59	5.32	1.45	5.14	29.15
March ...	4.35	2.45	.39	2.93	2.29	1.37	3.12	1.68	2.82	1.29	22.69
April ...	1.16	3.19	2.52	.86	2.94	.91	1.30	1.45	3.16	4.31	21.80
May ...	1.73	2.62	2.54	3.42	2.00	2.47	2.90	4.03	1.13	2.53	25.37
June ...	1.05	3.13	1.10	3.81	4.11	3.10	2.55	4.70	3.06	1.59	28.20
July ...	3.14	2.63	5.23	5.46	3.35	5.10	4.02	3.83	2.68	5.65	41.09
August ...	6.16	4.59	4.56	5.07	3.10	9.21	3.62	3.89	.52	3.88	44.60
September ...	5.61	3.05	5.64	6.12	3.10	3.06	7.20	4.56	1.77	4.39	44.50
October ...	.91	4.77	2.50	7.53	2.66	3.99	4.76	4.54	5.81	1.93	39.40
November ...	14.18	1.68	8.28	10.36	2.75	1.50	1.49	2.97	7.22	8.82	58.95
December ...	6.82	4.58	2.80	4.68	6.05	6.70	6.00	3.98	7.47	4.15	52.23
TOTALS ...	53.92	36.77	39.77	57.53	34.82	41.38	44.02	45.15	39.15	49.23	441.76
	D	D	d	D	d.	d.	d	d	9	d	10

Inspected 15.9.60 by G.H. Hunter. Observed from 15' difficult to maintain regular readings owing to staff shortage. Reasonable
 etc. 50'-100' W - 760'-20' N - house 40'-80' NE - Evengrove 30'-60' WSW.

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference SK34988965

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

Summary of Earlier Records from 10-year Sheets :

1916-1959, P-accepted

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	✓	✓	✓	
	but - 1913, 15-19	but - 21-26	✓	✓	