

RAINFALL AT Benenden

Lat.....

Lon.....

County of Kent

Rain Gauge, by.....

Observer L. Eldis Mace Junr. Esq

1- Parker

Diameter.....			8								
Height.....			1.9								
Altitude.....			193 ^{ft}								
YEAR.....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....		2.67	5.44	3.50	1.74	3.40	1.10	6.59	1.59	2.53	
February.....		1.51	1.24	2.12	1.37	.73	2.48	2.19	1.79	4.57	
March.....		1.60	2.35	2.34	.88	.83	2.94	2.68	1.54	.90	
April.....		5.12	.88	.74	2.58	.98	2.37	2.75	3.62	3.22	
May.....		1.03	3.57	1.29	1.01	.94	1.09	1.88	4.62	3.24	
June.....		1.88	2.43	2.78	1.71	2.59	1.30	1.49	2.13	3.35	
July.....		2.52	2.14	1.89	1.17	4.29	.56	2.92	1.66	3.10	
August.....		1.07	1.54	1.74	2.77	2.14	3.17	2.87	5.01	3.78	
September.....		3.93	1.88	2.26	3.34	2.11	3.97	1.09	1.31	2.87	
October.....		1.60	4.59	3.32	3.14	4.84	1.75	3.71	3.56	.70	
November.....		.61	5.84	2.23	2.27	5.55	3.29	6.76	4.23	.81	
December.....	#	1.70	5.93	.76	2.72	1.96	7.41	2.89	2.21	.98	
TOTALS.....	(25.34)	23.14	37.85	24.97	24.70	30.36	31.45	37.82	33.27	30.05	29.89

9 on the bank of a pond some distance from any tall trees. At a distance of about half a mile the ground is nearly 100 ft. higher.

1876 House 80ft. W. 35ft. high; Buildings 70ft. NW. 20ft high

1870- Rolvenben, Maytham Hall

RAINFALL AT *East End, Benenden*

80

Lat. _____

Lon. _____

County of *Kent*

Rain Gauge, by _____

Observer *J. Ellis Mace, Jun. Esq.*

1 - Bother.

Diameter	8										
Height	1.9			1.5							
Altitude	193 ∇										
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January .....	.31	1.33	1.25	2.61	2.96	2.57	5.06	1.94	.90	.80	1.973
February	3.16	1.95	1.56	4.06	1.77	3.64	.56	.76	1.75	2.18	2.149
March .....	.69	2.35	1.46	1.19	1.59	1.76	1.62	1.60	4.03	1.74	1.803
April	1.71	.76	3.16	1.69	1.38	2.46	1.93	1.63	1.61	2.28	1.861
May .....	.10	.98	1.61	2.74	.46	3.15	3.14	1.72	1.21	1.18	1.634
June	4.02	2.47	3.22	3.47	1.08	1.43	.54	.64	2.22	.81	1.990
July	3.12	2.14	2.94	2.06	2.73	.16	2.18	.61	5.56	2.81	2.433
August	1.08	4.02	1.52	.55	1.10	.49	1.50	3.11	1.29	2.53	1.719
September	3.42	3.56	3.45	3.64	5.77	3.86	.92	2.33	1.04	2.35	3.034
October	6.49	3.43	7.02	2.76	1.56	4.24	3.91	1.69	2.24	6.47	3.981
November	4.34	4.45	3.36	4.05	1.46	2.80	3.95	4.36	4.56	1.38	3.471
December	3.19	3.43	2.70	1.32	3.65	.97	5.13	2.17	2.09	1.60	2.625
TOTALS	31.68	80.87	33.35	30.14	25.51	27.53	30.44	22.56	28.52	26.13	28.673

1880. Benenden Church, 2½ mile distant. S.W.

Fir 32 ft- high 66 ft SE.

" 24 " 36 W

House 30? " 80 W S.W.

