

RAINFALL AT Walmer Deal & Walmer Water Works

Lat. _____

Lon. _____

County of _____

Kent

Float Rain Gauge, by _____

Observer W. A. Mantle EsqS. Shore.

Diameter									12		
Height							1	0			
Altitude							100				
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January								2.10	.48	2.69	
February								2.28	1.00	2.11	
March								3.22	1.60	.88	
April							#.88	1.93	.95	2.84	
May .....							.12	.52	3.47	2.16	
June							2.45	1.30	2.15	3.70	
July							1.53	.35	.58	1.16	
August							2.87	3.13	2.25	.66	
September....							5.90	1.40	.47	3.21	
October							6.48	.32	3.30	2.26	
November....							2.70	1.53	2.20	2.35	
December							4.07	3.35	2.08	2.27	
TOTALS								21.43	20.53	26.29	

1898 St Leonard's Ch 1/4 mile N

Wall 5 ft high 22 ft N.W.

Tree 6 - - 23 - S.E.

Float gauge with fixed rod sunk in a brick pit.

RAINFALL AT Deal and Walmer Water Works

Lat. _____

Lon. _____

County of _____

Kent

Rain Gauge, by _____

Observer _____

a Mantle & Co

S. Shaw.

Diameter . . .											5	
Height											10	
Altitude											100	
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January										2.68		
February										2.08		
March . . . . .										.83		
April										2.84		
May										2.15		
June										3.71		
July										1.15		
August . . . . .										.70		
September . . .										3.25		
October										2.27		
November										2.37		
December										2.28		
TOTALS . . .										26.31		

S. Leonard's Church 1/2 mile NNE

RAINFALL AT Deal and Walmer Water Works

Lat.

Lon.

County of

Kent East

Float Rain Gauge, by

Observer

A. Manette Esq.

2. Stowell, "Ommake" 1907

Diameter ..	12										
Height	1	0									
Altitude ..	100	110									
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	3.25	.60	1.20	2.25	3.88	1.00	3.50	.90	1.68	.65	1.891
February ..	5.35	2.00	1.30	1.55	2.50	1.00	2.33	1.44	1.34	.78	1.959
March ....	.85	2.23	1.37	2.45	1.15	2.93	1.67	.50	2.20	3.02	1.837
April .....	.95	1.65	.45	2.30	1.20	2.47	.55	2.00	1.90	1.65	1.512
May	1.15	1.27	2.05	2.12	2.07	1.50	2.23	4.10	1.38	.83	1.870
June	2.20	1.30	2.25	4.15	1.05	5.00	1.75	1.88	1.95	2.57	2.410
July	1.25	.70	1.65	3.60	1.05	1.28	.20	1.87	2.97	2.55	1.712
August	2.80	1.80	3.65	3.95	1.98	1.40	.30	1.28	3.10	2.58	2.284
September ..	.90	1.20	.75	3.60	1.37	1.95	1.70	.40	2.35	2.10	1.622
October	1.85	1.88	1.50	5.00	2.20	2.37	3.85	5.50	1.25	7.45	3.235
November ..	4.38	.95	2.50	3.57	1.03	3.95	4.62	2.42	1.14	.52	2.512
December ..	2.95	4.12	2.22	2.75	1.80	.48	2.25	2.80	2.92	4.60	2.789
TOTALS ..	27.88	19.70	20.89	37.19	22.28	25.33	24.45	25.09	24.22	29.30	2.5633

1903, ^{Solemade} Upper Deal Church 1/2 mile N
 Upper Walmer Station 1/4 " S
 Wall 5 ft high 22 ft. x W

Mass

RAINFALL AT Deal and Walmer Water Works

Lat.

Lon.

