

# RAINFALL AT

Liverpool St John's Gardens

Lat.

Lon.

County of

Lancashire

Sir ~~Robert~~ Rain Gauge, by

Observer

H. P. Boulton Esq. C.E.

Mersey Lower 2

J. A. Brodie Esq. C.E.

Diameter ....						5						
Height .....						0 9						
Altitude ....						47 ft						
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January ....						3.08	1.04	1.18	1.52	3.19		
February ....						.26	1.25	2.21	1.63	1.34		
March .....						2.52	3.01	1.94	.62	1.40		
April .....						1.85	1.05	2.16	1.58	2.14		
May .....						.51	.51	1.20	3.65	2.48		
June .....						1.08	2.76	3.07	2.14	2.41		
July .....						4.20	1.95	.64	.44	2.21		
August .....						1.90	2.54	3.46	3.56	1.22		
September...						1.28	4.04	4.46	1.09	3.26		
October .....						5.17	3.22	1.50	3.75	3.12		
November...						2.63	1.30	3.54	1.32	1.36		
December ....						2.50	3.21	2.87	1.79	2.98		
TOTALS ....						26.98	25.88	28.23	23.09	27.11		

Church Tower 130 ft high 200 ft SE

# RAINFALL AT

Liverpool St John's Gardens

Lat. \_\_\_\_\_

Lon. \_\_\_\_\_

County of

Lancashire

Record by

Rain Gauge, by

Observer

H. P. Boulton Esq C.E.

Mersey - Lower 2

J. A. Brind Esq C.E.

Diameter ....						9						
Height .....						2 3						
Altitude ....						48 ft						
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January ....						2.43	1.02	1.10	1.52	3.05		
February ....						.26	1.25	2.06	1.63	1.28		
March .....						2.40	3.01	1.93	.62	1.46		
April .....						1.80	1.04	2.14	1.58	2.10		
May .....						.49	.51	1.19	3.61	2.48		
June .....						1.08	2.76	2.97	2.14	2.40		
July .....						4.16	1.95	.64	.44	2.23		
August .....						1.87	2.54	3.46	3.48	1.22		
September...						1.29	4.04	4.41	1.09	3.28		
October .....						4.98	3.22	1.50	3.61	3.08		
November...						2.63	1.30	3.90	1.32	1.35		
December ...						2.49	3.21	2.87	1.75	2.98		
TOTALS ....						25.88	25.85	28.17	22.79	26.91		

Church Tower 130 ft high 200 ft SE

# RAINFALL AT

*Liverpool St. Johns Gardens*  
 Lat. .... Lon. .... County of *Lancashire*  
 Rain Gauge, by ..... Observer *J. A. B. & Co. Ltd.*

*Messy - lower 2*

Diameter ..	9										
Height ....	2 3			<i>0.9</i>							
Altitude ..	48 <del>7</del>										
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..											
February ..	4.02	2.08		2.30							
March ....	3.40	1.33		1.84							
April .....	1.12	1.73		3.13							
May .....	1.19	1.76		1.69							
June .....	1.48	1.03		2.09							
July .....	2.40	1.84		1.71							
August ....	1.00	1.74		2.46							
September ..	7.40	3.00		3.55							
October ....	.60	.82		4.88							
November ..	4.14	3.49		7.68							
December ..	3.19	3.20		3.03							
TOTALS ..	2.81	3.41		1.46							
	32.75	25.44	<i>Not Recd</i>	36.79							

1902 Record not received

1903 St. Stephens Church 342 yards N.W.  
 Limekiln Station L + N.W. Ry.  
 Building 62 ft high 80 ft S.W.



Monument Place

RAINFALL AT Liverpool St John's Gardens

Lat. 53. 24. 32 N Lon. 2. 53. 18 W County of Lancashire

Recorder Casella Rain Gauge, by Casella Observer J. A. Bradie Esq. Ch.

Messy - 2

Diameter ..	5						10				
Height ....	0 9					1 3	4 6				
Altitude ..	47 $\pi$					126 $\pi$	129 $\pi$				
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..											
February ..	4.04		2.29	2.30	2.27	1.18	4.75	98	1.94		
March ....	3.35		1.74	1.81	3.88	1.24	1.94	1.51	2.24		
April .....	1.12		1.77	3.13	1.63	3.49	2.02	1.65	3.02		
May .....	1.21		2.14	1.69	1.08	2.17	1.09	1.14	3.25		
June .....	1.49		3.88	3.09	2.13	.54	2.88	2.99	2.98		
July .....	2.39		1.96	1.71	1.28	2.17	1.41	5.05	2.09		
August ....	.98		2.40	2.46	1.11	1.89	.87	2.24	3.43		
September ..	7.41		2.48	3.55	4.49	3.72	2.86	3.21	3.17		
October ....	.45		(1.11)	4.88	2.28	1.90	1.81	.63	3.32		
November ..	4.14		3.39	7.68	1.48	2.95	5.38	3.77	2.01		
December ..	3.19		2.10	3.03	2.14	3.64	1.92	2.79	2.39		
	2.81		2.44	1.46	2.64	.35	3.49	2.30	1.73		
TOTALS ..	32.58	25.60	27.70	36.79	26.41	25.24	30.42	28.26	31.57		

