

# RAINFALL AT *Arnside*

80

Lat. ....

Lon. ....

County of *Westmorland*

Rain Gauge, by .....

Observer .....

*J. P. Drewett*

*Kent - 3.*

Diameter ....					5						
Height .....					6						
Altitude ....					25 L				20		
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....					(7.50)	2.68	5.25	3.26	2.65	3.20	
February ....					4.11	4.95	1.99	2.54	1.10	2.96	
March .....					4.02	3.77	4.64	2.56	3.01	3.48	
April .....					1.27	3.78	3.73	2.09	1.74	2.76	
May .....					3.38	1.99	4.94	1.89	1.93	4.72	
June .....					.71	2.42	2.00	.53	2.01	1.07	
July .. ...					6.68	3.75	7.50	1.96	7.49	3.51	
August .....					1.57	3.79	2.70	2.02	3.38	5.77	
September....					4.03	5.92	7.80	4.67	1.67	2.68	
October ....					4.23	4.67	7.40	2.11	4.68	5.17	
November ....					1.83	3.80	5.53	2.96	5.27	2.26	
December ....					5.84	2.06	4.41	3.84	3.49	3.83	
TOTALS ....					(45.17)	43.58	57.89	30.43	38.42	41.41	

*Arnside Church 400 yards E.*

*1884 Jan Est? rough. 29. vi. 15 453.*



RAINFALL AT *Witherslack Halecote*

80

Lat. .... Lon. .... County of *Westmoreland*  
Rain Gauge, by .... Observer *Rev J. Elgoss*

*Kent - 3*

Diameter ....									5		
Height .....									1.0		
Altitude ....									100 T		
Year.....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....									2.70	4.24	
February ....									.95	3.41	
March .....									3.09	3.70	
April .....									1.80	2.93	
May .....									1.88	3.88	
June .....									1.98	1.11	
July .. .....									7.91	3.51	
August .....									3.71	6.14	
September....									1.89	2.83	
October ....									4.96	5.24	
November....									6.34	2.58	
December ....									5.16	4.93	
TOTALS ....									42.37	44.50	

*1888 Witherslack Church 1/4 mile N*  
*House 25 feet high 90 feet N*



RAINFALL AT *Milnthorpe Beathwaite Levens*

Lat. .... Lon. .... County of *Westmoreland*

*Kent - 3.* Rain Gauge, by .... Observer *W. H. Crawford Esq*

Diameter ....										5	
Height .....										1 3	
Altitude ....										120	
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January ....									5.23	6.79	
February ....									4.69	3.46	
March .....									1.42	2.91	
April .....									3.88	4.59	
May .....									2.60	4.43	
June .....									3.13	1.92	
July .....									.81	2.88	
August .....									8.32	3.12	
September....									2.87	5.04	
October .....									4.91	3.93	
November....									5.18	4.62	
December ....									6.86	3.49	
TOTALS ...									49.90	47.18	

*1898 Levens Church 500 yards S.S.E.*



# RAINFALL AT Kendal Natland Park

80

Lat. ....

Lon. ....

County of Westmoreland

Rain Gauge, by .....

Observer A. J. Shipley Esq

Kent - 3

Diameter ....									5		
Height .....									1.0		
Altitude ....									160 T		
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....									# 2.81	4.67	
February ....									.73	3.56	
March .....									3.44	3.50	
April .....									2.82	2.09	
May .....									2.15	3.30	
June .....									2.20	.93	
July .. ...									6.31	3.36	
August .....									3.92	5.64	
September....									1.59	2.42	
October ....									5.87	5.58	
November....									6.73	3.81	
December ....									5.31	4.57	
* TOTALS ....									43.88	43.43	

1888 Natland Church 1/3 of a mile S + E  
Wall 5 ft 2 in high 14 ft 4 in N E



# RAINFALL AT Kendal Hill Top

80

Lat. ....

Lon. ....

County of Westmoreland

Rain Gauge, by .....

Observer C. J. Holdsworth Esq

Kent - 3

Diameter . . .											5	
Height . . . . .											1.0	
Altitude . . . .											560 B	
Year . . . . .	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January . . . .										# 4.18		
February . . . .										3.53		
March . . . . .										3.85		
April . . . . .										2.11		
May . . . . .										4.38		
June . . . . .										.58		
July . . . . .										3.51		
August . . . . .										6.08		
September . . . .										2.37		
October . . . . .										5.71		
November . . . .										3.20		
December . . . .										4.68		
TOTALS . . . .										44.18		

Kendal Church 3 miles W  
Sundial 4 ft high 9 ft NW



# RAINFALL AT *Kendal, Kent-Town*

Lat. ....

Lon. ....

County of *Westmoreland*

Rain Gauge, by .....

Observer *R. L. Nelson, Esq.*

*Kent - 3*

Diameter ....	<i>5</i>										
Height .....	<i>1.6</i>										
Altitude ....	<i>146 T</i>										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	<i>.80</i>	<i>.46</i>	<i>4.11</i>	<i>8.76</i>	<i>8.07</i>	<i>3.31</i>	<i>5.45</i>	<i>3.97</i>	<i>2.92</i>	<i>4.74</i>	<i>4.259</i>
February ....	<i>4.27</i>	<i>5.31</i>	<i>5.42</i>	<i>3.21</i>	<i>3.57</i>	<i>6.03</i>	<i>1.63</i>	<i>2.64</i>	<i>.95</i>	<i>3.62</i>	<i>3.659</i>
March .....	<i>3.30</i>	<i>6.80</i>	<i>5.49</i>	<i>1.64</i>	<i>3.93</i>	<i>5.22</i>	<i>5.86</i>	<i>1.96</i>	<i>3.42</i>	<i>3.37</i>	<i>4.099</i>
April .....	<i>1.78</i>	<i>2.29</i>	<i>4.49</i>	<i>2.11</i>	<i>1.23</i>	<i>2.84</i>	<i>3.88</i>	<i>3.07</i>	<i>2.25</i>	<i>2.10</i>	<i>2.598</i>
May .....	<i>1.97</i>	<i>4.76</i>	<i>2.94</i>	<i>2.50</i>	<i>4.00</i>	<i>2.40</i>	<i>5.57</i>	<i>1.55</i>	<i>2.41</i>	<i>4.00</i>	<i>3.210</i>
June .....	<i>4.45</i>	<i>5.00</i>	<i>5.35</i>	<i>4.91</i>	<i>.87</i>	<i>2.43</i>	<i>1.89</i>	<i>.31</i>	<i>2.35</i>	<i>.79</i>	<i>2.835</i>
July .....	<i>6.69</i>	<i>7.12</i>	<i>8.28</i>	<i>2.09</i>	<i>4.01</i>	<i>3.88</i>	<i>6.15</i>	<i>2.90</i>	<i>6.26</i>	<i>3.57</i>	<i>5.095</i>
August .....	<i>1.37</i>	<i>7.56</i>	<i>4.49</i>	<i>4.45</i>	<i>1.17</i>	<i>3.33</i>	<i>2.48</i>	<i>2.08</i>	<i>4.16</i>	<i>5.09</i>	<i>3.618</i>
September ....	<i>4.53</i>	<i>3.05</i>	<i>3.37</i>	<i>4.40</i>	<i>4.53</i>	<i>5.58</i>	<i>6.98</i>	<i>4.05</i>	<i>1.61</i>	<i>2.23</i>	<i>4.033</i>
October .....	<i>1.25</i>	<i>3.05</i>	<i>3.67</i>	<i>5.98</i>	<i>3.36</i>	<i>4.20</i>	<i>7.49</i>	<i>2.23</i>	<i>5.81</i>	<i>6.00</i>	<i>4.304</i>
November ....	<i>7.80</i>	<i>7.41</i>	<i>7.35</i>	<i>6.86</i>	<i>2.40</i>	<i>3.81</i>	<i>5.38</i>	<i>3.23</i>	<i>5.54</i>	<i>3.18</i>	<i>5.296</i>
December ....	<i>6.85</i>	<i>6.96</i>	<i>4.86</i>	<i>4.60</i>	<i>7.39</i>	<i>2.80</i>	<i>6.22</i>	<i>4.44</i>	<i>5.36</i>	<i>4.46</i>	<i>5.394</i>
TOTALS ....	<i>45.06</i>	<i>59.77</i>	<i>59.82</i>	<i>51.51</i>	<i>44.47</i>	<i>45.83</i>	<i>58.98</i>	<i>32.37</i>	<i>43.04</i>	<i>43.15</i>	<i>48.400</i>

*1881. St. George's Church 400 yards N.*

*1882 " " 500 yards NW*

*Stone Wall 4 ft high 8 ft N*

*1884 Gauge moved about 400 yards to Ivy Garth*

*Kyol Sta No. 45-585681*

*NGR: SD (34) 513928*

*alt 44m*



RAINFALL AT

Kendal St. Georges Vicarage

80

Lat. ....

Lon. ....

County of Westmoreland

Rain Gauge, by

Observer Rev G. Grewdson

Kent - 3

Diameter . . .								5		5	
Height . . . . .								8		- 8	
Altitude . . . .											
Year . . . . .	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January . . . .								4.35	3.05	4.52	
February . . . .								2.77	.90	3.79	
March . . . . .								2.04	3.47	3.54	
April . . . . .								3.09	2.26	2.33	
May . . . . .								1.65	2.47	4.31	
June . . . . .								.37	2.25	.88	
July . . . . .								2.94	6.55	3.83	
August . . . . .								1.99	4.06	5.81	
September . . .								4.20	1.79	2.19	
October . . . . .								2.36	6.03	5.94	
November . . . .								3.40	5.75	3.24	
December . . . .								4.18	5.67	4.59	
TOTALS . . . .								33.34	44.25	44.97	

St Georges Church 400 yards WSW

Trees 24 ft high 27 ft ESE

" 12 " " 21 " NNW



RAINFALL AT *Kendal, Underfell*

80

Lat. .... Lon. .... County of *Westmoreland*

*No. 1* Rain Gauge, by ..... Observer *F. Wilson, Esq.*

*Kent - 3*

Diameter .....	<i>8</i>										
Height .....	<i>4.0</i>	<i>3.0</i>	<i>3.7</i>								
Altitude .....	<i>300 B</i>										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January .....	<i>.75</i>	<i>.54</i>	<i>4.23</i>	<i>8.20</i>	<i>7.58</i>	<i>3.12</i>	<i>5.16</i>	<i>4.01</i>			
February .....	<i>3.90</i>	<i>5.28</i>	<i>5.87</i>	<i>2.74</i>	<i>3.59</i>	<i>5.54</i>	<i>1.87</i>	<i>2.55</i>			
March .....	<i>3.06</i>	<i>6.02</i>	<i>5.22</i>	<i>1.03</i>	<i>3.33</i>	<i>4.57</i>	<i>6.73</i>	<i>1.74</i>			
April .....	<i>1.87</i>	<i>2.25</i>	<i>4.77</i>	<i>2.28</i>	<i>1.11</i>	<i>2.70</i>	<i>3.64</i>	<i>2.82</i>			
May .....	<i>2.03</i>	<i>4.66</i>	<i>3.00</i>	<i>2.42</i>	<i>3.58</i>	<i>2.23</i>	<i>5.11</i>	<i>1.64</i>			
June .....	<i>4.96</i>	<i>4.72</i>	<i>5.25</i>	<i>4.48</i>	<i>1.26</i>	<i>2.43</i>	<i>1.93</i>	<i>.29</i>			
July .....	<i>6.84</i>	<i>7.10</i>	<i>8.10</i>	<i>1.92</i>	<i>4.76</i>	<i>3.96</i>	<i>6.69</i>	<i>2.64</i>			
August .....	<i>1.42</i>	<i>7.78</i>	<i>4.90</i>	<i>4.51</i>	<i>1.04</i>	<i>3.37</i>	<i>4.34</i>	<i>2.23</i>			
September .....	<i>4.65</i>	<i>3.07</i>	<i>4.11</i>	<i>4.14</i>	<i>4.33</i>	<i>6.00</i>	<i>7.54</i>	<i>3.95</i>			
October .....	<i>1.08</i>	<i>2.92</i>	<i>3.45</i>	<i>5.82</i>	<i>3.47</i>	<i>4.02</i>	<i>7.35</i>	<i>2.06</i>			
November .....	<i>6.27</i>	<i>7.38</i>	<i>8.52</i>	<i>6.39</i>	<i>2.11</i>	<i>3.61</i>	<i>5.33</i>	<i>2.85</i>			
December .....	<i>5.55</i>	<i>6.19</i>	<i>4.89</i>	<i>4.33</i>	<i>6.92</i>	<i>2.51</i>	<i>5.86</i>	<i>3.94</i>			
TOTALS .....	<i>42.38</i>	<i>57.91</i>	<i>62.31</i>	<i>48.26</i>	<i>43.08</i>	<i>44.06</i>	<i>61.55</i>	<i>30.72</i>			

*1884* *Kendal Church 1 mile E.S.E.*

*Gauge worn out*



# RAINFALL AT *Kendal Underfell* 80

Lat. ....

Lon. ....

County of *Westmorland*

*No 2* Rain Gauge, by .....

Observer *F. Wilson, Esq.*

*Kent - 3*

Diameter ....	<i>8</i>										
Height .....	<i>1.0</i>										
Altitude ....	<i>300 B</i>										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	<i>.85</i>	<i>.61</i>		<i>9.08</i>	<i>7.54</i>	<i>3.60</i>	<i>5.43</i>	<i>4.22</i>	<i>3.27</i>		
February ....	<i>4.34</i>	<i>5.80</i>		<i>3.11</i>	<i>3.91</i>	<i>6.30</i>	<i>1.84</i>	<i>2.83</i>	<i>1.10</i>		
March .....	<i>3.29</i>	<i>6.49</i>		<i>1.06</i>	<i>3.55</i>	<i>5.06</i>	<i>5.63</i>	<i>2.01</i>	<i>3.23</i>		
April .....	<i>2.10</i>	<i>2.42</i>		<i>2.31</i>	<i>1.25</i>	<i>3.00</i>	<i>3.55</i>	<i>3.11</i>	<i>2.71</i>		
May .....	<i>2.16</i>	<i>5.10</i>		<i>2.65</i>	<i>3.97</i>	<i>2.52</i>	<i>5.19</i>	<i>1.78</i>	<i>2.41</i>		
June .....	<i>5.11</i>	<i>5.24</i>		<i>4.60</i>	<i>1.39</i>	<i>2.67</i>	<i>1.84</i>	<i>.32</i>	<i>2.25</i>		
July .....	<i>7.06</i>	<i>7.35</i>		<i>2.10</i>	<i>5.32</i>	<i>4.26</i>	<i>6.83</i>	<i>2.83</i>	<i>6.72</i>		
August .....	<i>1.47</i>	<i>7.91</i>		<i>4.74</i>	<i>1.17</i>	<i>3.54</i>	<i>(4.73)</i>	<i>2.36</i>	<i>3.70</i>		
September ....	<i>4.85</i>	<i>3.18</i>		<i>4.37</i>	<i>4.82</i>	<i>6.61</i>	<i>7.00</i>	<i>4.25</i>	<i>1.67</i>		
October .....	<i>1.14</i>	<i>2.99</i>		<i>6.13</i>	<i>3.83</i>	<i>4.61</i>	<i>6.47</i>	<i>2.26</i>	<i>4.97</i>		
November ....	<i>7.19</i>	<i>8.34</i>		<i>7.18</i>	<i>2.44</i>	<i>3.97</i>	<i>5.61</i>	<i>3.22</i>	<i>5.91</i>		
December ....	<i>6.11</i>	<i>6.72</i>		<i>4.74</i>	<i>7.66</i>	<i>2.72</i>	<i>6.13</i>	<i>4.34</i>	<i>5.46</i>		
TOTALS ....	<i>45.67</i>	<i>62.15</i>		<i>52.07</i>	<i>46.85</i>	<i>48.86</i>	<i>(60.25)</i>	<i>33.53</i>	<i>43.40</i>	<i>N 12</i>	

*1884 Kendal Church 1 mile E.S.E.*

*1886 August Amount computed*



RAINFALL AT Kendal, Underfell

80

Lat. ....

