

RAINFALL AT *Alston New Head*

70

Lat..... Lon..... County of *Cumberland*.....  
.....Rain Gauge, by..... Observer *J. G. Harder Esq.*.....

Diameter.....											
Height .....				10							
Altitude.....				1450							
Year .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....			#	8.52							
February.....				.96							
March.....				3.38							
April.....				1.35							
May .....				2.67							
June.....				1.95							
July .....				2.97							
August.....				6.00	5.30						
September.....				3.53	5.24						
October.....				5.60	6.71	#					
November.....				3.92							
December.....				3.96							
TOTALS .....				44.81							



RAINFALL AT *Boothe Rectory*

Lat.....

Lon.....

County of *Cumberland*Rain Gauge, by..... Observer *Rev. Arthur Watkins*

Diameter.....	8	.						1	.		
Height.....	1	.							.		
Altitude.....	87	80	87						80		
YEAR.....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	3.87	2.53	8.55	5.18	3.88	5.60	1.85	8.16	3.51		
February.....	2.80	5.90	6.26	1.43	3.09	1.24	3.93	3.33	3.39		
March.....	2.67	2.52	4.38	4.33	2.33	1.22	3.03	3.62	1.52		
April.....	1.95	3.62	1.38	.55	1.51	1.56	1.29	2.98	2.46		
May.....	2.73	1.36	2.69	1.39	1.03	2.50	1.56	3.50	3.10		
June.....	1.64	1.65	6.90	2.64	1.06	4.52	3.00	2.66	2.98		
July.....	7.46	3.12	4.83	5.57	2.09	3.54	3.61	4.54	.54		
August.....	1.63	2.15	4.08	4.10	7.72	4.17	3.96	5.80			
September.....	3.26	2.43	7.98	2.23	5.38	5.89	5.26	2.20			
October.....	8.33	6.83	8.11	5.91	5.91	6.01	2.91	7.51			
November.....	3.42	4.44	5.19	2.89	4.67	4.67	3.89	8.77			
December.....	3.42	4.36	6.79	2.32	4.17	2.35	9.75	5.79			
TOTALS.....	37.26	40.91	67.14	38.54	42.84	43.27	44.04	58.86			

1871 In kitchen garden free from trees or walls



# RAINFALL AT *Ravenglass The Grove*

3650  
70

Lat. \_\_\_\_\_ Lon. \_\_\_\_\_ County of *Cumberland*  
Rain Gauge, by \_\_\_\_\_ Observer \_\_\_\_\_

Diameter . . .						5					
Height . . .						3.6				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 . .						1.32	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 *Egremont Braystones*

Lat.....

Lon.....

County of.....

*Cumberland*

Rain Gauge, by.....

Observer

*John Dalton Watson Esq*

Diameter .....	.10	.	.	.	.	.	.	.	.	.	.
Height .....	3.8	.	.	.	.	.	.	.	.	.	.
Altitude .....	34.	.	.	.	.	.	.	.	.	.	.
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	3.72	2.65	7.19	5.96	4.07	4.67	1.70	9.38	2.37	1.65	4.336
February.....	2.38	3.05	3.57	.70	3.10	1.46	2.84	3.00	2.88	2.01	2.499
March.....	2.23	2.25	4.14	3.64	2.18	.90	2.49	2.64	1.40	1.97	2.384
April.....	1.96	2.26	1.00	.48	1.63	1.06	1.71	2.42	1.84	.83	1.519
May .....	2.23	1.03	1.53	1.75	.82	2.51	.35	4.64	2.02	1.77	1.865
June.....	1.30	2.02	6.93	1.95	1.00	3.93	4.71	2.60	2.25	3.01	2.970
July .....	1.10	2.24	3.95	4.59	2.24	2.76	2.41	4.25	.50	6.69	3.073
August.....	7.01	3.15	3.16	4.91	5.23	2.81	3.69	5.95	5.91	3.39	3.925
September.....	4.46	1.81	5.57	2.39	4.06	4.20	4.39	2.34	4.61	4.63	3.840
October.....	6.59	4.56	6.09	6.13	6.52	4.47	3.57	6.16	3.36	1.94	4.939
November.....	2.48	4.16	4.43	2.15	4.51	3.05	3.63	10.09	2.41	.97	3.788
December.....	1.71	3.70	4.41	1.97	2.48	2.79	6.32	5.05	1.34	2.72	3.249
TOTALS .....	31.17	32.92	57.91	36.62	37.84	34.61	37.81	58.52	30.89	31.58	38.387

1870 - 5.28 of previous six years and - 9.6 of 1869 / 21



RAINFALL AT *Scawfell Pike*

Lat. ....

Lon. ....

County of ..

*Cumberland*

Rain Gauge, by .....

Observer

*J. Fletcher Esq.*

Diameter .....			<i>.4</i>								
Height .....			<i>.6</i>								
Altitude .....			<i>32.00</i>								
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....			<i>9.90</i>		<i>8.33</i>	<i>5.50</i>					
February.....			<i>4.60</i>			<i>frozen</i>					
March.....			<i>6.41</i>				<i>Frozen</i>	<i>Frozen</i>			
April.....		<i>4.93</i>	<i>5.50</i>					<i>Frozen</i>			
May.....			<i>2.82</i>			<i>4.35</i>	<i>5.10</i>	<i>3.80</i>	<i>5.30</i>	<i>2.65</i>	
June.....			<i>7.23</i>		<i>1.05</i>	<i>6.65</i>	<i>3.00</i>	<i>3.70</i>	<i>3.70</i>	<i>5.00</i>	
July.....			<i>6.27</i>		<i>6.14</i>		<i>4.39</i>	<i>7.20</i>	<i>2.16</i>	<i>7.00</i>	
August.....			<i>8.95</i>			<i>5.43</i>	<i>4.40</i>	<i>5.30</i>	<i>8.00</i>	<i>3.00</i>	
September.....			<i>15.62</i>		<i>Receiver stopped</i>	<i>4.80</i>	<i>8.90</i>	<i>4.00</i>	<i>6.10</i>	<i>8.75</i>	
October.....			<i>12.80</i>	<i>7.10</i>		<i>frozen</i>	<i>frozen</i>	<i>8.29</i>		<i>3.20</i>	
November.....			<i>6.15</i>	<i>5.94</i>		<i>frozen</i>	<i>frozen</i>				
December.....			<i>4.60</i>	<i>4.88</i>	<i>3.00</i>		<i>14.20</i>			<i>8.00</i>	
TOTALS .....			<i>90.75</i>						<i>49.25</i>	<i>—</i>	

New gauge fixed 30th Sept. 79. I expect better results from new gauge for though it is not far from this ~~other~~ it will be less easily seen and being more difficult to handle tourists will not abstract water. Letter from J.M. 7.10.79

1879 Gauge frozen up in Jan'y. Feb. Mar. & Nov<sup>r</sup>



70  
CENTENNIAL

County of Cumberland

Observer.....

[illegible]



RAINFALL AT *Esthwaite*

Lat.....

Lon.....

County of...

*Cumberland*

Rain Gauge, by.....

Observer

*J. Fletcher Esq. M.P.*

Diameter .....											
Height .....											
Altitude .....	<i>2550.</i>										
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	<i>Frozen</i>		<i>12.90</i>		<i>11.30</i>	<i>9.73</i>					
February .....	<i>do</i>		<i>10.76</i>			<i>Frozen</i>		<i>16.00</i>	<i>16.55</i>		
March .....	<i>7.82</i>		<i>8.80</i>				<i>Frozen</i>		<i>12.00</i>	<i>1.00</i>	
April .....	<i>—</i>	<i>6.62</i>	<i>6.24</i>						<i>7.50</i>	<i>.35</i>	
May .....	<i>7.32</i>		<i>3.25</i>			<i>5.55</i>	<i>8.10</i>	<i>18.00</i>	<i>7.20</i>	<i>4.25</i>	
June.....	<i>5.36</i>		<i>9.33</i>		<i>1.34</i>	<i>8.10</i>	<i>6.19</i>	<i>5.10</i>	<i>3.35</i>	<i>10.40</i>	
July .....	<i>2.54</i>		<i>6.87</i>		<i>7.33</i>		<i>7.60</i>	<i>12.70</i>	<i>.60</i>	<i>10.30</i>	
August.....	<i>2.48</i>		<i>13.20</i>			<i>10.41</i>	<i>6.10</i>	<i>15.20</i>	<i>6.80</i>	<i>10.60</i>	
September.....	<i>7.81</i>		<i>18.28</i>		<i>12.32</i>	<i>8.10</i>	<i>10.50</i>	<i>5.00</i>	<i>11.36</i>	<i>14.00</i>	
October.....	<i>15.25</i>		<i>17.04</i>	<i>8.54</i>		<i>5.10</i>	<i>3.18</i>	<i>16.44</i>		<i>6.55</i>	
November.....	<i>3.85</i>		<i>7.93</i>	<i>7.31</i>		<i>Frozen</i>	<i>Frozen</i>		<i>8.26</i>		
December.....	<i>5.67</i>		<i>6.67</i>	<i>8.70</i>	<i>11.50</i>		<i>17.30</i>	<i>19.36</i>		<i>7.00</i>	
TOTALS .....			<i>121.27</i>					<i>107.80</i>	<i>66.12</i>	<i>61.62</i>	

*1878 Correction sent by J. Maitland 19.2.80**1879 Gauge frozen in Jan. Feb & Nov?*



RAINFALL AT *Great End*

Lat.....

Lon.....

County of.....

*Cumberland*

Rain Gauge, by.....

Observer

*J. Fletcher Esq. M.P.*

Diameter .....											
Height .....											
Altitude .....	<i>2982</i>										
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	<i>Frozen</i>		<i>9.63</i>		<i>8.42</i>	<i>5.73</i>					
February .....	<i>do</i>		<i>5.07</i>			<i>Frozen</i>					
March .....	<i>1.74</i>		<i>6.20</i>				<i>Frozen</i>	<i>Frozen</i>			
April .....	<i>—</i>	<i>4.42</i>	<i>5.34</i>					<i>Frozen</i>			
May .....	<i>11.78</i>		<i>2.70</i>			<i>.20</i>	<i>5.50</i>	<i>4.20</i>			
June.....	<i>3.04</i>		<i>7.14</i>		<i>1.10</i>	<i>6.26</i>	<i>1.72</i>	<i>4.30</i>			
July .....	<i>1.88</i>		<i>6.36</i>		<i>6.04</i>		<i>3.30</i>	<i>8.45</i>			
August.....	<i>1.64</i>		<i>9.06</i>			<i>6.10</i>	<i>1.80</i>				
September.....	<i>6.21</i>		<i>15.41</i>		<i>4.93</i>	<i>4.15</i>	<i>7.50</i>	<i>4.20</i>			
October.....	<i>11.03</i>		<i>13.31</i>	<i>6.98</i>		<i>Frozen</i>	<i>Frozen</i>	<i>9.65</i>			
November.....	<i>3.06</i>		<i>6.44</i>	<i>6.08</i>		<i>Frozen</i>	<i>Frozen</i>	<i>Frozen</i>			
December.....	<i>3.19</i>		<i>4.74</i>	<i>4.75</i>	<i>3.10</i>		<i>15.00</i>				
TOTALS .....			<i>91.40</i>								



# RAINFALL AT *Sprinkling Farm*

Lat..... Lon..... County of...*Cumberland*.....

..... Rain Gauge, by..... Observer *J. Fletcher Esq. M.P.*

Diameter .....											4
Height .....											6
Altitude .....	<i>1985.</i>		<i>1986</i>								
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	<i>Frozen</i>		28.83		13.56	18.86					
February .....	<i>do</i>		16.36			<i>Frozen</i>		11.55	<i>18.40</i> <del>20.40</del>		
March .....	10.90		13.25				5.25				5.65
April .....	—	7.34	7.05					2.80	13.30		7.00
May .....	15.07		4.64			8.35	2.25	8.56	10.75	6.63	
June .....	4.57		11.47		1.85	11.85	8.15	8.00	5.00	13.00	
July .....	2.97		7.77		8.75		6.53	14.12	2.40	14.35	
August .....	2.87		12.12			14.30	7.80	12.30	7.50	15.10	
September.....	11.25		25.47		15.61	7.14	12.35	4.36	14.00	19.40	
October.....	24.00		18.00	12.42		9.51	7.10	17.50	8.00	8.40	
November.....	6.73		14.45	9.48		<i>Frozen</i>	9.00	22.90			
December.....	4.65		10.92	10.72	7.70		15.00	14.44	<i>7.32</i> <del>86.67</del>	13.00	
TOTALS .....			170.33					116.53	<del>88.37</del>	102.53	

*1878 Correction sent by J. Maitland 19.2.80*

*1877 May 8.56 is the amount in Wilson's original ms.*

*1879 Gauge frozen Jan'y. Feb'y Nov'.*



RAINFALL AT Nasdale Head

Lat.....

Lon.....

County of.....

Chumberland

Rain Gauge, by.....

Observer.....

J. Fletcher Esq. M.P.

Diameter .....											.4	
Height .....											.6	
Altitude .....	247										247	
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....	8.90		17.23		11.36	13.80		11.70				
February .....	5.36		11.76			1.85						
March .....	8.00		8.70				10.20					
April .....	—	5.90	7.46					4.00	3.35	3.00		
May .....	9.58		4.08			7.55	1.35	7.00	3.35	3.60		
June .....	4.27		8.98		1.92	7.38	6.60	7.50	5.10	4.00		
July .....	3.00		6.30		4.61		5.00	15.10	2.00	11.30		
August.....	2.56		8.89			8.10	6.00	11.27	7.15	9.90		
September...	8.58		20.10		11.00	7.70	9.60	4.75	12.00	12.40		
October.....	15.60		16.03	11.96		7.20	4.90	17.00	10.90	8.35		
November.....	5.65		10.24	7.75		12.50	7.00	17.75	3.85	2.55		
December.....	6.23		11.53	7.58	8.40		11.50	14.75	3.85	8.30		
TOTALS .....	7773		131.30					126.82	80.25	79.50		

Letter from J. Maitland 7.10.79 I have removed the gauge at Nasdale Head to a secure place it was too near the inn & funnel knocked off



RAINFALL AT *Bramt. Rigg*

Lat.....

Lon.....

County of *Cumberland*Rain Gauge, by..... Observer *J. Fletcher Esq. M.P.*

Diameter .....											
Height .....											
Altitude .....	<i>695</i>										
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	<i>Frozen</i>		<i>16.07</i>		<i>8.55</i>	<i>9.48</i>		<i>12.10</i>			
February .....	<i>14.54</i>		<i>11.72</i>			<i>.35</i>		<i>12.80</i>			
March .....	<i>7.03</i>		<i>8.00</i>				<i>6.63</i>		<i>2.00</i>	<i>9.90</i>	
April .....	<i>—</i>	<i>6.16</i>	<i>6.45</i>					<i>4.71</i>	<i>3.15</i>	<i>3.45</i>	
May .....	<i>8.67</i>		<i>4.00</i>			<i>5.43</i>	<i>1.40</i>	<i>6.85</i>	<i>3.30</i>	<i>3.37</i>	
June.....	<i>3.49</i>		<i>8.85</i>		<i>1.67</i>	<i>5.70</i>	<i>3.90</i>	<i>4.90</i>	<i>4.70</i>	<i>6.76</i>	
July .....	<i>1.88</i>		<i>6.56</i>		<i>5.00</i>		<i>3.00</i>	<i>9.00</i>	<i>1.75</i>	<i>8.40</i>	
August.....	<i>2.63</i>		<i>8.60</i>			<i>7.45</i>	<i>2.12</i>	<i>9.56</i>	<i>7.10</i>	<i>9.00</i>	
September.....	<i>6.07</i>		<i>16.31</i>		<i>8.46</i>	<i>5.25</i>	<i>9.05</i>	<i>3.27</i>	<i>8.00</i>	<i>11.25</i>	
October.....	<i>14.66</i>		<i>12.41</i>	<i>7.33</i>		<i>8.25</i>	<i>3.22</i>	<i>11.05</i>	<i>6.40</i>	<i>4.70</i>	
November.....	<i>5.90</i>		<i>9.07</i>	<i>6.79</i>		<i>8.80</i>	<i>7.24</i>	<i>15.20</i>	<i>3.00</i>	<i>1.00</i>	
December.....	<i>4.61</i>		<i>10.64</i>	<i>4.70</i>	<i>11.73</i>		<i>10.00</i>	<i>9.50</i>	<i>2.45</i>	<i>5.80</i>	
TOTALS .....			<i>118.68</i>					<i>98.94</i>	<i>56.46</i>	<i>(66.13)</i>	

*1879 Jan. & Feb. gauge Frozen amount  
computed.*



RAINFALL AT *Shye Head Tarn*

Lat. ....

Lon. ....

County of

*Cumberland*

Rain Gauge, by

Observer

*J. Fletcher Esq. M.P.*

Diameter .....											.4
Height .....											.6
Altitude .....	<i>1472.</i>									<i>1472</i>	
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	<i>Frozen</i>		<i>31.52</i>		<i>14.48</i>	<i>14.00</i>		<i>20.05</i>			
February .....	<i>do</i>		<i>16.15</i>			<i>Frozen</i>					
March .....	<i>31.74</i>		<i>13.05</i>				<i>10.73</i>				
April .....	<i>—</i>	<i>7.62</i>	<i>8.76</i>					<i>6.16</i>			
May .....	<i>14.41</i>		<i>5.09</i>			<i>8.65</i>	<i>3.00</i>	<i>8.95</i>	<i>9.15</i>	<i>5.64</i>	
June .....	<i>4.90</i>		<i>12.03</i>		<i>1.98</i>	<i>11.88</i>	<i>7.28</i>	<i>10.70</i>	<i>6.50</i>	<i>11.10</i>	
July .....	<i>3.14</i>		<i>7.90</i>		<i>8.08</i>		<i>6.50</i>	<i>16.90</i>	<i>3.20</i>	<i>13.65</i>	
August .....	<i>2.75</i>		<i>12.19</i>			<i>14.22</i>	<i>6.90</i>	<i>14.30</i>	<i>9.13</i>	<i>13.43</i>	
September.....	<i>10.46</i>		<i>26.34</i>		<i>18.06</i>	<i>9.70</i>	<i>11.26</i>	<i>5.80</i>	<i>15.30</i>	<i>18.95</i>	
October.....	<i>24.88</i>		<i>17.36</i>	<i>14.74</i>		<i>11.30</i>	<i>6.32</i>	<i>22.80</i>	<i>16.00</i>	<i>10.71</i>	
November.....	<i>7.82</i>		<i>13.05</i>	<i>9.18</i>		<i>3.15</i>	<i>8.64</i>	<i>18.90</i>	<i>.15</i>		
December.....	<i>7.44</i>		<i>13.60</i>	<i>10.51</i>	<i>13.07</i>		<i>14.20</i>	<i>15.42</i>	<i>7.65</i>	<i>15.10</i>	
TOTALS .....			<i>177.04</i>					<i>162.34</i>	<i>103.33</i>	<i>106.73</i>	

*1879 Jan. Feb. & Nov. frozen**1875 Nov. 9. contained 3.15 "and some ice"*



RAINFALL AT *The Skye*

Lat.....

