

RAINFALL AT Warrington Horley

Lat. _____

Lon. _____

County of Lancashire

Rain Gauge, by _____

Observer J Longdon EsqMersey - lower 2

Diameter	10											
Height	0 10											
Altitude	19 K											
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January	2.81	1.66	3.55	1.27	1.85	3.12	1.26	1.48	1.74	3.61	2.235	
February	0.64	0.14	2.15	3.04	3.75	0.24	1.58	2.82	1.88	1.10	1.734	
March	2.18	1.40	1.14	0.36	2.14	2.56	3.44	2.46	0.64	1.85	1.817	
April	1.44	2.01	1.36	0.46	1.43	1.88	1.44	2.22	1.71	2.70	1.665	
May	1.85	2.34	3.58	1.55	2.88	0.52	0.31	2.29	3.82	2.35	2.1149	
June	3.01	2.43	3.61	2.12	2.13	1.24	2.55	3.15	2.24	2.03	2.451	
July	2.04	2.92	3.09	2.69	2.46	3.50	1.71	1.16	0.50	2.00	2.207	
August	3.51	5.28	3.79	1.99	3.78	2.87	3.00	3.66	4.50	1.26	3.364	
September....	1.27	3.09	3.94	3.00	.98	2.29	4.80	4.72	0.76	4.35	2.920	
October	1.83	3.93	5.18	2.86	3.15	3.83	4.18	2.23	3.90	3.70	3.479	
November	5.54	2.94	2.23	1.57	1.90	2.61	1.26	3.87	2.13	1.26	2.531	
December	0.67	4.94	1.84	3.49	2.78	2.71	4.16	3.33	2.53	2.87	2.922	
TOTALS	26.79	33.08	35.46	24.40	29.23	27.37	29.69	33.39	26.35	29.08	29.484	

1890 St Elphinst 733 yards NE

RAINFALL AT Warrington Howley
 Lat. Lon. County of Lancashire South
 Rain Gauge, by Observer T. Longdin Esq.

Murray Lower 2

Diameter ..	10										
Height	0 10										
Altitude ..	19 K										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..											
February ..	4.77	2.25	2.43	2.47		1.45	4.15	1.29	1.90	1.58	
March	3.78	1.46	1.46	1.92		1.56	2.73	1.47	2.85	0.91	
April	0.97	2.22	1.54	3.45		2.88	2.47	2.31	2.33	2.20	
May	1.61	1.94	2.26	1.67		2.29	1.31	1.17	3.09	2.69	
June	1.73	1.07	3.86	3.58		0.65	2.43	2.94	2.85	1.45	
July	2.97	1.91	1.70	1.94		2.64	2.13	4.72	1.96	2.54	
August	2.31	2.02	2.05	3.46		1.80	1.41	2.48	3.73	3.83	
September..	5.99	2.78	3.17	3.43		3.39	2.46	3.56	2.71	3.77	
October	0.92	0.88	1.25	4.58		2.01	2.20	0.79	3.33	2.53	
November..	3.93	3.75	3.50	5.82		3.24	4.41	3.05	1.87	4.33	
December..	2.29	3.33	1.53	3.38		3.09	1.97	2.64	2.95	1.26	
	3.58	3.56	2.68	1.66		0.45	3.92	2.47	2.30	6.53	
TOTALS ..	34.85	27.17	27.43	37.36	26.50	25.45	31.59	28.89	31.87	33.62	30.47

1900 St. Stephen's Church 733 yards NE

1907 Arpley Station (L & N.W.) 550 yards SW.

RAINFALL at

Warrington Workley Yard

County of South Lancashire

Observer

J Longdin Esq

a.m. Kealey

River Basin

Lower Mersey 2

Rain Gauge, by

Diameter ...	10										
Height	0.10										
Altitude ...	19 ft						6				
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	3.20	1.13	4.13	3.60	1.62	3.92	1.92	2.03	1.92	3.22	
February ...	2.01	2.32	0.74	1.31	1.45	2.69	3.83	1.19	3.15	0.76	
March	0.68	0.95	4.41	2.83	2.93	1.56	1.64	1.96	1.15	5.98	
April	2.60	1.98	0.37	3.67	1.34	1.39	2.31	1.50	1.39	1.58	
May	1.94	0.59	2.03	2.21	1.50	1.43	2.09	3.13	3.21	1.40	
June	3.39	2.26	3.27	1.96	1.88	1.22	3.06	2.73	1.48	1.56	
July	4.83	0.45	3.48	0.84	3.84	3.66	2.59	1.20	5.47	0.96	
August	4.37	2.69	6.33	2.02	2.69	3.68	2.10	6.24	2.28	3.60	
September ...	0.23	4.33	1.40	1.30	2.29	0.32	3.00	1.44	7.29	2.20	
October ...	3.16	2.87	2.85	2.59	1.59	1.61	4.23	6.09	2.69	2.14	
November ..	5.02	2.47	2.29	2.46	3.05	2.26	2.58	3.70	1.82	2.42	
December ...	2.78	5.19	2.77	2.20	4.93	4.77	2.61	1.74	6.38	6.32	
TOTALS ...	34.21	27.23	34.07	26.99	29.11	28.51	31.86	32.95	38.23	32.14	
	2	2	2	2	2	2	2	2	2	2	

