

RAINFALL AT Chester Hawarden Bridge

Lat. ....

Lon. ....

County of Cheshire Flint

Rain Gauge, by .....

Observer Meteorological Council

See - 1.

Diameter ..				8							
Height ....				10							
Altitude ..				20							
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..		(1.60)	.97	2.15	1.83	.59	3.77	1.00	1.51	1.25	
February ..		(1.10)	1.06	1.15	2.92	.76	2.18	1.24	1.38	.77	
March ....		1.34	1.03	2.68	1.29	2.38	1.58	1.45	2.82	2.51	
April .....		1.12	.94	1.29	.50	1.57	.69	1.03	3.55	1.81	
May .....		.86	3.06	2.31	1.82	.57	1.80	2.63	2.52	1.06	
June .....		1.89	1.05	1.19	1.07	4.40	1.01	2.82	1.87	2.52	
July .....		2.61	1.00	3.34	1.42	1.94	.80	2.65	2.45	1.63	
August ....		2.10	3.01	3.04	3.93	4.22	2.63	2.15	2.85	2.48	
September..		1.02	.62	3.38	1.79	1.19	1.19	.32	3.90	2.10	
October....		1.18	3.31	7.78	1.07	1.71	3.47	4.49	1.98	2.75	
November..		(2.85)	1.44	2.45	1.27	2.95	1.67	2.05	1.75	.88	
December ..		1.81	1.75	1.23	2.45	.57	2.47	1.69	1.31	4.17	
TOTALS ..	(2820)	19.48	19.24	31.99	21.36	22.85	23.26	23.52	27.89	23.93	(24.72)

1900 + pt 1901 - Hawarden GCR x  $\frac{100}{107}$

88

10479

RAINFALL at Hawarden BridgeCounty of FlintObserver J. E. Griffiths Esq. 1912 1914River Basin Dee 1Meteorological Office  
28 Hill

Rain Gauge, by \_\_\_\_\_

Diameter ...	9						8					
Height .....	1.0							1.3				
Altitude ...	15	22			15		15	22				
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS Totals	
January ...	1.59	.29	4.02	3.04	1.28	2.38	.58	2.02	1.39	2.48	6.47	
February ...	1.54	1.00	1.04	.77	1.99	2.06	2.66	1.21	1.46	1.37	6.70	
March .....	.50	.64	2.54	2.37	2.01	.85	1.95	2.26	.54	4.94	7.69	
April .....	2.03	.36	.24	2.55	.53	.98	1.18	1.14	1.28	1.33	4.93	
May .....	1.20	1.51	1.77	2.37	1.49	1.63	3.57	2.71	3.31	.59	10.18	
June .....	2.26	2.62	2.85	1.43	2.95	.65	.94	1.61	2.78	1.45	6.78	
July .....	2.59	.60	2.30	2.34	4.83	2.35	1.14	.86	2.96	1.50	6.26	
August .....	2.26	2.16	5.04	2.73	1.61	3.37	1.86	6.38	1.84	3.61	13.69	
September ...	.13	3.18	.79	1.47	1.56	1.00	1.74	.71	5.37	2.01	9.83	
October ...	1.96	2.10	2.79	2.11	1.50	1.77	3.60	3.82	1.40	3.75	12.57	
November ...	3.61	1.66	1.52	1.90	3.51	3.05	2.17	1.53	1.80	2.14	7.64	
December ...	2.73	3.41	1.57	2.11	8.61	4.04	1.79	.99	4.00	4.38	11.16	
TOTALS ...	22.40	19.53	26.47	27.19	31.87	24.13	23.18	25.24	28.13	29.35	105.90	
	D		D		D		D		D			

1912 Chumney 300 ft high 150 yds NE

1914

1914 Blenheim works to 200 yds S.

Date.	Lat. N.	Long. W.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1912	53.12.	2.1.	Shotton	1/2 m	E S W S	Shotton Hawarden	3/4 m 3 m	E S W S





RAINFALL at Hawarden Bridge M.W.R.County of Gloucester Observer J. Summers & SonsRiver Basin 1. DeeType of Gauge SnoddenAnnual Average 24.3 in. based on 35 years obs. unweighted. Period of average 1881-1915 Ref. A.W.S.

Diameter	8					8"					
Height	1.3		1.0			1.0					
Altitude	22		17			17'					
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means. 1931-40
January	2.29	2.17	1.47	1.33	1.35	5.82	2.59	3.26	4.81	1.99	2718
February	2.20	.05	3.09	.15	2.38	2.22	4.44	.45	2.51	2.74	2023
March	.26	1.89	1.84	1.96	.86	2.26	2.11	.64	1.78	2.28	1588
April	2.56	3.10	.90	2.01	2.26	1.57	3.12	.17	2.04	2.30	2003
May	2.80	3.80	1.15	1.40	1.52	1.12	2.52	2.54	1.72	2.50	2107
June	5.00	.47	1.33	.92	2.74	4.07	1.41	2.67	1.99	1.05	2165
July	2.08	3.57	1.33	.71	1.31	1.96	1.33	2.62	5.36	3.50	2377
August	5.94	1.01	1.02	2.05	.98	1.21	1.29	3.57	1.50	.47	1904
September	2.82	1.98	.65	1.55	4.94	3.29	2.06	1.03	0.70	3.00	2202
October	1.18	4.50	3.44	3.22	3.69	1.28	2.59	3.19	3.96	3.51	3056
November	4.09	2.87	1.46	2.04	4.06	2.47	1.62	3.44	4.41	5.51	3197
December	1.38	.87	.56	4.45	3.70	2.45	2.57	3.28	1.76	2.28	2330
TOTALS	32.60	26.28	18.24	21.79	29.79	29.72	27.65	26.96	32.54	31.13	27670

1936. Inspection in July gauge found to be 15" — lowered to 12".

1937. Gauge &amp; other instruments moved to new site — approx 16 yards ESE.

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

Station No. 4279 M.W.R.RAINFALL at Hawarden Bridge

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County of Hint Observer J. Summers & SonsRiver Basin 1-DeeType of Gauge Standard M.O.Annual Average 24.3 in. based on 25 years obs. un-weighted. Period of average 1881-1915 Ref. A.U.S.