Lon. .... County of Westmorland

Rain Gauge, by .....

Observer F. Wilson, Esq.

Kent - 3

Diameter ....	<u>8</u>										
Height .....	<u>1. 0</u>										
Altitude ....	<u>300 T</u>										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	<u>.92</u>	<u>.72</u>				<u>3.58</u>	<u>5.34</u>	<u>4.36</u>	<u>3.13</u>		
February ....	<u>4.19</u>	<u>6.32</u>				<u>6.07</u>	<u>1.69</u>	<u>2.64</u>	<u>1.88</u>		
March .....	<u>3.15</u>	<u>6.10</u>				<u>4.92</u>	<u>7.18</u>	<u>1.94</u>	<u>3.25</u>		
April .....	<u>2.00</u>	<u>2.42</u>				<u>2.84</u>	<u>4.00</u>	<u>3.02</u>	<u>2.66</u>		
May .....	<u>2.03</u>	<u>4.78</u>				<u>2.29</u>	<u>5.28</u>	<u>1.53</u>	<u>2.03</u>		
June .....	<u>5.12</u>	<u>5.15</u>				<u>2.41</u>	<u>2.10</u>	<u>.00</u>	<u>1.83</u>		
July .....	<u>6.80</u>	<u>6.95</u>				<u>4.00</u>	<u>6.80</u>	<u>2.50</u>	<u>6.50</u>		
August .....	<u>1.35</u>	<u>7.55</u>				<u>3.40</u>	<u>4.95</u>	<u>2.15</u>	<u>3.92</u>		
September ....	<u>4.74</u>	<u>3.05</u>				<u>7.00</u>	<u>7.18</u>	<u>4.16</u>	<u>1.54</u>		
October .....	<u>1.10</u>	<u>3.00</u>				<u>4.10</u>	<u>7.53</u>	<u>2.31</u>	<u>5.90</u>		
November ....	<u>7.32</u>	<u>7.95</u>				<u>3.85</u>	<u>5.75</u>	<u>3.30</u>	<u>5.68</u>		
December ....	<u>6.94</u>	<u>7.00</u>				<u>2.80</u>	<u>6.17</u>	<u>4.24</u>	<u>5.65</u>		
TOTALS ....	<u>45.66</u>	<u>60.99</u>				<u>47.26</u>	<u>63.97</u>	<u>32.15</u>	<u>43.97</u>	<u>NR</u>	

1887 June rain dried up



# RAINFALL AT Kendal, Haweshead

80

Lat. ....

Lon. ....

County of

Westmoreland

Rain Gauge, by

Observer

G. Brathwaite, Esq.

Kent - 3.

Diameter ....	8										
Height .....	6										
Altitude ....	175 $\overline{\text{ft}}$										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	.90	.51	3.99	7.99	7.96	3.54	5.66	4.26	3.04	4.57	4.242
February ....	4.29	5.20	5.39	2.88	3.34	5.98	1.83	2.84	.80	3.54	3.609
March .....	3.13	6.12	5.51	1.51	3.64	4.99	5.68	2.57	3.18	3.43	3.976
April .....	1.99	2.34	4.35	2.28	1.32	3.06	3.92	3.17	2.78	2.01	2.722
May .....	2.02	4.74	2.58	2.66	3.74	2.39	5.10	1.87	2.18	4.05	3.133
June .....	4.89	5.07	5.29	4.67	1.31	2.56	1.96	.34	2.22	.97	2.928
July .....	6.35	7.39	8.14	2.26	4.63	3.76	6.76	2.99	6.23	3.58	5.209
August .....	1.47	7.36	4.61	4.60	1.22	3.68	2.63	2.21	3.68	5.43	3.689
September ....	4.85	3.05	3.36	4.37	4.45	6.60	7.40	4.17	1.55	2.15	4.195
October .....	1.40	3.20	3.96	5.93	3.37	4.26	7.67	2.21	5.51	5.57	4.308
November ....	7.23	7.32	7.19	6.77	2.42	4.02	5.58	3.46	5.54	3.24	5.277
December ....	7.08	6.64	4.95	4.36	7.56	2.68	6.61	4.37	5.23	4.37	5.385
TOTALS ....	45.60	58.94	59.32	50.28	44.96	47.52	60.80	34.46	41.94	42.91	48.673

Kendal  $\frac{3}{4}$  mile NE

Shrubs 8ft high 10ft distant.

1884 Nov. 5 gauge moved 30 ft E.



# RAINFALL AT *Kendal Ellergreen* 80

Lat. .... Lon. .... County of *Westmorland*  
 Rain Gauge, by .... Observer *Mr M Jenner*

*Kent - 3*

Diameter ....								5			
Height .....								1.3			
Altitude ....								290T			
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....								4.18	3.54	4.36	
February ....								3.57	1.35	5.14	
March .....								2.15	3.47	3.98	
April .....								3.25	2.49	2.43	
May .....								1.78	3.32	4.19	
June .....								.48	2.48	1.29	
July .. ...								2.98	7.49	4.38	
August .....								2.57	4.16	5.39	
September....								4.98	1.77	2.60	
October ....								2.23	6.33	6.48	
November ....								3.67	7.47	3.98	
December ....								4.99	6.30	4.56	
TOTALS ....								36.83	50.17	48.78	

1887 *Burneside Church*  $\frac{1}{4}$  mile E  
*Trees* 35ft high 75ft N  
 " 30ft " 102.. SW



# RAINFALL AT *Longsleddale* *Parsonage*

80

Lat. ....

Lon. ....

County of *Westmoreland*

Rain Gauge, by .....

Observer *Rev. W. Burrows*

*Kent - 3*

Diameter ....							5				
Height .....							1 -				
Altitude ....							512			T	
Year.....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....								8.52	4.72	5.94	
February ....								3.92	1.45	4.77	
March .....								3.75	4.77	5.24	
April .....								3.87	3.01	3.48	
May .....								2.22	3.98	4.06	
June .....								.47	2.23	1.51	
July .. ...								3.64	8.49	4.54	
August .....								3.32	5.03	7.09	
September....								7.40	1.70	3.22	
October ....								3.15	10.02	8.35	
November ....								4.21	11.42	3.93	
December ....							# 8.88	5.91	9.22	7.11	
TOTALS ....								50.38	66.04	59.24	

1887 *L. Mary's Longsleddale* *Ch* 100 yards N W  
*Parsonage* 50 ft high 200 ft W



## 80

Westmoreland

Observer

Rev. R. Jackson Pigott

Kent - 3

[illegible]



# RAINFALL AT *Hobby Lonsdale, Biggles*

80

Lat. ....

Lon. ....

County of

*Newfoundland*

Rain Gauge, by

Observer

*Miss Tomlinson*

*June - 4*

Diameter ....	<i>12</i>											
Height .....	<i>3.6</i>											
Altitude ....	<i>400 T</i>											
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January ....	<i>.54</i>	<i>.52</i>	<i>4.05</i>	<i>6.37</i>	<i>7.51</i>	<i>2.50</i>						
February ....	<i>3.40</i>	<i>4.51</i>	<i>5.48</i>	<i>2.89</i>	<i>2.22</i>	<i>3.62</i>						
March .....	<i>3.15</i>	<i>4.55</i>	<i>7.20</i>	<i>1.35</i>	<i>3.51</i>	<i>3.60</i>						
April .....	<i>1.68</i>	<i>1.61</i>	<i>4.73</i>	<i>2.55</i>	<i>1.27</i>	<i>2.40</i>						
May .....	<i>2.70</i>	<i>4.60</i>	<i>1.75</i>	<i>1.80</i>	<i>4.02</i>	<i>1.75</i>						
June .....	<i>4.01</i>	<i>4.80</i>	<i>5.71</i>	<i>4.24</i>	<i>.48</i>	<i>3.11</i>						
July .....	<i>7.20</i>	<i>6.90</i>	<i>7.72</i>	<i>2.35</i>	<i>5.10</i>	<i>3.00</i>						
August .....	<i>2.02</i>	<i>7.73</i>	<i>4.55</i>	<i>4.85</i>	<i>1.77</i>	<i>3.20</i>						
September ....	<i>4.02</i>	<i>3.12</i>	<i>2.92</i>	<i>4.57</i>	<i>4.83</i>	<i>6.21</i>						
October .....	<i>1.60</i>	<i>3.18</i>	<i>3.56</i>	<i>6.30</i>	<i>4.12</i>	<i>4.56</i>						
November ....	<i>6.75</i>	<i>6.25</i>	<i>6.44</i>	<i>5.30</i>	<i>1.76</i>	<i>3.43</i>						
December ....	<i>6.25</i>	<i>5.10</i>	<i>5.15</i>	<i>5.46</i>	<i>6.65</i>	<i>3.00</i>						
TOTALS ....	<i>43.32</i>	<i>52.87</i>	<i>59.26</i>	<i>48.03</i>	<i>43.24</i>	<i>40.38</i>						

*1880. St. Mary's 1 mile E*  
*Shrubs 12ft high 20ft NE.*



RAINFALL AT *Kirkby Lonsdale* 80

Lat. \_\_\_\_\_ Lon. \_\_\_\_\_ County of *Westmoreland*  
Rain Gauge, by \_\_\_\_\_ Observer *Mr. N. Harrison*

*June - 4* *Av. 1881-1915 47.5*

Diameter ....	<i>5</i>											
Height .....	<i>1.2</i>											
Altitude ....	<i>209</i>											
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January ....	<i>1.50</i>	<i>2.00</i>	<i>4.50</i>	<i>6.20</i>		<i>2.80</i>	<i>4.30</i>	<i>3.00</i>	<i>2.00</i>	<i>3.00</i>		
February ....	<i>3.70</i>	<i>5.60</i>	<i>4.25</i>	<i>3.00</i>		<i>3.00</i>	<i>1.50</i>	<i>2.75</i>	<i>1.25</i>	<i>2.50</i>		
March .....	<i>3.40</i>	<i>4.81</i>	<i>5.20</i>	<i>1.25</i>		<i>3.40</i>	<i>3.00</i>	<i>2.15</i>	<i>2.60</i>	<i>4.20</i>		
April .....	<i>1.65</i>	<i>1.92</i>	<i>4.50</i>	<i>2.50</i>		<i>2.50</i>	<i>4.50</i>	<i>2.10</i>	<i>2.75</i>	<i>2.00</i>		
May .....	<i>2.70</i>	<i>4.20</i>	<i>2.00</i>	<i>2.00</i>		<i>1.65</i>	<i>4.50</i>	<i>2.25</i>	<i>2.00</i>	<i>3.00</i>		
June .....	<i>4.00</i>	<i>4.75</i>	<i>6.08</i>	<i>5.00</i>		<i>3.00</i>	<i>2.00</i>	<i>2.30</i>	<i>2.50</i>	<i>1.00</i>		
July .....	<i>5.50</i>	<i>6.82</i>	<i>8.00</i>	<i>2.60</i>		<i>2.70</i>	<i>6.50</i>	<i>2.60</i>	<i>6.00</i>	<i>3.60</i>		
August .....	<i>2.80</i>	<i>6.80</i>	<i>4.10</i>	<i>4.00</i>		<i>3.00</i>	<i>2.25</i>	<i>1.90</i>	<i>4.00</i>	<i>7.50</i>		
September ....	<i>4.00</i>	<i>3.30</i>	<i>2.50</i>	<i>5.00</i>		<i>5.80</i>	<i>6.00</i>	<i>4.50</i>	<i>6.00</i>	<i>3.00</i>		
October .....	<i>2.10</i>	<i>3.30</i>	<i>4.50</i>	<i>6.50</i>		<i>3.75</i>	<i>5.00</i>	<i>1.25</i>	<i>3.25</i>	<i>4.50</i>		
November ....	<i>7.00</i>	<i>5.50</i>	<i>6.76</i>	<i>5.20</i>		<i>2.50</i>	<i>4.50</i>	<i>3.50</i>	<i>5.30</i>	<i>2.50</i>		
December ....	<i>8.00</i>	<i>5.47</i>	<i>4.30</i>	<i>5.20</i>		<i>2.25</i>	<i>5.60</i>	<i>3.70</i>	<i>2.70</i>	<i>3.00</i>		
TOTALS ....	<i>46.35</i>	<i>54.47</i>	<i>56.69</i>	<i>48.45</i>		<i>36.35</i>	<i>49.65</i>	<i>32.00</i>	<i>40.35</i>	<i>39.80</i>		



# RAINFALL AT

*Kirkby Lonsdale, Lancashire*

80

Lat. ....

Lon. ....

County of

*Westmoreland*

Rain Gauge, by .....

Observer

*J A Clarke, Esq.*

*June - 4*

Diameter ....	<i>8</i>										
Height .....	<i>1.0</i>										
Altitude ....	<i>305 ft</i>										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	<i>.69</i>	<i>.75</i>	<i>5.24</i>	<i>6.66</i>	<i>7.39</i>						
February ....	<i>3.94</i>	<i>5.60</i>	<i>3.76</i>	<i>3.22</i>	<i>2.39</i>						
March .....	<i>3.41</i>	<i>4.81</i>	<i>5.87</i>	<i>1.55</i>	<i>3.44</i>						
April .....	<i>1.72</i>	<i>1.94</i>	<i>4.94</i>	<i>2.62</i>	<i>1.38</i>						
May .....	<i>2.79</i>	<i>4.97</i>	<i>2.50</i>	<i>1.98</i>	<i>4.21</i>						
June .....	<i>4.65</i>	<i>5.03</i>	<i>6.08</i>	<i>5.82</i>	<i>.76</i>						
July .....	<i>7.38</i>	<i>7.56</i>	<i>8.33</i>	<i>3.42</i>	<i>4.94</i>						
August .....	<i>2.41</i>	<i>6.69</i>	<i>4.01</i>	<i>4.40</i>	<i>1.62</i>						
September ....	<i>4.14</i>	<i>3.17</i>	<i>2.84</i>	<i>4.95</i>	<i>4.19</i>						
October .....	<i>2.38</i>	<i>3.50</i>	<i>3.90</i>	<i>6.56</i>	<i>4.24</i>						
November ....	<i>7.12</i>	<i>5.69</i>	<i>6.76</i>	<i>5.53</i>	<i>1.89</i>						
December ....	<i>8.00</i>	<i>5.47</i>	<i>4.33</i>	<i>5.23</i>	<i>6.96</i>						
TOTALS ....	<i>48.63</i>	<i>55.18</i>	<i>58.56</i>	<i>51.94</i>	<i>43.41</i>						

*1880. Kirkby Lonsdale*

*1 1/4 miles*

W.W.W.

*Summer house 10 1/2 ft high 15 ft N.*



RAINFALL AT *Firkeby Lonsdale, Walsby* **80**

Lat. .... Lon. .... County of *Westmoreland*  
Rain Gauge, by ..... Observer *Mr Gibson*

*June - 4*

Diameter ....	<i>5"</i>										
Height .....	<i>2.0</i>										
Altitude ....	<i>475 ft</i>										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	<i>.43</i>	<i>.61</i>	<i>3.72</i>	<i>6.79</i>	<i>6.80</i>						
February ....	<i>3.97</i>	<i>5.25</i>	<i>3.51</i>	<i>3.13</i>	<i>2.04</i>						
March .....	<i>3.10</i>	<i>4.60</i>	<i>4.97</i>	<i>1.19</i>	<i>3.48</i>						
April .....	<i>1.83</i>	<i>1.58</i>	<i>4.68</i>	<i>2.35</i>	<i>1.28</i>						
May .....	<i>2.37</i>	<i>4.81</i>	<i>2.43</i>	<i>1.82</i>	<i>3.61</i>						
June .....	<i>4.45</i>	<i>4.81</i>	<i>5.80</i>	<i>4.69</i>	<i>.51</i>						
July .....	<i>7.57</i>	<i>7.23</i>	<i>7.84</i>	<i>3.29</i>	<i>4.33</i>						
August .....	<i>2.27</i>	<i>6.96</i>	<i>4.13</i>	<i>3.98</i>	<i>1.52</i>						
September ....	<i>3.62</i>	<i>3.04</i>	<i>2.97</i>	<i>4.39</i>	<i>4.32</i>						
October .....	<i>2.01</i>	<i>3.18</i>	<i>3.64</i>	<i>6.00</i>	<i>3.40</i>						
November ....	<i>6.15</i>	<i>5.80</i>	<i>6.43</i>	<i>4.88</i>	<i>1.81</i>						
December ....	<i>7.36</i>	<i>6.24</i>	<i>4.36</i>	<i>3.82</i>	<i>6.32</i>						
TOTALS ....	<i>45.13</i>	<i>54.11</i>	<i>54.48</i>	<i>46.33</i>	<i>39.42</i>						

*1 ml S of Barbon Sta.*



# RAINFALL AT *Tebay*

80

Lat. ....