80

RAINFALL AT *East End, Benenden*

Lat. _____ Lon. _____ County of *Kent*
Copper Sarnedaffin Gauge, by _____ Observed *L. Ellis Mace, Jun., Esq.*

1 - Rother.

Diameter	<i>5</i>										
Height	<i>1.0</i>										
Altitude	<i>193 T</i>	<i>150 T</i>									
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January	<i>26</i>	<i>1.31</i>	<i>1.22</i>	<i>2.28</i>	<i>2.54</i>	<i>2.44</i>	<i>4.71</i>	<i>1.92</i>	<i>.85</i>	<i>.80</i>	<i>1.833</i>
February	<i>3.19</i>	<i>1.88</i>	<i>1.57</i>	<i>3.77</i>	<i>1.60</i>	<i>3.41</i>	<i>.53</i>	<i>.61</i>	<i>1.88</i>	<i>2.21</i>	<i>2.067</i>
March	<i>66</i>	<i>2.34</i>	<i>1.39</i>	<i>1.22</i>	<i>1.56</i>	<i>1.80</i>	<i>1.42</i>	<i>1.61</i>	<i>4.09</i>	<i>1.78</i>	<i>1.787</i>
April	<i>1.63</i>	<i>.74</i>	<i>2.90</i>	<i>1.68</i>	<i>1.37</i>	<i>2.33</i>	<i>1.70</i>	<i>1.71</i>	<i>1.65</i>	<i>2.13</i>	<i>1.784</i>
May	<i>.15</i>	<i>.95</i>	<i>1.53</i>	<i>2.74</i>	<i>.41</i>	<i>2.96</i>	<i>3.15</i>	<i>1.55</i>	<i>1.18</i>	<i>1.19</i>	<i>1.581</i>
June	<i>3.98</i>	<i>2.41</i>	<i>2.60</i>	<i>2.72</i>	<i>.99</i>	<i>1.25</i>	<i>.50</i>	<i>.66</i>	<i>2.12</i>	<i>.76</i>	<i>1.799</i>
July	<i>3.00</i>	<i>2.15</i>	<i>2.46</i>	<i>1.53</i>	<i>2.66</i>	<i>.16</i>	<i>2.06</i>	<i>.54</i>	<i>5.38</i>	<i>2.37</i>	<i>2.271</i>
August	<i>1.05</i>	<i>3.83</i>	<i>1.45</i>	<i>.55</i>	<i>.99</i>	<i>.50</i>	<i>1.31</i>	<i>3.00</i>	<i>1.22</i>	<i>2.79</i>	<i>1.669</i>
September....	<i>3.30</i>	<i>3.48</i>	<i>3.17</i>	<i>3.44</i>	<i>5.34</i>	<i>3.63</i>	<i>.90</i>	<i>2.34</i>	<i>1.00</i>	<i>2.29</i>	<i>2.889</i>
October	<i>6.36</i>	<i>3.37</i>	<i>6.87</i>	<i>2.72</i>	<i>1.44</i>	<i>4.06</i>	<i>3.59</i>	<i>1.60</i>	<i>2.08</i>	<i>6.37</i>	<i>3.846</i>
November....	<i>4.26</i>	<i>4.40</i>	<i>3.06</i>	<i>3.80</i>	<i>1.48</i>	<i>2.66</i>	<i>3.69</i>	<i>4.20</i>	<i>4.26</i>	<i>1.24</i>	<i>3.305</i>
December	<i>3.11</i>	<i>3.33</i>	<i>2.36</i>	<i>1.35</i>	<i>3.31</i>	<i>.89</i>	<i>4.86</i>	<i>2.12</i>	<i>1.91</i>	<i>1.40</i>	<i>2.464</i>
TOTALS	<i>30.95</i>	<i>30.19</i>	<i>30.58</i>	<i>28.20</i>	<i>23.69</i>	<i>26.09</i>	<i>28.44</i>	<i>21.86</i>	<i>27.62</i>	<i>25.33</i>	<i>27.295</i>

1880. Benenden Church, 2½ miles distant S.W.

For 32ft high 68ft SE.