Lon.....

County of.....

*Cumberland*

Rain Gauge, by.....

Observer

*J. Glulcher Esq. M.P.*

Diameter .....										.4	
Height .....										.6	
Altitude .....	<i>1077</i>									<i>1077</i>	
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	<i>Frozen</i>		<i>50.05</i>		<i>26.31</i>	<i>26.22</i>		<i>30.00</i>			
February .....	<i>do</i>		<i>21.57</i>			<i>From</i>					
March .....	<i>46.65</i>		<i>17.74</i>				<i>17.41</i>				
April .....	<i>—</i>	<i>8.80</i>	<i>12.72</i>					<i>7.26</i>			
May .....	<i>24.10</i>		<i>6.18</i>			<i>9.90</i>	<i>2.75</i>	<i>10.75</i>	<i>15.30</i>	<i>7.00</i>	
June .....	<i>5.79</i>		<i>14.65</i>		<i>2.32</i>	<i>14.55</i>	<i>11.19</i>	<i>18.40</i>	<i>7.72</i>	<i>15.00</i>	
July .....	<i>3.34</i>		<i>8.87</i>		<i>9.85</i>		<i>4.50</i>	<i>21.33</i>	<i>5.15</i>	<i>16.00</i>	
August .....	<i>4.09</i>		<i>13.25</i>			<i>16.52</i>	<i>11.20</i>	<i>17.90</i>	<i>10.40</i>	<i>18.15</i>	
September.....	<i>15.96</i>		<i>33.70</i>		<i>20.59</i>	<i>14.73</i>	<i>13.00</i>	<i>9.82</i>	<i>23.50</i>	<i>23.80</i>	
October.....	<i>29.80</i>		<i>23.18</i>	<i>25.62</i>		<i>12.50</i>	<i>9.35</i>	<i>30.60</i>	<i>20.90</i>	<i>15.70</i>	
November.....	<i>11.68</i>		<i>21.96</i>	<i>14.05</i>		<i>17.70</i>	<i>10.20</i>	<i>31.20</i>	<i>6.15</i>	<i>3.65</i>	
December.....	<i>9.16</i>		<i>20.11</i>	<i>16.50</i>	<i>13.50</i>		<i>20.10</i>	<i>20.75</i>	<i>5.00</i>	<i>18.85</i>	
TOTALS .....			<i>243.98</i>					<i>235.52</i>	<i>149.04</i>	<i>148.55</i>	

*The famed Skye gauge is quite right and well placed in the open. J. Maitland 7.10.79.*







RAINFALL AT *Taylor's Ghyll*

Lat. ....

Lon. ....

County of .....

*Cumberland*

Rain Gauge, by .....

Observer .....

*J. Fletcher Esq. M.P.*

Diameter .....												4
Height .....												6
Altitude .....	<i>1067.</i>											<i>1077</i>
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....	<i>Frozen</i>		<i>42.21</i>		<i>24.13</i>	<i>24.12</i>		<i>29.05</i>				
February .....	<i>do</i>		<i>21.42</i>			<i>Frozen</i>						
March .....	<i>42.90</i>		<i>16.73</i>				<i>16.80</i>					
April .....	<i>-</i>	<i>8.41</i>	<i>11.59</i>					<i>6.72</i>				
May .....	<i>21.80</i>		<i>6.46</i>			<i>8.87</i>	<i>2.90</i>	<i>10.00</i>	<i>14.10</i>	<i>6.46</i>		
June .....	<i>5.88</i>		<i>14.45</i>		<i>2.15</i>	<i>12.90</i>	<i>10.90</i>	<i>17.58</i>	<i>7.22</i>	<i>12.00</i>		
July .....	<i>3.17</i>		<i>8.11</i>		<i>9.62</i>		<i>8.30</i>	<i>19.60</i>	<i>4.42</i>	<i>14.40</i>		
August .....	<i>4.03</i>		<i>12.73</i>			<i>16.09</i>	<i>10.40</i>	<i>17.05</i>	<i>9.82</i>	<i>16.30</i>		
September.....	<i>14.55</i>		<i>31.03</i>		<i>19.95</i>	<i>12.05</i>	<i>11.35</i>	<i>9.05</i>	<i>21.40</i>	<i>21.55</i>		
October.....	<i>27.00</i>		<i>21.65</i>	<i>25.14</i>		<i>11.19</i>	<i>8.60</i>	<i>30.00</i>	<i>18.80</i>	<i>14.24</i>		
November.....	<i>10.90</i>		<i>19.32</i>	<i>12.41</i>		<i>16.90</i>	<i>9.80</i>	<i>29.12</i>	<i>5.00</i>	<i>1.78</i>		
December.....	<i>7.35</i>		<i>19.03</i>	<i>14.81</i>	<i>16.75</i>		<i>19.30</i>	<i>19.50</i>	<i>5.00</i>	<i>16.77</i>		
TOTALS .....			<i>224.73</i>					<i>219.69</i>	<i>135.66</i>	<i>132.07</i>		

The gauge at Taylor's Ghyll is right but while on a little flat is really on the slope of Gable Fells and sheltered thereby from N. & W. winds

1877 Sept 9.05 in original return



RAINFALL AT *S<sup>t</sup> Bees*

Lat.....

Lon.....

County of.....

*Cumberland*

Rain Gauge, by.....

Observer

*W<sup>m</sup> Cumberland Hughes Esq.*

Diameter .....	.8	.									
Height .....	1 1/2	.			6						
Altitude .....	100.	.									
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	4.81	3.79	10.10	5.72	4.21						
February .....	2.49	6.19	4.36	1.18	3.87						
March .....	1.56	2.95	4.32	3.23	2.45						
April.....	1.17	5.52	1.28	.45	2.51						
May .....	3.53	.98	2.16	1.81	.76						
June.....	2.21	2.29	6.84	1.70	.96						
July .....	- 41	3.76	5.34	5.84	2.09						
August.....	.73	3.92	3.37	5.05	5.92						
September.....	<sup>+</sup> 5.19	1.08	5.06	2.55	4.54						
October.....	2.52	7.74	7.57	7.17	6.98						
November.....	3.90	3.56	5.16	2.89	5.79						
December.....	1.53	5.76	5.32	2.14	2.54	#					
TOTALS .....	30.05	47.54	60.88	39.73	42.62						

1871 ? Sept. &amp; Oct. misplaced



# RAINFALL AT *St. Bees Abbot's Court*

70

Lat. ....

Lon. ....

County of *Cumberland*

Rain Gauge, by .....

Observer *A. Hodgkiss Esq.*

Diameter ....					5						
Height ....					1	1					
Altitude ....					20						
Year ....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January ....					4.43	5.72	2.27	7.72	4.03	1.20	
February ....					2.66	1.95	3.27	3.18	2.09	2.90	
March .....					2.47	1.11	2.67	2.61	2.28	1.63	
April .....					2.07	1.57	1.96	2.50	1.90	1.17	
May .....					.79	2.34	.52	3.25	2.56	1.83	
June .....					.96	3.90	3.92	3.42	2.02	3.19	
July .....					2.48	3.40	2.26	3.93	.50	6.36	
August ....					6.02	3.40	3.76	6.41	5.29	5.13	
September ..					3.07	4.12	5.71	3.34	4.70	4.31	
October ....					5.63	4.54	3.98	6.80	4.10	2.16	
November ..					4.77	3.44	2.80	9.51	2.45	1.36	
December ..					2.28	2.43	5.07	5.39	2.07	2.61	
TOTALS ..					37.63	37.92	38.19	58.06	33.99	33.85	

Gauge in the middle of an open lawn  
1878 shrubs about 20ft off. E, W, & S. 8ft high

St. Bees church  $\frac{1}{2}$  mile N.E.



# RAINFALL AT *Seathwaik*

Lat.....

Lon.....

County of.....

*Cumberland*

Rain Gauge, by.....

Observer .....

*W. Birkett*

Diameter .....	<i>.6</i>	.									
Height .....	<i>/</i>	.									
Altitude .....	<i>422</i>	.									
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	<i>14.00</i>	<i>10.50</i>	<i>30.25</i>	<i>27.00</i>	<i>20.25</i>	<i>22.00</i>	<i>10.75</i>	<i>25.50</i>	<i>17.00</i>		
February .....	<i>13.25</i>	<i>16.50</i>	<i>(17.50)</i>	<i>2.00</i>	<i>10.25</i>	<i>8.75</i>	<i>15.75</i>	<i>14.00</i>	<i>11.50</i>		
March .....	<i>8.00</i>	<i>9.25</i>	<i>12.25</i>	<i>6.50</i>	<i>14.75</i>	<i>5.50</i>	<i>13.50</i>	<i>7.75</i>	<i>8.25</i>		
April .....	<i>6.00</i>	<i>6.00</i>	<i>4.75</i>	<i>1.75</i>	<i>4.25</i>	<i>4.25</i>	<i>6.00</i>	<i>5.50</i>	<i>4.00</i>		
May.....	<i>15.00</i>	<i>2.50</i>	<i>9.00</i>	<i>5.25</i>	<i>2.75</i>	<i>7.25</i>	<i>2.00</i>	<i>10.75</i>	<i>9.00</i>		
June.....	<i>4.25</i>	<i>2.50</i>	<i>12.00</i>		<i>2.75</i>	<i>10.50</i>	<i>8.25</i>	<i>10.50</i>	<i>6.00</i>		
July .....	<i>1.50</i>	<i>11.75</i>	<i>5.50</i>		<i>7.25</i>	<i>5.25</i>	<i>5.75</i>	<i>15.25</i>	<i>3.25</i>		
August.....	<i>1.50</i>	<i>8.75</i>	<i>(9.00)</i>		<i>17.75</i>	<i>7.75</i>	<i>9.50</i>	—	<i>9.25</i>		
September.....	<i>12.00</i>	<i>5.00</i>	<i>21.25</i>		<i>15.75</i>	<i>13.50</i>	<i>8.00</i>	—	<i>14.75</i>		
October.....	<i>23.00</i>	<i>5.75</i>	<i>18.75</i>		<i>29.50</i>	<i>10.50</i>	<i>7.75</i>	<i>23.00</i>	<i>15.75</i>		
November.....	<i>8.00</i>	<i>10.50</i>	<i>16.75</i>		<i>12.50</i>	<i>12.00</i>	<i>8.00</i>	<i>28.25</i>	<i>5.75</i>		
December.....	<i>6.50</i>	<i>20.75</i>	<i>19.00</i>	<i>11.50</i>	<i>7.25</i>	<i>13.50</i>	<i>18.25</i>	<i>18.00</i>	<i>5.75</i>	<i>#</i>	
TOTALS .....	<i>113.00</i>	<i>109.75</i>	<i>(176.00)</i>		<i>145.00</i>	<i>115.75</i>	<i>113.50</i>		<i>110.25</i>		

*C C C*

*1873 June - November Gauge out of order*

*1877 August & September Gauge out of repair*

*1879 Gauge moved to Castle Lodge*



# RAINFALL AT Seathwaite

Lat.....

Lon.....

County of Cumberland

Rain Gauge, by..... Observer .....

Diameter .....	.4	.										
Height .....	.6	.										
Altitude .....	422	.										
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....	10.45	9.91	31.80	28.62	20.77	22.80	10.98	25.65	17.25	3.54	18.177	
February .....	10.12	12.00	(18.43)	2.20	10.58	3.50	15.41	14.26	11.30	7.86	105.66	
March .....	6.69	10.30	13.00	7.23	14.88	5.68	13.68	7.72	8.25	12.18	99.61	
April.....	5.45	4.18	5.36	2.07	4.30	4.54	6.15	5.56	4.10	5.05	46.76	
May .....	11.98	2.74	9.87	5.96	2.97	7.63	2.08	10.90	9.32	4.70	68.15	
June.....	6.50	2.50	12.60	7.00	2.72	11.12	8.40	10.83	6.04	10.00	77.71	
July .....	1.79	9.62	6.10	16.99	7.17	5.20	6.00	15.80	3.20	13.89	85.76	
August.....	1.50	7.43	(9.73)	18.00	18.05	8.16	9.98	11.50	9.50	13.06	106.91	
September.....	10.90	5.45	22.62	12.20	16.46	13.85	8.35	8.93	14.95	16.79	130.50	
October.....	19.88	6.28	19.63	21.30	30.35	11.22	7.15	23.26	16.34	8.62	164.03	
November.....	6.87	11.05	17.77	9.70	13.06	12.35	8.40	29.00	5.71	3.81	117.72	
December.....	(7.00)	21.79	19.34	11.96	6.98	14.00	18.00	18.15	5.00	12.76	134.98	
TOTALS .....	(114.13)	103.25	(186.23)	143.23	148.29	120.05	114.58	181.56	110.96	112.26	1334.56	

1870 24 fifteen inches short — 15 in. added



Seathwaite Daily

70

# RAINFALL AT Seathwaite

Lat..... Lon..... County of... Cumberland  
 ..... Rain Gauge, by..... Observer J. Fisher Esq. R. P.

(Daily)

Diameter.....	.5										
Height.....	/					1.2					
Altitude.....	422										
YEAR.....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	<del>13.48</del> 14.08	11.95	32.14	28.64	20.82	22.88	10.91	25.65	17.06	3.34	10.747
February.....	13.67	15.99	17.53	3.05	10.50	3.45	16.21	14.42	11.74	7.93	11.449
March.....	9.51	10.26	11.23	7.30	14.24	5.66	12.80	7.74	8.06	12.14	9.894
April.....	6.50	6.36	5.08	1.76	4.72	4.53	6.04	5.43	4.19	4.76	4.937
May.....	<del>13.49</del> 14.49	2.63	9.54	5.58	2.82	7.80	2.05	10.92	9.30	4.67	6.980
June.....	6.41	2.82	12.30	7.78	3.02	10.90	8.34	10.51	6.13	9.93	7.814
July.....	7.75	12.57	5.90	16.96	7.20	5.15	6.05	15.45	3.11	13.60	8.774
August.....	2.68	9.10	9.34	18.73	18.60	7.87	9.77	11.79	9.51	12.99	11.038
September.....	12.70	5.53	20.85	13.70	16.06	14.45	8.23	8.98	15.06	16.67	13.223
October.....	<sup>+</sup> 24.17	6.24	19.13	21.23	30.18	10.08	7.32	22.92	16.16	8.03	16.546
November.....	8.43	9.91	18.64	10.06	13.29	12.10	8.00	28.47	5.82	3.87	11.819
December.....	7.21	21.79	20.37	11.74	7.34	13.93	18.31	18.12	5.74	12.77	13.732
TOTALS.....	<del>119.60</del> 121.20	115.15	182.05	146.53	148.79	118.80	114.03	180.40	111.88	110.70	134.953

In Decr 1873 Mr. Marshall of Leeds wrote stating that Jan 1870 should be 14.08 and May 14.49 and on applying to Mr. Birkett he corroborated it

found to be 2% too big (Manchester W. in 1919)



# RAINFALL AT *Seathwaite*

70

Lat. ....

Lon. ....

County of *Cumberland*

Rain Gauge, by .....

Observer *H. C. Marshall Esq*

Diameter....								.5	.	.	
Height ....							1.	1.	.	.	
Altitude ....							420		.	.	
Year ....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January ....							8.28	24.27	15.70	3.12	
February. ..							13.03	13.09	10.92	7.80	
March .....							13.25	7.17	7.53	10.20	
April .....							5.46	4.99	3.57	4.67	
May .....							1.88	10.27	8.82	4.38	
June .....							7.63	9.86	5.62	10.39	
July .....							5.58	14.21	2.81	11.40	
August ....							9.28	11.19	8.23	12.50	
September ..						13.78	7.50	7.46	15.03	15.74 18.74	
October ....						9.72	7.87	21.87	14.91	8.41	
November ..						11.75	6.83	26.98	5.49	2.10	
December ..						12.71	17.66	17.83	5.12	10.99	
TOTALS ..							104.25	169.19	103.75	101.70 99.70	

151



RAINFALL AT *Napthburn Parsonage*

Lat.....

Lon.....

