

RAINFALL AT

Wirral W.T. Prenton

Lat.

Lon.

County of

Cheshire

Rain Gauge, by

Observer

P. H. Bettle Esq

Smidder
Lower mercury - 3.

Diameter ..								5			
Height								1.0			
Altitude ..							91	81 T	91 T		
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..							4.54	1.07	1.58	1.58	
February ..							1.69	1.54	2.00	0.57	
March							2.22	1.98	2.82	2.27	
April							1.05	5.81	3.18	2.26	
May							2.12	2.39	2.71	0.80	
June							1.52	4.16	1.95	2.00	
July							1.40	1.48	3.53	2.72	
August							3.17	2.13	2.46	2.78	
September ..							1.37	0.58	3.34	2.57	
October							4.24	3.71	1.96	3.51	
November ..							1.52	2.33	1.92	0.80	
December ..							3.05	1.76	1.41	5.80	
TOTALS ..							27.89	28.94	28.86	27.66?	

1906 Dec 2 15-VI. 08

Ent 2 19-XI. 08

1907 Woodchurch Church 1 1/4 mile W
 Birkenhead Station 3 NE
 Engine House 4 ft high 50 ft N

2 E

2 NW

RAINFALL at Winnal Water Works, PrestonCounty of Cheshire Observer P. H. Battle EsqRiver Basin Lower Mersey & C. 3 a J. H. LinsleySmarden Rain Gauge, by _____

Diameter ...	5											
Height	1.0											
Altitude ...	915											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	TOTALS
January ...	2.70	0.46	4.10	2.71	0.89	3.25	1.01	1.74	1.64	2.63		16.79
February ...	2.27	2.17	0.87	0.66	1.14	1.94	3.11	1.53	1.66	1.26		7.02
March	0.20	1.18	3.37	2.51	2.59	1.06	2.02	2.64	1.00	5.78		7.56
April	2.64	1.42	0.21	2.59	0.55	1.42	1.53	1.55	1.31	1.56		11.44
May	2.14	0.64	1.73	2.84	1.58	1.53	3.01	3.67	2.66	1.01		5.95
June	2.73	2.38	2.99	2.24	2.34	1.02	1.32	2.48	2.51	1.90		10.35
July	3.66	0.61	2.98	1.29	4.16	2.79	1.58	1.07	4.07	1.86		8.21
August	3.71	2.82	6.54	1.79	1.37	5.81	3.00	6.40	2.11	3.98		8.53
September ...	0.44	3.78	1.39	2.25	2.40	0.64	3.19	0.82	6.41	2.46		15.46
October ...	2.88	2.59	2.87	2.43	1.56	2.08	3.25	5.71	3.20	2.17		12.88
November ...	4.89	1.95	2.16	2.53	3.60	2.48	2.09	2.62	1.78	1.10		14.33
December ...	2.93	3.42	2.07	2.17	4.32	4.58	1.53	1.50	6.17	4.82		7.59
TOTALS ...	31.19	23.42	31.28	26.01	26.50	28.60	26.94	31.73	34.52	30.50		14.32
		2	2	2	2	2	2	2	2	2		123.69

1916 Building 60 ft high 18 yards N

H.N. Edge visited this station 3. x 14 and writes "I found a small tree 4 or 5 ft. high to S.S.W. of the g. and only 1 ft. from it. At my suggestion they removed the shrub."

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	53.20.	3.	Lupton	3/4 m	N	St Stephens		

2787
20

Preston Waterworks (1926)

RAINFALL at Mirral Water Works Preston

County of CheshireObserver A. J. Robinson EsqRiver Basin Lower Mersey & C. B.West Cheshire Water BoardSnarston Rain Gauge, by _____