912 ft in open well 10.6" high 111.6" x 6.5

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	53.20 N	2.36 W	Asphy	800 yds 550 yds 533 yds	NE SW W 12 S	St. Stephen's	550 yds 500 yds 793 yds	SW NE NE 40 N

RAINFALL at Warrington Hawley YardCounty of LancashireObserver A. M. Her. Esq.River Basin Lower Mersey 2Borough Eng. & Surveyor. (Warrington)(1925) Glaisher Rain Gauge, by

Diameter ...	10											10"
Height	0	9										5' 1"
Altitude ...	26								2595			26'
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930.	MEAN.
January ...	3.41	2.95	2.61	2.02	2.46	1.85	3.16	3.03	6.27	2.14		4.08
February ...	2.14	2.0	2.22	4.68	0.80	4.64	2.42	1.28	3.11	0.97		.19
March	2.68	1.54	1.60	1.43	0.81	0.92	1.11	2.62	1.71	0.73		2.80
April	3.85	.94	1.85	2.75	1.76	1.15	2.63	3.21	0.66	0.79		2.19
May	4.06	1.75	.92	2.82	5.26	2.99	4.18	1.12	1.18	1.57		1.16
June	2.68	.27	1.46	0.66	2.09	0.05	1.52	4.10	4.58	1.29		1.75
July	5.15	.71	2.97	2.22	4.06	2.58	3.41	2.36	1.73	2.29		5.27
August	1.33	3.35	2.20	3.63	6.37	2.73	3.25	4.50	3.62	2.97		3.93
September...	1.99	.73	2.36	3.31	3.32	3.76	2.93	5.29	1.13	1.53		2.92
October	1.30	1.79	0.17	3.56	3.50	3.82	4.45	2.35	3.46	5.34		4.89
November...	.60	1.53	1.35	3.81	1.19	2.42	4.78	3.09	4.39	5.63		3.77
December...	1.73	2.94	3.40	4.24	2.78	2.08	0.84	1.38	1.86	5.15		3.81
TOTALS...	30.92	18.70		35.10	34.40	28.69	32.68	33.33	33.72	30.70		36.46
	D	D	D	D	D	D	D	D	D	D		D.

1920 : From June 1st, measure used was intended for 10 in. gauge - consequently all readings subsequent to this must be increased in the ratio $\frac{100}{78.54}$. see file 404-035/53. 4/1/51

Position of Station on reduced Ordnance Survey Map, 2 miles to 1 inch Series } No. of Map

Reference No.

Date.	Lat. N.	Long. W.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
1920	53° 25' 12"	2° 35' 6"	Aspley	510 yds	W by S	Parish Ch.	820 yds	N.E.

RAINFALL at Warrington (Howley Yard)

County of South Lancashire

Observer

A. M. Ker, Esq.
St. George's, Warrington
(94, Howley, Warrington) (1924)River Basin Mersey - Lower-2Type of Gauge GlaisherAnnual Average in based on years obs. un-weighted Period of average Ref.

Diameter	10.						8	10		8	
Height	5.1.										
Altitude	26.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Month-Totals
January	3.78	3.08	1.87	2.24	1.84	4.12	2.69	3.43	5.28	2.06	29.89
February	2.84	0.00	2.82	0.24	2.61	1.74	5.15	0.93	3.16	2.68	22.22
March	0.13	1.83	2.04	1.73	0.96	1.42	1.26	0.83	1.74	2.91	14.85
April	2.21	2.55	0.87	1.85	2.07	1.08	2.50	0.32	1.75	1.97	17.17
May	2.24	4.77	1.49	2.00	1.13	0.47	2.00	3.41	1.14	1.21	19.86
June	4.94	0.47	2.68	1.31	4.36	2.85	1.32	2.63	2.57	1.06	24.19
July	2.41	2.65	2.22	1.91	0.98	2.80	1.67	3.59	6.62	4.06	28.91
August	7.44	1.51	1.66	2.85	1.38	1.38	5.03	3.62	2.08	1.31	28.25
September	2.58	2.77	0.82	2.15	5.49	4.00	.94	1.83	0.54	3.44	24.66
October	1.60	6.49	4.49	4.70	4.24	2.68	2.08	5.24	2.39	3.52	37.43
November	4.75	2.53	0.94	1.64	4.68	2.98	2.00	4.07	5.27	6.67	35.56
December	1.27	1.08	0.37	4.73	3.66	3.04	1.37	3.47	2.64	2.96	24.56
TOTALS	36.29	29.70	21.76	27.43	33.40	28.56	28.01	33.37	35.18	33.85	307.55

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			Warrington	510 yds	N.S.W.	St. Stephen's	520 yds	N.E.

