

RAINFALL AT Congleton Sewage Works

Lat.

Lon.

County of

Cheshire

Rain Gauge, by

Observer R. M. G. G. G. G. G.

weaver - 2.

Diameter ..						5					
Height						1 0					
Altitude ..						248					
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..						1.54	3.90	1.16	1.60	1.93	
February ..						1.62	2.59	1.58	2.24	1.01	
March						3.53	2.38	1.60	2.43	3.86	
April						2.30	2.44	1.88	2.02	2.21	
May .....						.56	2.94	3.24	2.04	1.54	
June						2.02	1.74	4.23	1.68	3.18	
July						2.71	1.09	3.17	2.69	5.07	
August						3.86	2.01	3.85	2.73	2.90	
September ..						2.04	1.86	.62	2.77	2.69	
October						2.82	4.96	3.03	.90	5.27	
November ..						3.06	1.73	1.84	2.36	1.22	
December ..						.53	3.45	1.88	2.41	5.28	
TOTALS ..						26.59	31.09	28.08	25.87	36.16	

1905 51 Peters Church 3/4 mile S

? N.E. Railway 1/2 . S

Hedge 7 ft high 20 yards SE

slope 5 ft - 15 ft . S

g. 70 yards from Buglawton g.

RAINFALL at Longleton Sewage WorksCounty of CheshireObserver Randall Bunslam Esq. C.E.
J.W. Walters Esq. C.E. 1912River Basin Mersey-Weaver 2

Rain Gauge, by _____

Diameter ...	5										
Height	10										
Altitude ...	248 ft										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	2.60	1.19	3.03	2.21	1.65	4.27	1.57	2.63	1.51	3.15	
February ...	2.72	2.02	.78	1.49	2.11	3.18	4.43	1.34	2.97	.88	
March .....	.94	1.90	4.29	3.93	3.47	1.54	1.96	1.92	2.12	5.26	
April	3.55	2.06	.25	3.40	.99	1.42	2.86	1.74	1.34	1.72	
May	2.49	1.12	1.99	2.44	1.99	1.53	2.36	2.07	2.80	1.19	
June	1.85	3.35	3.93	2.16	1.41	2.20	2.32	1.01	1.84	2.06	
July	4.60	.51	2.95	1.66	4.66	4.95	1.98	1.09	4.42	2.31	
August	4.71	2.24	5.92	2.40	3.46	2.68	3.33	4.68	2.90	3.38	
September ..	.47	2.53	1.69	1.52	1.70	.95	1.97	1.70	5.83	2.55	
October ...	2.62	2.38	2.92	2.39	1.51	1.48	3.18	4.16	1.72	3.02	
November ..	5.39	2.44	3.00	2.25	3.30	2.75	1.77	2.87	2.32	2.13	
December ...	3.41	5.30	3.14	1.27	5.05	5.24	2.93	1.30	5.36	5.18	
TOTALS ...	35.35	27.04	33.89	27.12	31.20	32.19	30.66	26.51	35.13	32.83	
	<u>2</u>	<u>3</u>							<u>2</u>	<u>2</u>	

from flat grass plot
1913 shed 9 ft high 35 ft

+ Inspected

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	53.1	2.5	Longleton	1 1/4 m	S.S.W.	St Peter St James St Stephen	3/4 m	S.S.W.

RAINFALL at Congleton Sewage Works

County of CheshireObserver J. H. Walters Esq. G.E.River Basin Mersey- Weaver 2W.H. Dunsen Arthur C.E. 1924
J. Hood(1925) No. Rain Gauge, byBroughton Sewage Congleton