1902 St Stephens Church 342 yards N.W.  
 Building 62 ft high 80 ft S.W.  
 Gauge moved 100 yards SE Sept 11<sup>th</sup>

1903 Lime St Station 500 yards E & N W Rly W.S.W

1904 March 30 Gauge moved 677 yards E to Monument Place  
 St Simon & St Vincent Church 233 yards S.W

1905 Statue 20 ft high 50 ft W  
 Building 50 " 180 ft W

Monument Place

Casella recording g. supplemented by 5 in. Snowdon when out of order. (ok)  
 see also previous sheet

# RAINFALL AT Liverpool, Monument Place

Lat. ....

Lon. ....

County of Lancashire South

Snowdon Rain Gauge, by .....

Observer J. A. Brodie Esq. C.E.

Mersey 2

Diameter ..								5			
Height ....								1	3		
Altitude ..								126	T		
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..								98	2.04	1.71	
February .								1.51	2.24	.66	
March ....								1.65	3.02	2.88	
April .....								1.14	3.27	2.29	
May .....								2.99	2.98	1.46	
June .....								5.24	2.09	2.38	
July .....								2.20	3.42	3.78	
August ....								3.21	3.17	3.15	
September..								.63	3.42	2.60	
October....								3.77	2.01	4.18	
November..								2.79	2.39	1.12	
December..								2.30	1.73	5.77	
TOTALS ..								2841	31.79	31.98	

1907 St. Simon's Ch. 233 yards SW.

Lime Street Station (L. & N.W.) 500 yards WSW.

1908 Statute 20 ft high 50 ft W

Buildings 50 . . . 150 . . . W

See also next sheet. These two gauges do not seem to have always been kept separate.

RAINFALL at Liverpool Monument PlaceCounty of South LancashireObserver J. A. Brodie Esq. C.E.River Basin Lower Mersey 2H. Owens Esq. C.E.Recording Rain Gauge, by Casella

Diameter ...	10										
Height .....	4.6										
Altitude ...	129 $\pi$										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	2.36	.71		3.02	1.04	3.20	1.45	1.62	1.51	2.59	
February ...	2.62	1.89		.66	1.25	2.18	3.07	1.24	2.22	1.29	
March .....	.66	.97		2.36	2.52	1.24	1.71	3.09	.99	5.64	
April .....	3.35	2.08		3.00	.58	1.44	1.63	1.94	1.14	1.21	
May .....	2.31	.72		2.06	1.98	1.25	2.80	3.28	2.78	.81	
June .....	3.90	2.55		1.93	1.50	.85	2.30	1.74	1.66	1.31	
July .....	4.47	.47		2.49	4.44	2.99	1.29	1.63	3.43	1.45	
August .....	4.06	3.00		1.46	1.91	5.59	2.78	6.73	1.95	4.15	
September ..	.39	4.61		1.92	3.14	.60	2.51	1.22	6.67	2.18	
October ...	2.87	2.58		2.43	1.88	1.99	3.95	6.22	2.15	2.71	
November ..	4.70	2.53		3.12	2.96	2.06	2.29	2.50	1.84	1.61	
December ...	3.26	3.68		2.05	4.69	6.06	1.98	1.28	6.35	5.10	
TOTALS ...	35.05	25.79	=	26.50	27.87	29.45	27.76	32.49	32.69	30.05	
	2	0			2	2	2	2	2	2	

obs 10 am.

+ Imported

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	53.24.32	2.58.18	Liverpool St. N.W.					



RAINFALL at Liverpool Monument RaceCounty of South LancashireObserver J. A. Brodie Esq. C.E.River Basin Lower Mersey 2H. Owens Esq. C.E.

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

Diameter ...	5											
Height .....	1 3											
Altitude ...	126 $\pi$											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	
January ...	2.36	.73	3.80	3.24	1.04	3.35	1.49	1.67	1.55	2.67		
February ...	2.62	1.89	1.06	.66	1.25	2.18	3.07	1.24	2.27	1.38		
March .....	.66	.97	4.30	2.48	2.60	1.30	1.77	3.13	1.06	5.90		
April .....	3.25	2.12	.18	3.00	.59	1.44	1.63	1.94	1.20	1.28		
May .....	2.34	.72	2.09	2.17	2.00	1.25	2.80	3.28	2.87	.88		
June .....	3.90	2.59	3.28	2.03	1.48	.85	2.44	1.77	1.79	1.36		
July .....	4.53	.47	3.51	2.49	4.44	3.05	1.31	1.63	3.53	1.47		
August .....	4.14	3.00	5.79	1.46	1.89	5.76	2.84	6.88	2.12	4.33		
September ..	.39	4.61	1.11	1.92	3.06	.60	2.59	1.24	6.95	2.32		
October ...	2.92	2.58	2.92	2.49	1.88	1.99	4.01	6.34	2.37	2.73		
November ..	4.73	2.53	2.47	3.12	2.99	2.10	2.29	2.68	1.96	1.67		
December ...	3.39	3.72	2.01	2.05	4.82	6.06	1.98	1.33	6.65	5.43		
TOTALS ...	35.33	25.93	32.52	27.11	28.04	29.93	28.22	33.13	34.32	31.42		