Lon. ....

County of *Westmoreland*

Rain Gauge, by .....

Observer *Rev. E. Holme*

*June - 4.*

Diameter ....	<i>5</i>										
Height .....	<i>3.6</i>										
Altitude ....	<i>666 B</i>										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	<i>1.19</i>	<i>.42</i>	<i>4.37</i>								
February ....	<i>6.19</i>	<i>5.27</i>	<i>4.91</i>								
March .....	<i>2.93</i>	<i>5.79</i>	<i>5.51</i>								
April .....	<i>2.73</i>	<i>1.33</i>	<i>4.49</i>								
May .....	<i>2.23</i>	<i>5.22</i>	<i>2.54</i>								
June .....	<i>2.54</i>	<i>5.15</i>	<i>5.41</i>								
July .....	<i>5.71</i>	<i>6.95</i>	<i>8.12</i>								
August .....	<i>1.40</i>	<i>6.29</i>	<i>4.14</i>								
September ....	<i>4.42</i>	<i>3.23</i>	<i>2.78</i>								
October .....	<i>1.81</i>	<i>3.07</i>	<i>4.17</i>								
November ....	<i>7.38</i>	<i>8.77</i>	<i>6.16</i>								
December ....	<i>4.32</i>	<i>7.71</i>	<i>6.46</i>								
TOTALS ....	<i>42.85</i>	<i>59.20</i>	<i>59.06</i>								

*St. Iton Church 3 miles N*

*House 30ft high 60ft E*

*Church 50ft " 120ft W.*



# RAINFALL AT *Orton Vicarage*

80

Lat. ....

Lon. ....

County of *Westmorland*

Rain Gauge, by .....

Observer *Rev. S. Holme*

*June - 4*

Diameter ....				<i>5</i>							
Height .....				<i>3.6</i>							
Altitude ....				<i>770 T</i>							
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ...				<i>10.25</i>	<i>11.69</i>	<i>4.15</i>	<i>5.63</i>	<i>5.40</i>	<i>3.54</i>	<i>3.64</i>	
February ...				<i>5.16</i>	<i>5.01</i>	<i>9.86</i>	<i>2.42</i>	<i>4.14</i>	<i>.87</i>	<i>2.53</i>	
March .....				<i>2.35</i>	<i>4.83</i>	<i>4.55</i>	<i>6.46</i>	<i>1.67</i>	<i>4.28</i>	<i>2.98</i>	
April .....				<i>1.99</i>	<i>1.38</i>	<i>3.65</i>	<i>4.96</i>	<i>4.15</i>	<i>2.68</i>	<i>3.00</i>	
May .....				<i>3.20</i>	<i>5.17</i>	<i>3.03</i>	<i>5.38</i>	<i>1.16</i>	<i>3.73</i>	<i>2.88</i>	
June .....				<i>5.65</i>	<i>1.07</i>	<i>2.33</i>	<i>2.13</i>	<i>.38</i>	<i>1.91</i>	<i>1.70</i>	
July .....				<i>4.21</i>	<i>4.43</i>	<i>2.29</i>	<i>6.45</i>	<i>3.97</i>	<i>6.46</i>	<i>3.30</i>	
August .....				<i>4.29</i>	<i>.73</i>	<i>3.42</i>	<i>3.01</i>	<i>2.05</i>	<i>3.02</i>	<i>4.74</i>	
September ...				<i>4.69</i>	<i>5.22</i>	<i>8.28</i>	<i>9.00</i>	<i>5.52</i>	<i>1.30</i>	<i>1.53</i>	
October ....				<i>7.95</i>	<i>3.72</i>	<i>6.06</i>	<i>6.61</i>	<i>1.84</i>	<i>8.20</i>	<i>6.99</i>	
November ...				<i>7.74</i>	<i>2.88</i>	<i>3.92</i>	<i>6.51</i>	<i>3.63</i>	<i>9.25</i>	<i>2.26</i>	
December ....				<i>4.94</i>	<i>9.42</i>	<i>3.08</i>	<i>7.58</i>	<i>5.06</i>	<i>6.65</i>	<i>4.13</i>	
TOTALS ....				<i>62.42</i>	<i>55.55</i>	<i>54.62</i>	<i>66.14</i>	<i>38.97</i>	<i>51.89</i>	<i>39.68</i>	

1883. *Orton Ch.* <sup>300</sup> *100 yds. N.*

*House 30 ft. high 50 yds. S.*

*Trees 60 - - 20 - S.*

*Hills 1300 ft. N.  $\frac{3}{4}$  m. N.*



# RAINFALL AT *Fourth Spike*

80

Lat. ....

Lon. ....

County of

*New Ireland*

Rain Gauge, by .....

Observer

*G. J. Symons Esq. F.R.S.*

*Lees - 5*

Diameter ....	<i>8</i>										
Height .....	<i>1.0</i>										
Altitude ....	<i>2000T</i>										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	<i>1.50</i>	<i>2.00</i>	<i>4.90</i>	<i>9.20</i>	<i>11.50</i>						
February ....	<i>7.80</i>	<i>1.90</i>	<i>6.00</i>	<i>7.00</i>							
March .....	<i>3.50</i>	<i>5.50</i>	<i>7.40</i>	<i>2.00</i>							
April .....	<i>4.70</i>	<i>3.10</i>	<i>6.20</i>	<i>2.10</i>							
May .....	<i>2.20</i>	<i>6.30</i>	<i>3.90</i>	<i>1.70</i>							
June .....	<i>5.00</i>	<i>7.50</i>	<i>8.80</i>	<i>7.10</i>							
July .....	<i>8.90</i>	<i>9.10</i>	<i>8.60</i>	<i>5.50</i>							
August .....	<i>1.50</i>	<i>7.00</i>	<i>4.80</i>	<i>7.80</i>							
September ....	<i>6.80</i>	<i>5.00</i>	<i>3.20</i>	<i>9.00</i>							
October .....	<i>4.00</i>	<i>4.50</i>	<i>6.40</i>	<i>10.60</i>							
November ....	<i>4.80</i>	<i>10.00</i>	<i>8.80</i>	<i>7.00</i>							
December ....	<i>5.00</i>	<i>4.00</i>	<i>5.70</i>	<i>6.80</i>							
TOTALS ....	<i>55.70</i>	<i>65.90</i>	<i>74.70</i>	<i>75.80</i>							



RAINFALL AT *Kirkby Stephen*

Lat. \_\_\_\_\_ Lon. \_\_\_\_\_ County of *Westmoreland*  
Rain Gauge, by \_\_\_\_\_ Observer *J. Mason, Esq.*

*Eden - 1.*

Diameter ....	<i>5</i>											
Height .....	<i>1.0</i>											
Altitude ....	<i>574 T</i>											
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January ....	<i>.65</i>	<i>47</i>	<i>3.33</i>	<i>7.23</i>	<i>6.39</i>	<i>2.59</i>	<i>6.02</i>	<i>3.35</i>	<i>2.01</i>	<i>1.53</i>	<i>3.357</i>	
February ....	<i>4.66</i>	<i>2.54</i>	<i>4.58</i>	<i>5.47</i>	<i>4.47</i>	<i>6.00</i>	<i>.94</i>	<i>2.24</i>	<i>1.52</i>	<i>1.59</i>	<i>3.401</i>	
March .....	<i>1.62</i>	<i>4.12</i>	<i>3.32</i>	<i>2.44</i>	<i>3.38</i>	<i>2.44</i>	<i>4.09</i>	<i>1.57</i>	<i>4.18</i>	<i>1.51</i>	<i>2.867</i>	
April .....	<i>2.27</i>	<i>.76</i>	<i>3.45</i>	<i>1.60</i>	<i>1.48</i>	<i>1.90</i>	<i>3.55</i>	<i>2.13</i>	<i>2.00</i>	<i>2.35</i>	<i>2.149</i>	
May .....	<i>1.66</i>	<i>2.87</i>	<i>1.68</i>	<i>1.42</i>	<i>2.77</i>	<i>2.50</i>	<i>4.64</i>	<i>1.87</i>	<i>2.49</i>	<i>2.27</i>	<i>2.417</i>	
June .....	<i>2.13</i>	<i>3.82</i>	<i>5.61</i>	<i>6.19</i>	<i>.81</i>	<i>1.24</i>	<i>1.32</i>	<i>.20</i>	<i>1.47</i>	<i>1.06</i>	<i>2.385</i>	
July .....	<i>4.90</i>	<i>5.94</i>	<i>6.01</i>	<i>3.30</i>	<i>4.44</i>	<i>1.24</i>	<i>6.42</i>	<i>1.85</i>	<i>4.36</i>	<i>3.14</i>	<i>4.160</i>	
August .....	<i>1.67</i>	<i>5.02</i>	<i>2.83</i>	<i>2.81</i>	<i>1.26</i>	<i>2.54</i>	<i>1.94</i>	<i>1.93</i>	<i>2.96</i>	<i>4.79</i>	<i>2.775</i>	
September ....	<i>4.70</i>	<i>2.63</i>	<i>2.08</i>	<i>4.06</i>	<i>3.39</i>	<i>4.64</i>	<i>5.36</i>	<i>4.26</i>	<i>1.29</i>	<i>1.24</i>	<i>3.365</i>	
October .....	<i>3.27</i>	<i>3.07</i>	<i>3.59</i>	<i>5.66</i>	<i>2.10</i>	<i>4.45</i>	<i>6.42</i>	<i>1.44</i>	<i>4.34</i>	<i>5.31</i>	<i>3.965</i>	
November ....	<i>5.20</i>	<i>7.20</i>	<i>6.39</i>	<i>4.90</i>	<i>2.09</i>	<i>3.04</i>	<i>4.55</i>	<i>3.59</i>	<i>7.62</i>	<i>1.59</i>	<i>4.617</i>	
December ....	<i>3.87</i>	<i>4.66</i>	<i>3.94</i>	<i>3.47</i>	<i>6.12</i>	<i>1.63</i>	<i>7.11</i>	<i>3.77</i>	<i>4.14</i>	<i>2.87</i>	<i>4.158</i>	
TOTALS ....	<i>36.60</i>	<i>43.10</i>	<i>46.81</i>	<i>48.55</i>	<i>38.70</i>	<i>34.21</i>	<i>52.36</i>	<i>28.20</i>	<i>38.38</i>	<i>29.25</i>	<i>39.616</i>	

*1887 Kirkby Stephen Ch 200 yards E*  
*Wall 6 ft high 7 ft. F*



RAINFALL AT *Haweswater Mardale Green*

80

Lat. .... Lon. .... County of *Westmoreland*

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

*Eden - 1.*

Diameter ....		<i>5</i>									
Height .....		<i>1.0</i>									
Altitude ....		<i>780T</i>									
Year .....	<i>1880</i>	<i>1881</i>	<i>1882</i>	<i>1883</i>	<i>1884</i>	<i>1885</i>	<i>1886</i>	<i>1887</i>	<i>1888</i>	<i>1889</i>	MEANS.
January .....		<i>.90</i>	<i>9.00</i>	<i>} 30.00</i>	<i>19.50</i>	<i>8.00</i>	<i>10.00</i>	<i>13.50</i>	<i>5.00</i>	<i>7.50</i>	
February .....		<i>12.50</i>	<i>12.50</i>		<i>10.50</i>	<i>20.00</i>	<i>3.00</i>	<i>8.00</i>	<i>1.00</i>	<i>3.00</i>	
March .....		<i>10.50</i>	<i>11.00</i>	<i>5.00</i>	<i>12.00</i>	<i>11.00</i>	<i>17.50</i>	<i>3.50</i>	<i>7.50</i>	<i>10.00</i>	
April .....		<i>2.50</i>	<i>8.50</i>	<i>3.00</i>	<i>4.00</i>	<i>5.50</i>	<i>2.00</i>	<i>6.00</i>	<i>9.50</i>		
May .....		<i>9.00</i>	<i>5.50</i>	<i>5.50</i>	<i>5.80</i>	<i>6.50</i>	<i>9.50</i>	<i>3.00</i>	<i>5.50</i>		
June .....		<i>10.50</i>	<i>8.50</i>	<i>6.00</i>	<i>1.50</i>	<i>3.00</i>	<i>2.50</i>	<i>1.05</i>			
July .....		<i>7.00</i>	<i>13.50</i>	<i>4.50</i>	<i>5.00</i>	<i>3.00</i>	<i>10.50</i>	<i>6.50</i>	<i>9.50</i>		
August .....		<i>10.50</i>	<i>9.00</i>	<i>8.50</i>	<i>11.00</i>	<i>8.50</i>	<i>10.50</i>	<i>4.50</i>	<i>5.00</i>		
September .....		<i>4.50</i>	<i>4.00</i>	<i>7.50</i>	<i>11.50</i>	<i>14.50</i>	<i>10.60</i>	<i>8.00</i>	<i>1.50</i>		
October .....		<i>5.50</i>	<i>13.00</i>	<i>15.00</i>	<i>6.00</i>	<i>11.50</i>	<i>10.50</i>	<i>6.00</i>	<i>11.50</i>		
November .....		<i>19.00</i>	<i>8.50</i>	<i>13.00</i>	<i>9.00</i>	<i>8.00</i>	<i>1.50</i>	<i>12.00</i>	<i>20.00</i>		
December .....		<i>13.50</i>	<i>8.00</i>	<i>10.50</i>	<i>4.00</i>	<i>4.00</i>	<i>14.00</i>	<i>4.50</i>	<i>16.00</i>		
TOTALS .....		<i>105.90</i>	<i>111.00</i>	<i>108.50</i>	<i>99.80</i>	<i>103.50</i>	<i>102.10</i>	<i>76.55</i>	<i>92.00</i>		

*1888 April to July gauge read at irregular intervals*

*Refined for July 21st to 25th*



RAINFALL AT *Kirkstone Pass*

80

Lat. ....

Lon. ....

County of

*Westmorland*

Rain Gauge, by

Observer

*G. L. Symonds Esq. F.R.S.*

*Eden - 1.*

Diameter ....	<i>5</i>											
Height .....	<i>1. 0</i>											
Altitude ....	<i>1500 T</i>											
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January ....	<i>2.64</i>	<i>1.12</i>						<i>8.68</i>				
February ...	<i>5.80</i>	<i>6.89</i>						<i>5.74</i>				
March .....	<i>5.74</i>							<i>3.92</i>				
April .....	<i>4.00</i>							<i>3.94</i>				
May .....	<i>2.45</i>							<i>3.61</i>				
June .....	<i>9.43</i>							<i>1.06</i>				
July .....	<i>7.92</i>							<i>4.86</i>				
August .....	<i>2.87</i>							<i>4.14</i>				
September ...	<i>5.30</i>							<i>9.59</i>				
October .....	<i>1.12</i>							<i>6.97</i>				
November ....	<i>16.41</i>							<i>5.83</i>				
December ....	<i>11.66</i>							<i>9.71</i>				
TOTALS ....	<i>75.34</i>							<i>68.05</i>				



# RAINFALL AT *Shap, Sledale*

80

Lat. ....

Lon. ....