County of *Cumberland*Rain Gauge, by..... Observer *Rev. Basil Lawson**Monthly*

Diameter .....	.8	.									
Height .....	1	.	1.8	1.6							
Altitude .....	374.	.		540							
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	9.25	7.00	22.25	22.25	13.00	18.25	6.75	17.50	10.00	1.75	128.00
February .....	12.25	10.50	14.50	1.50	7.00	2.75	10.75	8.50	7.50	7.00	82.25
March .....	4.75	7.25	8.75	5.75	7.00	3.50	9.00	5.00	4.50	7.50	63.00
April .....	3.50	4.75	3.00	1.50	4.50	2.25	4.50	4.00	3.25	3.33	3.458
May .....	10.00	1.50	5.50	4.25	1.00	4.25	1.25	7.75	8.00	1.75	4.505
June .....	2.25	2.75	10.50	3.75	2.75	7.00	6.00	7.00	3.50	7.75	5.325
July .....	1.25	8.75	6.00	12.75	4.25	4.00	3.50	11.00	1.00	11.50	6.400
August .....	3.25	7.75	6.50	11.00	14.25	5.25	9.50	9.00	7.25	8.50	8.225
September.....	9.00	5.25	15.25	8.00	9.50	10.75	7.50	5.25	10.25	10.00	9.075
October .....	21.75	10.75	12.50	13.00	23.25	7.75	7.50	17.50	12.75	5.50	13.225
November.....	6.75	3.75	15.25	5.50	8.75	9.25	6.50	22.00	3.75	2.00	8.370
December.....	4.75	14.75	15.50	7.00	5.50	10.75	16.25	11.50	5.00	8.25	9.925
TOTALS .....	88.75	84.75	135.50	96.25	100.75	85.75	89.00	126.00	76.75	74.83	95.833

C C C



RAINFALL AT *Wythburn*

70

Lat. \_\_\_\_\_ Lon. \_\_\_\_\_ County of *Cumberland*  
Rain Gauge, by \_\_\_\_\_ Observer *Rev. R. B. Lawson*

Diameter . . .									5		
Height . . .									10		
Altitude . . .									574		
Year . . .	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January . . .										2.96	
February . .										6.96	
March . . . .										8.06	
April . . . . .										3.38	
May . . . . .										2.28	
June . . . . .									# 4.11	8.33	
July . . . . .									1.24	11.36	
August . . . .									7.48	10.29	
September . .									10.73	10.69	
October . . . .									12.04	5.80	
November . .									4.42	2.36	
December . .									4.64	7.62	
TOTALS . .										80.09	

28  
11.1  
12  
12  
12



# RAINFALL AT *The Floss, Cleator, Whitehaven*

Lat. .... Lon. .... County of .....  
Rain Gauge, by ..... Observer .....

Diameter. ....											
Height. ....											
Altitude. ....											
Year .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January. ....	4.46	3.31	9.02	7.47	5.13	6.51	2.62	9.15	4.63	2.39	
February. ....	3.33	4.85	4.43	7.76	4.09	2.09	3.86	3.81	2.34	2.67	
March. ....	2.83	3.10	5.92	4.11	3.13	1.37	3.55	3.15	2.42	2.41	
April. ....	2.24	3.23	1.37	4.42	1.40	1.62	2.27	2.34	2.18	1.01	
May. ....	3.59	1.20	2.15	2.40	7.72	3.00	7.38	3.25	2.34	2.80	
June. ....	2.20	2.12	6.86	2.54	4.44	4.70	4.45	4.07	2.45	2.80	
July. ....	1.37	3.88	3.73	5.72	2.50	2.96	2.63	5.25	7.78	6.85	
August. ....	1.26	4.24	3.27	5.23	7.22	4.48	4.49	6.42	4.07	6.00	
September. ....	5.18	1.74	6.88	2.17	4.67	5.45	6.53	3.21	5.89	5.92	
October. ....	8.55	5.61	8.14	8.92	7.75	5.25	3.79	7.88	4.55	2.63	
November. ....	3.32	4.21	5.42	3.43	5.18	3.74	3.26	10.35	2.87	1.58	
December. ....	2.15	5.62	5.48	2.74	2.51	3.45	5.21	6.29	1.87	2.60	
TOTALS. ....	40.48	43.11	62.67	45.91	44.74	44.62	43.04	65.17	36.39	39.66	46.579

*Skelwith Fold, Ambleside, 16 Aug 1898*

Dear Sir

I give you above, the rain registered at The Floss, as I took <sup>the figures</sup> ~~them~~ down in my book. I copied them from the original ~~manuscript~~.

observers' book lent to me by Mr. D. Ainsworth, but I should say that in a number of cases the observations were written down in an illiterate way & appeared to me to have been misread in adding them up. I made what seemed to me the most likely corrections, but I have no doubt Mr. Ainsworth would lend you the book if you wished to see it.

Mr. Ainsworth has just bought Wray Castle on Windermere, & means to live there a good deal.

G. J. Simons Esq

Yours  
Stephen A. Marshall.



# RAINFALL AT *Ullescarf*

70

Lat. ....

Lon. ....

County of .....

*Cumberland*

Rain Gauge, by .....

Observer .....

*J. F. Bateman Esq F.R.S.*

Diameter. ....								7			
Height. ....								1. -			
Altitude. ....								2100			
Year .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January. ....									13.30	2.80	
February. ....									8.90	7.70	
March. ....								# 2. 4.50	5.90	10.70	
April. ....								4.90	4.50	4.30	
May. ....								9.60	10.30	3.00	
June. ....								10.20	5.50	14.40	
July. ....								14.20	2.10	14.40	
August. ....								13.10	9.90	13.00	
September. ....								8.40	14.10	15.00	
October. ....								22.10	17.10	6.10	
November. ....								28.90	3.20	2.80	
December. ....								14.60	4.90	11.30	
TOTALS ....									99.70	105.50	



RAINFALL AT *Helvellyn Birkside*

Lat.....

Lon.....

County of..... *Cumberland*.....Rain Gauge, by..... Observer *G. J. Symons Esq.*

Diameter .....	8	.	.	.	.	.	.	.	.	.	.	.
Height .....	1	.	.	.	.	.	.	.	.	.	.	.
Altitude' .....	1800	.	.	.	.	.	.	.	.	.	.	.
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....	9.25	6.50	24.75		12.50	11.00	14.00	17.25	10.00			
February .....	13.75	13.75	14.00		9.00	3.25	15.75	8.25	7.00		14.00	
March .....	3.00	7.25	10.25		6.75	10.00	4.50	4.75	3.75			
April.....	3.00	9.00	3.00		4.50	3.25	11.00	4.50	2.75	2.50		
May .....	9.50	2.00	5.00		2.75	5.50	2.00	8.50	8.50	1.25		
June.....	2.50	3.75	11.25		3.25	11.75	6.75	8.00	4.75	10.00		
July .....	7.75	9.25	6.75		4.50	5.50	2.50	13.50	1.25	11.50		
August .....	2.25	8.25	7.00		21.75	6.50	11.25	11.00	8.00	10.50		
September.....	5.25	5.00	14.00		16.50	11.75	8.75	7.00	9.50	10.00		
October.....	22.50	9.75	15.50		23.50	9.50	9.00	22.00	12.25	3.00		
November.....	8.50	3.25	16.50			10.00	7.50	18.00	3.00	1.50		
December.....	7.00	14.50	17.25	8.00		13.50	16.75	13.50	4.00	7.00		
TOTALS .....	87.25	92.25	145.25	104.00	111.00	101.50	109.75	136.25	74.75	71.25	103.25	

1871 Sep. &amp; Oct. Gauge wilfully damaged

C 73 imp.

1878 Gauge moved 300 yds S. in Oct.

1873 estimated from Wythburn Parsonage  
& Watendlath.



# RAINFALL AT *Lebwellyn Birkside*

70

Lat. ....

Lon. ....

County of

*Cumberland*

Rain Gauge, by

Observer

*J. F. Bateman, Esq. F.R.S.*

Diameter. ....								7			
Height. ....								1. -			
Altitude. ....								1900			
Year .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January. ....									6.80	1.50	
February. ....									6.00	4.10	
March. ....								# 2. 3.30	3.00	5.10	
April. ....								4.80	3.60	3.50	
May. ....								7.50	8.50	2.00	
June. ....								6.80	4.60	9.90	
July. ....								12.00	1.20	10.30	
August. ....								10.90	8.00	9.00	
September. ....								5.50	9.30	10.10	
October. ....								14.90	11.00	3.60	
November. ....								17.10	2.90	1.80	
December. ....								7.80	3.00	6.40	
TOTALS. ....									67.90	67.30	



RAINFALL AT *Wythburn*

70

Lat. ....

Lon. ....

County of *Cumberland*

Rain Gauge, by .....

Observer *J. F. Bateman Esq F.R.S.*

Diameter. ....								7			
Height. ....								1. -			
Altitude. ....								585 T.			
Year .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January. ....								(26.00) 9.60	2.10		
February. ....								# 6.60	5.70		
March. ....								4.00	4.10	6.90	
April. ....								3.80	3.40	3.40	
May. ....								6.80	7.80	2.00	
June. ....								6.70	4.50	9.20	
July. ....								10.80	1.30	9.40	
August. ....								9.80	6.90	9.70	
September. ....								5.60	10.10	10.40	
October. ....								16.70	12.10	4.10	
November. ....								22.00	3.40	1.90	
December. ....								10.20	4.30	7.40	
TOTALS ....								(122.40)	74.10	72.20	







RAINFALL AT *Natendhath*

Lat.....

Lon.....

County of.....

*Cumberland*

Rain Gauge, by.....

Observer.....

*G. J. Symons Esq.*

Diameter .....	.8	.										
Height .....	/	.										
Altitude .....	847.	.										
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....	7.75	6.50	16.50	19.75	11.25	13.75	5.75	15.00	9.25	1.00	10.610	
February.....	7.30	7.75	11.50	1.25	9.00	2.00	8.50	8.50	5.75	3.75	6.530	
March.....	3.70	5.25	6.75	4.00	7.25	3.00	7.25	3.75	3.25	5.75	4.995	
April.....	3.13	3.00	3.00	1.00	3.25	2.00	3.75	3.00	2.50	2.50	2.713	
May.....	9.75	1.75	5.25	2.25	1.50	4.00	5.75	4.50	7.00	1.75	4.350	
June.....	2.00	2.00	7.25	4.25	1.75	6.25	1.50	6.25	3.25	6.00	4.050	
July.....	7.0	6.75	4.75	9.75	3.50	4.00	3.25	9.50	1.50	7.50	5.120	
August.....	4.00	7.50	6.50	9.50	11.50	5.25	6.00	9.25	6.00	8.50	7.400	
September.....	8.25	4.25	13.50	6.25	11.00	8.00	5.75	5.30	10.25	9.25	8.180	
October.....	16.50	7.25	13.00	11.50	12.75	7.25	5.25	15.00	12.00	4.00	10.450	
November.....	5.25	2.75	11.50	6.50	6.25	6.50	4.00	18.50	3.50	1.75	6.650	
December.....	4.25	12.25	10.00	6.25	4.00	9.00	13.00	10.50	3.75	7.50	8.050	
TOTALS .....	72.58	67.00	109.50	82.25	83.00	71.00	69.75	109.05	68.00	59.25	79.138	

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RAINFALL AT *Armbrook*

70

Lat. \_\_\_\_\_ Lon. \_\_\_\_\_ County of *Cumberland*

Rain Gauge, by \_\_\_\_\_ Observer *J. F. Bateman Esq F.R.S.*

Diameter. ....								7			
Height. ....								1. -			
Altitude.....								550 T			
Year .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....									8.50	1.90	
February. ....									5.50	4.50	
March .....								<sup># 4K</sup> 3.50	3.90	6.20	
April .....								3.50	2.90	3.30	
May.....								6.00	7.30	1.90	
June .....								6.50	3.90	8.50	
July. ....								8.50	1.50	8.20	
August .....								9.00	6.70	8.90	
September....								5.10	10.00	9.60	
October.....								14.80	11.70	3.50	
November....								20.30	3.20	2.00	
December ....								8.70	4.20	7.20	
TOTALS ....									69.30	65.70	

\* 1887 total given as 85.90 (P. 1 & 14 Lewis and 1.22)



70

RAINFALL AT *Armbroth Falls The Pewitts*

Lat. .... Lon. .... County of *Cumberland*

Rain Gauge, by ..... Observer *J. F. Bateman Esq F.R.S.*

Diameter. ....								7			
Height. ....								1. -			
Altitude. ....								1655 T			
Year .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January .....									10.00	1.90	
February .....									6.70	4.60	
March .....								# 2 <sup>2</sup> 2.90	3.90	7.10	
April .....								3.60	3.10	3.30	
May .....								6.70	7.90	2.10	
June .....								7.10	4.70	9.50	
July .....								9.70	1.70	9.50	
August .....								9.40	6.80	9.20	
September .....								6.40	12.60	10.50	
October .....								17.30	13.70	4.50	
November .....								20.00	3.10	2.20	
December .....								10.30	4.10	8.10	
TOTALS .....									78.30	72.50	



RAINFALL AT *Belvellyn Whiteside* 70

Lat. \_\_\_\_\_ Lon. \_\_\_\_\_ County of *Cumberland*  
Rain Gauge, by \_\_\_\_\_ Observer *J. F. Bateman Esq F.R.S.*

Diameter. ....								7			
Height. ....								1. -			
Altitude. ....								2100			
Year .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January. ....									5.60	1.80	
February. ....									5.40	4.20	
March. ....								<i># 18th</i> 2.40	2.30	4.50	
April. ....								5.00	2.80	4.00	
May. ....								7.30	9.00	1.90	
June. ....								6.00	4.90	9.60	
July. ....								10.30	1.30	8.80	
August. ....								10.10	8.10	8.10	
September. ....								5.40	7.80	9.40	
October. ....								15.10	10.20	2.80	
November. ....								22.20	3.00	1.60	
December. ....								7.30	3.40	5.90	
TOTALS ....									63.80	62.60	



RAINFALL AT *Whitehaven The Barracks Irish Street*

Lat.....

Lon.....

County of.....

*Cumberland*

..... Rain Gauge, by.....

Observer

*Capt. Morris J Sawett*

Diameter .....	.5	.	.	.	.	.	.	.	.	.	.	.
Height .....	1	.	1.1	.	.	.	.	.	.	.	.	.
Altitude .....	21	.	.	.	.	.	.	.	.	.	.	.
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January..... <sup>#</sup>	1.06	2.88	7.70	6.99	5.18	6.28	2.47	8.28	4.26	2.31	4.741	
February .....	3.10	3.91	4.47	7.6	4.25	1.91	3.66	3.07	2.11	2.68	2.992	
March .....	3.10	2.91	5.17	4.10	2.66	1.23	3.24	2.57	2.39	1.98	2.935	
April .....	1.54	2.74	2.37	.51	3.17	1.68	2.87	2.55	1.82	1.12	2.037	
May .....	2.69	1.00	1.90	2.30	.94	2.39	.15	3.23	2.70	2.16	1.946	
June .....	2.37	1.67	6.11	2.04	.46	4.32	3.93	3.86	2.15	3.29	3.020	
July .....	1.13	3.37	3.79	4.69	1.88	3.26	2.28	4.05	.83	5.88	3.110	
August .....	1.09	3.47	3.34	4.49	6.12	2.80	4.32	5.90	4.22	5.41	4.116	
September.....	4.61	1.66	5.37	1.90	4.48	5.14	4.86	3.34	4.12	5.02	4.060	
October..... <sup>+</sup>	8.29	4.80	8.00	7.34	7.45	4.77	4.38	8.08	4.11	2.17	5.939	
November.....	3.66	4.23	4.82	3.75	4.69	3.53	3.24	9.62	3.15	1.49	4.218	
December.....	1.68	4.97	5.33	2.40	2.06	2.87	5.40	5.27	2.30	2.51	3.479	
TOTALS .....	34.32	37.61	58.91	41.27	43.34	40.18	40.80	59.82	34.16	36.02	42.583	

1870 *g* placed on grass & free from trees &c

1877 Wall 5ft high 30ft S.E. Stable 20ft high 30ft W

House 50ft high 12ft 6 in N

Holy Trinity Church 30 yds N.W.



## 70

County of Cumberland

Observer..... J. Gordon Esq F.M.S.

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a  
we



RAINFALL AT *Keswick Barrow House*

Lat.....

Lon.....

County of...

*Cumberland*

Rain Gauge, by.....

Observer

*S Z Langton Esq.*

Diameter .....	.8	.						.	.	.	.	
Height .....	.6	.						.	.	.	.	
Altitude .....	282	.						.	.	.	.	
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....	8.16	6.99	16.74	16.60	8.94	11.03	4.72	13.83	6.91	1.59	9.537	
February .....	7.62	6.24	8.00	1.30	6.28	1.79	6.52	6.99	4.49	4.73	5.396	
March .....	3.14	5.58	5.19	4.83	5.23	2.84	6.30	4.49	3.93	5.92	4.745	
April.....	3.33	2.87	2.56	.64	4.75	2.00	4.10	2.91	2.74	2.52	2.842	
May .....	7.54	1.36	4.55	2.24	1.28	4.04	.74	6.74	5.68	1.73	3.590	
June.....	1.84	2.30	5.86	3.07	1.52	5.37	5.06	5.92	3.34	6.90	4.118	
July .....	-.95	5.85	4.57	9.78	3.36	3.99	2.82	6.46	1.04	7.71	4.647	
August.....	3.59	5.79	4.52	7.99	10.77	3.92	6.42	7.36	5.13	8.03	6.352	
September.....	8.68	3.00	9.31	4.48	10.52	7.58	5.36	4.52	8.36	7.04	6.885	
October.....	+13.97	6.03	11.26	8.79	18.59	5.63	5.37	13.06	10.21	2.79	9.570	
November.....	5.57	2.78	11.38	4.56	5.95	6.38	3.72	17.29	3.71	2.09	6.343	
December.....	2.43	10.31	10.99	4.63	3.53	8.02	11.47	8.38	3.20	6.81	6.977	
TOTALS .....	66.82	59.10	94.87	68.91	80.72	62.59	62.60	97.95	38.74	57.86	71.016	

1870 On lawn in front of a bank facing N and is in advance of the bank quite as much as the height of the same. There is a tree which is distant from it very nearly its own height, we cannot conveniently find a better place



RAINFALL AT *Whitehaven Millgrove*

Lat.....

Lon.....

County of...

*Cumberland*

Rain Gauge, by.....