File No.

Diameter	8				549	218				8 1/2"	
Height	10					3				1'0"	
Altitude	17					41				17	
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means 1941-50 Totals
January	3.64	(3.02)	4.16	3.16	2.46	2.73	1.80	6.17	2.36	0.54	30.04
February	3.11	1.26	1.75	1.30	1.85	3.80	1.19	1.26	1.10	5.20	21.82
March	2.76	2.01	0.91	0.75	0.67	0.83	4.56	0.85	2.10	0.98	16.42
April	1.15	1.11	0.96	0.96	1.40	0.59	2.12	1.50	2.40	3.43	15.62
May	1.82	2.79	2.34	1.54	3.40	2.37	3.14	0.76	2.28	0.98	21.42
June	0.46	0.12	2.93	1.24	1.97	2.99	2.20	3.40	0.58	1.32	17.21
July	1.50	2.66	2.95	1.84	3.17	1.80	3.03	1.56	3.41	1.82	23.74
August	3.06	2.29	2.06	2.03	2.31	3.97	0.25	2.31	1.63	5.56	25.47
September	0.34	1.30	4.77	4.16	0.93	2.36	1.76	1.33	1.14	4.19	22.28
October	3.25	2.18	3.42	4.54	4.03	0.72	0.61	1.81	3.87	2.08	26.51
November	2.89	0.68	3.45	5.19	0.20	4.49	3.66	1.42	3.78	3.73	29.19
December	1.13	3.07	1.17	1.81	2.60	3.10	2.31	2.83	3.63	2.87	24.52
TOTALS	25.11 D	22.49 D	30.57 D	28.52 D	24.99 D	29.75 D	26.63 D	25.20 D	28.28 D	32.70 D	274.24 D

1942 Jan adj.  
1950. Reported Def. New gauge recommended. Pump etc. shattered.  
New gauge installed Dec. 1950. 6 ft. north of old gauge.

4000 A

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 Hawarden BridgeStation No. 4279

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County of FlintshireObserver G. Summers & SonsRiver Basin 1 - DeeType of Gauge N.O.Annual Average 24.3 in. based on 35 years obs. ~~un~~-weighted. Period of average 1881-1915 Ref. AYWS.  
27.47 " " 6 " " 1951-1956File No. 1916-1950

Diameter ...	8"				549	218				5"	
Height ...	1' 0"					3				1' 0"	
Altitude ...	17'					51				17'	
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means Total
January ...	1.91	3.11	0.59	1.90	1.96	3.30 8.38	1.36	3.03	4.01	4.81	25.98
February ...	2.60	1.21	1.43	2.23	2.18	0.30	2.10	4.36	0.11	2.13	18.65
March ...	4.79	0.93	0.76	1.78	2.02	1.32	1.56	1.39	1.31	2.01	17.87
April ...	1.39	1.60	2.39	0.61	1.04	1.83	0.45	0.23	3.26	1.24	14.04
May ...	3.23	1.93	1.95	2.14	2.32	0.44	1.20	1.72	1.59	1.89	18.41
June ...	0.99	1.44	1.63	4.08	2.81	1.41	1.27	4.71	2.32	0.89	21.55
July ...	1.27	1.72	2.47	2.99	0.31	4.34	4.03	3.45	2.22	2.31	25.11
August ...	4.14	1.41	2.28	2.80	1.02	6.05	3.93	2.71	1.76	4.27	30.37
September ...	2.06	3.67	3.00	2.04	1.89	2.35	6.60	4.38	0.28	3.11	29.38
October ...	0.96	4.10	1.28	4.33	1.41	2.10	1.68	2.11	2.36	4.74	25.07
November ...	6.05	1.84	1.98	5.86	1.73	0.95	1.48	1.94	4.15	4.59	30.57
December ...	3.60	3.71	1.08	2.71	3.11	2.88	1.67	2.81	4.46	2.94	28.77
TOTALS ...	32.79 D	26.67 D	26.84 D	33.47 D	21.80 D	27.27 D	27.33 D	32.84 D	27.83 D	34.93 D	285.77 110

1950 Inspected Sept. Present site sheltered. New gauge installed Dec. 1950.  
6' north of old gauge.  
1955 Inspected by Mr. H.D. Hoyle 13/7/55 - Satisfactory.

Imp J. Harding 26/7/60. gauge to be raised. outer can damaged by squirrels, to be replaced. satisfactorily repaired. G. was moved a few feet 2 or 3 years ago.  
Site open to E 058  
1960 gauge raised to 12"

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference 33/32693

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 301

Record D, or d	1910-19 1910-1911 1912-19	1920-30 D	1931-40 D	1941-50 D	1951-60 D