County of

*Westmoreland*

Rain Gauge, by

Observer

*M<sup>r</sup> W. Hoggarth*

*Eden - 1*

Diameter ....		5									
Height .....		1. 0									
Altitude ....		1560 T									
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ...		.65	9.05	15.85	15.90	8.05		8.10	4.00	5.10	
February ...		6.65	10.05	8.60	7.50	15.80		17.10	5.90	1.30	2.25
March .....		6.15	9.10	3.55	5.90	8.20		1.95	5.05	4.00	
April .....		1.50	7.00	2.65	2.30	4.25	4.95	4.00	3.90	4.95	
May .....		9.05	5.40	4.55	7.25	5.65	7.05	3.00	5.00	3.60	
June .....		7.45	6.25	6.40	1.15	2.20	2.65	.35	2.65	2.35	
July .....		6.45	12.60	4.30	6.10		8.85	3.15	9.10	3.45	
August .....		9.30	5.60	5.70	1.20		8.90	4.60	4.05	4.05	5.00
September ...	#	5.90	4.30	4.05	7.30	7.80	8.45	10.50	7.00	.75	1.95
October .....		1.90	3.75	6.45	10.30	4.25	8.40	9.30	4.10	12.50	9.10
November ...		12.10	15.70	9.30	10.60	6.45	5.70	8.90	5.95	11.05	3.40
December ...		6.30	15.00	8.00	6.20	16.00	5.85	9.50	8.00	11.00	7.05
TOTALS ....		85.95	92.85	86.00	81.80	81.45	83.40	55.55	70.35	52.20	

This gauge is apparently in the same position as the Wet Sledale gauge of 1866 - 1872 i.e. at Head of Wet Sledale 500 yds SSW of Seat Robert and 200 feet below it CS. 11. 19

Average Reported from Survey : 10" too high.



# RAINFALL AT *Haweswater Wardale Green*

80

Lat. ....

Lon. ....

County of *Westmoreland*

Rain Gauge, by .....

Observer *G. J. Symonds, Esq, F.R.S.*

*Eden - 1.*

Diameter ....		8									
Height .....		1. 0									
Altitude ....		780 T									
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January .....	3.25	1.00	9.00	15.00	17.00	5.50	9.50	9.70	5.00	6.50	
February .....	12.00	10.50	11.50	11.00	8.00	20.00	2.50	7.25	1.00	2.50	
March .....	5.50	13.00	9.50	3.00	10.00	9.00	15.00	3.50	6.50	6.25	
April .....	4.00	2.75	8.00	2.00	2.25	4.50	2.00	5.50	9.00		
May .....	1.50	8.50	5.00	3.50	6.00	6.00	9.25	3.25			
June .....	6.00	10.00	9.50	4.50	.50	3.00	2.00	1.00			
July .....	7.50	7.00	13.50	3.00	3.00	3.50	10.00	6.50	10.00		
August .....	.37	10.25	8.50	6.50	9.50	8.50	10.00	4.00	7.00		
September .....		4.50	3.00	5.50	8.00	13.00	13.00	7.50	1.00		
October .....	2.50	4.50	11.50	11.00	4.50	10.50	10.00	5.50	14.00		
November .....	15.50	17.00	6.50	11.25	6.00	7.50	1.50	11.25	29.00		
December .....	7.50	12.50	7.00	8.50	6.00	3.50	13.30	4.00	15.00		
TOTALS ....		101.50	102.50	84.75	80.75	94.50	98.05	68.95			

1888 April 9.00 believed to include up to about May 20th  
 July 10.00 " " " part of June.

*Rejected from Survey: 10' too low.*



RAINFALL AT *Haweswater, Mardale Green*

80

Lat. .... Lon. .... County of *Westmorland*

Rain Gauge, by .... Observer *H P Holme, Esq*

*Eden - 1.*

Diameter . . . .		5									
Height . . . . .		1. 0									
Altitude . . . .		747 $\pi$									
Year . . . . .	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January . . . .		6.66	10.41	10.18							
February . . . .		8.79	11.44	11.61							
March . . . . .		9.10	11.52	4.07							
April . . . . .		2.46	7.88	2.40							
May . . . . .		8.85	5.32	4.36							
June . . . . .		9.35	7.21	5.00							
July . . . . .		7.42	13.77								
August . . . . .		10.06	7.44								
September . . . .		4.03	5.86	6.89							
October . . . .		4.51									
November . . . .		16.28									
December . . . .		12.20	8.75	8.53							
TOTALS . . . .		93.71	109.83	80.11							

*Rejected from Survey : 12" too low*



# RAINFALL AT *Shap Swindale* 80

Lat. .... Lon. .... County of *Westmoreland*  
 Rain Gauge, by ..... Observer *M<sup>r</sup> W. Hoggarth*

*Eden - 1.*

Diameter ....		5									
Height .....		1.0									
Altitude ....		1610T									
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January .....		8.5	10.00	19.50	17.00	9.10		9.45	4.25	6.75	
February .....		7.18	11.40	9.95	9.20	19.35	19.65	7.05	1.35	2.95	
March .....		7.27	10.20	4.75	6.95	9.65		2.10	5.20	5.20	
April .....		2.10	7.55	2.80	2.75	4.70	5.50	4.95	4.00	5.90	
May .....		9.25	5.70	4.80	9.25	6.25	8.55	4.05	5.95	4.00	
June .....		8.10	7.90	6.70	1.40	2.90	3.10	.40	3.15	2.45	
July .....		8.70	14.85	4.75	7.45		9.90	4.65	11.05	4.05	
August .....		11.30	6.40	7.05	1.30	10.85	5.10	4.20	4.70	5.85	
September .....	#	6.45	4.60	4.80	7.45	9.10	9.50	12.10	8.95	.85	2.30
October .....		2.03	4.60	7.10	10.75	5.90	9.35	12.10	5.05	14.20	11.05
November .....		17.05	17.40	11.90	11.70	6.75	6.35	10.05	7.40	13.45	3.95
December .....		7.68	13.40	8.90	7.05	17.20	6.50	10.90	9.55	13.40	9.10
TOTALS .....		94.75	106.70	97.25	94.25	94.50	96.95	67.80	81.55	63.55	



RAINFALL AT *Shap, Tailbert-Beck* 80

Lat. .... Lon. .... County of *Westmoreland*

Rain Gauge, by .... Observer *W. W. Hoggarth*

*Eden - 1.*

Diameter ....		5									
Height ....		1. 0									
Altitude ....		900T									
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January....		.60	7.80	14.50	12.05	7.05					
February....		7.70	9.95	8.55	6.45	14.45					
March .....		7.20	7.95	4.00	5.75	7.50					
April .....		1.45	6.65	2.55	2.15	4.15	4.90				
May .....		7.05	4.55	3.95	6.90	5.25	6.40				
June .....		7.40	6.00	5.80	.95	2.00					
July .....		5.70	11.95	4.20	6.00						
August .....		9.20	5.00	5.60	1.00						
September....		5.68	3.65	3.85	6.50	6.40	7.10				
October .....		1.75	3.55	4.85	9.90	3.95	7.00				
November....		15.75	12.50	8.95	9.55	5.80	5.20				
December....		6.25	13.10	7.70	6.00	12.15	5.40				
TOTALS ....		79.10	85.20	81.10	69.55	72.65					

*Rejected from survey: 20" too High.*



RAINFALL AT *Flaweswater Naddle Forest*

80

Lat. ....

Lon. ....

County of *Nestmoreland*

Rain Gauge, by .....

Observer *Mrs Kitching*

*Eden - 1*

Diameter ....					8						
Height .....					10						
Altitude ....								794			
Year.....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....						5.50	5.75	5.50			
February ....					4.25			6.25			
March .....						4.25		8.75	1.25		
April .....					2.50	2.25	3.50	1.75			
May .....					1.75		7.00	3.25			
June .....					.00	1.75		.50			
July ..					7.50			7.75	4.00		
August .....					3.50		5.25	5.00			
September....					6.00	12.50	8.75	4.50			
October ....					4.00		8.00	3.25			
November....					2.50	8.25	6.50	6.50			
December ....						6.25	10.25	3.75			
TOTALS ....							71.50	45.50			



# RAINFALL AT *Ravenstonedale, Broward*

80

Lat. ....

Lon. ....

County of

*Westmoreland*

Rain Gauge, by

Observer

*J. Fothergill Esq.*

*June - 4*

Diameter ....	<i>5</i>											
Height .....	<i>3.0</i>											
Altitude ....	<i>826T</i>											
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January ....	<i>.83</i>	<i>.39</i>	<i>3.49</i>	<i>6.96</i>	<i>7.21</i>	<i>3.12</i>	<i>5.27</i>	<i>3.58</i>	<i>2.51</i>	<i>2.07</i>	<i>3.543</i>	
February ....	<i>4.63</i>	<i>3.31</i>	<i>4.54</i>	<i>4.58</i>	<i>3.70</i>	<i>6.07</i>	<i>1.38</i>	<i>2.71</i>	<i>.87</i>	<i>2.41</i>	<i>3.420</i>	
March .....	<i>2.14</i>	<i>3.92</i>	<i>4.17</i>	<i>1.80</i>	<i>2.92</i>	<i>3.27</i>	<i>4.57</i>	<i>1.86</i>	<i>3.89</i>	<i>2.13</i>	<i>3.067</i>	
April .....	<i>2.05</i>	<i>.70</i>	<i>3.34</i>	<i>1.84</i>	<i>1.36</i>	<i>2.43</i>	<i>4.16</i>	<i>2.46</i>	<i>2.49</i>	<i>2.01</i>	<i>2.284</i>	
May .....	<i>1.69</i>	<i>3.98</i>	<i>1.81</i>	<i>1.89</i>	<i>3.05</i>	<i>2.53</i>	<i>4.48</i>	<i>1.87</i>	<i>2.88</i>	<i>2.42</i>	<i>2.660</i>	
June .....	<i>2.91</i>	<i>4.84</i>	<i>4.15</i>	<i>4.87</i>	<i>.54</i>	<i>1.85</i>	<i>1.65</i>	<i>.29</i>	<i>1.66</i>	<i>1.50</i>	<i>2.426</i>	
July .....	<i>4.52</i>	<i>5.17</i>	<i>6.32</i>	<i>4.65</i>	<i>3.82</i>	<i>1.63</i>	<i>6.93</i>	<i>1.81</i>	<i>5.67</i>	<i>2.76</i>	<i>4.328</i>	
August .....	<i>1.41</i>	<i>4.81</i>	<i>2.47</i>	<i>2.57</i>	<i>1.40</i>	<i>3.06</i>	<i>2.62</i>	<i>2.18</i>	<i>2.32</i>	<i>4.67</i>	<i>2.751</i>	
September ....	<i>3.73</i>	<i>2.14</i>	<i>2.09</i>	<i>3.64</i>	<i>3.72</i>	<i>4.91</i>	<i>5.39</i>	<i>4.26</i>	<i>1.69</i>	<i>1.30</i>	<i>3.287</i>	
October .....	<i>2.02</i>	<i>2.69</i>	<i>3.58</i>	<i>5.99</i>	<i>2.50</i>	<i>3.55</i>	<i>5.80</i>	<i>1.68</i>	<i>3.98</i>	<i>5.69</i>	<i>3.748</i>	
November ....	<i>5.70</i>	<i>6.05</i>	<i>5.75</i>	<i>4.80</i>	<i>2.47</i>	<i>2.49</i>	<i>3.95</i>	<i>2.97</i>	<i>6.13</i>	<i>1.73</i>	<i>4.204</i>	
December ....	<i>3.98</i>	<i>5.57</i>	<i>4.69</i>	<i>3.55</i>	<i>6.24</i>	<i>2.13</i>	<i>5.87</i>	<i>4.17</i>	<i>3.59</i>	<i>3.14</i>	<i>4.293</i>	
TOTALS ....	<i>35.61</i>	<i>43.57</i>	<i>46.40</i>	<i>47.14</i>	<i>38.93</i>	<i>37.04</i>	<i>52.07</i>	<i>29.84</i>	<i>37.68</i>	<i>31.83</i>	<i>40.011</i>	

*1881. St. Oswalds Church, Ravenstonedale, 1 1/4 miles E.S.E*

*Rejected from Survey. 8" too low.*



# RAINFALL AT *Ullswater, Sharnock Bay*

80

Lat. ....

Lon. ....

County of *Westmoreland*

Rain Gauge, by .....

Observer *A. Parkin, Esq.*

*Eden - 1.*

Diameter ....	<i>5</i>										
Height .....	<i>7</i>										
Altitude ....	<i>500 T</i>										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	<i>1.23</i>	<i>.23</i>	<i>3.24</i>	<i>9.50</i>	<i>7.40</i>	<i>3.15</i>	<i>5.50</i>	<i>4.07</i>			
February ....	<i>6.35</i>	<i>3.36</i>	<i>5.40</i>	<i>9.15</i>	<i>7.10</i>	<i>7.00</i>	<i>1.25</i>	<i>3.65</i>			
March .....	<i>1.74</i>	<i>3.95</i>	<i>4.36</i>	<i>3.75</i>	<i>5.20</i>	<i>4.50</i>	<i>3.50</i>	<i>1.15</i>			
April .....	<i>3.05</i>	<i>1.60</i>	<i>5.55</i>	<i>2.80</i>	<i>1.50</i>	<i>3.60</i>	<i>3.40</i>	<i>2.50</i>			
May .....	<i>1.30</i>	<i>3.30</i>	<i>2.74</i>	<i>1.90</i>	<i>3.04</i>	<i>2.95</i>	<i>6.60</i>	<i>1.80</i>			
June .....	<i>2.26</i>	<i>3.60</i>	<i>3.64</i>	<i>1.86</i>	<i>1.36</i>	<i>1.27</i>	<i>1.50</i>	<i>.13</i>			
July .....	<i>4.50</i>	<i>3.58</i>	<i>3.80</i>	<i>2.14</i>	<i>6.70</i>	<i>1.15</i>	<i>4.65</i>	<i>3.08</i>			
August .....	<i>1.10</i>	<i>4.58</i>	<i>1.88</i>	<i>2.85</i>	<i>1.40</i>	<i>1.50</i>	<i>1.54</i>	<i>2.36</i>			
September ....	<i>5.25</i>	<i>3.00</i>	<i>3.80</i>	<i>5.30</i>	<i>5.50</i>	<i>4.00</i>	<i>6.80</i>	<i>5.25</i>			
October .....	<i>2.28</i>	<i>2.80</i>	<i>3.30</i>	<i>5.28</i>	<i>2.50</i>	<i>6.40</i>	<i>6.86</i>	<i>2.50</i>			
November ....	<i>6.30</i>	<i>9.50</i>	<i>6.45</i>	<i>7.00</i>	<i>3.25</i>	<i>2.75</i>	<i>4.62</i>	<i>3.90</i>			
December ....	<i>5.32</i>	<i>5.35</i>	<i>4.26</i>	<i>1.90</i>	<i>6.50</i>	<i>2.95</i>	<i>6.70</i>	<i>4.85</i>			
TOTALS ....	<i>40.68</i>	<i>44.85</i>	<i>48.42</i>	<i>53.43</i>	<i>51.45</i>	<i>41.22</i>	<i>52.92</i>	<i>35.24</i>			

*Barton Church 3 1/2 miles E.*

*1882. Shrubs 20ft high 150ft W.*



RAINFALL AT Ullswater, Swarth Fell

80

Lat. \_\_\_\_\_ Lon. \_\_\_\_\_ County of Westmoreland  
Rain Gauge, by \_\_\_\_\_ Observer G. L. Symonds Esq. F.R.S.