Observer

*H. A. Fletcher Esq.**Monthly*

Diameter .....												
Height .....	<i>1.6</i>	<i>1.2</i>	<i>1.6</i>	<i>3</i>								
Altitude .....	<i>210</i>	<i>220.0</i>	<i>215</i>									
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....	<i>4.06</i>	<i>1.81</i>	<i>8.05</i>	<i>7.33</i>	<i>4.85</i>							
February .....	<i>2.60</i>	<i>3.83</i>	<i>4.34</i>	<i>.86</i>	<i>4.50</i>							
March .....	<i>.23</i>	<i>2.73</i>	<i>4.27</i>	<i>2.08</i>	<i>2.59</i>							
April.....	<i>1.27</i>	<i>2.41</i>	<i>2.13</i>	<i>.35</i>	<i>2.80</i>	<i>#</i>						
May .....	<i>3.46</i>	<i>1.00</i>	<i>1.18</i>	<i>2.17</i>								
June.....	<i>1.98</i>	<i>1.94</i>	<i>6.18</i>	<i>2.00</i>								
July .....	<i>.93</i>	<i>4.13</i>	<i>3.57</i>	<i>5.32</i>								
August.....	<i>1.12</i>	<i>3.94</i>	<i>3.36</i>	<i>5.43</i>								
September.....	<i>4.30</i>	<i>2.42</i>	<i>7.05</i>	<i>2.38</i>								
October.....	<i>+8.50</i>	<i>4.05</i>	<i>7.50</i>	<i>8.29</i>								
November.....	<i>2.79</i>	<i>4.05</i>	<i>4.43</i>									
December.....	<i>1.90</i>	<i>5.24</i>	<i>5.52</i>	<i>2.75</i>	<i>#</i>							
TOTALS .....	<i>33.14</i>	<i>37.55</i>	<i>57.58</i>	<i>38.96</i>								

*C C C*

1871 Gauge removed at the beginning of the year to a more favorable situation, quite clear of trees or buildings

1874 Gauge removed to Croft Hill, a mile & a half nearer Whitehaven, and about 260 ft higher elevation on May 1<sup>st</sup>



# RAINFALL AT *Whitehaven Croft Hill*

Lat.....

Lon.....

County of... *Cumberland*

Rain Gauge, by..... Observer... *H. A. Fletcher*

Diameter.....					8						
Height .....					3.0	1.6					
Altitude.....					480						
Year.....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....						5.76					
February.....						1.71					
March.....						1.33					
April.....						1.74					
May .....					#.92	2.25					
June.....					.65	3.70					
July .....					2.50	3.98					
August.....					5.60	3.20					
September.....					5.72	4.00					
October.....					8.50	5.15					
November.....					3.49	3.25					
December.....					1.60	3.01					
TOTALS.....					28.98	39.08					

1874 Gauge moved from Millgrove May 1<sup>st</sup>



RAINFALL AT *Loweswater Waterend*

Lat.....

Lon.....

County of.....*Cumberland*..........*Copper*..... Rain Gauge, by.....*Casella*..... Observer.....*H Jackson Esqr*.....

Diameter .....	.5	.							.	.	
Height .....	.8	.				1.		.	.	.	
Altitude .....	432	.						.	.	.	
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	6.47	4.95	10.87	10.92	6.90	7.00	3.75	11.08	4.52	1.74	6.820
February .....	3.78	4.61	4.96	.80	5.67	1.91	4.96	5.13	3.13	2.95	3.790
March .....	1.77	3.59	6.14	4.30	4.60	1.66	4.70	2.87	2.94	4.13	3.670
April.....	2.88	2.58	1.87	.47	2.20	2.35	2.87	2.52	.93	1.61	2.028
May .....	5.53	1.38	3.84	2.50	1.36	3.16	.76	4.65	2.80	2.31	2.829
June.....	7.70	2.33	5.10	3.02	.98	4.39	3.88	5.47	2.50	3.35	3.272
July .....	1.82	3.68	5.35	7.63	2.97	3.18	2.95	6.00	.82	7.19	4.159
August.....	1.98	3.78	3.25	6.35	9.42	4.31	4.54	7.00	4.21	6.81	5.165
September.....	5.32	2.75	7.32	2.95	7.78	6.42	5.86	3.92	6.66	6.97	5.595
October.....	9.12	4.74	7.47	8.07	13.09	5.11	3.94	7.86	6.66	3.52	6.958
November.....	3.76	3.06	6.79	4.32	4.90	3.56	3.37	12.06	3.53	1.78	4.713
December.....	2.20	7.34	7.24	4.01	3.11	3.13	5.40	6.32	1.74	3.40	4.389
TOTALS .....	46.33	44.79	70.20	55.34	62.98	46.18	46.98	74.88	40.44	45.76	53.388



# RAINFALL AT *Gowbarrow Fell*

Lat.....

Lon.....

County of *Cumberland*

Rain Gauge, by.....

Observer *G. J. Symon Esq.*

Diameter .....	8	.									
Height .....	1	.									
Altitude .....	1100	.									
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	5.75	4.50	13.00	13.00	5.50	8.50	2.75				
February .....	6.25	4.00	10.50	2.50	6.00	.50	(6.01)				
March .....	1.50	5.40	4.50	3.25	6.50	1.25	3.00				
April.....	1.00	3.00	2.50	.00	1.50	.75	2.00				
May .....	4.25	1.25	3.75	3.00	3.50	5.00	1.00				
June.....	1.25	2.75	6.00	4.00	1.25	2.75	4.00				
July .....	.75	2.75	4.00	8.50	2.00	3.75	2.50				
August.....	4.25	4.50	4.25	7.25	10.00	4.25	5.50				
September.....	2.50	3.75	9.50	4.00	6.00	5.50	4.25				
October.....	15.00	7.75	8.50	5.50	11.00	4.00	6.50				
November.....	4.50	1.75	10.50	4.75	4.00	(4.30)	3.75				
December.....	3.25	8.50	12.25	2.50	2.00	3.75	10.00				
TOTALS .....	50.25	49.90	89.25	58.25	59.25	(44.30)	(51.26)				

1871 Feb & Mar by out of order

1875 Nov amount computed by differentiation

1876 Feby amount computed



RAINFALL AT *Ullswater Watermilllock*

Lat.....

Lon.....

County of.....

*Cumberland*

.....Rain Gauge, by.....

Observer

*W. W. Ramsey Esq.*

Diameter .....	<i>.10</i>	.									
Height .....	<i>3.6</i>	.									
Altitude .....	<i>720</i>	.									
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	<i>7.20</i>	<i>4.40</i>	<i>11.90</i>	<i>13.60</i>							
February .....	<i>7.60</i>	<i>4.80</i>	<i>7.50</i>	<i>1.10</i>							
March .....	<i>3.30</i>	<i>5.20</i>	<i>3.50</i>	<i>2.40</i>							
April.....	<i>2.50</i>	<i>2.40</i>	<i>2.10</i>	<i>.20</i>							
May .....	<i>4.30</i>	<i>1.10</i>	<i>2.80</i>	<i>1.50</i>							
June.....	<i>2.40</i>	<i>2.20</i>	<i>4.70</i>	<i>2.20</i>							
July .....	<i>.70</i>	<i>4.80</i>	<i>3.40</i>	<i>5.70</i>							
August.....	<i>3.10</i>	<i>4.00</i>	<i>4.10</i>	<i>5.40</i>							
September.....	<i>4.10</i>	<i>3.60</i>	<i>7.50</i>	<i>2.60</i>							
October.....	<i>11.10</i>	<i>4.40</i>	<i>10.00</i>	<i>5.80</i>							
November.....	<i>.90</i>	<i>1.30</i>	<i>9.40</i>	<i>4.20</i>							
December.....	<i>3.50</i>	<i>7.60</i>	<i>9.20</i>	<i>3.50</i>	<i>#</i>						
TOTALS .....	<i>50.70</i>	<i>45.80</i>	<i>76.10</i>	<i>48.20</i>							

*c c c*



RAINFALL AT *Fell* *Matterdale Common*

Lat..... Lon..... County of *Cumberland*

Rain Gauge, by..... Observer *G. J. Symonds Esq.*

Diameter .....	.8										
Height .....	/										
Altitude .....	1400										
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	7.00	5.00	13.75								
February .....	8.50		6.25								
March .....	2.00		4.75								
April .....	1.25	3.75	2.50								
May .....	5.00	1.50	4.00								
June.....	1.75	3.00	2.00								
July .....	7.00		3.75								
August.....	5.00										
September.....	3.25										
October.....	19.75	7.25									
November.....	5.25	2.00									
December.....	4.00	9.00									
TOTALS .....	63.75										

1871 Gauge leaky

1872 February G. tampered with June G. tampered with August G. out of order September G. moved half a mile South on the same chain of mountains and about the same height.



# RAINFALL AT *Matterdale Common*

70

Lat.....

Lon.....

County of... *Cumberland*...

.....Rain Gauge, by.....

Observer...

*J. Taylor J. Lock*

Diameter.....											
Height.....											
Altitude.....											
Year.....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....				13.75	5.75	9.00	3.00				
February.....				2.50	6.25	.50	7.00				
March.....				3.50	6.50	1.25	4.00				
April.....				.00	1.50	.75	3.50				
May.....				3.00	3.50	5.50	1.50				
June.....				4.25	1.75	2.50	4.75				
July.....				9.00	2.00	3.75	3.25				
August.....				8.00	11.00	4.25	6.25				
September.....				4.00	6.25	5.50	5.00				
October.....			#8.75	2.75	12.75	4.25	(3.56)				
November.....			10.50	—	4.00	(3.85)	4.25				
December.....			13.75	1.75	2.00	4.00	10.75	#			
TOTALS.....					63.25	(45.10)	(56.81)				

1872<sup>g</sup>. moved from half a mile further. *W*

1873 Observations unreliable,

1875 November amount computed by differentiation

1876 Oct<sup>r</sup> amount computed



# RAINFALL AT Keswick (Deer Close)

Lat..... Lon..... County of... Cumberland.....  
 ..... Rain Gauge, by..... Observer H. C. Marshall Esq......

Diameter .....	7	.	.	.	.	.	.	.	.	.	.
Height .....	1.9	.	.	.	.	.	.	.	.	.	.
Altitude .....	300.	.	.	.	.	.	.	.	.	.	.
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	6.48	5.89	13.12	13.74	7.07	8.40	3.29	10.99	5.58	1.26	7.582
February .....	6.19	5.03	6.78	7.2	5.23	1.27	5.19	5.51	3.50	3.81	4.323
March .....	3.65	4.97	4.28	4.11	4.34	2.04	5.44	3.29	3.13	4.70	3.995
April .....	2.79	2.57	2.45	1.47	4.08	1.59	2.69	2.12	2.18	2.14	2.308
May .....	5.00	1.33	3.25	1.88	.99	2.94	.64	4.85	4.94	1.42	2.804
June .....	1.40	2.25	5.23	2.56	1.49	4.64	4.01	4.83	2.88	5.77	3.506
July .....	.90	4.21	4.36	8.26	2.93	3.26	2.46	5.32	1.12	7.11	3.993
August .....	3.24	4.33	3.95	6.15	8.63	2.89	6.03	6.55	5.04	6.61	5.342
September.....	7.36	3.34	8.88	3.31	9.45	6.98	4.49	4.02	7.81	5.39	6.103
October.....	11.93	4.30	9.32	7.45	15.79	4.59	4.48	11.09	8.08	2.64	7.967
November.....	4.79	2.17	9.59	3.11	4.40	5.51	3.10	13.79	3.60	1.65	5.171
December.....	2.89	7.66	9.22	3.96	2.85	6.74	9.43	6.74	2.91	5.88	5.828
TOTALS .....	57.42	48.05	80.43	55.72	67.25	50.85	51.25	79.10	50.77	48.38	58.922

1870 by brought from Brown Park Cottage in Jan'y. it is 1 mile S by E of its former position, it is in a line with & equidistant from Keswick (Crossthwaite) & Barrow, it is open to S & W rather (but not much) sheltered E NE & SE



RAINFALL AT *Keswick Post Office*

Lat. ....

Lon. ....

County of

*Cumberland*

.....

Rain Gauge, by.....

Observer

*W. Crosthwaite*

Diameter .....	8	.										
Height .....	6.4	.				6.6	.	6	.	.	.	
Altitude .....	270.	.					.	.	.	.	.	
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....	3.35	5.26	13.48	14.89	7.13	8.85	4.30	11.61	6.21	1.45	7.653	
February .....	4.96	4.93	6.15	.97	5.01	1.20	5.77	5.53	3.78	4.08	4.238	
March .....	2.40	4.94	4.13	4.14	4.59	2.07	5.68	3.44	3.33	4.73	3.945	
April.....	2.74	2.58	2.51	.62	3.90	1.60	2.81	1.87	2.08	1.96	2.267	
May .....	5.72	.68	2.68	2.04	1.12	3.25	.83	4.46	5.08	1.48	2.734	
June.....	4.14	1.78	4.98	2.23	1.43	4.50	3.90	4.64	2.43	4.95	3.498	
July .....	.98	4.34	3.85	7.09	2.77	3.53	1.87	5.16	1.44	7.30	3.833	
August.....	3.42	3.83	4.28	6.14	9.02	3.33	7.08	6.94	5.10	6.23	5.537	
September.....	6.83	2.26	8.84	3.42	8.25	6.66	4.54	4.17	8.11	5.47	5.855	
October.....	13.64	4.59	10.81	6.30	15.22	4.33	4.91	10.24	8.77	2.40	8.121	
November.....	4.37	2.01	11.65	3.12	4.58	5.16	3.15	14.43	3.39	1.99	5.385	
December.....	2.72	8.98	9.79	4.03	4.01	6.44	9.67	6.63	2.53	5.98	6.078	
TOTALS .....	55.27	46.48	83.15	54.99	67.03	50.92	54.51	79.12	52.25	48.02	59.144	

1877 Nothing nearer than about 20 yds



RAINFALL AT *Keswick Post Office B.A.*

Lat.....

Lon.....

County of.....

*Cumberland*

Rain Gauge, by.....

Observer

*Mr. Crosthwaite*

Diameter .....	.5										
Height .....	/										
Altitude .....	270.									265	
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	3.35	4.93	11.62	13.96	6.94	8.51	3.81	10.76	5.77	1.40	7.105
February .....	5.96	4.70	5.37	.93	4.91	1.25	5.32	5.18	3.69	4.10	4.141
March .....	2.36	4.50	3.82	3.79	4.57	2.02	5.42	3.23	3.21	4.71	3.763
April.....	2.71	2.57	2.54	.66	3.68	1.58	2.54	1.94	2.09	1.95	2.226
May .....	5.56	.67	2.74	2.05	1.17	3.32	.79	4.13	5.14	1.48	2.705
June.....	4.10	1.73	4.99	2.27	1.47	4.24	3.34	4.72	2.46	4.95	3.427
July .....	.98	4.49	3.80	7.15	2.82	3.41	1.82	5.18	1.46	7.18	3.829
August.....	3.33	3.67	4.25	6.15	9.13	3.10	6.59	6.85	5.10	6.10	5.427
September.....	6.82	2.20	8.89	3.44	8.19	6.38	4.45	4.14	7.99	5.39	5.789
October.....	12.44	4.48	9.74	6.12	14.76	4.42	4.73	9.96	8.30	2.40	7.735
November.....	4.20	1.84	10.17	3.09	4.40	5.40	3.04	13.93	3.46	1.99	5.152
December.....	2.62	8.13	8.41	3.65	3.85	5.90	9.28	6.38	2.52	5.83	5.657
TOTALS .....	54.43	43.91	76.34	53.26	65.89	49.53	51.13	76.40	51.19	47.48	56.956



RAINFALL AT *Keswick Derwent Island*

Lat.....

Lon.....

County of.....

*Cumberland*

Rain Gauge, by.....

Observer

*A. L. Marshall Esq.*

Diameter .....	.5	.	.	.	.	.	.	.	.	.	.	.
Height .....	.7	.	.	.	.	.	.	.	.	.	.	.
Altitude .....	280.	.	.	.	.	.	.	.	.	.	.	.
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....	5.93	5.71	12.36	12.15	5.74	7.39	2.47	10.00	4.21	1.46	6.742	
February .....	5.68	4.79	6.69	.97	5.24	1.02	4.93	4.38	3.47	3.13	4.030	
March .....	2.96	4.24	4.24	3.45	3.42	1.96	4.40	3.12	2.41	4.00	3.420	
April.....	2.07	2.47	2.29	.41	3.24	1.38	2.66	2.00	2.26	2.06	2.084	
May .....	4.64	1.27	2.73	1.55	1.16	2.97	.56	4.18	4.88	1.26	2.520	
June.....	1.85	2.36	5.21	2.13	1.17	4.31	3.60	4.06	2.67	5.55	3.291	
July.....	7.26	4.22	4.50	7.53	2.57	3.35	2.21	5.01	1.01	6.73	3.839	
August.....	3.70	4.26	4.30	6.03	8.55	3.12	5.70	6.59	5.35	5.84	5.344	
September.....	6.64	3.01	8.01	2.64	8.61	6.27	4.43	4.05	6.13	5.38	5.517	
October.....	<sup>+</sup> 11.54	4.43	9.05	5.76	12.10	4.00	4.62	9.27	7.20	1.78	6.975	
November.....	4.53	2.09	9.13	2.78	3.72	4.28	3.01	12.69	3.11	1.59	4.693	
December.....	2.48	6.58	8.92	3.11	2.12	5.68	8.61	5.88	2.17	4.08	4.963	
TOTALS .....	53.28	45.43	77.43	48.51	57.64	45.73	47.20	71.23	44.87	42.86	53.418	

Fall gradually decreasing in comparison to surrounding stations  
probably owing to growth of trees. These dates from about 1874  
c.s. 9/22



RAINFALL AT *Keswick Crow Park*

Lat..... Lon..... County of *Cumberland*  
..... Rain Gauge, by..... Observer *N. C. Marshall Esq.*

Diameter .....	<i>10</i>										
Height .....	<i>4</i>	<i>5</i>									
Altitude .....	<i>295</i>										
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	<i>5.00</i>	<i>4.40</i>									
February .....	<i>4.80</i>	<i>3.70</i>									
March .....	<i>2.10</i>	<i>4.20</i>									
April.....	<i>2.50</i>	<i>2.10</i>									
May .....	<i>4.80</i>	<i>.90</i>									
June.....	<i>2.00</i>	<i>1.80</i>									
July .....	<i>.80</i>	<i>3.80</i>									
August.....	<i>3.40</i>	<i>4.00</i>									
September.....	<i>5.80</i>	<i>2.20</i>									
October.....	<i>9.60</i>	<i>4.10</i>									
November.....	<i>3.70</i>	<i>1.70</i>									
December.....	<i>1.90</i>	<i>5.50</i>									
TOTALS .....	<i>46.40</i>	<i>38.40</i>									

*1870 Sept & August estimated from other gauges as this was out of order*



# RAINFALL AT *Newick Brow Top*

70

Lat.....

