

## RAINFALL AT Benenden

Lat.....

Long.....

County of Kent.

Rain Gauge, by.....

Observer J. Ellis Mace Fum. Esq.

1 - Rother.

Diameter .....												
Height .....												
Altitude .....												
YEAR .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.	
January.....	2.67	5.44	3.00	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.....	3.12	.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	1.29	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.....	(25.84)	23.14	37.85	24.97	24.70	30.36	31.43	37.82	33.27	30.05	29.803	

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. Rotherden, Maytham Hall

## RAINFALL AT Benenden

760

Int.  
New 5 in  
Copper Snowdrift Rain Gauge, by

London.

County of Kent

Observer

Observer J. Ellis Mace

1 - Rother.

RAINFALL AT *East End, Benenden*

Lat.

Lon.

County of Kent

Rain Gauge, by

Observer J. Ellis Mae, Jun. Esq.

1 - Rotham.

Diameter .....	8										
Height .....	1.9			1.5							
Altitude .....	937										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January .....	.81	1.38	1.25	2.61	2.96	2.57	5.06	1.94	.90	.80	1.973
February .....	3.16	1.95	1.33	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 .....	1.91	.76	3.16	1.69	1.38	2.44	1.93	1.68	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	5.58	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,  $2\frac{1}{8}$  mile distant. S.W.

Fir 32 ft. high 66 ft. SE.

" 24 " 36 W

House 30? 80 WSW.

RAINFALL AT *East End, Benenden*

Lat.

Lon.

County of Kent

Copper Baroude Rain Gauge, by

Observer J. Collis Mace, Jan., 1889.

1 - Rother.

Diameter .....	5										
Height .....	1.0										
Altitude .....	193 ft 150 ft										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January .....	26	1.31	1.22	2.28	2.54	2.44	4.71	1.92	.85	.80	1.833
February .....	3.19	1.88	1.57	3.77	1.60	3.41	3.55	1.61	1.88	2.21	2.067
March .....	66	2.34	1.39	1.22	1.56	1.80	1.42	1.61	4.09	1.78	1.787
April .....	1.63	.74	2.00	1.68	1.37	2.33	1.70	1.71	1.65	2.13	1.784
May .....	.15	.95	1.53	2.74	.41	2.96	3.15	1.55	1.18	1.19	1.581
June .....	3.98	2.41	2.60	2.72	.99	1.26	.60	.66	2.12	.76	1.799
July .....	3.00	2.15	2.46	1.93	2.66	.16	2.06	.54	5.38	2.37	2.271
August .....	1.05	3.83	1.45	.55	.99	.50	1.31	3.00	1.22	2.79	1.669
September .....	3.30	3.48	3.17	3.44	5.34	3.63	.70	2.34	1.00	2.29	2.889
October .....	6.26	3.37	6.87	2.72	1.44	4.06	3.59	1.60	2.08	6.37	3.846
November .....	4.26	4.40	3.06	3.80	1.48	2.66	3.69	4.20	4.26	1.24	3.305
December .....	3.11	3.33	2.36	1.35	3.31	.89	4.86	2.12	1.91	1.40	2.464
TOTALS .....	30.95	30.19	30.58	28.20	23.69	26.09	28.44	21.86	27.62	25.33	27.295

1880. Benenden Church, 2 miles distant - S.W.

For 32ft high 68ft S.E.

" 24ft " 34ft W

House 30? " 80ft WSW.

1882 Gauge moved  $\frac{1}{2}$  mile or more to S on Feb 24<sup>th</sup>  
Rotvenden Church 1 $\frac{1}{2}$  miles S by E

Tree 28ft high 45ft N

House 21ft " 110ft SSE

Lodge 20ft " 70ft SSW.

# RAINFALL AT Benenden East End

Lat.

Long.