Eden - 1

Diameter ....	<u>8</u>										
Height .....	<u>1.0</u>						<u>1.6</u>				
Altitude ....	<u>1000T</u>										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	<u>1.50</u>	<u>3.00</u>	<u>4.75</u>	<u>10.25</u>	<u>9.63</u>	<u>4.50</u>	<u>4.00</u>	<u>5.75</u>	<u>3.00</u>	<u>3.50</u>	
February ....	<u>8.00</u>		<u>5.50</u>	<u>11.00</u>	<u>7.50</u>	<u>8.75</u>	<u>5.50</u>	<u>3.25</u>	<u>1.00</u>	<u>1.50</u>	
March .....	<u>1.00</u>	<u>1.50</u>	<u>5.50</u>	<u>3.75</u>	<u>4.50</u>	<u>5.00</u>	<u>5.00</u>	<u>2.25</u>	<u>5.00</u>	<u>2.50</u>	
April .....	<u>4.50</u>	<u>10.00</u>	<u>6.00</u>	<u>3.50</u>	<u>3.00</u>	<u>3.50</u>	<u>4.00</u>	<u>3.25</u>	<u>3.50</u>	<u>4.50</u>	
May .....	<u>2.00</u>		<u>3.00</u>	<u>3.50</u>	<u>2.50</u>	<u>2.50</u>	<u>6.75</u>	<u>2.00</u>	<u>3.50</u>	<u>4.25</u>	
June .....	<u>3.50</u>	<u>4.25</u>	<u>4.50</u>	<u>4.00</u>	<u>1.50</u>	<u>2.00</u>	<u>2.50</u>	<u>.00</u>	<u>1.25</u>	<u>1.25</u>	
July .....	<u>6.25</u>	<u>5.00</u>	<u>5.00</u>	<u>5.00</u>	<u>7.50</u>	<u>.25</u>	<u>6.00</u>	<u>3.25</u>	<u>7.25</u>	<u>3.00</u>	
August .....	<u>.25</u>	<u>7.25</u>	<u>4.00</u>	<u>5.50</u>	<u>1.50</u>	<u>3.75</u>	<u>2.25</u>	<u>3.50</u>	<u>3.75</u>	<u>4.25</u>	
September ....	<u>6.00</u>	<u>4.00</u>	<u>3.00</u>	<u>6.00</u>	<u>6.75</u>	<u>6.00</u>	<u>6.50</u>	<u>5.63</u>	<u>1.00</u>	<u>2.00</u>	
October .....	<u>2.00</u>	<u>11.00</u>	<u>(3.50)</u>	<u>6.25</u>	<u>3.00</u>	<u>6.75</u>	<u>7.50</u>	<u>3.50</u>	<u>8.00</u>	<u>7.50</u>	
November ....	<u>8.00</u>		<u>6.25</u>	<u>7.00</u>	<u>4.00</u>	<u>2.50</u>	<u>5.00</u>	<u>4.00</u>	<u>8.25</u>	<u>1.50</u>	
December ....	<u>5.25</u>	<u>5.50</u>	<u>5.00</u>	<u>3.75</u>	<u>7.00</u>	<u>3.00</u>	<u>7.75</u>	<u>5.00</u>	<u>5.50</u>	<u>3.50</u>	
TOTALS ....	<u>48.25</u>	<u>51.50</u>	<u>(56.00)</u>	<u>69.50</u>	<u>58.38</u>	<u>48.50</u>	<u>62.75</u>	<u>41.38</u>	<u>51.00</u>	<u>39.25</u>	

1882. Oct. 7. Gauge out of order amount computed

July 1885      2.50 ?



RAINFALL AT Willowater Swarth Fell 80

Lat. .... Lon. .... County of Westmoreland  
Rain Gauge, by .... Observer G. J. Symons Esq F.R.S

6den - 1.

Diameter ....								5			
Height .....											
Altitude ....											
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....								6.60	2.90	3.30	
February ....								4.20	.90	1.50	
March .....								2.00	5.00	2.60	
April .....								3.00	3.30	4.40	
May .....								1.60	3.60	4.10	
June .....								10	1.40	1.00	
July ..								(3.25)	7.20	3.60	
August .....								3.20	3.70	4.30	
September....								5.60	.90	1.80	
October ....								3.30	7.50	8.30	
November....								3.90	9.50	1.30	
December ....								5.30	6.60	4.20	
TOTALS ....								(42.05)	52.50	40.40	

1887 July Pipe choked old g-figure interpolated



RAINFALL AT *Patterdale Hall*

3678  
80

Lat. .... Lon. .... County of *Westmoreland*  
Rain Gauge, by ..... Observer *W. R. Burn*  
*W. D. Taylor*

*Eden - 1*

Diameter ....	<i>7</i>										
Height .....	<i>1.8</i>										
Altitude ....	<i>490T</i>										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	<i>3.13</i>	<i>.63</i>	<i>7.15</i>	<i>18.53</i>	<i>13.23</i>	<i>6.25</i>	<i>9.75</i>	<i>8.03</i>	<i>4.19</i>	<i>4.68</i>	<i>7.557</i>
February ....	<i>13.68</i>	<i>7.62</i>	<i>11.35</i>	<i>15.28</i>	<i>13.10</i>	<i>19.85</i>	<i>2.49</i>	<i>4.17</i>	<i>1.53</i>	<i>3.45</i>	<i>9.252</i>
March .....	<i>4.41</i>	<i>9.58</i>	<i>8.45</i>	<i>6.08</i>	<i>7.71</i>	<i>7.32</i>	<i>9.77</i>	<i>3.23</i>	<i>7.63</i>	<i>3.56</i>	<i>6.774</i>
April .....	<i>7.17</i>	<i>1.91</i>	<i>7.47</i>	<i>3.85</i>	<i>3.60</i>	<i>6.82</i>	<i>6.84</i>	<i>4.83</i>	<i>4.19</i>	<i>4.74</i>	<i>5.142</i>
May .....	<i>2.24</i>	<i>6.68</i>	<i>6.42</i>	<i>2.87</i>	<i>7.04</i>	<i>5.48</i>	<i>7.63</i>	<i>2.75</i>	<i>6.86</i>	<i>5.22</i>	<i>5.319</i>
June .....	<i>5.11</i>	<i>7.59</i>	<i>6.97</i>	<i>5.53</i>	<i>1.08</i>	<i>1.80</i>	<i>2.49</i>	<i>.48</i>	<i>2.46</i>	<i>1.40</i>	<i>3.491</i>
July .....	<i>6.40</i>	<i>7.03</i>	<i>13.68</i>	<i>5.25</i>	<i>8.54</i>	<i>3.44</i>	<i>7.06</i>	<i>6.17</i>	<i>9.41</i>	<i>4.07</i>	<i>7.105</i>
August .....	<i>2.32</i>	<i>7.24</i>	<i>5.55</i>	<i>5.91</i>	<i>1.09</i>	<i>5.07</i>	<i>3.28</i>	<i>3.21</i>	<i>5.60</i>	<i>7.11</i>	<i>4.638</i>
September ....	<i>7.06</i>	<i>3.20</i>	<i>5.60</i>	<i>9.25</i>	<i>9.05</i>	<i>9.36</i>	<i>13.35</i>	<i>7.82</i>	<i>1.41</i>	<i>3.52</i>	<i>6.962</i>
October .....	<i>3.51</i>	<i>4.48</i>	<i>6.47</i>	<i>10.30</i>	<i>6.51</i>	<i>11.76</i>	<i>8.74</i>	<i>4.32</i>	<i>12.65</i>	<i>11.43</i>	<i>8.017</i>
November ....	<i>12.20</i>	<i>18.33</i>	<i>13.88</i>	<i>14.95</i>	<i>5.91</i>	<i>6.93</i>	<i>9.16</i>	<i>4.95</i>	<i>16.17</i>	<i>3.77</i>	<i>10.630</i>
December ....	<i>8.39</i>	<i>10.76</i>	<i>7.48</i>	<i>7.80</i>	<i>13.21</i>	<i>3.64</i>	<i>13.23</i>	<i>8.91</i>	<i>13.28</i>	<i>8.21</i>	<i>9.491</i>
TOTALS ....	<i>75.62</i>	<i>85.05</i>	<i>100.47</i>	<i>105.60</i>	<i>90.12</i>	<i>87.72</i>	<i>93.79</i>	<i>58.87</i>	<i>85.38</i>	<i>61.16</i>	<i>84.378</i>



RAINFALL AT Grisdale Rushwater Lodge

Lat. ....

*Lon.*

County of Westmoreland

*Rain Gauge, by.*

Observer

*Wamilue*

Eden - 1. monthly

[illegible]



# RAINFALL AT *Patterdale, Greenside Mine*

3679  
80

Lat. ....

Lon. ....

County of

*Westmoreland*

Rain Gauge, by

Observer

*W<sup>r</sup> J Taylor*

*Eden - 1.*

Diameter ....	<i>7</i>										
Height .....	<i>1.6</i>										
Altitude ....	<i>1000T</i>										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	<i>4.29</i>	<i>1.50</i>	<i>10.13</i>	<i>17.89</i>	<i>18.39</i>	<i>6.46</i>	<i>8.15</i>	<i>7.86</i>	<i>4.06</i>	<i>5.90</i>	<i>8.463</i>
February ....	<i>13.93</i>	<i>6.41</i>	<i>12.39</i>	<i>14.77</i>	<i>12.44</i>	<i>21.99</i>	<i>2.57</i>	<i>5.80</i>	<i>2.48</i>	<i>4.16</i>	<i>9.694</i>
March .....	<i>4.95</i>	<i>9.17</i>	<i>9.79</i>	<i>5.82</i>	<i>9.22</i>	<i>7.13</i>	<i>8.57</i>	<i>3.16</i>	<i>6.41</i>	<i>4.62</i>	<i>6.884</i>
April .....	<i>8.67</i>	<i>1.89</i>	<i>10.10</i>	<i>3.92</i>	<i>3.61</i>	<i>6.39</i>	<i>7.36</i>	<i>6.58</i>	<i>5.98</i>	<i>4.75</i>	<i>5.925</i>
May .....	<i>2.60</i>	<i>8.80</i>	<i>9.55</i>	<i>4.84</i>	<i>8.04</i>	<i>5.58</i>	<i>7.36</i>	<i>2.74</i>	<i>5.21</i>	<i>5.04</i>	<i>5.976</i>
June .....	<i>5.59</i>	<i>8.12</i>	<i>8.48</i>	<i>5.61</i>	<i>3.33</i>	<i>2.67</i>	<i>3.08</i>	<i>.62</i>	<i>3.59</i>	<i>1.02</i>	<i>4.211</i>
July .....	<i>6.35</i>	<i>7.99</i>	<i>14.87</i>	<i>4.98</i>	<i>9.57</i>	<i>4.29</i>	<i>8.57</i>	<i>7.30</i>	<i>9.62</i>	<i>4.41</i>	<i>7.795</i>
August .....	<i>2.88</i>	<i>9.12</i>	<i>6.24</i>	<i>7.72</i>	<i>1.50</i>	<i>5.80</i>	<i>3.85</i>	<i>3.65</i>	<i>7.20</i>	<i>9.37</i>	<i>5.733</i>
September ....	<i>8.13</i>	<i>2.80</i>	<i>5.45</i>	<i>10.43</i>	<i>10.70</i>	<i>12.76</i>	<i>14.54</i>	<i>10.18</i>	<i>3.07</i>	<i>4.67</i>	<i>8.273</i>
October .....	<i>2.40</i>	<i>5.03</i>	<i>8.08</i>	<i>12.66</i>	<i>8.96</i>	<i>11.14</i>	<i>9.45</i>	<i>4.91</i>	<i>13.91</i>	<i>11.85</i>	<i>8.839</i>
November ....	<i>15.84</i>	<i>18.73</i>	<i>17.13</i>	<i>16.74</i>	<i>7.81</i>	<i>6.59</i>	<i>9.50</i>	<i>6.00</i>	<i>17.57</i>	<i>4.54</i>	<i>12.045</i>
December ....	<i>7.93</i>	<i>10.58</i>	<i>8.21</i>	<i>8.97</i>	<i>14.12</i>	<i>6.30</i>	<i>14.08</i>	<i>9.25</i>	<i>12.70</i>	<i>9.13</i>	<i>10.127</i>
TOTALS ....	<i>83.56</i>	<i>90.14</i>	<i>120.42</i>	<i>114.35</i>	<i>107.69</i>	<i>97.10</i>	<i>97.08</i>	<i>68.05</i>	<i>91.80</i>	<i>69.46</i>	<i>93.965</i>

*1887 Patterdale Church 2 miles S E*



RAINFALL AT Asby Town Head

Lat. ....

Lon. ....

County of Westmoreland

Rain Gauge, by .....

Observer Mr J Bennett

Eden - 1

Diameter . . .										5	5	
Height . . . . .										1.0	1.0	
Altitude . . . .										685	685T	
Year . . . . .	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January . . . .									1.87	2.45		
February . . . .									1.77	1.92		
March . . . . .									3.99	2.12		
April . . . . .									2.21	2.65		
May . . . . .									2.97	2.41		
June . . . . .									1.59	1.62		
July . . . . .									5.88	2.87		
August . . . . .									2.65	5.20		
September . . . .									1.06	1.31		
October . . . . .									6.02	5.57		
November . . . .									7.91	2.13		
December . . . .									3.99	4.16		
TOTALS . . . .									41.91	34.41		

Asby Church 1/4 mile N



RAINFALL AT *Haweswater, Measandbeck*

80

Lat. ....

Lon. ....

County of *Westmoreland*

Rain Gauge, by .....

Observer *G. I. Symonds Esq. F.R.S.*

*Eden - 1.*

Diameter ....	<i>8</i>										
Height .....	<i>1. 0</i>										
Altitude ....	<i>861 <math>\overline{\text{A}}</math></i>										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	<i>1.50</i>	<i>.50</i>	<i>2.25</i>		<i>9.75 <math>\#</math></i>						
February ....	<i>9.00</i>	<i>4.50</i>	<i>6.25</i>	<i>2.50</i>							
March .....	<i>2.00</i>	<i>1.50</i>	<i>5.00</i>	<i>.25</i>							
April .....	<i>.50</i>	<i>2.50</i>	<i>6.75</i>	<i>4.25</i>							
May .....	<i>1.00</i>	<i>3.50</i>	<i>3.00</i>	<i>5.75</i>							
June .....	<i>2.50</i>	<i>4.50</i>	<i>4.00</i>	<i>4.00</i>							
July .....	<i>4.25</i>	<i>5.00</i>	<i>8.75</i>	<i>1.75</i>							
August .....	<i>1.50</i>	<i>6.50</i>	<i>5.75</i>	<i>6.50</i>							
September ....	<i>4.75</i>	<i>3.00</i>	<i>2.50</i>								
October .....	<i>2.50</i>	<i>3.50</i>	<i>1.50</i>	<i>4.75</i>							
November ....	<i>8.50</i>	<i>9.75</i>	<i>6.25</i>								
December ....	<i>5.00</i>	<i>7.00</i>	<i>5.50</i>								
TOTALS ....	<i>43.00</i>	<i>51.75</i>	<i>57.50</i>								



RAINFALL AT *Shap, Comp. Hill*

80

Lat.....

Lon.....

County of

*Westmoreland*

Rain Gauge, by.....