Diameter ...	5"								5		
Height	10								10		
Altitude ...	91								91		
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS.
January ...	2.98	2.87	3.71	1.29	1.73	1.34	2.12	2.41	4.34	1.71	4.69
February ...	2.63	0.12	2.21	3.12	0.41	4.39	2.22	1.03	2.79	0.86	.81
March	3.80	1.44	1.65	1.01	0.66	0.69	0.86	2.51	1.14	0.16	3.62
April	3.34	1.02	1.69	1.79	1.42	1.51	0.37	0.76	1.15	1.12	3.94
May	2.82	1.73	1.44	3.24	5.20	2.24	3.01	1.38	1.29	1.47	1.73
June	3.89	0.19	1.76	2.27	1.87	0.00	0.92	3.92	3.22	1.68	2.19
July	6.53	0.79	3.64	2.91	4.15	2.35	3.36	2.93	1.92	4.05	7.62
August	1.77	4.69	2.79	3.16	4.93	3.24	2.29	6.24	2.20	3.72	4.85
September...	3.31	1.09	2.48	3.65	3.43	3.97	3.50	5.15	1.25	1.86	2.96
October	2.06	2.94	0.38	3.73	3.73	3.15	2.61	2.51	3.41	4.97	4.37
November...	0.47	1.95	1.54	3.14	1.88	2.69	3.38	3.67	3.45	5.20	4.41
December...	2.04	2.89	3.43	4.14	3.22	2.06	0.57	1.32	2.04	4.36	4.01
TOTALS...	35.64	21.72	26.72	31.45	32.63	27.63	25.21	33.83	28.23	31.16	45.20

1920 Building 60ft high 15 yds N

339.42

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	53° 2'	3°	Stretton, Upton	3 1/4 mi	S	St. Stephens, Preston	1/2 mi	E

RAINFALL at Prenton WaterworksCounty of CheshireObserver A. J. Robinson, Esq.River Basin Mersey Lower 9C-3West Cheshire Water Board (1939)Type of Gauge OnwoodAnnual Average 22.1 in. based on 12 years obs. un-weighted. Period of average 1891-1915 Ref S

665522/26.

Diameter	5.											
Height	1.6.							1.3				
Altitude	91.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	Totals
January	3.20	3.02	1.51	1.89	1.46	5.25	2.10	3.60	5.40	2.25		29.68
February	2.66	0.10	3.48	0.26	2.77	2.58	5.19	0.53	2.66	2.41		22.70
March	0.26	1.17	2.39	2.06	0.93	1.59	1.38	1.07	1.82	2.73		15.90
April	2.23	2.57	0.85	1.95	2.10	1.10	3.25	0.23	2.21	2.32		17.11
May	2.67	5.00	2.09	1.94	2.25	1.05	3.06	2.57	1.66	2.41		24.70
June	5.67	0.34	2.17	1.73	4.16	4.21	1.84	3.13	2.44	0.84		26.53
July	2.42	3.21	2.67	0.90	2.29	3.28	1.86	3.43	6.05	1.69		27.99
August	8.06	1.70	2.16	3.65	2.44	1.65	1.42	4.22	1.67	0.37		27.34
September	3.82	2.80	0.85	2.96	4.98	3.26	2.23	2.23	0.80	2.54		26.47
October	1.78	5.79	3.77	4.47	5.14	1.82	2.37	4.67	2.85	3.78		36.44
November	3.99	2.48	1.68	2.45	3.68	3.15	1.68	3.86	4.74	6.35		34.06
December	1.91	1.83	0.91	4.80	4.19	3.83	3.42	3.64	2.79	2.42		27.74
TOTALS	38.67	30.31	24.53	29.06	36.39	32.97	30.30	33.18	35.09	30.17		320.57
	D.	D.	D.	D.	D.	D.	D.	D.	D.	D.		98.8

Wall 7' high by 20' w. Shed 8' high 5' N. Shed 8' high 5' S. Building 60' high 30' E.
 1936 Wall 6' high 25' W. Building 60' high 90' E.
 1940 { Wall 54' 6" W (approx.)
 Hedge 17' 9" S (approx.)

1940 Gas post cut

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	Parish Church	Distance from gauge	Direction
1931			Stretton	1/2 m	Sw.	Woodchurch	1 m	W.
1940								

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

Station No. 2787RAINFALL at Penton Waterworks

41

County of CheshireObserver West Cheshire Water Board.River Basin Mersey Lower & C. - 3Type of Gauge R. # SnowdenAnnual Average 28.1 in. based on 10 years obs. ~~un~~-weighted. Period of average 1881-1915 Ref. SFile No. 665522/26

