

RAINFALL at Billerica Service TankCounty of EssexObserver Southern W.W. Co. C.C. BillhamRiver Basin Crouch 3Snowdon Rain Gauge, by N+3
Cable 60 miles

Diameter ...	5											
Height	1.0											
Altitude ...	310 ft											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	Total
January ...	1.38	1.35	2.89	3.49	.77	2.98	1.06	1.31	2.72	3.08		16.19
February ...	2.40	1.22	1.76	.69	1.96	2.36	3.84	.71	.89	2.72		8.17
March .....	.96	1.66	2.76	2.13	4.07	1.14	3.83	1.60	.96	2.95		8.16
April	1.20	1.23	.08	2.85	1.48	.97	1.57	1.45	2.62	3.10		7.34
May	3.55	.93	.98	1.65	1.81	2.26	1.67	2.48	1.80	.16		8.74
June	2.38	2.40	3.21	1.55	1.06	1.60	2.51	.91	.86	1.63		6.11
July	1.90	.96	1.34	1.72	1.19	2.97	.92	4.36	7.57	1.90		5.91
August	1.97	1.16	3.67	1.01	.64	3.02	3.60	3.82	1.15	2.05		14.75
September ..	1.10	1.39	2.47	.90	1.01	2.77	1.02	1.24	3.89	1.05		10.62
October ...	1.63	2.99	1.94	3.56	1.26	2.01	2.45	3.46	2.03	1.18		7.20
November ..	3.42	4.14	1.92	3.13	2.21	3.22	4.05	1.74	1.78	1.97		9.12
December ...	3.15	3.59	2.81	.69	5.30	4.96	2.58	1.48	1.98	3.76		7.54
TOTALS ...	25.04	23.02	25.83	23.37	22.76	30.26	29.10	24.56	28.25	26.55		9.80
	2	2	2	2	2	2	2	2	2	2		107.26

1915 Service Tank 50 ft high 43 yards W.N.W.
Tide 25. 40. N

Date.	Lat. N.	Long. E.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	51.37	0.25	Billerica	1/2 mi	N	Billerica	1/4 mi	N

RAINFALL at *Bilbricgy Service Tank.*County of *Essex*Observer *Louise & W. W. G.*River Basin *Crouch 3**Cl. Billan**Coppa*
London Rain Gauge, by *N. 53.*{ 5.2
4.8 }

(Inquire to make this line)

Good condition (22)

Diameter ...	5											
Height	1	0										
Altitude ...	310.											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEAN 1930	Total 3.
January ...	2.50	1.86	2.91	1.02	2.71	1.38	2.15	1.15	2.76	1.15	1.52	21.11
February ...	.27	.31	1.72	2.66	.67	2.26	2.50	2.82	1.16	.38	.46	15.21
March	1.06	.85	1.31	1.51	.49	.81	.12	1.57	2.00	.03	1.02	10.77
April	3.65	1.63	2.33	1.88	2.71	1.49	4.42	1.43	1.22	1.01	1.85	23.62
May	1.24	1.13	.59	1.53	4.52	1.99	.83	.86	2.02	1.37	2.30	18.32
June .....	.93	.24	.90	.82	1.63	.36	2.98	2.52	2.19	.68	.51	15.76
July	2.74	.09	2.85	1.01	3.38	3.75	1.99	2.32	1.57	2.41	2.03	24.16
August	1.72	1.33	1.84	2.30	1.41	2.56	1.02	3.22	2.66	1.75	2.89	22.70
September...	4.54	1.86	2.47	1.71	2.47	2.08	.54	3.57	.53	.32	2.02	22.11
October	1.23	.86	1.23	4.03	3.28	2.95	2.16	1.23	2.97	2.70	.87	23.51
November...	.56	1.62	1.54	2.15	3.16	1.51	2.78	1.96	1.50	4.42	2.90	25.10
December...	2.46	1.25	2.58	1.84	2.34	2.22	.42	2.10	2.37	2.59	1.78	21.95
TOTALS...	22.90	13.03	22.27	22.46	28.77	23.36	22.91	24.75	22.95	18.81	20.15	242.36
	2	2	2	2	2	2	2	2	2	2	2	44

1920. Dec 25ft high 40yd. N.
 { Service tank 50ft 43, W.N.W.
 which is a perfect circle.

1922 Inspected Station 25.04.24. Is. is exposed on level grass land in same field as the service tank but is quite free from sheltering by the latter or by trees. Is. is surrounded by a palisade about 2ft. high at least 5ft. from the gauge.

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

No. of Map

Reference No.

Date.	Lat. N.	Long. E.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
	51° 37'	0° 25'	Bilbricgy	1 mi	N.	Bilbricgy	4 mi	N.