Observer *Mr. W. Hoggarth*

*Eden - 1*

Diameter ....	<i>5</i>										
Height .....	<i>1.0</i>										
Altitude ....	<i>852</i>										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	<i>2.17</i>	<i>.51</i>	<i>5.39</i>	<i>13.09</i>	<i>9.68</i>	<i>5.03</i>	<i>7.46</i>	<i>7.39</i>	<i>2.89</i>	<i>3.13</i>	<i>5.674</i>
February ....	<i>8.13</i>	<i>5.50</i>	<i>7.29</i>	<i>7.97</i>	<i>7.45</i>	<i>12.89</i>	<i>1.70</i>	<i>4.24</i>	<i>1.25</i>	<i>1.94</i>	<i>5.836</i>
March .....	<i>2.79</i>	<i>5.36</i>	<i>5.67</i>	<i>3.67</i>	<i>5.31</i>	<i>4.88</i>	<i>5.97</i>	<i>1.53</i>	<i>4.68</i>	<i>2.67</i>	<i>4.253</i>
April .....	<i>4.02</i>	<i>1.11</i>	<i>5.72</i>	<i>2.08</i>	<i>2.01</i>	<i>3.70</i>	<i>4.87</i>	<i>3.51</i>	<i>2.77</i>	<i>3.17</i>	<i>3.296</i>
May .....	<i>1.12</i>	<i>4.50</i>	<i>3.15</i>	<i>2.95</i>	<i>4.22</i>	<i>3.10</i>	<i>5.08</i>	<i>1.53</i>	<i>3.45</i>	<i>2.55</i>	<i>3.195</i>
June .....	<i>2.85</i>	<i>4.70</i>	<i>4.25</i>	<i>4.27</i>	<i>.64</i>	<i>1.43</i>	<i>1.63</i>	<i>.28</i>	<i>1.50</i>	<i>2.31</i>	<i>2.386</i>
July .....	<i>3.96</i>	<i>5.45</i>	<i>8.69</i>	<i>3.65</i>	<i>5.77</i>	<i>2.88</i>	<i>7.59</i>	<i>2.96</i>	<i>6.60</i>	<i>3.46</i>	<i>5.101</i>
August .....	<i>1.12</i>	<i>6.22</i>	<i>3.42</i>	<i>3.50</i>	<i>.86</i>	<i>3.21</i>	<i>2.32</i>	<i>1.69</i>	<i>3.08</i>	<i>4.73</i>	<i>3.015</i>
September....	<i>4.57</i>	<i>2.69</i>	<i>2.50</i>	<i>4.75</i>	<i>5.40</i>	<i>6.77</i>	<i>7.81</i>	<i>5.19</i>	<i>.69</i>	<i>1.12</i>	<i>4.149</i>
October.....	<i>1.59</i>	<i>2.81</i>	<i>4.17</i>	<i>7.00</i>	<i>2.40</i>	<i>6.13</i>	<i>7.04</i>	<i>2.10</i>	<i>9.50</i>	<i>7.05</i>	<i>4.979</i>
November....	<i>10.88</i>	<i>12.31</i>	<i>6.88</i>	<i>8.39</i>	<i>4.39</i>	<i>3.65</i>	<i>6.38</i>	<i>3.78</i>	<i>8.27</i>	<i>2.78</i>	<i>6.771</i>
December ....	<i>5.65</i>	<i>7.96</i>	<i>5.70</i>	<i>3.95</i>	<i>9.92</i>	<i>3.56</i>	<i>8.02</i>	<i>5.43</i>	<i>8.12</i>	<i>4.34</i>	<i>6.265</i>
TOTALS ....	<i>48.85</i>	<i>59.12</i>	<i>62.83</i>	<i>65.27</i>	<i>58.05</i>	<i>57.23</i>	<i>65.87</i>	<i>39.63</i>	<i>52.80</i>	<i>39.55</i>	<i>54.920</i>

*1880. St. Michaels Church, 1/2 mile N.E.*

*1882. Flowers 4 in. high 1 ft E and W.*

*1919. Copytree is 1/2 mi W. of Shap. cs.*



RAINFALL AT Crosby Ravensworth Reagill

80

Lat. .... Lon. .... County of Westmorland

Rain Gauge, by ... Observer M<sup>r</sup> Wilkinson

Eden - 1.

Diameter ...		8									
Height .....		0.6									
Altitude ....		8907									
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ...	1.49	.35	3.58	9.00	7.71	3.09	3.03	4.54	1.68	1.97	3.644
February ...	5.67	3.51	5.02	6.25	6.04	8.93	.77	2.71	.34	1.15	4.039
March .....	2.13	4.01	3.93	1.64	4.40	2.69	4.01	1.45	2.17	1.64	2.807
April .....	2.86	1.23	4.78	1.65	1.13	1.34	3.82	2.76	1.79	2.16	2.352
May .....	1.01	2.91	1.92	1.77	2.74	2.62	4.24	1.79	2.59	3.11	2.470
June .....	3.19	3.47	3.60	4.08	.45	1.12	1.53	.22	1.51	1.40	2.057
July .....	4.95	4.81	5.41	3.65	4.84	1.78	6.16	2.17	6.18	3.14	4.309
August .....	1.00	4.75	4.03	2.94	1.20	2.40	1.57	1.46	3.00	4.29	2.664
September ...	3.77	2.59	1.94	3.88	3.91	4.89	6.05	4.03	.58	1.17	3.281
October .....	1.21	2.29	3.13	4.76	2.16	4.93	6.60	1.51	6.26	5.00	3.785
November ...	6.74	9.30	5.31	5.59	3.30	2.58	4.29	2.93	6.16	1.53	4.773
December ...	(4.08)	6.72	3.54	3.04	5.00	2.52	6.62	3.81	5.55	3.50	(4.438)
TOTALS ...	(38.10)	45.94	46.19	48.25	42.88	38.89	48.69	29.38	37.81	30.06	(40.619)

881 Crosby Ravensworth 2 miles S.E.

Trees 12 ft high 30 ft S.E.

1880 Dec<sup>r</sup> yield of S. estimated

1890 Jan 10.24, Feb 61, March 2.37, April .89 in. T



RAINFALL AT *Shap Copey Hill*

Lat. ....

Lon. ....

County of *Westmoreland*

Rain Gauge, by .....

Observer *Mr W Hoggarth**Eaen - 1 monthly*

Diameter ....								5			
Height .....								1.0			
Altitude ....								852 $\uparrow$			
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....								7.35	2.90	3.15	
February ....								4.25	1.20	1.95	
March .....								1.50	4.65	2.68	
April .....								3.50	2.80	3.15	
May .....								1.55	3.45	2.90	
June .....								2.27	1.50	2.30	
July ..								2.95	6.55	3.40	
August .....								1.68	3.10	4.75	
September....								5.20	7.0	1.15	
October ....								2.10	9.50	7.00	
November....								3.75	8.30	2.80	
December ....								5.40	8.15	4.30	
TOTALS ....								39.50	52.80	39.53	



RAINFALL AT

Brougham Hall

80

Lat.....

Lon.....

County of

Westmoreland

Rain Gauge, by.....

Observer

W. A. Lodge

Eden - 1.

Diameter ....	5										
Height .....	5.5										
Altitude ....	470										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	.65	.38	2.10	4.67	5.90	2.45					
February ....	4.34	4.13	2.23	5.73	4.41	4.47					
March .....	1.43	2.91	2.70	2.97	3.31	2.09					
April .....	1.70	.73	4.03	1.54	1.62	2.36					
May .....	1.18	2.08	.84	.68	2.13	2.10					
June .....	1.54	2.06	3.21	3.27	1.01	1.23					
July .....	4.74	3.55	4.43	3.99	5.42	.72					
August .....	1.14	4.23	2.92	2.63	1.44	2.08					
September ....	4.56	3.55	1.77	4.16	3.69	3.17					
October .....	1.07	2.14	2.61	4.52	2.17	3.60					
November ....	4.92	6.18	4.98	4.00	2.22	2.12					
December ....	4.34	3.68	3.19	3.31	3.76	1.67					
TOTALS ....	31.61	35.62	35.01	44.47	37.08	28.06	N.R.				



# RAINFALL AT *Milburn*

80

Lat. ....

Lon. ....

County of *Westmoreland*

Rain Gauge, by .....

Observer *Miss Robinson*

*Eden - 1*

Diameter ....	<i>5</i>										
Height .....	<i>1.0</i>										
Altitude ....	<i>634T</i>		<i>644T</i>								
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	<i>.92</i>	<i>.29</i>	<i>1.77</i>	<i>4.47</i>	<i>4.21</i>	<i>1.58</i>	<i>5.19</i>	<i>2.10</i>		<i>1.51</i>	
February ....	<i>3.01</i>	<i>2.28</i>	<i>1.72</i>	<i>3.39</i>	<i>2.99</i>	<i>3.49</i>	<i>.71</i>	<i>1.31</i>		<i>1.28</i>	
March .....	<i>1.59</i>	<i>2.46</i>	<i>2.03</i>	<i>1.63</i>	<i>2.43</i>	<i>2.03</i>	<i>2.45</i>	<i>1.53</i>		<i>1.89</i>	
April .....	<i>2.09</i>	<i>1.04</i>	<i>4.44</i>	<i>1.35</i>	<i>.93</i>	<i>1.63</i>	<i>2.01</i>	<i>2.11</i>		<i>1.69</i>	
May .....	<i>1.23</i>	<i>1.42</i>	<i>.69</i>	<i>1.12</i>	<i>1.37</i>	<i>2.51</i>	<i>4.06</i>	<i>1.87</i>		<i>2.23</i>	
June .....	<i>2.75</i>	<i>2.09</i>	<i>3.81</i>	<i>4.54</i>	<i>.49</i>	<i>1.03</i>	<i>1.57</i>	<i>.38</i>		<i>1.18</i>	
July .....	<i>6.96</i>	<i>3.72</i>	<i>4.99</i>	<i>4.58</i>	<i>6.43</i>	<i>1.48</i>	<i>5.07</i>	<i>1.49</i>		<i>2.98</i>	
August .....	<i>.84</i>	<i>3.96</i>	<i>3.39</i>	<i>2.75</i>	<i>1.27</i>	<i>1.64</i>	<i>1.96</i>	<i>1.75</i>		<i>6.02</i>	
September ....	<i>3.87</i>	<i>2.77</i>	<i>2.02</i>	<i>3.57</i>	<i>3.82</i>	<i>2.88</i>	<i>3.14</i>	<i>5.01</i>		<i>1.83</i>	
October .....	<i>2.52</i>	<i>2.00</i>	<i>2.86</i>	<i>4.25</i>	<i>2.23</i>	<i>3.59</i>	<i>5.97</i>	<i>1.19</i>		<i>4.97</i>	
November ....	<i>3.17</i>	<i>4.31</i>	<i>5.19</i>	<i>3.24</i>	<i>1.77</i>	<i>1.92</i>	<i>3.82</i>	<i>2.71</i>		<i>1.95</i>	
December ....	<i>3.76</i>	<i>3.07</i>	<i>3.15</i>	<i>2.82</i>	<i>2.97</i>	<i>1.56</i>	<i>5.34</i>	<i>3.41</i>		<i>2.60</i>	
TOTALS ....	<i>32.71</i>	<i>29.41</i>	<i>36.06</i>	<i>37.71</i>	<i>30.91</i>	<i>25.34</i>	<i>41.29</i>	<i>24.86</i>	<i>91.10</i>	<i>30.13</i>	

*1880. Milburn*

*1/4 mile S.*

*Trees 18ft high 31ft NE.*



# RAINFALL AT *Lowther Castle*

80

Lat. ....

Lon. ....

County of

*Westmorland*

Rain Gauge, by

Observer

*W. H. Shand*

*Mr. F. Clarke*

*Eden - 1*

Diameter ....	<i>8</i>										
Height .....	<i>3.0</i>					<i>3.6</i>		<i>4.0</i>	<i>3.6</i>		
Altitude ....	<i>750 T</i>										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	<i>.91</i>	<i>.14</i>	<i>(2.22)</i>	<i>7.60</i>	<i>6.32</i>	<i>1.88</i>	<i>3.08</i>	<i>3.29</i>	<i>2.19</i>	<i>4.58</i>	
February ....	<i>5.33</i>	<i>3.55</i>	<i>(2.33)</i>	<i>5.96</i>	<i>5.70</i>	<i>5.71</i>	<i>2.40</i>	<i>1.99</i>	<i>1.26</i>	<i>1.12</i>	
March .....	<i>2.07</i>	<i>3.87</i>	<i>(2.25)</i>	<i>3.04</i>	<i>3.38</i>	<i>1.26</i>	<i>2.94</i>	<i>1.97</i>	<i>2.32</i>	<i>1.55</i>	
April .....	<i>2.69</i>	<i>1.33</i>	<i>(4.22)</i>	<i>1.74</i>	<i>1.17</i>	<i>.49</i>	<i>5.65</i>	<i>1.85</i>	<i>2.03</i>	<i>2.39</i>	
May .....	<i>.34</i>	<i>2.12</i>	<i>(.89)</i>	<i>1.13</i>	<i>1.65</i>	<i>1.89</i>	<i>5.87</i>	<i>1.69</i>	<i>2.75</i>	<i>3.19</i>	
June .....	<i>4.06</i>	<i>2.72</i>	<i>(3.40)</i>	<i>3.44</i>	<i>.89</i>	<i>1.03</i>	<i>1.65</i>	<i>.14</i>	<i>1.29</i>	<i>1.12</i>	
July .....	<i>4.83</i>	<i>3.71</i>	<i>(4.62)</i>	<i>4.31</i>	<i>5.30</i>	<i>1.34</i>	<i>4.48</i>	<i>2.14</i>	<i>5.64</i>	<i>2.45</i>	
August .....	<i>1.29</i>	<i>4.95</i>	<i>(3.07)</i>	<i>1.52</i>	<i>.50</i>	<i>2.22</i>	<i>.98</i>	<i>1.86</i>	<i>2.96</i>	<i>4.10</i>	
September ....	<i>4.01</i>	<i>3.95</i>	<i>(2.07)</i>	<i>4.56</i>	<i>2.50</i>	<i>3.45</i>	<i>4.14</i>	<i>4.35</i>	<i>.68</i>	<i>1.77</i>	
October .....	<i>1.60</i>	<i>2.25</i>	<i>(2.74)</i>	<i>4.33</i>	<i>1.43</i>	<i>6.01</i>	<i>6.70</i>	<i>1.86</i>	<i>2.93</i>	<i>5.37</i>	
November ....	<i>3.99</i>	<i>7.36</i>	<i>(5.22)</i>	<i>4.77</i>	<i>3.57</i>	<i>3.16</i>	<i>3.50</i>	<i>3.46</i>	<i>6.58</i>	<i>1.91</i>	
December ....	<i>1.42</i>	<i>5.04</i>	<i>(3.37)</i>	<i>2.96</i>	<i>3.83</i>	<i>2.06</i>	<i>5.84</i>	<i>4.18</i>	<i>5.22</i>	<i>2.95</i>	
TOTALS ....	<i>32.54</i>	<i>40.99</i>	<i>(37.00)</i>	<i>45.36</i>	<i>36.24</i>	<i>30.50</i>	<i>47.23</i>	<i>28.78</i>	<i>35.85</i>	<i>32.50</i>	<i>(36.69)</i>

*1882 estimated from Braughton Hall*

*Rejected from survey : 6" too low.*



# RAINFALL AT *Scurwith, Fell Lane, Fir Bank* 80

Lat. ....

Lon. ....