County of

Kent East

Snowdon Rain Gauge, by *Canella*

Observer

*A. Mantle Esq**2-Blow &c.*

Diameter ..	5										
Height	10										
Altitude ..	100 N	110 N									
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	3.30	.63	1.19	2.27	3.89	1.01	3.52	.92	1.70	.65	1908
February ..	5.36	2.03	1.36	1.57	2.54	1.00	2.35	1.44	1.39	.78	1982
March ....	.87	2.24	1.32	2.50	1.16	2.93	1.70	.51	2.23	3.07	1853
April .....	.96	1.68	.48	2.31	1.23	2.51	.54	2.02	1.92	1.63	1528
May	1.18	1.30	2.09	2.16	2.10	1.53	2.22	4.12	1.38	.83	1891
June	2.29	1.35	2.30	4.16	1.02	5.09	1.76	1.89	1.97	2.64	2447
July	1.26	.75	1.70	3.64	1.07	1.31	.21	1.87	3.01	2.52	1734
August	2.85	1.84	3.71	3.96	1.98	1.46	.32	1.34	3.11	2.53	21310
September ..	.92	1.21	.79	3.58	1.39	1.97	1.71	.40	2.33	2.08	1638
October	1.90	1.90	1.51	5.01	2.24	2.38	3.34	5.56	1.27	7.48	3259
November ..	4.46	.96	2.50	3.55	1.02	4.01	4.64	2.45	1.16	.50	2525
December ..	2.97	4.11	2.22	2.77	2.83	.50	2.31	2.83	2.95	4.57	21306
TOTALS ..	28.32	20.00	21.17	37.48	22.47	25.70	24.62	25.35	24.42	29.28	25881

St Leonards
 1903. Upper Deal Launch 1/4 mile N
 Upper Walmer Station 1/4 S
 Wall 5ft high 20ft NW

Hills

RAINFALL at Deal & Walmer W. W.County of KentObserver A. Mantle EsqRiver Basin Stour + C 2Flood gauge Rain Gauge, by Gun make

M

Diameter ...	12											
Height	10											
Altitude ...	110 N											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	Sums
January ...	3.10	1.90	2.90	3.75	.91	3.08	1.18	3.00	2.93	4.00		16.19
February ...	3.20	.95	2.05	.53	2.65	5.22	3.35	.48	.60	2.63		11.11
March	1.40	2.45	4.10	2.25	5.35	.93	3.67	1.37	1.35	3.15		7.96
April	2.13	1.10	.18	2.47	1.27	1.65	1.48	2.10	1.00	3.20		9.54
May	3.35	.80	.55	.95	1.10	2.72	2.10	1.05	2.27	.20		7.78
June	3.27	2.45	2.67	.50	1.10	.40	2.10	1.62	.50	.82		5.62
July	1.75	.20	2.15	1.75	3.48	3.20	1.57	3.42	3.03	2.93		5.05
August	2.20	.93	5.10	2.40	.70	1.70	2.75	6.25	1.05	1.22		10.95
September ..	.98	1.35	3.40	2.03	1.22	3.18	.93	.60	5.25	1.10		11.27
October ...	2.17	6.40	3.15	3.67	2.83	2.65	4.87	3.60	2.42	1.10		7.88
November ..	5.63	5.47	1.95	3.48	3.32	4.32	5.40	1.53	2.70	3.93		11.99
December ...	3.77	5.75	2.78	1.97	7.75	6.85	3.63	2.40	1.95	3.37		13.53
TOTALS ...	32.95	29.75	30.98	26.05	31.68	35.90	33.03	27.43	25.05	27.65	300.47	16.35

1910 Fall 5 ft high 22 ft N.W.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1910	51.12	1 23 E	Walmer	1/4 mile	S	St Leonard's n.p. Deal	1/4 mile	N

RAINFALL at Deal & Walmer Wks.