County of Kent

Rain Gauge, by

Observer

J. Ellis Mace Esq

1 - Rodden

Diameter ....	8										
Height .....	1.5	1.2									
Altitude ....	193	M									
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MENS.
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	2.487
October.....	1.17	5.94	6.35	3.65	4.13	3.30	5.74	25	2.67	2.51	3.071
November....	3.98	2.59	2.64	2.85	4.10	5.25	1.27	1.07	2.61	3.26	2.960
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 - Rotheroe ae.,

Diameter ..	8									
Height ....	1.2									
Altitude ..	193 ft									
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	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 1/8 miles S W

Rowenden Station 2 1/4 S E by E

1905 Biddenden .

## RAINFALL at Benenden East End Sanatorium

County of Kent

Observer

Dr W. J. Wilkins Dr J. D. Macfie (12)  
Dr G. C. Smyth W. Scovell Esq (13)  
Dr W. G. Lee (14) A. New Robertson (15)

River Basin Rother &amp; C 1

Snowdon Rain Gauge, by No 3

Diameter ...	5										
Height .....	10										
Altitude ...	..	190	260	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	2.64	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 .....	2.34	2.07	4.00	.23	1.40	1.29	2.76	2.41	.34	.50	
July .....	2.37	.60	.68	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	imp	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	
											D

1910 Sanatorium Buildings 35 ft high 50 yds N  
 1915 Not printed bad. see note below  
 1916 Corrected for use of 8 in gauge with 5 in g. 1915 appears to require correction 10% - Dec. 1916

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911	51° 5.05' N	0.37.16 E	Biddenden Petherton	2 1/2 miles 2 1/4 miles	NNE SE	Benenden	2 1/2 miles	S W

## RAINFALL at Benenden National Sanatorium

County of Kent -

Observer Dr. N. Robertson  
1924-1925 St. Spurrier, Esq., B.A. (1922)

River Basin Rother &amp;c 1

Medical Superintendent

Snowdon Rain Gauge, by Dr. H. S. Spurrier.  
1928 Glycer.

Dr. H. S. Spurrier (med. super.)

Diameter ...	5"										
Height .....	10										
Altitude ...	160										250
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930.
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	1.40	.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	3.86	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	6.47	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	38.22	32.28	28.06	32.80

1920 Sanatorium 100yds N.

1922 Fence 3ft. high 4ft. S.

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

1926. Fence 20ft. high 10ft. E.

1927 — do — Fence 2ft. high 6ft. 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	Parish Church.	Distance from gauge	Direction
1920			Biddenden	3 mi	NNE.	Benenden	3 mi	S.W.
1922			>	3 mi	NE.	>	2 1/2 mi	N.E.

## RAINFALL at Benenden (National Sanatorium)

County of Kent

Observer H. S. ~~Sawyer~~, Esq., M.B.

River Basin Rother + c.l.

CEH Assessor

Type of Gauge Glaisher (Shorten 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	4.47	1.65	1.10	3.79	1.42	3.81	5.6	1.05	1.91		
March	1.52	1.52	1.98	2.97	1.41	1.76	4.34	5.3	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	1.70	2.02	2.20	2.65	(2.67)	1.58	1.10		
June	1.41	4.46	1.74	1.19	2.09	2.98	2.00	1.81	1.44	1.60		
July	1.89	3.04	1.83	1.74	1.52	4.22	1.02		1.99	2.33		
August	4.26	5.7	1.96	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	1.58	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	1.52	5.3	1.44	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	d.p.	d.p.	d.p.		
								imp.				

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

1936 n/p 100:

1937 n/p 100:

1938 Record very dec. unreliable.

1940 Jan  
Feb  
Mar  
Apr  
Sept  
Oct part-estd.

1940 Fir 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, } No. of Map..... Reference No.....  
1 mile to 1 inch Series }

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 Benenden (Makinal Sanat)

41

County of Kent.....

Observer Mr. Medical Superintendent

River Basin Rottnest c.s.).....

Type of Gauge Sonowdon.....

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

File No. 17982/32

Diameter	5"										
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	(1.41)	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	with m.p.	25.59	21.64	N.R.							

1941. m.p. imp. True 20' high 25° N.E. True 10' high 15° E. Force 2' high 45° S. True 15' high 25° W.

1942 Feb. corrected by ref. to nearby estns.

obs. terminated owing to snow action

Position of Station on reduced Ordnance Survey Map, | No. of Map..... Reference No.....  
1 mile to 1 inch Series

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge.
1941			Benenden	3 miles	N.E.	Benenden	2 miles	S.W.