County of

*Cumberland*

Rain Gauge, by

Observer

*J. Lester, Esq.*

*Eden & Solway - 1*

Diameter ....	<i>5</i>										
Height .....	<i>1.0</i>										
Altitude ....	<i>575 T</i>										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	<i>.45</i>	<i>.40</i>	<i>1.92</i>	<i>4.43</i>	<i>5.40</i>	<i>1.93</i>	<i>4.37</i>	<i>2.76</i>	<i>1.70</i>	<i>1.81</i>	<i>2.517</i>
February ....	<i>3.27</i>	<i>2.97</i>	<i>2.19</i>	<i>4.89</i>	<i>3.36</i>	<i>3.13</i>	<i>1.06</i>	<i>1.46</i>	<i>1.17</i>	<i>1.83</i>	<i>2.533</i>
March .....	<i>1.29</i>	<i>2.21</i>	<i>2.72</i>	<i>2.49</i>	<i>3.06</i>	<i>2.20</i>	<i>2.30</i>	<i>1.31</i>	<i>2.43</i>	<i>1.03</i>	<i>2.104</i>
April .....	<i>1.74</i>	<i>.79</i>	<i>3.81</i>	<i>1.64</i>	<i>1.20</i>	<i>2.33</i>	<i>2.35</i>	<i>1.32</i>	<i>1.88</i>	<i>1.90</i>	<i>1.896</i>
May .....	<i>1.37</i>	<i>2.14</i>	<i>1.30</i>	<i>.53</i>	<i>1.99</i>	<i>2.36</i>	<i>4.72</i>	<i>1.31</i>	<i>1.94</i>	<i>2.66</i>	<i>2.032</i>
June .....	<i>1.91</i>	<i>2.60</i>	<i>3.46</i>	<i>2.21</i>	<i>1.26</i>	<i>1.21</i>	<i>1.37</i>	<i>.20</i>	<i>1.23</i>	<i>.97</i>	<i>1.642</i>
July .....	<i>4.96</i>	<i>3.97</i>	<i>4.45</i>	<i>3.75</i>	<i>4.99</i>	<i>1.13</i>	<i>5.27</i>	<i>1.48</i>	<i>5.91</i>	<i>2.01</i>	<i>3.792</i>
August .....	<i>1.04</i>	<i>4.71</i>	<i>3.07</i>	<i>2.22</i>	<i>1.09</i>	<i>2.17</i>	<i>1.33</i>	<i>1.83</i>	<i>2.65</i>	<i>3.88</i>	<i>2.399</i>
September ....	<i>4.00</i>	<i>3.40</i>	<i>1.95</i>	<i>4.09</i>	<i>2.84</i>	<i>2.44</i>	<i>4.01</i>	<i>3.97</i>	<i>.70</i>	<i>1.79</i>	<i>2.916</i>
October .....	<i>1.05</i>	<i>1.95</i>	<i>2.92</i>	<i>5.35</i>	<i>1.98</i>	<i>3.70</i>	<i>5.47</i>	<i>2.05</i>	<i>2.60</i>	<i>4.34</i>	<i>3.141</i>
November ....	<i>4.18</i>	<i>5.99</i>	<i>4.59</i>	<i>3.42</i>	<i>1.17</i>	<i>2.07</i>	<i>2.55</i>	<i>2.84</i>	<i>4.60</i>	<i>1.39</i>	<i>3.280</i>
December ....	<i>4.81</i>	<i>3.17</i>	<i>3.55</i>	<i>2.52</i>	<i>3.55</i>	<i>1.44</i>	<i>5.63</i>	<i>3.62</i>	<i>2.60</i>	<i>2.42</i>	<i>3.331</i>
TOTALS ....	<i>30.07</i>	<i>34.30</i>	<i>35.93</i>	<i>37.54</i>	<i>31.89</i>	<i>26.08</i>	<i>40.43</i>	<i>24.15</i>	<i>29.41</i>	<i>26.03</i>	<i>31.583</i>

*1881. St. Andrews*

*$\frac{1}{2}$  mile  
500 yards*

*WSW  
S.S.W.*



# RAINFALL AT *Perrith Nandarra* 80

Lat. .... Lon. .... County of *Cumberland*  
 Rain Gauge, by .... Observer *G. Varty Smith Esq.*

*Eden & Solway - 1.*

Diameter ....								5			
Height .....								5.0		40	
Altitude ....								625T	650	625T	
Year.....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....								2.34	1.20	1.79	
February ....								1.48	.92	1.49	
March .....								1.10	1.92	1.03	
April .....								1.14	1.92	1.78	
May .....								1.59	1.73	2.46	
June .....								.18	1.31	1.03	
July .. ...								1.38	5.91	2.05	
August .....								1.79	2.71	3.96	
September....								3.81	.83	1.75	
October ....								1.86	2.40	4.28	
November....								2.40	4.80	1.36	
December ....								3.58	2.70	2.39	
TOTALS ....								22.65	28.35	25.37	

1887 *Perrith Church 1/2 mile WNW*



RAINFALL AT *Pennith Greystoke Castle* **80**

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

*Grossby* Rain Gauge, by .... Observer .....

*Eden & Solway - 1*

Diameter ....					10	□						
Height .....					5	-						
Altitude ....												
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January ....						2.78	4.87					
February ....						5.21	2.05					
March .....					<sup>#</sup> 4.17	3.05	5.32					
April .....					2.54	3.69	2.07					
May .....					2.49	2.44	5.72					
June .....					1.14	1.30	1.76					
July ..					6.92	1.10	1.52					
August .....					1.56	2.73	2.00					
September ....					4.26	4.55	2.93					
October ....					2.50	3.38	7.50					
November ....					2.70	2.50	2.55					
December ....					5.76	3.09	5.30					
TOTALS ....						35.82	43.59					

*Copied from the original register by T. G. Benn*

*Rejected from survey 2" low*



# RAINFALL AT *Appleby*

80

Lat. ....

Lon. ....

County of *Westmoreland*

Rain Gauge, by .....

Observer *Dr Armstrong*

*Eden - 1*

Diameter ....	<i>5</i>											
Height .....	<i>1.0</i>											
Altitude ....	<i>442</i>											
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January ....	<i>1.02</i>	<i>38</i>	<i>2.08</i>	<i>6.27</i>	<i>5.49</i>	<i>1.87</i>	<i>5.10</i>	<i>3.05</i>	<i>1.86</i>	<i>1.45</i>	<i>2.857</i>	
February ....	<i>3.98</i>	<i>3.41</i>	<i>2.95</i>	<i>3.56</i>	<i>3.52</i>	<i>4.45</i>	<i>1.04</i>	<i>1.50</i>	<i>.92</i>	<i>1.41</i>	<i>2.674</i>	
March .....	<i>1.72</i>	<i>2.98</i>	<i>2.57</i>	<i>1.41</i>	<i>2.23</i>	<i>1.74</i>	<i>2.94</i>	<i>1.41</i>	<i>2.97</i>	<i>1.20</i>	<i>2.117</i>	
April .....	<i>1.83</i>	<i>1.05</i>	<i>4.03</i>	<i>1.37</i>	<i>.96</i>	<i>1.49</i>	<i>2.64</i>	<i>1.82</i>	<i>1.34</i>	<i>1.54</i>	<i>1.807</i>	
May .....	<i>1.22</i>	<i>2.01</i>	<i>1.86</i>	<i>.98</i>	<i>1.87</i>	<i>2.40</i>	<i>3.96</i>	<i>1.61</i>	<i>2.03</i>	<i>2.30</i>	<i>2.024</i>	
June .....	<i>2.03</i>	<i>2.61</i>	<i>3.82</i>	<i>4.58</i>	<i>.35</i>	<i>1.05</i>	<i>2.10</i>	<i>.24</i>	<i>.99</i>	<i>1.45</i>	<i>1.922</i>	
July .....	<i>5.89</i>	<i>4.61</i>	<i>5.63</i>	<i>3.51</i>	<i>4.73</i>	<i>1.29</i>	<i>5.25</i>	<i>1.70</i>	<i>5.62</i>	<i>2.94</i>	<i>4.117</i>	
August .....	<i>1.51</i>	<i>4.41</i>	<i>2.36</i>	<i>2.19</i>	<i>1.01</i>	<i>1.50</i>	<i>2.04</i>	<i>1.71</i>	<i>2.47</i>	<i>4.92</i>	<i>2.412</i>	
September ....	<i>3.99</i>	<i>2.61</i>	<i>2.15</i>	<i>3.25</i>	<i>3.29</i>	<i>2.82</i>	<i>3.57</i>	<i>4.86</i>	<i>.78</i>	<i>1.44</i>	<i>2.876</i>	
October .....	<i>2.19</i>	<i>2.06</i>	<i>2.64</i>	<i>3.82</i>	<i>1.48</i>	<i>3.21</i>	<i>5.57</i>	<i>1.04</i>	<i>3.51</i>	<i>4.83</i>	<i>3.035</i>	
November ....	<i>4.10</i>	<i>6.32</i>	<i>4.78</i>	<i>3.56</i>	<i>2.26</i>	<i>1.77</i>	<i>3.21</i>	<i>2.54</i>	<i>4.69</i>	<i>1.51</i>	<i>3.474</i>	
December ....	<i>3.64</i>	<i>3.87</i>	<i>3.00</i>	<i>2.99</i>	<i>4.29</i>	<i>1.69</i>	<i>5.48</i>	<i>3.20</i>	<i>3.44</i>	<i>2.72</i>	<i>3.432</i>	
TOTALS ....	<i>33.12</i>	<i>36.32</i>	<i>37.87</i>	<i>37.49</i>	<i>31.48</i>	<i>25.28</i>	<i>42.90</i>	<i>24.68</i>	<i>30.62</i>	<i>27.71</i>	<i>32.747</i>	

*1880. St. Lawrence Church, 150 yards N.W.*  
*1885 Gauge moved about 100 yards S.*



# RAINFALL AT *Ullswater, Sharncliffe*

80

Lat. ....

Lon. ....

County of

*Westmoreland*

Rain Gauge, by

Observer

*A. Parkin, Esq.*

*Eden - 1*

Diameter ....	8										
Height .....	1.6										
Altitude ....	500 T										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	.25		2.50	9.25	7.50	2.34	5.00	4.25			
February ....	7.25	3.00	4.75	10.25	7.00	7.66	1.00	3.25			
March .....	1.75	3.75	4.25	3.50	5.25	4.00	3.75	1.25			
April .....	3.00	1.25	5.50	2.50	1.75	3.00	3.00	2.75			
May .....	1.00	4.00	2.50	1.00	2.50	1.75	6.25	1.50			
June .....	2.25	2.75	3.50	3.25	1.25	.75	1.25	.00			
July .....	4.50	4.75	4.00	3.75	6.50	1.00	4.75	2.75			
August .....	1.00	3.50	2.50	2.75	.50	1.00	1.25	1.75			
September ....	5.00	2.75	3.50	5.00	5.75	5.50	5.75	4.50			
October .....	1.25	2.25	2.50	5.00	1.75	3.75	7.00	2.00			
November ....	6.75	9.50	4.75	8.00	2.50	.50	4.50	3.50			
December ....	4.00	4.50	5.00	2.50	5.75		7.75	4.75			
TOTALS ....	38.00	42.00	45.25	56.75	48.00		51.25	32.25			

*Barton Church 3 1/2 miles E.*

*1882 Shrubs <sup>20</sup>ft high 150ft W*

*1885 Decr. Gauge out of repair*

*1886 Decr. 4 J. G. Benn says G. showed too little in consequence of the float being flattened. I took the float to Penwith to be repaired.*



RAINFALL AT *Great Strickland* [*Perrith*]

Lat. ....

Lon. \_\_\_\_\_ County of Westmoreland

Rain Gauge, by ..... Observer C. Hutchinson

Eden-1

[illegible]



# RAINFALL AT *Barton Hall [Penrith]*

80

Lat. ....

Lon. ....

County of

*Westmoreland*

Rain Gauge, by

Observer

*J. H. Cumpston Esq*

*Eden - 1*

Diameter ....							5				
Height .....											
Altitude ....											
Year.....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....								3.41	2.50	2.28	
February ....								3.34	.93	2.00	
March .....								1.92	3.22	2.11	
April .....								2.08	2.18	2.65	
May .....								1.69	2.76	3.10	
June .....								1.0	1.30	1.27	
July ..								2.32	6.62	2.75	
August .....								2.26	3.54	3.68	
September....								4.38	1.19	1.63	
October ....								2.60	4.52	6.01	
November....								3.38	6.70	1.87	
December ....							# 7.05	4.76	5.14	3.28	
TOTALS ....								32.24	40.60	32.63	



# RAINFALL AT Windermere (Bowries) 80

Lat. ....

Lon. .... County of Westmorland

Rain Gauge, by .....

Observer Rev. A. Rawson

Leven  
~~Bowries~~ - 2

Diameter ....				8							
Height .....				1							
Altitude ....				135							
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January .....				10.28	9.03	5.32	8.44	5.42	3.54	5.66	
February .....				5.59	4.86	8.36	2.09	3.18	.86	4.89	
March .....				2.05	5.78	6.30	6.62	2.59	3.46	4.02	
April .....				2.96	1.38	4.30	4.48	2.73	2.12	2.57	
May .....				2.39	4.02	3.11	6.26	2.13	2.81	3.74	
June .....				3.28	.79	2.39	1.79	.62	2.31	.93	
July .....				2.65	6.58	4.31	7.48	2.48	8.52	3.60	
August .....				4.76	1.64	2.83	3.42	2.24	4.62	6.14	
September .....				6.70	5.90	8.57	9.07	6.12	2.17	2.79	
October .....				6.55	4.22	7.04	7.78	3.18	7.66	6.87	
November .....				8.96	2.81	5.05	6.55	4.33	9.33	3.38	
December .....				5.08	8.10	3.15	9.40	5.47	8.24	6.48	
TOTALS .....				61.25	55.11	60.67	73.38	40.49	55.64	51.07	



# RAINFALL AT *Bowness, Belfield*

80

Lat. ....

Lon. ....

County of *Westmorland*

Rain Gauge, by .....

Observer *H. W. Schneider Esq.*

*Leven Bowness - 2.*

Diameter ....											
Height .....											
Altitude ....											
Year.....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....											
February ....											
March .....											
April .....											
May .....											
June .....											
July .. ...											
August .....	<i>1.36</i>										
September....											
October ....											
November....	<i>10.28</i>										
December ....											
TOTALS ....	<i>50.56</i>										

*'80 Hort. Frost Report*



RAINFALL AT *Bowness, Major's Grounds*

80

Lat. .... Lon. .... County of *Westmoreland*

Rain Gauge, by ..... Observer *G. Healey Esq.*

*Leven*  
~~*Bowness*~~ - 2

Diameter ....	<i>12</i>										
Height .....	<i>8</i>										
Altitude ....	<i>457 ft</i>										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	<i>1.28</i>	<i>.67</i>	<i>5.62</i>								
February ....	<i>6.27</i>	<i>7.07</i>	<i>7.23</i>								
March .....	<i>2.09</i>	<i>8.67</i>	<i>5.04</i>								
April .....	<i>3.01</i>	<i>2.35</i>	<i>6.18</i>								
May .....	<i>2.47</i>	<i>5.76</i>	<i>3.20</i>								
June .....	<i>3.66</i>	<i>5.61</i>	<i>5.84</i>								
July .....	<i>7.64</i>	<i>7.42</i>	<i>10.42</i>								
August .....	<i>1.36</i>	<i>6.78</i>	<i>5.25</i>								
September ....	<i>6.24</i>	<i>4.04</i>	<i>3.57</i>								
October .....	<i>1.69</i>	<i>3.38</i>	<i>5.66</i>								
November ....	<i>9.36</i>	<i>9.93</i>	<i>9.73</i>								
December ....	<i>7.17</i>	<i>8.09</i>	<i>5.72</i>								
TOTALS ....	<i>52.24</i>	<i>69.77</i>	<i>73.46</i>								



RAINFALL AT Windermere Woodland Terrace

Lat. .... Lon. .... County of Westmoreland

Leven Rain Gauge, by ..... Observer Rev J Mackereth

Diameter .....										5		
Height .....										6 - 6		
Altitude .....										320	370	
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January .....										5.43		
February .....										4.53		
March .....										3.86		
April .....										2.41		
May .....										3.86		
June .....										1.22		
July .....										3.89		
August .....										5.71		
September .....										2.36		
October .....										6.55		
November .....									<del>7</del> 8.24	3.38		
December .....									7.51	5.85		
TOTALS .....										49.05		

*Repected from Survey: 5 "too Low"*



RAINFALL AT *Windermere, The Wood* 80

Lat. ....

Lon. ....

County of

*Nestmoreland*

Rain Gauge, by

Observer

*Rev. G. Brewster*

*Leven - 2*

Diameter ....	<i>8</i>										
Height .....	<i>3.2</i>										
Altitude ....	<i>322</i>										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	<i>1.94</i>	<i>.73</i>	<i>6.40</i>								
February ....	<i>7.51</i>	<i>8.03</i>	<i>8.66</i>								
March .....	<i>3.14</i>	<i>9.62</i>	<i>6.86</i>								
April .....	<i>3.22</i>	<i>2.49</i>	<i>5.75</i>								
May .....	<i>2.54</i>	<i>5.93</i>	<i>3.14</i>								
June .....	<i>4.36</i>	<i>6.56</i>	<i>6.11</i>								
July .....	<i>7.04</i>	<i>6.23</i>	<i>12.16</i>								
August .....	<i>1.58</i>	<i>7.42</i>	<i>4.69</i>								
September ....	<i>5.31</i>	<i>3.80</i>	<i>3.43</i>								
October .....	<i>2.48</i>	<i>4.26</i>	<i>4.60</i>								
November ....	<i>11.07</i>	<i>10.89</i>	<i>6.26</i>								
December ....	<i>8.28</i>	<i>9.26</i>	<i>7.24</i>								
TOTALS ....	<i>58.49</i>	<i>75.22</i>	<i>75.30</i>								



# RAINFALL AT *Ambleside Strawberry Bank*

80

Lat. ....