County of Kent

Observer A. Mantle Esq

River Basin Stone & C 2

Smoothen Rain Gauge, by Cassella

Diameter ...	5											
Height	1.0											
Altitude ...	110 ft											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	TOTALS
January ...	3.05	1.90	2.91	3.76	.88	3.05	1.19	2.94	2.94	4.06		11.13
February ...	3.19	.92	2.08	.80	2.60	5.19	3.31	.46	.60	2.67		7.04
March	1.41	2.40	4.07	2.24	5.33	.94	3.76	1.46	1.33	3.15		9.70
April	2.08	1.11	.17	2.47	1.27	1.64	1.45	2.07	.98	3.30		7.80
May	3.34	.78	.54	.96	1.11	2.71	2.14	1.04	2.25	.21		5.64
June	3.25	2.45	2.65	.52	1.15	.41	2.13	1.66	.51	.83		5.13
July	1.75	.22	2.21	1.71	3.49	3.22	1.60	3.40	3.04	2.88		10.92
August	2.19	.96	5.12	2.45	.72	1.71	2.70	6.23	1.09	1.23		11.24
September ..	.96	1.32	3.42	2.02	1.25	3.19	.95	.57	5.20	1.11		7.83
October ...	2.17	6.39	3.10	3.70	2.81	2.64	4.85	3.58	2.42	1.10		11.95
November ..	5.71	5.48	1.96	3.46	3.32	4.31	5.46	1.53	2.68	3.92		13.59
December ...	3.77	5.73	2.75	1.91	7.68	6.87	3.62	2.39	1.93	3.35		11.29
TOTALS ...	32.87	29.66	30.98	26.00	31.61	35.88	33.16	27.33	24.96	27.81	300.26	1132.6

1910 Wall 5 ft high 20 ft NW

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1910	51.12 N	1.23. E	Walmer	1/4 mile	S	St Leonard's sp Deal	1/4 mile	N

Glass 2118 Corolla, tested 25.11.98

(1883) Wt. 1671-2044. 10,000. 4/21. J. T. & S., Ltd. 160.

RAINFALL at Deal and Walmer W.W.County of KentObserver A. Mantle, Esq.River Basin Stour & C 2W. Mantle (1933)Type of Gauge London (M.O. 1925)

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

Diameter	5										
Height	10										
Altitude	110										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Total Months
January	2.98	2.32	2.53	2.58	2.05	4.36	5.20	3.89	5.68	1.87	334.6
February	2.65	.56	1.29	.31	3.28	2.70	4.45	.97	.99	1.79	189.9
March	.44	1.44	2.14	3.26	.15	.72	5.08	.38	1.88	2.68	181.7
April	2.45	2.52	.92	2.63	3.28	1.49	2.20	.73	2.84	.95	200.4
May	2.08	1.63	1.32	1.20	1.82	.21	3.41	2.18	1.80	.17	158.2
June	.77	1.05	1.66	1.13	2.69	3.01	1.44	1.32	1.40	.13	14.90
July	2.82	4.55	1.83	1.01	.41	4.38	1.03	3.01	1.68	2.57	232.9
August	3.47	.37	.56	2.82	4.06	1.61	1.66	2.54	2.29	.12	194.9
September	1.66	2.03	5.79	1.29	3.85	3.10	3.86	2.35	1.81	2.13	278.7
October	.93	8.05	1.50	1.93	4.06	2.01	3.40	3.48	12.60	4.04	419.9
November	4.11	1.06	2.52	2.18	5.68	5.05	1.09	3.99	5.16	7.25	379.9
December	.77	.62	.71	5.52	3.78	2.91	5.79	2.56	1.61	1.63	259.0
TOTALS	25.13	26.20	22.77	25.86	34.99	31.55	38.61	27.40	40.07	25.33	297.91
	D.	D.	D.	D.	D.	D.	D.	D.	D.	D.	

1931. Wall 5' high 16' N.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.			Walmer	1/4 m	S.	St. Leonards.	1/2 m	N.

RAINFALL at Deal & Walmer W.W.

41

County of Kent

Observer W. Mantle Esq.

River Basin Stour & C. 2

Type of Gauge Snowden

Annual Average 28.0 in. based on years obs. un-weighted. Period of average

Ref.

File No.