Lon..... County of *Cumberland*

Rain Gauge, by..... Observer *W. J. Barker*

Diameter.....	.5		.5								
Height.....	.8		.8								
Altitude.....					407						
Year.....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	6.16	5.66	13.48	12.14	6.78	6.40					
February.....	6.17	4.63	5.78	1.39	5.89	1.17					
March.....	3.43	4.42	3.65	5.11	4.94	2.30					
April.....	2.48	2.88	2.50	.49	3.45	1.64					
May.....	3.92	1.43	3.89	2.32	1.36	3.05					
June.....	1.61	2.83	4.27	2.69	1.09	4.34					
July.....	1.14	4.34	5.64	8.77	2.80	3.90					
August.....	3.87	4.77	4.79	7.19	9.01	3.27					
September.....	5.64	2.79	9.16	3.46	8.58	6.77					
October.....	11.70	4.77	10.32	5.64	15.20	4.65					
November.....	4.71	2.38	9.68	2.34	4.57	4.52					
December.....	2.57	8.13	9.40	4.01	3.17	7.00					
TOTALS.....	53.40	49.03	82.56	55.55	66.84	49.01	—				

C C C

1876 N. O.

1873 The rain gauge being out of order during the first fortnight in December the above is a partial record. The register kept by Mr. Barker continues to the present.



# RAINFALL AT Keswick Shute-Crow

70

Lat.....

Lon.....

County of Cumberland.....

Rain Gauge, by.....

Observer...

H. Dawson Esq. dead

W. J. Ferguson

Diameter.....						12					
Height.....				3							
Altitude.....				300		278				287	
Year.....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....				14.39	7.72	9.37	6.00	12.55	6.45	1.54	
February.....				.85	3.81	1.19	5.81	6.02	3.42	3.25	
March.....				3.78	4.92	2.39	6.76	2.87	2.97	4.51	
April.....				.36	4.28	1.79	4.33	1.92	1.93	1.95	
May.....				2.13	1.01	3.36	1.00	4.22	4.30	1.37	
June.....				2.31	1.65	4.54	2.40	5.24	2.29	4.57	
July.....				7.09	2.36	4.52	.80	4.11	1.39	6.84	
August.....				6.33	8.54	3.38	5.30	6.29	4.80	5.27	
September.....				2.74	8.83	6.67	7.52	4.06	8.79	4.87	
October.....				6.38	15.83	4.81	5.67	9.68	8.58	2.32	
November.....				3.49	4.42	5.96	3.23	14.94	3.41	1.71	
December.....				3.85	3.89	6.03	8.74	7.41	(2.34)	6.23	
TOTALS.....				53.90	67.26	54.01	57.56	79.31	(50.67)	44.43	

1877 gauge not altered in any way since the death of H. Dawson Esq. 1876 August rain not registered from 13 $\frac{1}{2}$  to 20 $\frac{1}{2}$  but it is believed that no rain fell

1878 "The rain gauge being out of order during the last fortnight in December the return is copied from the register kept by M<sup>r</sup> Fisher, Crosthwaite"

1879 Shrubs about 4ft high 25ft distant on all sides

Crosthwaite 1 mile N.W.



# RAINFALL AT *Whitehaven Gilgarron Hall*

70

Lat. ....

Lon. ....

County of

*Cumberland*

Rain Gauge, by

Observer

*W D Galloway*

Diameter . . . .								5	.		
Height . . . .								4.9	.		
Altitude . . . .								470	.		
Year . . . .	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January . . . .								8.75	4.15	1.10	
February. . . .								4.00	3.86	2.25	
March . . . . .								2.30	1.88	2.75	
April . . . . .								2.63	2.22	1.50	
May . . . . .								3.87	2.50	2.50	
June . . . . .								4.67	2.73	3.50	
July . . . . .								4.95	.85	7.10	
August . . . .								6.50	4.90	4.70	
September . .								3.36	4.56	6.70	
October . . . .								8.50	4.91	3.05	
November . .								10.52	3.25	2.10	
December . .								5.75	1.75	3.00	
TOTALS . .								65.80	37.56	40.25	



# RAINFALL AT *Whiabeck Skiddaw*

70

Lat..... Lon..... County of *Cumberland*  
 ..... Rain Gauge, by..... Observer... *M<sup>r</sup> G. Nixon*.....

Diameter.....											
Height .....											
Altitude.....											
Year .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....					6.00	1.25					
February.....					3.12	1.00					
March.....					6.12	1.37					
April.....					1.88						
May .....					2.38						
June.....					3.13						
July .....					.88						
August.....					3.12						
September.....					9.00						
October.....					7.12						
November.....					7.50						
December.....											
TOTALS .....					(50.25)						



RAINFALL AT *Skiddaw*

Lat.....

Lon.....

County of *Cumberland*

Rain Gauge, by..... Observer *W. George Mason*

Diameter .....	8										
Height .....	/										
Altitude .....	1677										
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	2.38	5.88	8.88	8.13	5.87	1.12					
February .....	4.75	5.50	4.25	.37	3.25	1.00					
March .....	2.87	4.62	2.87	.88	5.00	1.37					
April.....	1.65	2.13	4.75	.00	1.63						
May .....	2.25	1.87	3.25	5.75	2.12						
June.....	2.25	1.63	3.75	8.75	2.38						
July .....	2.75	1.87	4.13	5.87	.63						
August.....	3.25	5.13	5.37	7.00	2.62						
September.....	5.13	5.27	5.25	3.38	8.50						
October.....	12.75	4.62	8.25	4.12	8.12						
November.....	3.87	2.25	6.63	3.75	13.50						
December.....	1.38	11.38	7.12	3.38							
TOTALS .....	45.28	52.15	64.50	46.38	53.62						

C C C

1874 imp



# RAINFALL AT *Fairfield, Lorton, nr. Cockermouth*

Lat. *54° 37' 45"*

W. Lon. *3° 18' 40"*

County of *Cumberland*

*2 1/2"*

Rain Gauge, by

Observer

*John Wilson*

*18 MAY 1916*

Diameter. ....	<i>2 1/2"</i>										
Height. ....	<i>1' 3"</i>										
Altitude. ....	<i>say 255 feet</i>										
Year .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January. ....			<i>8.30</i>	<i>10.00</i>	<i>6.00</i>	<i>5.00</i>	<i>2.90</i>	<i>10.70</i>	<i>5.30</i>	<i>1.70</i>	<i>6.24</i>
February. ....			<i>3.70</i>	<i>.80</i>	<i>4.10</i>	<i>1.30</i>	<i>4.30</i>	<i>5.30</i>	<i>3.10</i>	<i>2.90</i>	<i>3.19</i>
March. ....			<i>3.80</i>	<i>3.10</i>	<i>3.50</i>	<i>1.30</i>	<i>3.80</i>	<i>2.90</i>	<i>3.00</i>	<i>4.10</i>	<i>3.19</i>
April. ....			<i>1.40</i>	<i>.00</i>	<i>1.40</i>	<i>1.10</i>	<i>2.20</i>	<i>2.30</i>	<i>1.70</i>	<i>1.00</i>	<i>1.39</i>
May. ....			<i>2.80</i>	<i>1.50</i>	<i>.70</i>	<i>2.20</i>	<i>3.10</i>	<i>3.70</i>	<i>2.40</i>	<i>1.60</i>	<i>2.25</i>
June. ....			<i>3.90</i>	<i>2.50</i>	<i>.30</i>	<i>3.70</i>	<i>3.70</i>	<i>4.40</i>	<i>2.30</i>	<i>3.20</i>	<i>3.00</i>
July. ....			<i>3.30</i>	<i>5.50</i>	<i>2.00</i>	<i>2.80</i>	<i>2.00</i>	<i>4.70</i>	<i>.40</i>	<i>6.20</i>	<i>3.36</i>
August. ....			<i>2.80</i>	<i>4.70</i>	<i>6.80</i>	<i>3.20</i>	<i>4.10</i>	<i>7.20</i>	<i>3.40</i>	<i>4.50</i>	<i>4.59</i>
September. ....			<i>6.60</i>	<i>2.20</i>	<i>6.70</i>	<i>5.00</i>	<i>3.60</i>	<i>3.50</i>	<i>6.20</i>	<i>5.10</i>	<i>4.86</i>
October. ....			<i>8.20</i>	<i>6.30</i>	<i>10.80</i>	<i>4.40</i>	<i>3.20</i>	<i>7.40</i>	<i>5.70</i>	<i>2.70</i>	<i>6.09</i>
November. ....			<i>6.80</i>	<i>3.50</i>	<i>5.30</i>	<i>4.20</i>	<i>2.40</i>	<i>11.40</i>	<i>3.10</i>	<i>1.90</i>	<i>4.82</i>
December. ....			<i>7.20</i>	<i>2.40</i>	<i>2.60</i>	<i>3.20</i>	<i>5.90</i>	<i>5.90</i>	<i>1.90</i>	<i>3.80</i>	<i>4.11</i>
TOTALS. ....			<i>58.80</i>	<i>42.50</i>	<i>50.20</i>	<i>37.40</i>	<i>41.20</i>	<i>69.40</i>	<i>38.50</i>	<i>38.70</i>	<i>47.09</i>

*recd. V. 16 ent. XI. 16*



RAINFALL AT *Cockermouth Thimble Hall*

Lat. ....

Lon. ....

County of ...

*Cumberland*

Rain Gauge, by .....

Observer

*Wilson Robinson Esq.*

Diameter .....	5'										
Height .....	2' 0"										
Altitude .....	265' 0"										
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	5.82	4.37	9.95	10.68	6.39	6.36	2.84	10.15	5.21	1.42	6.319
February .....	5.07	4.71	5.23	7.2	4.55	1.43	4.89	4.80	3.43	2.72	3.755
March .....	2.56	3.33	4.55	3.51	3.97	1.60	4.36	3.13	2.47	4.59	3.407
April.....	2.85	2.43	1.98	4.0	2.03	1.48	2.67	2.27	1.77	1.81	1.969
May .....	5.55	7.24	3.76	2.16	1.06	3.10	.69	4.61	2.84	1.92	2.695
June.....	1.52	1.75	6.03	3.09	1.26	4.35	4.58	4.48	2.77	4.38	3.421
July .....	7.95	3.38	3.78	7.07	2.34	3.47	3.19	5.78	.88	6.88	3.772
August.....	2.03	3.82	4.01	6.10	9.00	4.24	4.50	6.96	3.84	5.05	4.955
September.....	5.22	2.60	8.40	3.12	7.38	6.66	4.27	3.56	7.05	6.26	5.452
October.....	11.27	4.18	10.06	7.35	11.45	4.69	3.29	8.27	6.95	2.77	7.025
November.....	3.58	2.78	7.16	3.26	5.96	4.76	2.95	12.17	3.45	2.00	4.807
December.....	2.44	7.11	7.59	2.78	2.75	3.95	6.84	5.50	2.37	4.40	4.573
TOTALS .....	4886	4170	7250	5024	5814	4609	4507	7168	4303	4420	52151

1871 The rainfall here was 2.00 in lower than that of any of the preceding years, the next lowest was that of 1856 the first of the present series. The average of the whole 16 years is 53.87

1875 Gauge slightly sheltered by apple tree 12 or 15 ft high

1878 Apple tree 11 ft high 13 ft distant W.S.W & one 18 ft high & 20 ft S.W.

1879 tree 13 ft high 20 ft S.E.

Location ch:  $\frac{1}{2}$  mile N.E.

Hydro No 594323



# RAINFALL AT Cocker mouth Bradlingill 70

Lat. .... Lon. .... County of Cumberland

Rain Gauge, by ..... Observer Capt F. R. Sewell

Diameter....								.5			
Height ....								1.			
Altitude ....								320			
Year ....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January ....							#	8.97	5.01	1.69	
February....								5.28	3.28	2.72	
March.....								2.42	2.42	3.90	
April .....								2.61	1.65	1.62	
May .....								3.61	2.56	2.34	
June .....								4.77	1.40	3.84	
July.....								5.05	1.00	6.66	
August ....								6.33	4.25	4.46	
September ..								3.49	6.84	6.77	
October ....								7.14	5.45	2.81	
November ..								11.09	3.85	2.13	
December ..								5.88	2.37	4.12	
TOTALS ..								66.64	40.08	43.06	

1877 Two or three ash trees about 15 ft high & 15 yds distant  
 Brigham church 4 miles N.W.  
 Dean " 4 miles W.



RAINFALL AT *Bassenthwaite Mine House*

Lat..... Lon..... County of *Cumberland*  
..... Rain Gauge, by..... Observer *Mr Spedding*

Diameter .....	5										
Height .....	7						6				
Altitude .....	310										
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	5.68	4.56	9.11	11.35	5.94	6.83	2.57	8.85	4.15	1.28	6.032
February .....	5.18	3.89	5.25	8.6	3.59	1.05	4.46	4.76	2.89	2.85	3.478
March .....	3.44	3.57	3.76	3.11	3.74	1.45	4.59	3.89	2.90	4.27	3.472
April.....	2.34	2.29	2.46	3.4	2.59	1.35	3.59	2.09	2.60	1.44	2.109
May .....	4.30	1.21	3.75	1.86	1.35	3.36	.83	4.03	4.94	1.73	2.736
June.....	1.40	1.63	5.64	2.05	1.05	3.32	3.32	4.09	3.25	4.47	3.022
July .....	7.08	2.82	3.82	6.18	2.45	2.74	3.70	5.40	1.34	6.35	3.588
August.....	3.39	4.81	3.90	5.62	7.10	2.66	4.59	7.22	5.17	5.18	4.964
September.....	4.71	2.81	8.91	2.26	7.85	5.42	5.72	3.21	7.67	3.85	5.241
October.....	11.13	3.65	8.64	5.95	10.64	4.90	3.75	7.85	6.98	2.51	6.600
November.....	3.53	2.22	7.08	3.50	5.16	4.92	2.48	10.37	2.99	2.23	4.448
December.....	2.79	6.66	8.30	3.22	2.68	4.51	5.93	4.59	2.27	4.19	4.574
TOTALS .....	48.97	40.12	70.62	46.30	54.14	42.51	45.53	66.35	47.15	40.35	50.204

C C C

1871 remarkable for an Earthquake on the 17<sup>th</sup> of March  
severe shock felt in this district, a cold summer like  
last with much drought, Rain about 10 in below the  
average.



RAINFALL AT *Cockermouth Beech Hill Moss*

Lat..... Lon..... County of *Cumberland*

Rain Gauge, by..... Observer *John Alderson Esq*

Diameter .....	<i>.5</i>										
Height .....	<i>1.3</i>										
Altitude .....	<i>150.</i>										
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	<i>6.38</i>										
February .....	<i>4.08</i>										
March .....	<i>2.55</i>										
April.....	<i>3.51</i>										
May .....	<i>4.20</i>										
June.....	<i>1.59</i>										
July .....	<i>7.24</i>										
August.....	<i>2.30</i>										
September.....	<i>4.53</i>										
October.....	<i>+ 9.93</i>										
November.....	<i>5.25</i>										
December.....	<i>2.74#</i>										
TOTALS .....	<i>48.30</i>										

*1870 In open field quite free. 4 m S of Cockermouth.*  
*1871 Return imperfect in consequence of illness*



RAINFALL AT *Workington Stainburn*

Lat.....

Lon.....

County of.....

*Cumberland*

..... Rain Gauge, by.....

Observer

*Charles Litt Esq.*

Diameter .....	.8	.										
Height .....	.6	.8				1	.6	.8	1			
Altitude .....	101	.					101	.				
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....	3.97	3.34	7.18	6.75	4.53	4.17	1.98	7.74	3.38			
February .....	2.96	3.08	3.39	7.3	3.36	1.32	3.43	2.81	2.39			
March .....	2.22	2.57	3.08	3.11	2.46	.96	3.19	2.20	1.32			
April.....	1.62	2.25	1.89	.49	1.68	1.29	2.38	2.29	1.53			
May .....	2.80	.94	2.58	1.95	1.17	2.35	.53	2.86	2.36			
June.....	2.12	1.80	5.47	1.96	1.11	3.67	3.65	3.37	2.58			
July .....	7.09	3.08	3.92	4.26	2.18	3.35	2.67	3.88	.80			
August.....	1.40	3.39	3.36	4.14	6.32	4.04	3.74	7.75	3.86			
September.....	4.16	2.23	6.14	1.74	6.33	5.11	3.43	2.10	4.63			
October.....	<sup>+</sup> 7.49	3.31	7.30	5.90	7.31	3.20	3.18	5.35	3.92			
November.....	2.66	3.12	4.49	2.56	3.97	3.14	2.73	7.89	3.01			
December.....	1.66	4.45	4.98	1.67	2.26	2.86	4.83	4.07	1.48			
TOTALS .....	34.15	33.56	53.78	35.26	42.68	35.46	35.74	52.31	31.26			

76 gauge in an open position

1879 Observer dead.



RAINFALL AT *Workington Park End*

Lat.....

Lon.....

County of...

*Cumberland*

.....

Rain Gauge, by.....