" 24ft " 34ft W

House 30? " 80ft WSW.

1882 Gauge moved ½ mile or more to S on Feb 2nd

Benenden Church 1½ miles S by E

Tree 28ft high 45ft N

House 21ft " 110ft SSE

Lodge 20ft " 70ft SSW.

RAINFALL AT *Benenden East End*

Lat. _____

Lon. _____

County of *Kent*

Rain Gauge, by _____

Observer *J. Ellis Mace Esq.*

1- Rother.

Diameter	5											
Height	1.5	1.2										
Altitude	193 ft											
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January	3.03	2.94	.59	2.46	3.59	2.63	.86	2.62	.69	2.36	2.177	
February	1.16	.09	2.13	4.39	1.87	.29	.44	2.35	1.14	2.49	1.635	
March	2.46	2.04	1.60	.40	1.48	1.85	2.64	4.19	1.80	.88	1.934	
April	2.67	.69	1.75	.02	2.26	2.35	.48	1.61	1.10	2.74	1.567	
May	1.40	3.47	.27	1.15	1.82	.09	.17	1.04	3.67	2.52	1.560	
June	2.89	1.62	2.48	.83	1.67	.15	3.23	1.92	2.10	1.24	1.813	
July	2.66	3.69	1.73	2.97	5.33	3.34	.96	.35	.49	1.30	2.282	
August	3.31	4.76	4.04	1.44	1.98	2.13	2.56	3.23	1.44	1.48	2.637	
September....	2.32	.67	1.89	2.82	3.46	.61	6.37	2.64	.76	2.83	2.437	
October	1.17	5.94	6.35	3.65	4.13	3.30	5.74	25	2.67	2.51	3.571	
November....	3.98	2.59	2.64	2.85	4.10	5.25	1.27	1.07	2.61	3.26	2.962	
December ....	.68	3.93	2.16	3.19	2.32	2.90	3.96	3.74	2.34	1.79	2.701	
TOTALS . . .	27.73	32.43	27.63	26.17	34.01	24.89	28.68	25.01	20.81	25.40	27.276	

1890 Benenden Church

RAINFALL AT Benenden East End

Lat.

Lon.

County of

Kent West

Rain Gauge, by

Observer

J Ellis Mace Esq.

1 - Rotherwell

Diameter ..	8										
Height	1.2										
Altitude ..	193 ft										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	3.31	.98	1.10	2.27	4.10	1.09					
February ..	5.53	1.65	1.31	1.57	2.76	.73					
March	1.50	1.71	1.53	2.50	1.50	3.48					
April	1.08	2.20	.87	2.12	.94	2.44					
May	1.00	.95	2.15	2.87	2.10	1.32					
June	2.55	1.71	1.70	3.71	1.78	4.63					
July	1.27	2.58	1.30	4.34	1.65	.77					
August	1.99	1.80	4.41	3.43	1.79	3.43					
September ..	.92	.79	1.12	2.94	1.29	2.37					
October	2.22	2.35	1.84	5.53	1.85	2.14					
November ..	2.75	.68	2.38	2.03	1.93	4.36					
December ..	3.44	5.10	2.15	1.78	3.42	.69					
TOTALS ..	27.56	22.50	21.89	35.09	25.11	27.45					

3 3

1903 Benenden Church 2 1/2 miles S W.

Rolenden Station 2 1/4 " S E by E

1905 Biddeford

RAINFALL at Berenden East End SanatoriumCounty of KentObserver D. W. D. Watkins D. J. D. Macfie (12)River Basin Rother + C 1D. J. C. Smyth W. Scrimshaw (13)
W. J. (Poe) (14) A. Norris (15)Sundern Rain Gauge, by N 3