E 346 127
698 146 26

Diameter	5"				304	604		5"			
Height	1' 0					1		1' 0			
Altitude	110'					41		110'		111'	
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.48	2.12	4.15	1.85	2.82	2.27	2.18	4.50	1.69	1.40	Total 25.46
February	2.63	2.02	1.71	1.24	1.71	2.71	1.48	4.00	1.36	4.34	20.20
March	1.45	2.11	.42	.08	.73	2.19	5.00	1.70	.52	.83	14.03
April	1.05	1.27	.78	1.70	1.51	1.69	1.85	1.60	1.97	1.78	15.20
May	1.57	3.31	1.77	.91	1.80	2.54	.86	1.90	1.77	1.74	18.17
June	.64	.17	1.34	1.14	.50	2.42	3.70	2.17	.54	.84	13.46
July	3.35	2.67	1.53	1.96	1.36	2.78	1.71	1.89	1.08	2.83	21.16
August	4.24	2.00	1.31	1.31	3.73	5.48	.18	3.30	.82	2.16	24.53
September	.24	2.34	1.10	3.20	1.25	1.81	1.85	2.51	3.03	2.20	19.53
October	1.87	3.56	1.53	5.83	1.74	1.11	.42	1.22	7.61	.71	25.60
November	3.23	2.48	2.60	5.12	1.80	5.39	1.49	2.19	3.97	6.04	34.31
December	1.70	3.13	2.34	2.80	3.64	2.94	2.51	2.77	2.49	2.52	26.84
TOTALS	24.45	27.18	20.58	27.14	22.59	33.33	23.23	25.75	26.85	27.39	258.69

1941. Wall 5' high 16' NW.
 1948. Closest to house from Stn. 292 on 1st June 1948 from 7.5-12.5 by R.N. College Lane, g. 100' from water tower 60' high.

* Used in General Table Origin unknown

W.M. Kent Hill P.R. 280

1948. No records received for rainfall before June; gauge unserviceable.

Inspected Mr. Drummond 20.7.49. Gauge found but mounted on concrete slab 6" above ground level of Walmer. No stone shelter from water tower with winds S-SW-W. Recommended move to nearby field.

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

No. of Map

Reference No.

Date.	Lat. N.	Long. E.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge.	Direction
1941 1948	51° 12' 5"	1° 23' 25"	Walmer	1/2 mile	S.	St. Leonard	1/2 mile	N.

BRITISH RAINFALL ORGANIZATION

Station No. 289 M.

RAINFALL at DEAN & HAMMER Waterworks

51

County of KENT

Observer W. MANTLE, Esq.,

River Basin STOUR & C 2

Type of Gauge SNOWDEN

Annual Average 27.2 in. based on 41 years obs. un-weighted.

Period of average 1881-1915

Ref. S.

28.28 " " 35 " - 1916-1950

1916-1950

File No. E 6941/47 P

Diameter ...	5"				304	604					
Height ...	1' 0"										
Altitude ...	111'					51					
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	2.99	2.91	.98	1.60	3.49	5.56	1.91	3.01	2.41	3.41	23.27
February ...	5.09	1.79	1.91	2.29	2.19	1.60	3.85	2.30	.01	1.49	22.52
March ...	2.53	2.97	.12	2.84	1.56	.32	1.07	2.25	1.61	1.39	16.66
April ...	1.77	1.02	1.04	.20	.26	.57	.28	1.39	2.37	0.89	9.19
May ...	2.14	1.11	1.68	2.43	4.52	.35	.85	1.30	.60	2.32	17.30
June ...	1.28	2.25	2.14	1.82	1.59	2.62	.57	4.24	.47	1.78	18.81
July ...	1.74	.76	2.24	2.53	.30	2.59	3.87	2.26	2.16	3.25	21.70
August ...	4.61	2.78	1.68	2.93	1.56	2.82	1.96	2.72	1.31	3.14	23.51
September ...	4.30	6.97	3.22	1.53	.62	1.95	3.10	1.99	.16	2.79	26.63
October ...	2.61	2.84	2.60	1.55	5.95	1.89	1.04	4.37	3.44	7.83	31.12
November ...	4.32	2.70	1.54	5.53	1.78	.58	4.21	1.83	5.79	6.41	31.69
December ...	2.76	2.62	1.05	1.63	2.13	2.83	1.25	4.22	6.29	4.13	28.91
TOTALS ...	36.14	30.72	20.20	26.88	25.95	23.68	23.96	31.93	26.62	38.83	284.91
	D	D	D	D	D	D	D	D	D	D	

1951 Gauge 5" 30' NW + NE.

Inst. II 1959 1/30". Water tower 65', 120' WSW. otherwise satisfactory, exposure correct for gauge being mounted on concrete slab. See memo re to reg. flat.

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference TR 363 508

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

Summary of Earlier Records from 10-year Sheets :

1916-1950, P - accepted

Record D, or d	1910-10	1920-30	1931-40	1941-50	1951-60
C 1896	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