Observer

*W<sup>m</sup> Thompson*

Diameter .....	5										
Height .....	1	1	2								
Altitude .....	124										
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	4.02	2.47	7.36								
February .....	3.07	2.71	3.38								
March .....	2.29	2.38	3.10								
April.....	1.57	2.09	1.78								
May .....	2.68	.81	1.97								
June.....	2.12	1.63	5.58								
July .....	.97	3.33	3.65								
August.....	1.45	3.06	3.57								
September.....	3.85	2.14	6.15								
October.....	7.33	3.41	7.07								
November.....	2.68	2.99	4.65								
December.....	1.55	4.32	5.36								
TOTALS .....	33.58	31.34	53.62								

1870

On open Lawn



# RAINFALL AT Cockermouth Derwent House

70

Lat. .... Lon. .... County of Cumberland

Rain Gauge, by ..... Observer H. Dodgson

Diameter, ...			8								
Height ....			6								
Altitude ....			144								
Year ....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January ....		#	6.88								
February. ..			3.12								
March .....			3.35								
April .....			1.36								
May .....			2.84								
June .....			4.50								
July .....			3.80								
August ....			3.59								
September ..			6.60								
October ....			7.26								
November ..			4.92								
December ..			4.88 #								
TOTALS ..			53.10								

This gauge was discontinued because the readings were almost identical with the 5 in gauge.



# RAINFALL AT Cockermouth Derwent House

70

Lat. .... Lon. .... County of Cumberland  
 Rain Gauge, by ..... Observer D. H. Dodgson

Diameter ....				.5							
Height ....				6							
Altitude ....				144							
Year ....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January ....			# 7.16	8.48	5.04	4.79	2.52	8.53	4.44	1.48	
February. ...			3.25	.65	3.03	1.35	4.07	3.91	2.70	2.09	
March .....			3.34	3.16	3.10	1.33	3.66	2.36	2.16	3.42	
April .....			1.35	.45	1.51	1.51	2.58	2.21	1.86	1.30	
May .....			2.81	1.83	1.28	2.53	.72	3.16	2.13	2.39	
June .....			4.44	2.92	1.20	3.61	3.86	3.74	2.39	3.38	
July .....			3.80	4.42	2.65	3.11	2.77	4.92	.67	5.84	
August ....			3.59	5.23	6.70	3.34	3.87	6.23	3.86	3.69	
September ..			6.61	1.61	6.03	5.48	3.92	3.20	6.04	5.32	
October ....			7.32	7.01	8.63	3.21	3.57	6.17	4.70	2.27	
November ..			4.93	2.62	4.57	3.44	2.69	9.75	3.10	2.12	
December ..			4.83	2.46	2.57	3.39	4.73	5.10	2.00	3.50	
TOTALS ..			53.43	40.84	46.31	37.09	38.96	59.28	36.05	36.80	

1877 A rose bush 4ft high & seven ft distant



# RAINFALL AT Cocker mouth (Main St)

70

Lat. ....

Lon. ....

County of Cumberland

Rain Gauge, by .....

Observer D. H. Dodgson

Diameter ....	8										
Height ....	6										
Altitude ....	158										
Year ....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January ....	4.41	3.98	7.00								
February ..	3.56	3.52	3.34								
March .....	2.35	2.94	3.57								
April .....	2.11	2.50	1.55								
May .....	4.02	.97	2.92								
June .....	1.97	1.75	4.59								
July .....	1.05	2.92	4.04								
August ....	2.85	3.31	3.88								
September ..	4.32	2.23	6.96								
October ....	9.56	3.81	7.76								
November ..	3.52	2.64	5.20								
December ..	2.00	6.32	5.02								
TOTALS ..	41.72	36.89	55.83								

1872 Observer moved to Derwent House Cocker mouth



RAINFALL AT Cockermouth (Post) Main Street

Lat.....

Lon.....

County of.....

Cumberland

..... Rain Gauge, by.....

Observer

Dr. W. Dodgson

Diameter .....	.8	.									
Height .....	6	.6	.								
Altitude .....	164.	.									
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	4.27	3.85	6.78								
February .....	3.44	3.40	3.25								
March .....	2.27	2.97	3.41								
April.....	1.99	2.27	1.50								
May .....	3.80	.88	2.84								
June.....	1.83	1.69	4.50								
July .....	-.98	2.78	3.79								
August.....	2.64	3.14	3.62								
September.....	4.03	2.01	6.60								
October.....	<sup>†</sup> 9.09	3.54	7.49								
November.....	3.35	2.55	4.93								
December.....	1.83	6.01	4.88								
TOTALS .....	39.52	35.09	53.59								



# RAINFALL AT Cockermouth Church Tower

Lat..... Lon..... County of Cumberland

..... Rain Gauge, by..... Observer .....

Diameter .....	.8										
Height .....	101										
Altitude .....	258										
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	2.75										
February .....	1.17										
March .....	.78										
April.....	.88										
May .....	2.30										
June.....	.87										
July .....	.90										
August.....	1.73										
September.....	2.52										
October.....	5.20										
November.....	2.00										
December.....	1.25										
TOTALS .....	22.35										

Good of Order

#

C



RAINFALL AT Cocker mouth The Goat

Lat. ....

*Lon.*

County of \_\_\_\_\_

Cumberland

*Rain Gauge, by*

Observer

Dr. Dodgson

[illegible]



# RAINFALL AT *Cockermouth Tarn Bank*

Lat.....

Lon..... County of *Cumberland*

..... Rain Gauge, by..... Observer .....

Diameter .....											
Height .....	<i>.6</i>										
Altitude .....	<i>225</i>										
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	<i>4.68</i>										
February .....	<i>3.06</i>										
March .....	<i>2.34</i>										
April.....	<i>2.17</i>										
May .....	<i>3.84</i>										
June.....	<i>2.34</i>										
July .....	<i>1.13</i>										
August.....	<i>2.19</i>										
September.....	<i>3.45</i>										
October.....	<i>7.86</i>										
November.....	<i>3.12</i>										
December.....	<i>1.62</i>										
TOTALS .....	<i>37.00</i>										

*37.76*



RAINFALL AT *Cockermouth Tarn Bank*

Lat.....

Lon.....

County of.....

*Cumberland*

..... Rain Gauge, by.....

Observer

*Isaac Fletcher Esq. M.P.*

Diameter .....	<i>1/0</i>										
Height .....	<i>5</i>										
Altitude .....	<i>230</i>										
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	<i>4.66</i>										
February .....	<i>2.96</i>										
March .....	<i>2.30</i>										
April .....	<i>2.11</i>										
May .....	<i>4.03</i>										
June .....	<i>2.39</i>										
July .....	<i>1.04</i>										
August.....	<i>2.15</i>										
September.....	<i>3.32</i>										
October.....	<i>7.68</i>										
November.....	<i>3.06</i>										
December.....	<i>1.50</i>										
TOTALS .....	<i>37.20</i>										

*C*







RAINFALL AT *Cockermouth Higham*

Lat. ....

Lon. ....

County of .....

*Cumberland*

.....

Rain Gauge, by .....

Observer .....

*J A Hoskins Esq.*

Diameter .....	. 8	.	6				.	.	.	.	
Height .....	. 6	.					.	.	.	.	
Altitude .....	$\frac{6}{\pi}$	.					.	.	.	.	
Altitude .....	478.	.					.	.	.	.	
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	4.89	3.80	7.88	8.78	5.70	4.86	2.46	8.20	4.56	1.29	5.242
February .....	3.67	3.93	4.05	.67	3.46	1.42	4.22	4.56	2.79	2.48	3.125
March .....	2.01	2.60	3.65	2.51	4.01	1.42	3.91	3.05	2.61	3.82	2.959
April .....	2.21	2.47	2.08	.40	1.77	1.20	2.61	2.45	1.80	1.43	1.842
May .....	4.34	1.15	3.20	1.85	1.22	2.86	.65	3.35	2.44	2.10	2.316
June.....	1.79	1.44	4.92	2.59	1.53	2.94	3.29	3.83	3.37	3.60	2.930
July.....	7.15	2.84	4.06	5.57	2.35	2.88	2.83	5.17	.68	5.58	3.311
August.....	2.23	4.11	4.39	5.83	7.86	3.43	4.34	6.56	4.50	3.72	4.697
September.....	4.00	2.57	7.32	2.17	6.34	5.54	3.85	2.88	7.06	4.07	4.580
October.....	+8.73	3.39	7.46	6.54	9.55	4.27	2.42	6.09	5.29	2.64	5.638
November.....	3.31	2.26	6.04	2.72	4.96	3.64	2.50	8.87	3.18	2.20	3.968
December.....	2.04	6.09	4.40	2.64	3.22	3.40	5.64	4.69	2.42	4.51	3.905
TOTALS .....	40.37	36.65	59.45	42.27	51.97	37.86	38.72	59.70	40.70	37.44	44.513

*Brigham church 7 miles W.*



RAINFALL AT *Cockermouth Broughton Grange*Lat...*54° 40' 15" N*Lon...*3. 25' 15" W*County of...*Cumberland*

Rain Gauge, by.....

Observer...

*J. S. Wilson*

Diameter.....				<i>5</i>				<i>5</i>				
Height .....				<i>1.3</i>			<i>1.6</i>	<i>1.6</i>				
Altitude.....				<i>203</i>	<i>202</i>		<i>209</i>					
Year .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....				<i>#11 3.70</i>	<i>5.15</i>	<i>4.70</i>	<i>2.42</i>	<i>8.29</i>	<i>3.31</i>	<i>1.57</i>		
February.....				<i>.57</i>	<i>3.16</i>	<i>1.43</i>	<i>4.11</i>	<i>3.56</i>	<i>2.64</i>	<i>1.97</i>		
March.....				<i>3.08</i>	<i>2.91</i>	<i>.96</i>	<i>3.68</i>	<i>1.97</i>	<i>1.66</i>	<i>3.09</i>		
April.....				<i>.40</i>	<i>1.29</i>	<i>1.53</i>	<i>2.59</i>	<i>2.58</i>	<i>1.81</i>	<i>.80</i>		
May .....				<i>1.76</i>	<i>1.08</i>	<i>2.40</i>	<i>.68</i>	<i>3.37</i>	<i>1.65</i>	<i>2.44</i>		
June.....				<i>2.31</i>	<i>1.19</i>	<i>3.16</i>	<i>5.10</i>	<i>3.96</i>	<i>2.03</i>	<i>4.07</i>		
July .....				<i>3.85</i>	<i>3.13</i>	<i>2.99</i>	<i>2.08</i>	<i>5.04</i>	<i>.70</i>	<i>5.77</i>		
August.....				<i>4.60</i>	<i>7.06</i>	<i>3.01</i>	<i>4.40</i>	<i>6.44</i>	<i>3.92</i>	<i>4.07</i>		
September.....				<i>2.31</i>	<i>6.52</i>	<i>6.29</i>	<i>4.44</i>	<i>3.44</i>	<i>5.05</i>	<i>5.41</i>		
October.....				<i>6.26</i>	<i>9.11</i>	<i>3.46</i>	<i>3.57</i>	<i>6.09</i>	<i>5.01</i>	<i>1.94</i>		
November.....				<i>2.51</i>	<i>4.36</i>	<i>3.30</i>	<i>2.56</i>	<i>9.72</i>	<i>3.04</i>	<i>1.89</i>		
December.....				<i>1.91</i>	<i>2.28</i>	<i>3.36</i>	<i>5.02</i>	<i>4.81</i>	<i>1.77</i>	<i>3.26</i>		
TOTALS .....					<i>47.24</i>	<i>36.59</i>	<i>40.65</i>	<i>59.27</i>	<i>32.59</i>	<i>36.28</i>		

*1879 Gauge stands in an open kitchen garden**Broughton Grange 300 yds N.W.*



Diameter. ....							5				
Height. ....											
Altitude. ....											
Year .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January. ....							.93	5.22	2.85	1.05	
February. ....							2.72	2.73	.97	1.64	
March. ....							4.51	2.25	1.68	1.64	
April. ....							2.39	2.29	1.96	1.90	
May. ....							1.10	1.80	4.75	1.25	
June. ....							1.83	2.23	2.53	3.60	
July. ....							1.93	3.90	1.00	3.80	
August. ....							3.40	6.55	3.55	3.39	
September. ....							3.61	1.92	3.30	1.46	
October. ....							2.17	3.95	3.71	1.19	
November. ....							2.23	5.46	2.42	1.16	
December. ....							4.29	2.63	2.15	1.44	
TOTALS. ....							31.11	40.93	30.87	23.52	



# RAINFALL AT *Penrith The Friarage*

70

Lat. ....

Lon. ....

County of *Cumberland,*

Rain Gauge, by .....

Observer *J. Robertson Esq M.D.*

Diameter ....						5					
Height ....						1					
Altitude ....						350					
Year ....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January ....						5.55		5.98			
February ....						50		2.82			
March .....						1.42		2.29			
April .....						53		2.48			
May .....						1.60		1.75			
June .....						3.74		3.45			
July .....						3.67		4.16			
August ....						2.31		5.58			
September ..						3.66		2.45			
October ....						2.76		4.56			
November ..						3.14		6.40			
December ..						2.58		2.97			
TOTALS ..						31.46		44.89			

1876 N.R. 78 not sent



# RAINFALL AT Penrith Sandath House

70

Lat. ....

Lon. ....

County of Cumberland,

Rain Gauge, by .....

Observer. Miss Cione

Diameter ....								5	.	.	
Height ....						1	.	.	.	.	
Altitude ....						580	.	570	.	.	
Year ....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January ....							1.13	4.87	2.96	1.10	
February ....							2.82	2.55	1.07	1.91	
March .....							4.13	2.15	1.72	2.05	
April .....							2.46	2.39	1.72	1.57	
May .....							1.11	2.02	3.72	1.63	
June .....							2.27	2.34	2.40	3.46	
July .....							2.01	4.14	.71	4.69	
August ....						#5 <sup>th</sup> 1.82	3.60	5.77	4.45	4.05	
September ..						3.45	3.39	1.88	2.70	1.79	
October ....						2.83	2.89	4.45	4.22	1.15	
November ..						2.91	2.29	6.13	2.46	1.55	
December ..						2.69	4.91	2.58	2.64	2.20	
TOTALS ..							33.01	41.27	30.77	27.15	

1875 Observations commenced August 5<sup>th</sup>

1877 Two shrubs ten ft from gauge & 13 ft high S.W.



RAINFALL AT Ullswater Hallsteads

Lat..... Lon..... County of Cumberland  
..... Rain Gauge, by..... Observer Arthur Marshall Esq

Diameter .....	<u>.10</u>										
Height .....	<u>4</u>										
Altitude .....	<u>490.</u>										
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	<u>7.60</u>	<u>5.90</u>	<u>11.90</u>	<u>13.30</u>	<u>6.80</u>	<u>9.30</u>	<u>4.00</u>	<u>10.40</u>	<u>5.10</u>	<u>1.20</u>	<u>7.550</u>
February .....	<u>5.10</u>	<u>3.70</u>	<u>8.50</u>	<u>1.20</u>	<u>5.00</u>	<u>1.40</u>	<u>4.70</u>	<u>3.60</u>	<u>4.10</u>	<u>4.40</u>	<u>4.170</u>
March .....	<u>1.50</u>	<u>5.20</u>	<u>5.00</u>	<u>2.70</u>	<u>4.30</u>	<u>4.00</u>	<u>3.60</u>	<u>3.00</u>	<u>1.80</u>	<u>2.30</u>	<u>3.340</u>
April.....	<u>2.70</u>	<u>1.80</u>	<u>2.00</u>	<u>.20</u>	<u>3.00</u>	<u>1.50</u>	<u>1.40</u>	<u>2.70</u>	<u>3.50</u>	<u>4.70</u>	<u>2.350</u>
May .....	<u>6.20</u>	<u>1.10</u>	<u>2.90</u>	<u>1.50</u>	<u>2.00</u>	<u>2.80</u>	<u>1.00</u>	<u>4.10</u>	<u>8.00</u>	<u>1.20</u>	<u>3.080</u>
June.....	<u>1.90</u>	<u>2.20</u>	<u>4.60</u>	<u>1.70</u>	<u>1.50</u>	<u>3.60</u>	<u>3.90</u>	<u>4.80</u>	<u>2.90</u>	<u>6.40</u>	<u>3.350</u>
July .....	<u>7.20</u>	<u>4.80</u>	<u>3.50</u>	<u>5.80</u>	<u>2.30</u>	<u>3.10</u>	<u>1.80</u>	<u>7.20</u>	<u>1.20</u>	<u>5.50</u>	<u>3.640</u>
August.....	<u>1.50</u>	<u>4.00</u>	<u>4.70</u>	<u>5.20</u>	<u>9.60</u>	<u>2.70</u>	<u>4.80</u>	<u>6.70</u>	<u>5.00</u>	<u>7.00</u>	<u>5.120</u>
September.....	<u>5.70</u>	<u>4.00</u>	<u>6.70</u>	<u>2.80</u>	<u>8.50</u>	<u>6.30</u>	<u>4.20</u>	<u>2.20</u>	<u>7.20</u>	<u>5.70</u>	<u>5.330</u>
October.....	<u>10.40</u>	<u>3.60</u>	<u>10.00</u>	<u>7.20</u>	<u>14.70</u>	<u>7.60</u>	<u>3.00</u>	<u>9.70</u>	<u>7.00</u>	<u>2.40</u>	<u>7.560</u>
November.....	<u>3.50</u>	<u>1.30</u>	<u>8.80</u>	<u>3.10</u>	<u>4.20</u>	<u>5.20</u>	<u>2.50</u>	<u>10.70</u>	<u>2.30</u>	<u>2.50</u>	<u>4.410</u>
December.....	<u>2.70</u>	<u>7.50</u>	<u>9.20</u>	<u>4.10</u>	<u>1.70</u>	<u>6.30</u>	<u>8.50</u>	<u>6.30</u>	<u>3.80</u>	<u>4.00</u>	<u>5.410</u>
TOTALS .....	<u>50.00</u>	<u>45.10</u>	<u>77.80</u>	<u>48.80</u>	<u>63.60</u>	<u>53.80</u>	<u>43.40</u>	<u>71.40</u>	<u>51.90</u>	<u>47.30</u>	<u>55.310</u>

C C C



# RAINFALL AT *Pewith Greystoke* 70

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. ....	4.00	3.57	3.92	8.54	5.02						
February. ....	4.06	2.81	5.43	1.29	1.73						
March. ....	1.05	2.94	2.60	2.03	2.99						
April. ....	.51	2.30	1.25	.43	2.38						
May. ....	1.06	1.19	1.89	1.66	1.43						
June. ....	2.41	3.27	3.23	1.75	1.33						
July. ....	.45	3.53	3.17	3.75	2.25						
August. ....	3.81	3.11	3.85	5.48	4.35						
September. ....	2.34	3.79	7.05	2.57	6.08						
October. ....	8.30	4.00	7.24	5.25	7.73						
November. ....	2.92	1.34	5.80	2.76	2.34						
December. ....	2.21	4.27	5.75	2.70	.78						
TOTALS. ....	33.12	36.12	51.18	38.21	38.41						

*Copied from the original register by T.G. Benn - 1840 sheet*

*1872 Sept. 2 Terrible T.S. none similar within memory of oldest inhabitant. (From original register)*

*Agrees with Mr S.A. Marshall's copy*



RAINFALL AT *The Licham Penwith*

Lat.....