Diameter ...	5										
Height	10										
Altitude ...	..	190'		290	180						
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	2.02	1.54	2.64	5.04	.76	3.41	1.36	1.39	2.76	1.06	
February ...	3.84	1.31	2.54	1.20	4.53	1.97	5.27	.81	1.46	.76	
March	1.39	2.29	4.31	2.73	5.92	.41	3.40	1.77	.55	3.59	
April	1.09	1.94	.09	2.91	1.22	.55	1.33	1.67	1.14	3.61	
May	3.25	.90	.33	.72	.75	1.76	1.82	2.85	.83	.44	
June	2.84	2.07	4.00	.23	1.40	1.29	2.76	2.41	.34	.80	
July	2.37	.60	.88	2.01	2.22	1.43	1.23	3.49	3.42	1.40	
August	1.69	.89	7.05	.71	.80	.95	2.61	6.21	1.30	3.83	
September ..	.39	1.37	4.19	1.72	1.12	1.15	1.23	1.16	6.32	1.07	
October ...	2.98	5.48	4.51	3.84	3.05	.65	4.89	imp	2.69	.71	
November ..	4.66	5.93	2.42	3.93	3.98	1.33	4.38		2.21	2.80	
December ...	4.53	6.60	3.59	1.53	7.90	2.92	3.92	imp	1.80	3.48	
TOTALS ...	30.55	30.92	36.55	26.57	33.65	7.82	34.20		24.82	23.25	
	2									D	

1915 Sanatorium Buildings 35 ft high 50 yds N
 1915 not printed - bad. see note below
 1916 Corrected for use of 3 in glass with 5 in g. 1915 appears to require correction Feb - Dec as

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911	51.5.05 N	0.37.16 E	Bredenden Berenden	2 1/2 mi 2 1/4 mi	NNE SE	Berenden	2 1/2 miles	SW

RAINFALL at Biddenden National SanatoriumCounty of KentObserver D. R. Robertson
(1924-25) H. Gurnier, Esq. B.A. (1922)River Basin Potter & C. 1Medical SuperintendentSnowdon Rain Gauge, by H. G.
1928 Wainker.Dr. H. Gurnier (Med. Sup.)

Diameter ...	5										
Height	1	0									
Altitude ...	180						250				
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 1931
January ...	3.21	2.18	3.30	1.62	2.61	2.97	3.01	2.37	3.43	1.17	2.80
February ...	.53	.81	2.67	4.26	.94	3.96	2.76	3.02	1.34	.93	2.04
March	1.59	1.57	2.49	2.26	1.95	1.34	.36	4.02	1.70	.12	1.74
April	2.73	1.60	3.59	2.28	3.15	2.23	3.94	1.62	2.45	.93	1.62
May	1.44	1.69	.62	3.67	3.55	3.17	1.87	.63	3.36	1.43	2.57
June	1.50	.02	1.40	.64	3.20	.16	2.72	3.83	2.83	1.22	1.20
July	3.63	.37	2.88	.78	2.67	3.73	1.95	4.34	1.10	1.45	3.66
August	1.66	1.29	2.49	2.20	2.25	1.95	2.26	4.14	1.81	2.08	3.36
September...	3.14	.44	3.79	2.26	2.25	2.63	.71	3.91	.51	.91	3.85
October	1.16	.83	1.49	6.51	4.99	4.39	3.09	2.31	6.44	3.34	2.00
November...	1.08	1.76	1.66	2.66	3.30	2.95	7.54	2.95	4.03	7.15	5.25
December...	1.17	2.02	3.22	3.17	4.72	4.24	1.04	5.09	2.92	7.33	2.61
TOTALS...	22.84	14.58	29.60	32.31	35.58	33.72	31.25	38.72	32.28	28.06	32.80
	D	D	D	D	D	D	D	D	D	D	D

1920 Sanatorium 100 yds N.

1922 Fence 3 ft. E of S.

1925 Fence 3 ... 2 ft. 6 in. S.

1926. In Tree 20 ft. high 10 ft. E.

1927 — do — Fence 2' 9" high 6' S.