RAINFALL at Billerica (Service Tank)County of Essex Observer Southend Water Works Co.River Basin Crouch - 3Type of Gauge SnowdonAnnual Average in. based on years obs. un-weighted. Period of average Ref. 660610/26

Diameter	5.											
Height	1.0.											
Altitude	310.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Total	Mean
January	1.29	.80	.80	1.11	1.12	2.91	2.95	2.67	4.04	1.61	1930	
February	1.42	.20	.93	.25	1.65	1.39	3.22	.49	.89	1.22	1166	
March	.34	1.14	1.49	2.00	.83	.99	1.86	.42	1.48	2.40	1295	
April	2.95	1.82	.72	1.64	2.34	1.31	2.22	.27	2.21	1.51	1719	
May	2.25	2.56	1.08	.40	.98	.63	2.91	1.58	1.70	1.15	1524	
June	1.17	.74	1.80	1.30	2.98	2.54	1.98	.50	1.12	.35	1448	
July	2.24	2.13	1.49	.96	.48	2.63	1.74	1.46	2.49	2.99	1861	
August	3.27	1.24	.62	1.60	2.05	.56	1.02	1.79	3.29	.06	1550	
September	1.23	1.67	2.16	1.28	2.90	2.28	1.31	2.63	.86	1.00	1732	
October	.47	4.83	.91	1.82	2.03	1.68	1.11	2.50	6.02	2.06	2343	
November	1.78	.86	.92	1.65	3.69	2.88	1.61	2.35	3.19	4.84	2377	
December	.42	.35	.38	3.78	1.91	1.68	3.03	2.91	1.05	1.27	1678	
TOTALS	18.83	18.34	13.30	17.79	22.96	21.48	25.16	19.57	25.34	20.46	20623	

1931 Tree 25' high 40 yds N
 (Service tank 50' " 43 yds WNW
 open guider
 erection)

1.3.40. Gauge moved to a point 6' from an 18" phreatic hedge. running along west side.
 1939 "p. low.

1940. N. Water Tower - 55'0" high - 55' distant. S. Concrete Water Tower 54' high - 55' away.
 W. Hedge 2'0" high + 10' distant. E. Open.

1940 np low

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			Billerica	1/2 ml	N	Billerica	1/4 ml	N

Station No. T.F.F. 1278RAINFALL at Billinsey (Service Tank)

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County of EssexObserver Southend Water Works Co.River Basin Chesham - 3Type of Gauge StandardAnnual Average 23.6 in. based on 5 years obs. ~~un~~weighted. Period of average 1881-1915 Ref. P.B. 527File No. 660610/26

Diameter	5"			232	927							
Height	1'0"											
Altitude	310'											
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	
January	2.40	2.13	4.75	1.17	1.74	1.36	1.80	3.58	1.14	1.60		Totals 21.67
February	2.07	1.27	1.14	.82	1.61	2.45	1.14	2.23	.80	2.80		16.33
March	2.59	2.62	.41	.14	1.12	1.25	4.65	.71	.80	.78		15.67
April	1.15	.57	1.33	1.44	.99	1.42	1.02	1.31	1.59	1.79		12.61
May	1.66	2.03	1.11	.62	2.89	1.81	.65	2.65	1.67	1.58		16.67
June	.88	.38	1.68	1.67	1.58	3.09	2.18	2.13	.76	1.78		16.13
July	2.35	1.96	1.10	1.92	2.25	1.49	1.67	1.03	.98	2.46		17.21
August	3.84	2.30	1.44	2.47	1.97	3.48	.22	3.40	1.38	2.29		22.27
September	.35	1.42	1.81	3.23	1.03	1.88	1.47	1.23	1.38	3.02		16.22
October	.95	3.34	1.89	3.38	1.82	1.32	.14	1.78	5.57	.29		20.45
November	2.47	2.28	1.44	3.92	.43	2.45	.78	1.95	2.21	4.53		22.46
December	1.80	2.38	1.64	.96	2.88	2.11	2.43	1.65	1.47	1.79		19.11
TOTALS	(22.61) D	22.68 D	19.74 D	21.74 D	20.31 D	24.11 D	18.15 D	23.65 D	19.75 D	24.71 D		217.45 D

1947 cups on being taken to result the gauges to avoid it being screened by the concrete water towers.

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.

BRITISH RAINFALL ORGANIZATION

RAINFALL at Billericay (Service Tank)County of Essex

Observer

Southend Waterworks Co.River Basin Crouch. 3Type of Gauge Snowdon + B.A. anem.Annual Average 23.4in. based on 5 years obs. unweighted. Period of average 1881-1915 Ref. P.B. 527" " 23.97 " " 16 " " 1941-57 " "File No. 2606.10/26

Diameter ...	5"										
Height ...	1' 0"										
Altitude ...	310'										
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	1.92	1.67	.95	1.49	2.87	3.59	1.12				
February ...	5.42	.90	1.27	2.14	1.87	.45	2.89				
March ...	2.92	3.60	.50	2.28	1.33	.91	1.27				
April ...	2.75	.76	2.55	.27	.23	1.44	.15				
May ...	2.42	.97	1.57	1.85	4.78	.41	.96				
June ...	.90	2.32	1.94	3.27	2.92	2.12	.82				
July ...	1.91	.60	3.58	2.68	.11	4.02	3.38				
August ...	3.24	2.09	1.52	3.95	.49	3.67	2.68				
September ...	3.21	3.63	2.22	1.96	2.56	2.34	2.47				
October ...	.74	2.62	2.29	1.97	4.42	1.06					
November ...	4.21	4.02	1.39	3.31	1.03	.53					
December ...	2.06	2.47	.88	1.39	1.64	2.70					
TOTALS ...	31.70	25.65	20.46	26.56	24.25	23.24	<u>Inc.</u>				
	<u>d</u>	<u>W</u>	<u>W</u>				<u>np.</u>				

Installed 30.11.54. N. P.M.G. Decals. Two gauges, 191A & B.A. on lawn beside tank. Site on hill but well sheltered. Mk1A gauge had no bottom.

1957. Terminated end of Sept.

Position of Station on Ordnance One-Inch map:

No. of Map.....(61).....

National Grid Reference T.Q. 674.961

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 - Revised

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	✓	✓ but NP. 39-40	✓	
	✓	✓	✓	✓	