Diameter ...	5						5				
Height	1 0						1 0				
Altitude ...	248					348	248				
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 Means.
January ...	3.47	3.92			3.02	2.53	2.83	3.29	6.67	225	4.38
February ...	2.89	4.6			1.43	4.44	3.04	2.11	2.66	93	23
March	2.93	1.73			.99	.98	1.30	3.99	1.76	69	270
April	4.60	1.66			2.41	1.85	1.39	2.62	1.19	104	269
May	4.13	1.36			4.05	5.04	4.07	1.55	0.92	223	203
June	3.09	.63			2.42	.17	2.21	5.52	5.08	219	1.47
July	4.49	.77			4.08	2.74	3.03	3.21	1.92	313	625
August	1.64	5.49			5.23	2.60	3.38	4.34	4.60	502	503
September...	3.15	.90			2.82	4.40	3.33	4.00	.81	193	318
October	1.92	2.63			3.74	4.05	2.67	2.01	3.77	500	5.45
November...	.57	2.01			1.54	2.13	4.80	2.82	4.68	687	372
December...	2.21	3.04			3.12	1.91	1.17	1.01	2.15	545	390
TOTALS...	34.99	24.60	33.00	40.50	34.85	32.84	33.22	36.47	35.61	3675	41.03
	D	D			D	D	D	D	D	D	2.

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	53° 1'	2° 5' 13"	Congleton	1 1/2 mi	S E	St. James 1927 St. Peters	1/4 mi	S W

RAINFALL at Congleton (Sewage Works) (+A)

County of CheshireObserver Borough SurveyorRiver Basin Mersey-Weaver-2Type of Gauge M.O.30.516Annual Average 32.1 in. based on 16 years obs. un-weighted. Period of average 1881-1915 Ref S

243690/33

Diameter	5.											
Height	1.0.											
Altitude	248											
Year	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	Mean	Std. Dev.
January	3.11	2.96	2.01	2.49	2.13	3.23	3.51	3.93	4.41	1.82	29.60	
February	3.56	.23	4.58	.47	3.51	1.96	4.80	.98	2.18	2.10	24.37	
March	.45	2.06	3.00	2.45	1.05	1.71	2.04	.90	1.88	2.26	17.80	
April	4.31	2.66	1.71	2.06	3.22	1.21	3.35	.18	1.49	1.88	22.27	
May	3.26	5.52	1.62	1.56	.99	.80	1.97	2.13	1.46	1.63	20.94	
June	5.09	.74	4.12	2.66	4.55	2.76	1.82	2.63	1.75	1.45	27.56	
July	4.22	3.62	3.84	1.75	1.33	5.82	3.84	3.61	4.57	3.72	36.32	
August	5.59	4.06	0.84	2.01	1.72	2.30	1.48	3.40	2.18	1.24	24.82	
September	3.33	2.93	0.82	2.13	5.02	3.60	1.87	1.40	.92	2.86	24.88	
October	1.39	7.13	4.87	3.17	4.85	2.84	2.12	4.19	2.86	3.49	36.91	
November	5.11	2.94	1.63	2.09	4.85	3.63	1.18	3.41	5.12	6.67	36.63	
December	1.67	1.16	0.44	2.74	3.38	3.13	3.16	3.89	1.69	2.91	26.17	
TOTALS	41.09	36.21	29.48	27.57	36.60	32.99	31.14	30.65	30.51	32.03	328.27	
	D.	D	Dnp	D.	D.	D	D	D	D	D	D	

1932 observer agrees too big owing to works in operation near gauge.
 1933 up too big, observer agrees. TAg 243690/33

Inspected 28/9/37 all over

1937 Turf wall erected 22/12/37

New g. set up 22/12/37

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			Congleton	1/2 m	NW	St. Peter's	1 m.	NW.
1937				1/2 m	SE	"	1/2 m	SE
1940				1/2 m	SW	"	1/2 m	SW

BRITISH RAINFALL ORGANIZATION, EXHIBITION ROAD, LONDON, S.W.7.

Station No. 2768RAINFALL at Longleton (Sewage Works) (+A)

41

County of GloucestershireObserver Borough SurveyorRiver Basin Mersey & Trent - 2Type of Gauge M.O.Annual Average 30.5 in. based on 16 years obs. un-weighted. Period of average 1881-1915 Ref. SFile No. 243620/33