Position of Station on reduced Ordnance Survey }
Map, 2 miles to 1 inch Series

No. of Map.

Reference No.

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1920			Biddenden	3 mi	N.N.E.	Biddenden	3 mi	S.W.
1922			"	3 mi	N.E. S.W.	"	2 1/2 mi	N.E.

RAINFALL at Benenden (National Sanatorium)County of KentObserver H. Squier Esq., M.B.River Basin Rother + C.I.C.E.H. AnsonType of Gauge Glaisher (Snowdon 1940) The Medical Superintendent

Annual Average.....in. based on.....years obs. un-weighted. Period of average.....Ref.....

Diameter	5	5									
Height	10	1.1								10	
Altitude	250	150									
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	2.04	3.09	1.98	2.96	1.17	3.72	4.52	3.64	(6.02)	(3.00)	
February	2.85	.47	1.65	.10	3.79	1.42	3.81	.56	1.05	1.91	
March	.52	1.52	1.98	2.97	.41	.76	4.34	.53	1.64	2.76	
April	3.42	2.71	1.26	2.20	3.76	1.71	2.39	1.05	2.50	1.43	
May	2.30	3.08	2.28	.70	2.02	.20	2.65	(2.67)	1.58	1.10	
June	1.41	.46	1.74	1.19	2.09	2.98	2.00	.31	1.44	.60	
July	1.89	3.04	1.83	1.74	.52	4.22	1.02		1.99	2.33	
August	4.26	.57	.96	1.90	2.79	1.02	1.38		1.65	.04	
September	2.12	2.51	3.97	1.39	4.18	1.04	2.17		1.02	1.75	
October	.58	5.90	1.67	2.28	3.96	1.14	2.81		6.70	4.05	
November	3.72	1.34	1.33	2.55	5.33	4.79	.83		4.10	6.70	
December	.52	.53	.44	5.54	2.99	2.54	3.06		1.24	2.16	
TOTALS	25.63	25.22	21.09	25.52	33.01	25.54	30.98	imp	30.93	27.83	
	D.	D.	D.	D.	D.	D.	D.H.P.	D.H.P.	D.H.P.	D.	

1931. Fence 2' 9" high 6' S.E. Fir tree 20' high 10' S.E.

1936 n.p. low.

1937 n.p. low.

1938 Record July-Dec. unreliable.

1940 Jan. part estd.
Feb.
Apr.
Sept.
Oct.

1940 tree 20' high 25' N.E.

do 10' " 15' E

Fence 2' " 4' S

tree 15' " 25' W.

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

No. of Map.....

Reference No.....

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1931.			Biddenden	3m.	E.	Benenden	3m.	W.

Station No. 258

RAINFALL at Bemenden (National Sanatorium)

41

County of Kent

Observer The Medical Superintendent

River Basin Rother &c.

Type of Gauge Snowden

Annual Average in. based on years obs. un-weighted. Period of average Ref

File No. 79822/22

Diameter	5"										
Height	1' 0"										
Altitude	150'										
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January		2.14	4.68								
February		(.71)	1.54								
March	(2.30)	2.62	.26								
April	(.41)	1.17	1.36								
May	1.97	2.84	2.58								
June	1.41	.35	1.38								
July	3.66	2.32	1.29								
August	4.55	1.92	.94								
September	.22	2.80	1.50								
October	1.45	4.06	2.13								
November	4.07	2.06	2.07								
December	2.17	2.60	1.91								
TOTALS	inf n.p.	25.59 d	21.64 d	N.R.							

1941. n.p. inf. Tree 20' high 25' NE. Tree 10' high 15' E. Fence 2' high 4' S. Tree 15' high 25' W.

1942 Feb. corrected by ref. to nearby etas.

obs. terminated owing to enemy action

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

No. of Map

Reference No.

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge.	Direction from gauge.
1941			Bemenden	3 miles	NE	Bemenden	2 miles	SW.

BRITISH RAINFALL ORGANIZATION