Lon. .... County of *Westmoreland*

Rain Gauge, by ..... Observer *Rev. J. Mackereth*

*Leven - 2*

Diameter ....							5				
Height .....							5.5	5.6			
Altitude ....							244	398	#		
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEAN
January....								6.50	3.52		
February ....								3.09	1.10		
March .....								2.37	4.25		
April .....								2.18	3.09		
May .....								2.27	4.03		
June .....								.52	#		
July .....								2.64			
August .....							#	3.21	3.30		
September....								8.59	6.32		
October ....								8.22	2.69		
November....								6.36	3.55		
December ....								8.84	5.26		
TOTALS ....								40.69			

*St. Mary's Church 3/4 mile N.W.*

*1887 House 24 ft high 25 ft N*



# RAINFALL AT *Amble side Nook Cottage*

80

Lat. ....

Lon. ....

County of *Westmoreland*

Rain Gauge, by .....

Observer *M<sup>r</sup> E. Hird*

*Leven - 2*

Diameter ....	5											
Height .....	1 -											
Altitude ....	2297	2277										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January ...	2.38	9.86	9.1	13.49	12.31	6.01	10.80	8.21	5.06	5.63	7.178	
February ...	8.09	8.46	9.42	7.88	6.75	13.24	1.82	4.65	1.31	5.23	6.686	
March .....	3.59	9.63	7.91	3.47	7.27	6.75	7.96	2.73	4.73	4.96	5.900	
April .....	4.15	2.44	6.21	3.17	1.92	4.66	4.60	2.82	3.74	2.91	3.662	
May .....	2.70	6.46	3.15	2.90	7.05	3.71	6.20	2.93	4.40	4.38	4.388	
June .....	6.60	7.29	6.55	3.97	.80	2.94	3.43	.52	2.30	.84	3.524	
July .....	7.64	7.42	11.43	3.77	7.90	4.60	6.82	3.41	7.35	4.65	6.499	
August .....	1.89	6.28	4.97	7.89	1.52	3.59	3.95	2.86	5.21	6.42	4.458	
September ...	6.52	4.92	4.42	7.16	7.61	11.12	12.42	7.23	2.38	3.12	6.690	
October .....	3.62	4.42	5.12	8.24	5.26	8.62	8.63	3.68	10.93	8.48	6.700	
November ...	13.46	12.10	9.94	11.50	4.12	5.77	8.36	4.07	13.62	4.09	8.703	
December ...	10.15	9.57	8.23	6.83	12.47	4.70	10.46	6.03	10.02	8.20	8.666	
TOTALS ....	70.79	70.97	84.26	80.27	74.98	75.71	85.45	49.15	71.05	58.91	73.054	

*1881 St. Mary's 1/4 mile SSW.*



# RAINFALL AT Ambleside, Brathay Vie

80

Lat. \_\_\_\_\_ Lon. \_\_\_\_\_ County of Westmorland  
 Rain Gauge, by \_\_\_\_\_ Observer Rev. H. S. Gallender

Leven - 2.

Diameter ....	<u>5</u>										
Height .....	<u>1.3</u>		<u>1. -</u>								
Altitude ....	<u>150 ft</u>										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	2.32	1.89	7.19	13.81	12.40	5.94					
February ....	8.35	8.66	8.49	7.73	7.29	14.35					
March .....	3.75	9.79	7.77	3.25	7.61	5.25					
April .....	4.18	2.20	5.68	3.13	1.70	4.96					
May .....	2.89	6.63	3.33	2.76	7.05	3.28					
June .....	5.66	6.66	6.58	3.88	.88	2.58					
July .....	7.46	7.15	12.19	3.90	7.57	4.61					
August .....	1.92	6.73	5.44	8.31	1.68	3.52					
September ....	6.38	5.98	4.41	7.89	7.83	9.51					
October .....	2.85	4.26	5.88	8.64	5.45	9.14					
November ....	12.74	13.07	10.37	12.02	4.28	6.29					
December ....	8.95	9.84	7.54	7.20	12.11	3.01					
TOTALS ....	67.45	81.86	84.87	82.52	15.85	72.44					

1880. Brathay  $\frac{1}{2}$  mile, S.E.

1882. Laurels 4 ft high 20 yards SW

1884 Gauge moved  $\frac{1}{4}$  mile at beginning of July and replaced at end of August



# RAINFALL AT *Elterwater, Woodlands* 80

Lat. ....

Lon. ....

County of *Westmorland*

Rain Gauge, by .....

Observer *E. Tucker, junr, Esq.*

*Leven - 2*

Diameter ....	<i>5</i>										
Height .....	<i>9</i>										
Altitude ....	<i>244 ft</i>										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	<i>2.35</i>	<i>1.44</i>	<i>8.40</i>	<i>16.16</i>	<i>15.30</i>	<i>6.73</i>	<i>11.99</i>				
February ....	<i>10.01</i>	<i>10.17</i>	<i>10.18</i>	<i>10.25</i>	<i>9.24</i>	<i>17.53</i>	<i>2.56</i>				
March .....	<i>4.61</i>	<i>11.28</i>	<i>8.71</i>	<i>3.94</i>	<i>9.50</i>	<i>8.49</i>	<i>9.45</i>				
April .....	<i>5.26</i>	<i>3.13</i>	<i>6.37</i>	<i>3.47</i>	<i>1.87</i>	<i>5.02</i>					
May .....	<i>3.30</i>	<i>8.01</i>	<i>4.64</i>	<i>3.26</i>	<i>8.47</i>	<i>4.36</i>					
June .....	<i>7.27</i>	<i>7.73</i>	<i>8.19</i>	<i>5.29</i>	<i>.88</i>	<i>2.94</i>					
July .....	<i>7.54</i>	<i>7.45</i>	<i>13.15</i>	<i>4.68</i>	<i>8.57</i>	<i>3.97</i>					
August .....	<i>1.72</i>	<i>8.11</i>	<i>6.15</i>	<i>7.47</i>	<i>1.79</i>	<i>4.01</i>					
September ....	<i>6.94</i>	<i>4.93</i>	<i>5.15</i>	<i>9.13</i>	<i>6.97</i>	<i>12.87</i>					
October .....	<i>2.28</i>	<i>4.97</i>	<i>6.49</i>	<i>10.01</i>	<i>8.16</i>	<i>9.37</i>					
November ....	<i>16.48</i>	<i>14.92</i>	<i>12.06</i>	<i>13.53</i>	<i>4.70</i>	<i>6.23</i>					
December ....	<i>10.56</i>	<i>10.65</i>	<i>6.35</i>	<i>8.70</i>	<i>13.47</i>	<i>4.87</i>					
TOTALS ....	<i>78.27</i>	<i>92.79</i>	<i>95.84</i>	<i>95.89</i>	<i>88.86</i>	<i>86.39</i>					

*Langdale Church 1 1/4 miles NW.*

*Wood Paling 2 ft high 6 ft N, SE. & W.*

*Wall 5 ft. 30 ft ENE*



# RAINFALL AT Ellerwater Lingmoor 80

Lat. ....

Lon. ....

County of

Westmoreland

Monthly

Rain Gauge, by

Observer

E. Tucker, Jun Esq.

Leven - 2.

Diameter ....			5								
Height .....			1	-							
Altitude ....			1485	B							
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ...			7.55	14.00	17.00	7.00	15.00				
February ...			11.75	12.50	10.93	20.50	3.00				
March .....			10.75	4.00	11.00	9.25	11.00				
April .....			7.00	4.50	2.25	6.00					
May .....			6.05	3.75	10.00	5.00					
June .....			8.75	7.00	1.00	3.25					
July .....			16.00	6.00	9.00	4.50					
August .....			6.50	10.25	2.00	4.25					
September....			6.95	11.00	8.00	14.25					
October .....			8.24	11.25	10.00	11.00					
November....			11.75	16.00	5.25	7.00					
December .....			8.50	9.75	15.50	5.00					
TOTALS .....			109.79	110.00	101.93	97.00					

Langdale 2 mile NE

Wall 4ft 6in high. 40ft. SW Top of gauge much higher than wall



# RAINFALL AT *Ambleside, Luskuth Howe*

80

Lat. ....

Lon. ....

County of

*Westmoreland*

Rain Gauge, by

Observer

*J. M. J. Jones Esq.*

*Leven - 2*

Diameter ....	<i>5</i>											
Height .....	<i>2.6</i>											
Altitude ....	<i>155-T</i>											
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January ....	<i>3.00</i>	<i>.92</i>	<i>7.41</i>	<i>4.66</i>	<i>13.40</i>	<i>6.62</i>	<i>11.41</i>	<i>8.34</i>	<i>5.12</i>	<i>6.24</i>	<i>7.712</i>	
February ....	<i>8.50</i>	<i>9.53</i>	<i>9.19</i>	<i>8.53</i>	<i>8.26</i>	<i>15.25</i>	<i>2.08</i>	<i>5.22</i>	<i>1.28</i>	<i>5.69</i>	<i>7.353</i>	
March .....	<i>3.46</i>	<i>8.78</i>	<i>7.80</i>	<i>3.26</i>	<i>7.99</i>	<i>6.45</i>	<i>8.49</i>	<i>2.75</i>	<i>4.54</i>	<i>5.32</i>	<i>5.884</i>	
April .....	<i>3.97</i>	<i>2.25</i>	<i>6.07</i>	<i>3.26</i>	<i>2.11</i>	<i>4.94</i>	<i>4.65</i>	<i>2.74</i>	<i>4.22</i>	<i>3.61</i>	<i>3.782</i>	
May .....	<i>2.80</i>	<i>5.28</i>	<i>3.61</i>	<i>2.97</i>	<i>8.44</i>	<i>4.02</i>	<i>6.53</i>	<i>3.19</i>	<i>5.01</i>	<i>4.86</i>	<i>4.671</i>	
June .....	<i>7.11</i>	<i>7.28</i>	<i>8.27</i>	<i>4.55</i>	<i>.79</i>	<i>2.92</i>	<i>3.79</i>	<i>.45</i>	<i>2.57</i>	<i>.90</i>	<i>3.863</i>	
July .....	<i>8.00</i>	<i>6.99</i>	<i>11.35</i>	<i>4.57</i>	<i>8.01</i>	<i>4.86</i>	<i>7.70</i>	<i>3.76</i>	<i>8.78</i>	<i>4.95</i>	<i>6.897</i>	
August .....	<i>1.87</i>	<i>7.19</i>	<i>5.68</i>	<i>9.42</i>	<i>1.58</i>	<i>4.02</i>	<i>3.52</i>	<i>2.75</i>	<i>5.76</i>	<i>6.94</i>	<i>4.873</i>	
September ....	<i>6.94</i>	<i>5.17</i>	<i>4.63</i>	<i>7.84</i>	<i>8.37</i>	<i>11.08</i>	<i>13.45</i>	<i>6.99</i>	<i>2.46</i>	<i>3.91</i>	<i>7.084</i>	
October .....	<i>3.31</i>	<i>4.53</i>	<i>6.11</i>	<i>8.74</i>	<i>5.34</i>	<i>9.23</i>	<i>9.24</i>	<i>4.60</i>	<i>12.01</i>	<i>9.40</i>	<i>7.251</i>	
November ....	<i>14.90</i>	<i>15.60</i>	<i>10.84</i>	<i>12.07</i>	<i>4.78</i>	<i>5.88</i>	<i>9.43</i>	<i>4.60</i>	<i>15.88</i>	<i>4.76</i>	<i>9.874</i>	
December ....	<i>9.60</i>	<i>9.25</i>	<i>7.45</i>	<i>7.64</i>	<i>13.54</i>	<i>6.10</i>	<i>10.98</i>	<i>7.03</i>	<i>11.37</i>	<i>9.40</i>	<i>9.236</i>	
TOTALS ....	<i>73.46</i>	<i>82.77</i>	<i>88.41</i>	<i>87.51</i>	<i>82.61</i>	<i>81.37</i>	<i>91.27</i>	<i>52.42</i>	<i>79.00</i>	<i>65.98</i>	<i>78.480</i>	

*1880. Ambleside*

*1/4 mile*

*SW.*



## RAINFALL AT

Grasmere, High Close 80

Lat. ....

Lon. ....

County of

Westmoreland

Rain Gauge, by

Observer

E. B. McPhee, Esq.

Leven - 2

Diameter ....	8											
Height .....	9											
Altitude ....	553									T		
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January ....	2.69	1.10	6.84	14.42	13.90	5.99	10.40	8.30	5.53	5.65	7.482	
February ....	8.93	9.53	8.73	9.08	8.11	15.89	2.25	4.90	1.03	5.78	7.423	
March .....	4.12	9.85	7.69	3.27	7.56	7.64	7.66	2.96	3.74	4.35	5.884	
April .....	5.22	2.74	5.74	3.28	1.69	4.69	4.82	2.65	3.31	3.21	3.735	
May .....	3.36	7.26	6.31	2.85	7.59	3.87	6.14	2.71	4.40	4.55	4.904	
June .....	6.27	7.16	7.13	4.79	7.8	2.96	3.55	.65	2.15	.95	3.639	
July .....	6.90	8.10	11.63	4.34	8.04	3.92	7.64	4.03	9.91	4.62	6.913	
August .....	1.46	7.24	5.37	7.78	1.67	3.58	3.92	2.93	5.62	6.73	4.630	
September ....	6.42	4.66	4.44	8.21	7.50	11.49	12.93	7.15	2.38	3.85	6.903	
October .....	2.35	4.45	5.73	8.79	5.90	7.89	8.22	3.64	9.42	8.85	6.524	
November ....	14.11	13.73	10.86	12.07	4.20	5.51	9.07	4.46	13.94	4.39	9.234	
December ....	9.10	9.28	6.99	7.80	12.28	4.24	10.26	7.08	10.17	9.14	8.634	
TOTALS ....	70.93	85.10	87.46	86.68	79.22	77.67	86.86	51.46	71.60	62.07	75.905	



# RAINFALL AT *Grasmere Pavement End*

80

Lat. ....

Lon. ....

County of *Westmoreland*

Rain Gauge, by .....

Observer .....

*J. A. Green Esq*

*Leven - 2*

Diameter ....					5				5		
Height .....					4.8				4.8		
Altitude ....					218				218 T		
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....					18.59	6.46	11.91	9.31	5.56	5.48	
February ....					11.35	16.00	2.44	5.11	1.20	5.95	
March .....					9.54	7.40	9.18	3.06	3.24	4.26	
April .....					1.97	5.05	5.22	2.67	3.19	3.11	
May .....					9.54	4.37	6.80	3.13	4.75	3.92	
June .....					1.76	3.49	4.11	.60	2.01	.61	
July .. ...					7.95	4.37	7.91	4.67	9.61	4.77	
August .....					2.65	3.66	4.13	3.45	5.59	6.42	
September....					8.57	13.04	14.48	8.34	2.15	3.64	
October .....					5.83	8.93	9.07	3.67	7.93	9.41	
November....					5.17	5.48	10.65	4.82	14.82	4.28	
December ....					13.68	4.72	11.48	7.34	9.43	8.64	
TOTALS ....					96.60	82.97	97.38	56.17	69.48	60.49	

*St Oswalds Church 230 yards E*

*Tree 14 feet high 20 ft W*

*Tree 14 " " 14 " E*



RAINFALL AT Grasmere Easdale Farm

Lat. .... Lon. .... County of Westmoreland  
Rain Gauge, by ..... Observer W. R. Hayton

Leven - 2

Diameter ....											
Height .....	<u>1.0</u>										
Altitude ....	<u>1175</u>										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS,
January ...	<u>3.50</u>										
February ...	<u>20.00</u>										
March .....	<u>12.00</u>										
April .....	<u>16.00</u>										
May .....	<u>5.00</u>										
June .....	<u>(14.00)</u>										
July .....	<u>15.00</u>										
August .....	<u>11.00</u>										
September ...	<u>17.50</u>										
October ....	<u>4.00</u>										
November ....	<u>18.00</u>										
December ....	<u>9.00</u>										
TOTALS ....	<u>(145.00)</u>										

1880 June gauge under repair