Lon.....

County of *Cumberland*..........Rain Gauge, by..... Observer... *G. V. Smith*.....

Diameter.....			5								
Height .....			1 1								
Altitude.....			310		270	300		270			
Year .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....			# 15" 1.64	5.91	3.61	4.29	.91	4.69	2.99	.84	
February.....			4.67	.80	2.06	.61	2.51	2.60	1.39	1.80	
March.....			2.75	1.76	1.90	.89	3.27	2.35	1.45	2.07	
April.....			1.76	.30	1.74	.67	2.05	2.31	2.14	2.08	
May .....			1.87	1.14	1.82	1.52	1.35	1.69	3.85	1.82	
June.....			3.13	1.38	1.55	3.15	2.07	1.97	3.03	3.41	
July .....				2.76	1.91	4.04	1.89	4.51	.59	4.40	
August.....			3.74	3.62	5.44	2.28	3.52	6.77	3.58	3.41	
September.....			4.65	1.86	5.27	3.24	3.55	1.93	3.37	1.50	
October.....			5.56	3.49	5.14	2.60	2.87	4.10	3.54	1.15	
November.....			4.77	1.94	3.05	2.47	2.27	5.62	2.47	1.50	
December.....			3.59	1.36	2.36	2.21	3.63	2.68	2.43	1.80	
TOTALS .....				26.32	35.85	27.97	29.89	41.22	30.83	25.78	

1872 July. Observations not taken during Observer's absence

1877 Tree 25ft high and House 30ft high 30ft or more distant



RAINFALL AT *Penrith Edenhall*

Lat..... Lon..... County of *Cumberland*

..... Rain Gauge, by..... Observer *J. Bowstead Esq*

Diameter .....	.5										
Height .....											
Altitude .....											
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	3.45										
February .....	1.75										
March .....	1.00										
April.....	1.65										
May .....	2.15										
June.....	1.75										
July .....	.60										
August.....	3.35 <sup>#</sup>										
September.....											
October.....											
November.....											
December.....											
TOTALS .....											

C



# RAINFALL AT Penrith Fir Bank 70

Lat. ....

Lon. ....

County of

Cumberland

Rain Gauge, by

Observer

J. Lester

Diameter. ....											.5	
Height. ....											1	
Altitude. ....											575	
Year .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January .....											1.13	
February .....											2.03	
March .....											2.02	
April .....											1.45	
May .....											1.63	
June .....											3.14	
July .....											4.62	
August .....											3.52	
September ....											1.87	
October .....											1.12	
November ....											1.64	
December ....											2.38	
TOTALS ....											26.55	

S<sup>r</sup> Andrews  $\frac{1}{2}$  mile S.W.







RAINFALL AT *Blencowe School*

Lat.....

Lon.....

County of *Cumberland*

.....Rain Gauge, by.....

Observer *J. Fawcett Esq.*

Diameter .....			8								
Height .....			9								
Altitude .....			601								
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	#3.34	6.24	8.54	5.02	6.45	1.83	7.03	4.17	1.34		
February.....	2.81	5.55	1.29	2.85	.79	3.68	3.37	1.75	2.79		
March.....	2.94	2.47	2.03	3.25	1.27	4.71	2.94	2.20	3.31		
April.....	2.30	1.75	.47	2.29	.98	2.60	2.46	1.82	1.48		
May .....	1.19	1.95	1.66	1.77	2.35	1.02	2.70	4.01	2.00		
June.....	3.27	3.47	1.75	2.51	2.97	2.95	2.67	2.43	2.98		
July .....	3.53	3.24	3.78	2.35	3.95	2.39	4.69	.74	4.06		
August.....	3.11	3.46	5.48	6.88	2.63	4.81	6.23	4.25	4.34		
September.....	3.79	6.55	2.57	6.24	3.85	3.67	1.91	4.77	2.50		
October.....	4.00	7.32	5.25	7.33	3.90	2.70	5.62	4.58	1.63		
November.....	1.34	5.84	2.76	3.31	3.66	2.61	8.58	2.46	1.43		
December.....	4.27	4.38	2.70	2.89	3.07	5.29	3.86	2.75	2.63		
TOTALS .....	35.89	52.22	38.28	46.69	35.87	38.26	52.06	35.93	30.49		

1877 Hedge 3ft high 10ft distant from gauge S.W.

Greystoke church 1½ mile S.W.



# RAINFALL AT Maryport Wyndham Row

Lat.  $54^{\circ}41'N$  Lon.  $3^{\circ}30'W$  County of Cumberland

Rain Gauge, by Observer G. L. Wilson

Diameter . . . .							5	.	.	.	
Height . . . .							1.0	.	.	1.6	
Altitude . . . .							350	.	.		
Year . . . .	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January . . . .						#	2.18	7.93	3.75	1.19	
February . . . .							3.83	2.54	2.61	1.98	
March . . . . .							3.38	2.76	1.73	2.63	
April . . . . .							2.85	2.89	1.29	.67	
May . . . . .							.31	2.74	2.45	1.57	
June . . . . .							3.30	3.75	2.60	3.03	
July . . . . .							2.63	4.05	.38	5.01	
August . . . .							2.42	5.38	4.27	3.68	
September . .							5.63	2.75	4.82	4.75	
October . . . .							3.92	5.68	3.88	1.34	
November . .							2.86	8.28	1.96	1.69	
December . .							4.91	4.85	1.62	3.01	
TOTALS . .							38.22	53.60	31.36	30.55	

1876 Gauge about two miles from the one at  
 Risehow &  $2\frac{1}{2}$  from the one at Broughton gauge  
 The gauge is on a hill two miles from the sea



# RAINFALL AT *Maryport Risehow*

Lat: *3° 31' W*

Lat: *54° 42' N*

County of *Cumberland*

**70**

Rain Gauge, by

Observer

*G. S. Wilson*

Diameter . . .							.5	.	.	.	
Height . . . .							1.	.	.	.	
Altitude . . . .							50	.	.	.	
Year . . . .	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January . . . .							<i>#</i> 1.90	6.69	3.26	1.40	
February . . . .							3.23	2.83	2.30	2.29	
March . . . . .							2.51	1.35	1.12	2.03	
April . . . . .							2.60	2.46	1.29	.78	
May . . . . .							.10	2.82	1.90	<i>#</i>	
June . . . . .							3.63	2.54	2.35		
July . . . . .							2.59	3.67	.66		
August . . . .							3.55	5.05	4.08		
September . .							3.96	3.06	3.96		
October . . . .							3.67	4.29	3.45		
November . .							2.27	7.98	1.51		
December . .							4.77	4.32	1.95		
TOTALS . .							34.78	47.06	27.83		

*This gauge is close to the sea shore*

*1879 Gauge stolen*



RAINFALL AT *Maryport, Nether Hall*

Lat.....

Lon.....

County of.....

*Cumberland*

Rain Gauge, by.....

Observer.....

*H. P. Senhouse Esq.*

Diameter .....	. 8	.										
Height .....	. 6	.										
Altitude .....	27	.			27							
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....	3.86	2.64	4.42	6.37	4.10	3.09	1.64	7.07	3.40	.89	3.748	
February .....	2.71	2.75	3.17	.51	2.67	1.28	2.64	2.62	2.33	2.03	2.271	
March .....	1.68	2.28	2.91	3.28	2.13	.89	2.63	2.00	1.11	1.93	2.084	
April .....	1.50	2.72	2.13	.40	1.13	1.26	2.89	2.49	1.33	1.02	1.687	
May .....	2.65	.84	2.60	1.49	.98	1.82	.39	2.63	1.91	1.80	1.711	
June .....	2.20	1.50	4.57	1.79	1.18	3.20	3.57	2.77	3.36	2.09	2.631	
July .....	.86	2.52	4.37	1.62	2.48	2.96	2.15	4.00	.65	6.07	2.768	
August .....	1.94	2.70	3.26	4.70	6.91	3.14	3.30	5.08	4.11	3.04	3.818	
September.....	3.30	1.82	4.61	2.07	3.92	5.17	4.46	2.80	4.03	3.48	3.566	
October.....	5.69	3.40	7.19	2.69	7.14	2.44	3.34	5.04	3.30	1.40	4.163	
November.....	2.11	2.78	3.88	1.89	3.87	4.03	2.21	7.20	1.45	1.67	3.109	
December.....	-.64	4.02	4.05	1.51	2.02	2.70	4.65	3.95	1.95	2.28	2.777	
TOTALS.....	29.14	30.05	47.16	28.32	38.53	31.98	33.87	47.65	28.93	27.70	34.333	

1870 <sup>2</sup> Dec<sup>r</sup> has snow been measured,  $\frac{1}{2}$  on middle of Lawn  
 1871  $\frac{1}{2}$  on Lawn quite clear to the S & W  
 1878 Bushes 11 or 12 ft high 15 ft distant



RAINFALL AT *Nighton Brayton Hall*

Lat..... Lon..... County of *Cumberland*  
 ..... Rain Gauge, by..... Observer *W. Robert Elliott*  
*J. Hammond*

Diameter .....	.8										
Height .....	.5	1.6									
Altitude .....	220.										
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	4.03		6.25	7.76	5.00	3.40	1.90	7.00	2.85	1.60	
February .....	1.60		2.85	.75	2.86	1.20	2.95	2.60	2.13	2.20	
March .....	1.53		2.90	2.65	2.33	1.66	2.08	2.00	1.45	2.50	
April .....	1.50		1.79	.38	1.70	1.08	2.00	2.30	1.26	1.40	
May .....	3.27		2.05	1.68	1.16	1.40	.58	2.50	1.11	1.50	
June.....	1.93		5.16	1.80	.24	2.00	3.00	2.90	1.75	4.25	
July .....	1.80		3.92	3.60	2.66	2.25	2.90	4.00	.46	4.90	
August.....	2.80		2.85	5.20	5.45	3.50	4.40	6.92	4.20	4.10	
September.....	2.94		5.86	2.94	3.98	3.84	3.10	2.87	5.15	3.00	
October.....	<sup>+</sup> 6.50		6.84	5.27	6.86	3.40	4.50	5.20	4.00	1.90	
November.....	2.56		4.75	1.70	4.13	2.08	2.20	7.25	2.60	1.70	
December.....	3.66		4.15	1.50	2.30	3.00	5.70	3.75	2.40	3.20	
TOTALS .....	33.12		49.37	35.23	38.67	28.81	35.31	49.29	29.36	32.25	

Wall 12 ft high 50 ft from gauge at the nearest point



# RAINFALL AT Brookfield Wigton

Lat.....

Lon.....

County of..

Cumberland

.....Rain Gauge, by.....

Observer

M. Lidbetter Esq.

Diameter .....			5								
Height .....			9								
Altitude .....			124								
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....			4.80	6.82	4.32	3.65	1.38	7.35	3.41	1.29	
February.....			1.94	.49	2.58	1.02	3.23	3.04	1.78	2.11	
March.....			3.19	2.55	2.46	.98	3.30	2.78	1.24	2.43	
April.....			1.29	.39	1.85	1.07	2.67	2.35	2.10	1.16	
May .....			2.03	1.83	1.17	2.05	.82	2.35	1.82	1.93	
June.....			4.66	1.78	.44	2.65	2.23	2.65	2.39	3.64	
July .....			3.99	4.69	3.20	2.95	1.91	5.05	.38	4.78	
August.....			2.56	4.26	6.64	2.30	4.27	6.63	4.66	3.83	
September.....			6.64	3.41	4.44	4.43	3.84	2.38	3.92	3.10	
October.....			5.85	5.94	6.68	3.36	2.48	4.60	3.92	2.33	
November.....			3.67	2.33	4.19	3.49	2.06	6.35	2.18	1.60	
December.....			3.89	1.68	2.23	2.24	4.92	3.33	1.38	2.53	
TOTALS .....	(27.50)	(30.00)	44.51	36.17	40.20	30.19	33.11	48.86	29.18	30.73	(35.04)

1870+1871 estimated from Maryport Netherhall  
 & Silloth Rectory



# RAINFALL AT *Alston Love Lady Shield*

Lat. ....

Lon. ....

County of

*Cumberland*

Rain Gauge, by

Observer

*T. W. Dickinson &*

Diameter ....											
Height ....											
Altitude ....											
Year ....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January ....						6.01	1.99	6.84	4.90	1.04	
February ....						2.34	4.25	4.14	2.00	2.44	
March .....						1.21	5.44	5.02	2.40	3.03	
April .....						1.65	3.30	4.40	2.90	2.43	
May .....						3.23	2.31	3.66	4.54	1.99	
June .....						3.84	2.48	3.07	3.03	5.21	
July .....						4.94	2.16	5.20	2.10	6.41	
August ....						2.59	4.52	9.75	7.03	4.38	
September ..						4.24	5.64	3.01	4.71	2.04	
October ....						4.95	2.61	5.50	4.75	2.15	
November ..						7.54	4.25	7.15	5.14	2.86	
December ..						4.31	10.08	4.14	3.90	2.37	
TOTALS ..						46.85	49.03	61.88	47.40	36.35	

*78 Trees about 15 ft high & 20 yds distant W. & N.E.*

*Alston church 2 1/4 miles N.W.*



# RAINFALL AT Kirkoswald Renwick

70

Lat. ....

Lon. ....

County of Cumberland

Rain Gauge, by .....

Observer .....

Diameter . . . .							.5				
Height . . . .							.9				
Altitude . . . .							700				
Year . . . .	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January . . . .							(1.43)	5.01			
February. . .							# 3.07	4.02			
March . . . . .							3.29	3.13			
April . . . . .							3.91	3.12			
May . . . . .							1.85	2.17			
June . . . . .							2.90	2.55			
July . . . . .							2.39	4.92			
August . . . .							4.16	7.90			
September . .							4.00	2.32			
October . . . .							2.21	5.38			
November . .							3.01	6.35			
December . .							7.25	3.45			
TOTALS . .							(39.47)	50.32			

76 January amount computed



# RAINFALL AT *Carlisle Wreay Vicarage*

Lat. ....

Lon. ....

County of *Cumberland*

Rain Gauge, by

Observer

Diameter ....							.5	.	.	.	
Height ....							2.	.	.	.	
Altitude ....							310	.	.	.	
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 36 ft N.

" 4ft 6in " 42 " S.

Wreay church 125 yds NE ½ E.



RAINFALL AT *Silloth Rectory*

Lat..... Lon..... County of... *Cumberland* .....

..... Rain Gauge, by..... Observer *Rev J Redford M.A.*

Diameter .....	. 8	.	.	.	.	.	.	.	.	.	.
Height .....	3	.	.	.	.	.	.	.	.	.	.
Altitude .....	28	.	.	.	.	.	.	.	.	.	.
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	3.77	2.29	5.94	6.03	4.06	4.17	1.85	6.41	3.24	1.53	3.929
February .....	1.98	2.66	3.02	.74	2.04	1.02	3.88	2.68	2.39	2.39	2.280
March .....	1.01	1.75	2.68	2.32	1.98	.92	3.18	1.97	1.07	2.32	1.920
April.....	1.06	3.29	1.31	.16	1.26	1.09	2.42	2.23	2.24	1.14	1.620
May .....	2.63	.85	2.23	1.93	1.04	1.41	.58	2.67	2.09	2.07	1.750
June.....	2.01	1.23	4.66	1.93	.71	2.54	2.95	2.20	1.90	6.33	2.646
July .....	.82	3.28	4.61	3.93	2.96	2.07	2.02	4.90	.67	4.71	2.937
August.....	.85	2.97	3.01	4.76	5.62	2.10	3.88	6.64	4.66	3.89	3.838
September.....	3.26	2.58	6.52	2.35	3.93	4.48	3.32	2.05	3.96	4.23	3.668
October.....	4.66	3.46	6.02	6.82	6.51	3.23	3.22	5.54	2.90	2.19	4.453
November.....	3.51	2.34	3.30	1.61	3.43	3.29	2.90	6.70	1.58	1.54	3.020
December.....	1.62	3.94	3.21	1.16	2.47	2.50	4.76	3.70	2.56	3.24	2.916
TOTALS .....	27.18	30.64	45.91	33.74	36.01	28.82	34.96	47.69	29.26	35.58	34.979



RAINFALL AT *Carlisle Cemetery*Lat. *54° 52' 56" N*Lon. *2° 57' 02" W*County of *Cumberland*

Rain Gauge, by.....