Station No. M. 2519RAINFALL at Lansington (Hawley Road)

41

County of South Lancashire Observer The Borough SurveyorRiver Basin Messy - Lower - 2Type of Gauge Glaisher

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

File No. 252486/32

Diameter	8"				565	297						
Height	5'1"					1						
Altitude	26'					41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	
January	2.56	3.55	4.85	4.25	2.13	3.88	2.45	7.48	2.51	1.03	34.69	
February	3.42	1.72	2.08	1.45	2.91	5.71	.68	1.81	1.66	4.54	25.98	
March	2.52	2.80	.61	0.74	1.88	.89	4.95	1.00	2.34	1.31	19.04	
April	1.10	1.52	1.19	2.50	1.20	1.09	2.40	1.32	2.67	2.73	17.72	
May	2.06	3.66	2.63	2.04	4.54	1.59	1.98	1.48	4.47	1.16	25.61	
June	.82	0.33	2.59	1.94	8.09	2.96	2.11	3.65	0.63	2.77	20.59	
July	2.41	4.02	1.90	2.86	2.16	3.44	1.91	1.70	1.59	3.15	25.54	
August	4.74	3.30	3.88	3.07	3.09	4.26	.30	4.20	1.74	4.00	32.58	
September	.82	1.93	3.91	5.31	1.55	4.57	2.81	1.58	0.71	4.26	27.45	
October	4.16	4.25	2.95	4.10	4.91	.67	.78	2.18	3.40	2.69	30.09	
November	2.75	0.53	2.32	5.87	.42	4.60	2.92	1.90	4.79	4.26	30.36	
December	.90	4.09	1.69	2.66	3.09	3.05	3.33	3.15	4.39	3.11	29.46	
TOTALS	28.36	31.70	30.60	36.73	30.97	36.71	26.62	31.45	30.90	35.01	319.11	

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.

BRITISH RAINFALL ORGANIZATION

Station No. 2819 m.

RAINFALL at Warrington (Howby Yard) (Highways Yard) 51

County of Lancashire

Observer

The Borough Surveyor

River Basin Mersey - Lower - 2

Type of Gauge Glaisher

The Borough Surveyor

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

" " 35.75 " " 5 " " 1955-59.

File No. 252456/33

Diameter ...	8"		565	897							
Height ...	5' 1"	4' 4 1/2"		1							
Altitude ...	26'	43'		51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	2.77	3.37	1.24	2.76	2.50	4.52	2.00	2.50	2.56	4.23	28.45
February ...	1.85	.92	1.27	3.21	2.58	.47	1.90	5.04	.24	1.48	18.96
March ...	4.25	1.81	1.57	2.01	1.45	.98	2.53	1.42	1.42	1.27	18.81
April ...	2.11	2.69	2.86	.69	1.73	2.77	.42	.63	2.93	1.73	18.56
May ...	3.15	2.22	1.62	2.46	2.96	.94	1.21	3.71	2.10	2.18	22.55
June ...	.69	1.92	1.65	3.51	3.56	2.23	1.88	4.52	2.49	1.99	24.44
July ...	2.82	1.66	5.96	4.25	.68	5.57	3.69	4.93	3.04	3.29	35.89
August ...	3.86	1.44	3.29	4.20	.82	10.01	5.19	2.32	.39	4.51	36.03
September ...	2.67	3.09	2.93	3.21	2.71	3.17	5.60	3.27	.17	2.70	29.52
October ...	.98	3.78	1.59	5.14	1.98	2.23	3.18	2.85	2.71	3.74	28.13
November ...	7.70	2.44	3.07	4.84	1.57	1.29	1.37	1.39	4.54	4.61	32.82
December ...	5.13	2.80	1.10	3.95	4.32	2.84	2.93	3.65	5.10	(3.79)	35.61
TOTALS ...	38.08	28.14	28.15	40.23	26.86	37.02	31.85	36.23	27.69	35.52	329.77
	D	D	D	D	D	D	D	D	D	D	

* 1954. Reply to query from G. moved 830 yds. (May 1951 according to map by P.C.). nearest object 42' 16 1/2, NE.

00014

Position of Station on Ordnance One-Inch map : No. of Map National Grid Reference 51/83 603551

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

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	20, 21, 23-30	✓	✓	
	✓	A20, 21, imp. 22	✓	✓	