Diameter	5"			550	204							
Height	1' 3"				1							
Altitude	91'				41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	
January	3.13	3.69	3.97	3.95	2.37	3.39	2.31	6.30	3.04	0.81		Total 32.96
February	2.77	1.34	2.07	1.23	2.47	4.09	1.25	1.65	1.25	4.49		22.61
March	3.11	2.34	0.69	1.01	0.90	0.99	4.26	0.73	2.40	1.16		17.69
April	1.65	1.36	1.25	1.46	1.50	1.00	2.74	1.23	2.45	3.05		17.69
May	2.09	3.24	2.47	1.73	3.31	2.32	3.62	1.06	2.88	0.89		23.61
June	0.62	0.27	2.42	1.42	1.88	3.83	2.00	3.75	0.79	1.49		18.27
July	1.57	3.49	2.64	2.54	3.55	4.25	4.55	3.41	2.07	1.80		29.87
August	3.63	2.89	2.86	2.86	2.60	4.35	0.31	2.98	2.06	5.84		30.38
September	0.70	1.86	3.77	5.16	1.87	3.52	2.57	1.76	0.95	4.84		26.70
October	2.93	3.08	3.75	3.96	4.55	0.91	1.13	2.16	3.46	2.15		28.08
November	2.25	0.76	2.64	5.61	0.24	4.31	3.69	2.01	4.25	4.81		30.57
December	1.00	3.18	1.46	2.85	2.27	3.00	2.15	3.03	4.38	3.66		26.98
TOTALS	25.25 D	27.50 D	29.99 D	33.78 m.p	27.51 D	35.96 D	30.68 D	30.07 D	29.98 D	34.69 D		305.41 244

1941 Pump house buildings

1942 Wall 7' high 54'6" WSW Hedge 17'3" SSE.

1944 n.p. late

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			Upton	2710 y.	N 36° W.	St. Stephens	1417 y.	E

BRITISH RAINFALL ORGANIZATION

Station No. 2787

RAINFALL at Penton (Waterworks)

51

County of EssexObserver West Essex Water BoardRiver Basin Thames - Lower L. 3Type of Gauge B.G.Annual Average 28.1 in, based on 10 years obs. un-weighted. Period of average 1881-1915 Ref. 5
" 32.25 " 27 " with 1929-57 " 1916-50
File No. 66.55.22726

Diameter ...	5"			550	204						
Height ...	1' 3"				1						
Altitude ...	41'				51						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means Total
January ...	2.26	2.80	1.05	2.63	2.12	3.74	1.02	2.93	3.60	5.25	27.40
February ...	2.54	1.03	1.22	2.64	2.20	0.33	2.19	4.49	0.26	1.83	18.73
March ...	5.18	1.32	1.01	2.12	2.04	1.16	1.88	1.31	0.98	1.52	18.52
April ...	1.24	2.05	2.16	0.72	1.58	2.25	0.42	0.61	3.20	1.01	15.24
May ...	3.15	2.16	2.38	2.94	3.08	0.85	1.60	2.53	1.99	2.24	22.92
June ...	1.18	2.10	1.97	3.91	3.21	2.17	1.51	4.47	2.51	0.96	23.99
July ...	1.42	2.17	2.85	3.66	0.49	4.55	4.40	3.69	3.36	2.97	29.56
August ...	4.73	1.13	3.22	5.14	1.24	10.42	3.57	2.71	1.18	4.21	38.55
September ...	2.81	3.06	3.28	2.47	2.25	2.68	7.08	5.01	0.24	3.93	32.89
October ...	1.04	3.82	1.31	5.21	2.11	2.96	2.64	2.62	3.09	3.80	28.60
November ...	6.34	2.45	2.94	5.58	1.34	1.50	1.24	1.95	4.71	6.21	34.26
December ...	4.18	3.38	1.38	3.58	2.91	2.58	2.51	3.57	4.61	3.37	32.07
TOTALS ...	36.15 D	27.47 D	24.77 D	40.60 D	24.51 D	35.19 D	30.06 D	36.89 D	29.73 D	37.30 D	322.73

1951 appears a little dry but has always been so.

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference 33/295664

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge.	Direction from gauge.
1951 1952 1953			Upton Moulton as 1951	1/2 mi. 1/2 mi.	N.W. N.E.	Penton Ashdon	3/4 mi. 1/2 mi.	E S

Summary of Earlier Records from 10-year Sheets :

1916-1950, P - Rejected

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	✓	✓	✓	
	D 11-15, 16, 17	11-12, 26	11-12, 40	✓	