Observer

*Mr J. Cameron**1871 J. Bell*

Diameter .....	.8	.	.	.	.	.	.	.	.	.	.
Height .....	.8	.	.	.	.	.	.	.	4	.	.
Altitude .....	<i>114</i>	.	<i>114</i>	<i>π</i>	.	.	.	.	.	.	.
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEAN.
January.....	<i>3.09</i>	<i>1.56</i>	<i>3.52</i>	<i>4.44</i>	<i>3.36</i>	<i>3.81</i>	<i>1.00</i>	<i>5.23</i>	<i>3.00</i>	<i>1.18</i>	<i>3.019</i>
February .....	<i>1.66</i>	<i>1.81</i>	<i>2.42</i>	<i>.60</i>	<i>2.37</i>	<i>.71</i>	<i>3.17</i>	<i>2.64</i>	<i>1.81</i>	<i>1.20</i>	<i>1.839</i>
March .....	<i>1.61</i>	<i>1.14</i>	<i>2.89</i>	<i>1.90</i>	<i>2.14</i>	<i>.72</i>	<i>3.26</i>	<i>2.20</i>	<i>1.22</i>	<i>1.36</i>	<i>1.744</i>
April.....	<i>.87</i>	<i>2.41</i>	<i>1.28</i>	<i>.40</i>	<i>1.13</i>	<i>.75</i>	<i>2.63</i>	<i>2.01</i>	<i>2.87</i>	<i>1.42</i>	<i>1.577</i>
May .....	<i>1.66</i>	<i>1.30</i>	<i>2.24</i>	<i>1.96</i>	<i>1.38</i>	<i>1.53</i>	<i>1.21</i>	<i>2.09</i>	<i>2.39</i>	<i>2.10</i>	<i>1.786</i>
June.....	<i>1.76</i>	<i>2.90</i>	<i>4.05</i>	<i>1.61</i>	<i>1.11</i>	<i>2.51</i>	<i>2.48</i>	<i>2.27</i>	<i>3.02</i>	<i>3.20</i>	<i>2.491</i>
July .....	<i>91</i>	<i>3.94</i>	<i>3.80</i>	<i>5.09</i>	<i>2.40</i>	<i>4.03</i>	<i>2.50</i>	<i>5.38</i>	<i>.94</i>	<i>4.86</i>	<i>3.385</i>
August.....	<i>3.33</i>	<i>2.87</i>	<i>3.50</i>	<i>4.35</i>	<i>6.95</i>	<i>2.14</i>	<i>3.17</i>	<i>7.39</i>	<i>4.00</i>	<i>4.13</i>	<i>4.183</i>
September.....	<i>1.79</i>	<i>2.39</i>	<i>4.74</i>	<i>2.47</i>	<i>4.01</i>	<i>3.61</i>	<i>3.14</i>	<i>2.23</i>	<i>4.15</i>	<i>2.40</i>	<i>3.093</i>
October.....	<i>4.71</i>	<i>2.99</i>	<i>4.16</i>	<i>4.57</i>	<i>5.12</i>	<i>3.59</i>	<i>2.64</i>	<i>4.02</i>	<i>3.19</i>	<i>1.77</i>	<i>3.676</i>
November.....	<i>2.06</i>	<i>1.70</i>	<i>2.43</i>	<i>1.81</i>	<i>3.65</i>	<i>2.83</i>	<i>2.23</i>	<i>6.04</i>	<i>1.57</i>	<i>1.10</i>	<i>2.542</i>
December.....	<i>.83</i>	<i>3.11</i>	<i>2.60</i>	<i>1.17</i>	<i>2.11</i>	<i>1.80</i>	<i>4.27</i>	<i>3.13</i>	<i>1.52</i>	<i>1.47</i>	<i>2.201</i>
TOTALS .....	<i>23.28</i>	<i>28.12</i>	<i>37.63</i>	<i>30.37</i>	<i>35.73</i>	<i>28.03</i>	<i>31.70</i>	<i>44.63</i>	<i>29.68</i>	<i>26.19</i>	<i>31.536</i>



RAINFALL AT *Carlisle, Scotby*

Lat..... Lon..... County of... *Cumberland*  
..... Rain Gauge, by..... Observer *J. E. Sutton Esq.*

Diameter .....		. 8					.	.	.	.	
Height .....		5. 5					5.	.	.	.	
Altitude .....		70.	140 <sup>π</sup>				.	.	.	.	
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....		1.67	2.89	4.56	2.96	3.44	.62	5.32	3.13	2.64	
February .....		1.32	1.98	.35	2.00	.81	3.11	2.57	1.45	1.75	
March .....		.92	2.69	1.65	1.84	.51	3.59	1.77	1.21	1.44	
April .....		2.18	2.41	.18	.73	.55	2.63	1.03	1.52	1.69	
May .....		1.17	1.94	1.75	1.48	1.31	.95	1.77	2.86	1.97	
June .....		4.42	1.92	1.32	.97	2.18	2.18	2.53	2.67	3.83	
July .....		3.40	3.77	5.07	1.65	3.67	2.54	4.00	1.56	5.05	
August.....		3.79	2.82	3.92	6.47	2.16	3.31	6.91	4.98	3.58	
September.....		1.44	4.61	2.16	3.19	2.17	2.75	1.72	3.67	2.46	
October.....		3.08	5.94	4.43	4.77	3.22	2.28	3.74	3.21	1.58	
November.....		1.41	4.01	.95	3.00	2.99	2.08	6.23	1.28	1.42	
December.....		2.83	4.45	.77	2.30	1.97	4.11	3.14	1.54	1.81	
TOTALS .....		27.63	39.43	27.11	31.36	24.98	30.15	40.73	29.08	29.22	

C C



RAINFALL AT *Carlisle Bunkers Hill*

Lat. *54° 43' 33" N*

Lon. *2° 57' 30"*

County of *Cumberland*

Rain Gauge, by..... Observer *J Barnes Esq. M.D.*

Diameter .....	<i>1.0</i>	.										
Height .....	<i>6.0</i>	.										
Altitude .....	<i>184.0</i>	.										
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....	<i>2.67</i>	<i>1.67</i>										
February .....	<i>1.70</i>	<i>1.36</i>										
March .....	<i>.47</i>	<i>.97</i>										
April.....	<i>1.00</i>	<i>2.18</i>										
May .....	<i>1.35</i>	<i>1.12</i>										
June.....	<i>1.63</i>	<i>2.27</i>										
July .....	<i>.86</i>	<i>3.31</i>										
August.....	<i>2.33</i>	<i>2.31</i>										
September.....	<i>1.44</i>	<i>1.82</i>										
October.....	<i>3.87</i>	<i>2.25</i>										
November.....	<i>2.21</i>	<i>1.77</i>										
December.....	<i>.97</i>	<i>2.55</i>										
TOTALS .....	<i>20.50</i>	<i>23.58</i>										

*C C*



# RAINFALL AT *Carlisle* *Scotby*

70

Lat. ....

Lon. ....

County of *Cumberland*

Rain Gauge, by .....

Observer *A. Sutton*

Diameter....						4		4			
Height ....						9					
Altitude ....						140					
Year ....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January ....						3.65		5.24			
February...						.93		2.55			
March .....						.55		1.75			
April .....						.65		1.00			
May .....						1.49		1.88			
June .....						2.35		2.76			
July.....						3.75		4.25			
August ....						2.24		7.07			
September ..						2.21		1.80			
October ....						3.14		4.09			
November ..						2.96		6.29			
December ..						2.05		3.13			
TOTALS ..						25.97		41.81			

76 NR

1014



# RAINFALL AT Carlisle English Sheet 70

Lat.....

Lon.....

County of.....

Cumberland

Rain Gauge, by.....

Observer...

M. J. A. Wheatley

Diameter.....				5							
Height .....				54.0							
Altitude.....				138							
Year .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....					2.90						
February.....					2.26						
March.....					1.60						
April.....					1.11						
May .....					1.00						
June.....					.87						
July .....					2.02						
August.....					6.05						
September.....				3.30	2.22						
October.....				4.08	4.96						
November.....				1.26	3.26						
December.....				1.29	1.94						
TOTALS .....					30.19						

1874 G: "On the top of the highest house in the most elevated part of the city and on a level with the chimney pots."



RAINFALL AT Carlisle, Rose Castle 70

Lat. \_\_\_\_\_ Lon. \_\_\_\_\_ County of Cumberland  
Rain Gauge, by \_\_\_\_\_ Observer W. S. Foster

Diameter. ....											
Height. ....											
Altitude. ....										114	
Year .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January. ....											
February. ....											
March. ....											
April. ....											
May. ....											
June. ....											
July. ....											
August. ....											
September. ....											
October. ....											
November. ....											
December. ....											
TOTALS. ....										29.33	

'79 from Hord's First Rept.



# RAINFALL AT *Kirkcandrew-on-Eden*

70

Lat. ....

Lon. ....

County of *Cumberland*

Rain Gauge, by .....

Observer *M E Graydon Esq*

Diameter, ...							5	.	.		
Height ....						7	.	.			
Altitude ....											
Year ....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January ....						(3.89)	1.30	6.01	3.47		
February ....						# .88	3.54	2.91	2.08		
March .....						.70	3.76	2.06	1.39		
April .....						.75	3.05	1.93	2.71		
May .....						1.82	.91	2.25	2.96		
June .....						2.85	2.68	2.61	3.34		
July .....						3.19	2.49	5.18	.57		
August ....						1.84	3.18	7.40	4.91		
September ..						4.09	3.16	2.60	4.14		
October ....						3.64	3.00	5.06	2.87		
November ..						3.09	2.44	5.87	1.32		
December ..						2.06	4.71	3.52	1.76	#	
TOTALS ..						(28.80)	34.22	47.40	31.52		

1875 January amount computed by differentiation  
76 The gauge is a little sheltered from S.W.



RAINFALL AT Carlisle, Castletown

70

Lat. \_\_\_\_\_ Lon. \_\_\_\_\_ County of Cumberland  
Rain Gauge, by \_\_\_\_\_ Observer W. A. Smith

Diameter. ....	5										
Height. ....	1.6										
Altitude. ....											
Year .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	3.53	1.60	4.53	5.76	4.00	4.29	1.18	5.41	2.79	1.60	3.469
February. ....	1.35	2.54	3.01	4.0	3.14	.85	3.76	2.77	1.51	1.95	2.128
March.....	1.19	1.11	3.15	2.09	3.20	.80	3.79	1.44	1.03	1.73	1.953
April .....	.82	2.86	.90	.18	1.72	.68	2.79	2.05	2.01	1.42	1.543
May.....	2.19	1.12	1.87	1.85	1.29	1.21	.52	1.84	3.05	1.21	1.615
June .....	2.94	3.19	4.90	1.41	.43	2.42	.75	2.84	3.48	4.68	2.704
July.....	1.25	4.54	3.95	5.32	2.59	2.84	1.87	4.92	.25	5.52	3.305
August .....	2.49	2.65	2.50	3.77	6.50	1.70	3.48	7.00	4.10	3.98	3.817
September....	2.35	2.17	4.79	3.31	4.01	5.36	2.77	2.15	4.84	3.06	3.481
October.....	6.75	3.80	5.09	6.70	7.14	3.41	2.71	4.65	2.85	1.95	4.505
November....	2.33	1.50	2.67	1.20	4.74	2.92	2.33	3.88	.97	.72	2.326
December ....	.98	3.89	3.41	.74	2.27	1.77	4.17	2.90	.35	1.41	2.189
TOTALS .....	28.17	30.97	40.77	32.73	41.03	28.25	30.12	41.85	27.23	29.23	33.035

First Rpt gives '77 43.87 ; '79 29.33  
aver. 31.54



# RAINFALL AT Stapleton Westfield House

70

Lat. ....

Lon. ....

County of

Cumberland

Rain Gauge, by

Observer

L. H. Walker Esq

Diameter ....								.5	.	.	
Height ....								1.	.	.	
Altitude ....								397		400	
Year ....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January ....								# 6.24	4.20	2.30	
February ....								8.57	.91	3.40	
March .....								3.45	4.12	2.60	
April .....								2.10		1.06	
May .....								2.12		3.20	
June .....								1.60		3.40	
July .....								6.73	1.20	6.15	
August ....								7.50	4.40	4.60	
September ..								2.83	4.42	5.12	
October ....								6.37	3.20	2.10	
November ..								7.85	2.00	2.30	
December ..								4.75	2.30	2.55	
TOTALS ..								60.11		38.78	

1877 Hedge 5ft high & 10 yds distant house 20 yds distant  
1878 April - June record lost.

St Mary's church Stapleton 3 miles E.S.E.

2  
ce  
as  
877  
2d.



# RAINFALL AT *Carlisle Scaleby Hall* **70**

Lat. \_\_\_\_\_ Lon. \_\_\_\_\_ County of *Cumberland*  
Rain Gauge, by \_\_\_\_\_ Observer *R. a. allison*

Diameter....							.6		.5		
Height ....							1				
Altitude ....							112				
Year ....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January ....								6.21	3.56	1.54	
February ....								2.67	2.15	2.78	
March .....								1.92	1.22	1.95	
April .....								1.91	2.63	1.13	
May .....								1.53	3.00	1.98	
June .....								2.44	3.13	4.40	
July .....								3.85	.99	5.29	
August ....								7.39	4.96	3.38	
September ..								2.18	3.97	3.14	
October ....								5.53	3.22	1.69	
November ..							#	5.71	1.49	1.57	
December ..								3.97	1.38	1.87	
TOTALS ..							29.38	34.92	45.31	31.70	30.72

*old gauge*  
Position selected by *M<sup>r</sup> Lynnes* Oct<sup>r</sup> 18<sup>th</sup> 1876



# RAINFALL AT Carlisle Scaleby Hall

70

Lat.....

Lon.....

County of.....

Cumberland

Rain Gauge, by.....

Observer

B. A. Allison Esq.

Diameter .....	5	.	.	.	.	.	.	.	.	.	.
Height .....	1	1	.	.	.	.	.	.	.	.	.
Altitude .....	100	112.0	.	112	.	.	.	.	.	.	.
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	3.81	1.72	4.95	5.73	4.00	4.23	1.36	6.29	3.82	1.54	
February .....	2.27	2.54	2.90	.53	2.55	.97	3.86	2.65	2.21	2.78	
March .....	7.06	1.33	2.71	2.07	2.50	.69	3.78	1.99	1.49	1.95	
April.....	1.30	3.23	1.36	.36	1.29	.96	2.97	1.95	2.92	1.13	
May .....	2.61	1.16	2.67	2.30	1.58	1.70	1.11	1.56	3.18	1.98	
June.....	2.35	2.94	3.37	1.38	1.70	2.78	3.93	2.47	3.22	4.40	
July .....	7.06	3.92	4.63	7.09	2.87	3.73	2.62	3.85	1.00	5.29	
August.....	1.49	2.27	2.37	6.01	6.65	2.13	2.27	7.34	4.93	3.38	
September.....	2.28	2.07	4.68	3.53	4.25	3.69	3.35	2.16	4.01	3.14	
October.....	5.00	3.83	5.34	4.64	5.63	3.19	2.80	5.65	3.21	1.69	
November.....	2.25	1.61	2.91	1.87	4.85	3.36	2.13	5.83	1.49	1.57	
December.....	1.41	3.75	4.13	1.11	2.64	1.95	4.74	4.04	1.39	1.87	
TOTALS .....	26.89	30.37	42.02	36.62	40.51	29.38	34.92	45.78	(32.87)	30.72	35.008

1871 June 18<sup>th</sup> .60 fell in 3 hours in the afternoon

1876 A new gauge 5 in Casella certified (G. J. S.) was placed in its position on Nov<sup>r</sup> 1<sup>st</sup> and has been kept since then along with the old gauge: the old one however has been used alone for the purposes of this return, In 1877 the new one will be used but the contents of the old one will be recorded for comparison

1878 Up to the end of June there was a slight flaw in the copper receiver which allowed some external rain to get in in windy weather.

Scaleby church 700 yds W.



# RAINFALL AT Brampton Croft House 70

Lat.....

Lon.....

County of... Cumberland...

Rain Gauge, by..... Observer... F. Minton Haines

Diameter.....					.5						
Height .....					1.1						
Altitude.....					370						
Year.....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....						3.23					
February.....						1.49					
March.....						1.31					
April.....						.80					
May .....						1.83					
June.....					#	.82	3.12				
July .....						1.89	4.53				
August.....						7.18	2.42				
September....						5.55	4.32				
October.....						6.06	2.77				
November....						4.55	4.03				
December.....						2.09	2.86	#			
TOTALS .....						28.14	32.71				

1874 The account for Dec<sup>r</sup> cannot be accurately filled in From beginning to the end of the month snow & very severe frost continued. The gauge was frozen almost every night and the opening at the top was filled in a moment whenever a sharp snow or hail shower set in Rain fell twice on the 16<sup>th</sup> & 21<sup>st</sup> but in each case it only served to cover with ice the snow collected in the earlier part of the day The figures I give for the month represent the result from melting the snow and marking it as rain.



# RAINFALL AT *Kirkandrews-on-Esk* 70

Lat..... Lon..... County of... *Cumberland*  
 ..... Rain Gauge, by..... Observer... *Rev<sup>d</sup> F. Taylor*

Diameter.....					5						
Height .....					6						
Altitude.....					100						
Year.....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....					3.24	6.34	1.72	6.54	4.37	1.80	
February.....					2.88	1.21	5.21	3.44	3.31	3.22	
March.....					3.01	1.17	3.82	2.75	1.77	2.40	
April.....					1.95	.95	2.53	2.62	2.19	1.42	
May .....					1.66	3.77	.83	2.04	3.77	2.45	
June.....					1.14	4.17	3.07	3.52	2.88	5.04	
July .....					3.10	3.00	2.51	5.14	.78	5.07	
August.....					6.84	3.32	2.72	7.75	3.94	4.44	
September.....					4.42	5.61	4.02	2.82	4.52	4.90	
October.....					6.34	3.68	3.35	7.29	2.81	1.78	
November.....					4.15	6.19	2.57	6.57	1.54	1.37	
December.....					3.31	2.02	6.13	3.82	1.63	1.87	
TOTALS.....					42.04	41.43	38.48	54.30	33.51	35.76	

1877 Shrubs not exceeding 6ft in height fully 127d distant

1879 Shrubs 3ft high 18ft W.

Trees 10 " " 30. W.

House 90. N.

Kirkandrews on Esk church 7 mile N.E.