Diameter	5"			554	723						
Height	1' 0"				1						
Altitude	248'				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means Total
January	1.13	3.23	4.92	4.54	2.72	2.56	1.91	6.61	2.30	1.32	31.24
February	3.42	1.54	1.87	1.72	2.59	5.34	.61	1.74	1.52	4.26	24.61
March	2.29	1.78	.83	.51	1.30	.78	4.19	1.16	2.07	1.34	16.25
April	1.64	1.51	1.59	2.55	1.58	1.11	2.78	1.49	2.56	3.06	19.87
May	2.46	4.01	2.44	2.35	3.44	1.47	2.02	1.05	2.40	.98	23.02
June	.53	.79	2.54	3.11	2.61	2.67	2.02	4.67	1.42	2.08	22.44
July	3.18	4.04	1.57	3.18	1.54	4.67	3.01	2.54	3.06	2.83	29.62
August	4.36	2.44	2.90	2.83	2.92	4.21	.64	4.62	2.19	4.74	31.85
September	.46	2.18	3.85	3.29	1.84	4.10	1.97	2.11	.87	4.22	24.89
October	3.99	3.71	2.97	4.77	5.13	.73	.52	2.11	3.01	1.89	28.83
November	2.77	.67	2.38	5.01	.64	4.69	3.87	2.22	4.70	4.09	31.04
December	1.20	3.12	1.50	2.33	2.92	3.41	2.95	2.99	3.17	3.17	26.76
TOTALS	27.53 D	29.02 D	29.36 D	36.18 D	29.23 D	35.74 D	26.49 D	33.13 D	29.57 D	33.98 D	310.42

1947 Pumping Station 10' high, 40' S.W.

S Turfwall round gauge

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			Longleton	1 1/2 m.	S.W.	St. Peters	1/2 m.	S.W.

BRITISH RAINFALL ORGANIZATION

Station No. 2768

RAINFALL at Longleton (Sewage Works) (A)

51

County of CheshireObserver Borough SurveyorRiver Basin Mersey - Weaver - 2Type of Gauge M.O. (A)Annual Average 30.5 in. based on 16 years obs. un-weighted. Period of average 1881-1915 Ref. 1WS" " 31.10 " " 18 " " with 1938-51 " " 1916-50File No. 243690/33

Diameter ...	5"	554	723									
Height ...	1' 0"		1									
Altitude ...	247'		51	243		247						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	Totals
January ...	2.03	3.63	1.22	2.22	2.56	4.34	1.49	2.57	2.47	4.55	27.07	
February ...	3.07	1.36	1.64	2.75	1.98	.84	2.02	4.08	.41	1.98	20.13	
March ...	4.97	1.96	1.38	2.33	2.64	1.54	2.82	1.27	1.44	0.84	21.19	
April ...	2.84	3.55	2.48	.50	1.63	1.28	.48	.97	2.51	1.37	17.61	
May ...	2.59	2.31	1.92	2.36	2.72	1.07	1.25	2.97	.96	1.69	19.84	
June ...	1.83	2.68	2.23	3.97	2.86	2.81	1.95	5.11	1.34	2.81	27.59	
July ...	3.19	1.75	4.15	4.47	1.83	4.30	5.86	4.00	1.89	3.37	34.81	
August ...	4.65	1.31	3.52	4.50	1.02	7.40	4.28	4.98	.72	3.43	35.81	
September ...	2.38	2.60	2.57	3.44	2.40	2.03	5.88	4.42	.12	3.65	29.49	
October ...	.90	2.60	2.10	5.39	2.04	2.52	2.58	2.98	2.06	4.08	27.25	
November ...	7.11	1.87	2.21	5.21	1.64	1.35	1.41	1.60	3.64	4.56	30.60	
December ...	4.33	3.16	1.20	4.17	3.03	3.29	2.81	2.96	4.73	3.50	33.18	
TOTALS ...	39.89	28.78	26.62	41.31	26.34	32.77	32.83	37.91	22.29	35.83	324.57	

1951. Pump station 10' at 40' S.W.

1956. Slightly low but accept.

Inspection 1959 B.O.K. Notes well. G. may have been moved since previous inspection in 1937. G. is at present reasonably well exposed but with drop of 3.10' W.S. to station - tank and 2.10' E.N.E. to settling tank. 4.35' W.S. looks possible today. Reconstruction work in the new future may necessitate a further change of pitch. Delivery tank off.

§ Tuff wall.

Position of Station on Ordnance One-Inch map :

No. of Map 110National Grid Reference 83/851655

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.
1951			Longleton	1 1/2 m S.W.	St Peter	1/2 m S.W.

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	2021, 24-20	✓ n.p. 33	✓	✓
	D10, 11, 18, 19	V but - 29	✓	✓	