1912 Statue 20ft high 50 ft W  
 Building 50. 150. W

+ Inspected

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	53 24 32 $\pi$	2 58 18 $\pi$	Lune R.	500 yds	WSW	St Simon St Vincent	233 yds	SW

RAINFALL at Liverpool Monument PlaceCounty of LancashireObserver J. H. Bradish Esq. C.E.River Basin Lower Mersey 2J. F. Sparks C.E.  
City Eng. LiverpoolRecording Rain Gauge, by Cosella

Diameter ...	10						9				
Height .....	4.6						4.6				
Altitude ...	129						125		124.6		
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.
January ...	3.20	3.46	3.41	2.04	2.31	1.41	2.56	3.50	5.47		
February ...	2.49	1.19	2.66	3.31	1.64	4.41	2.63	1.50	2.61		
March .....	3.95	1.66	1.73	1.31	1.03	.92	.75	2.66	1.13		
April .....	3.81	1.08	1.98	2.63	2.23	1.86	.69	1.46	.81		
May .....	3.21	2.19	1.29	3.14	5.71	2.32	3.52	1.24	1.49		
June .....	2.63	.18	2.21	.46	1.82	.05	1.22	4.33	5.04		
July .....	5.44	1.20	4.25	2.89	2.16	2.34	3.74	3.38	1.87		
August .....	2.03	4.83	3.00	3.25	5.12	3.31	3.31	5.77	3.55		
September...	2.95	1.34	2.83	3.32	4.34	3.89	4.03	6.08	1.14		
October .....	1.35	3.02	.59	3.63	3.69	3.94	3.12	2.76	3.71		
November...	.78	2.01	1.87	3.41	1.59	2.65	4.84	4.85	4.35		
December...	2.33	3.51	3.85	4.05	3.22	2.83	.95	1.47	2.32		
TOTALS...	34.17	24.67	29.67	33.44	33.86	29.93	31.41	38.97	33.49		
	D	D	D	D	D	D	D	D	D		

1923. n.p. Recorder  
 1924 n.p. Recorder  
 1925. not printed recording gauge  
 Statue 20 ft. high, 20 ft. W.  
 Building 50 - .. 180 - W.

1926. n.p. recorder.

1927. do. do.

1928. do. do.

062<sup>a</sup> told not required Ent<sup>a</sup> 815/11/28.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° 24' 32"	2° 58' 18"	Liverpool St.	500 yds	W. & S.W.	St. Simon	233 yds	S.W.



RAINFALL at Liverpool Monument PlaceCounty of S. LancashireObserver J. A. Brodier Esq C.E.River Basin Lower Mersey 2J.P. & Sons C.E.  
City Eng Liverpool

(1925) N.A.O. Rain Gauge, by \_\_\_\_\_

Diameter ...	5"										
Height .....	1.3										
Altitude ...	126										126'
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEANS.
January ...	3.37	3.55	3.59	2.04	2.31	1.50	2.56	3.50	5.47	1.95	4.95
February ...	2.58	1.9	2.82	3.34	1.65	4.54	2.70	1.56	2.58	1.92	2.1
March .....	3.97	1.73	1.75	1.32	1.10	.92	1.85	2.64	1.13	.53	2.97
April .....	3.89	1.11	2.00	2.63	2.23	1.86	.71	1.46	.81	1.03	2.98
May .....	3.30	2.21	1.38	3.26	6.02	2.32	3.71	1.21	1.49	1.76	1.01
June .....	2.71	.18	2.34	.46	1.86	.05	1.29	4.33	5.04	1.22	1.89
July .....	5.63	1.38	4.26	2.96	2.16	2.62	3.77	3.34	1.86	2.70	5.76
August .....	2.09	5.01	3.33	3.88	5.33	3.28	3.34	5.76	3.48	3.11	5.94
September...	3.24	1.34	3.04	3.74	4.38	4.04	4.17	6.05	1.14	2.24	2.88
October .....	1.36	3.07	.58	3.76	3.71	3.95	3.21	2.77	3.71	4.42	4.43
November...	.78	2.07	1.63	3.42	1.66	2.78	4.87	4.76	4.39	5.26	4.74
December...	2.13	3.67	3.94	4.10	3.29	2.35	.99	1.47	2.32	5.02	4.38
TOTALS...	35.02	25.51	30.66	34.91	34.70	30.91	32.17	38.81	33.42	50.16	42.14
				<del>34.89</del>	n.p.	<del>30.91</del>	<del>32.17</del>	<del>38.81</del>	<del>33.42</del>	<del>50.16</del>	<del>42.14</del>

1920 Statue 20ft high 50ft W

Buildings 50 " " 180 " W

1925 Not printed Cons.

1926 " " "

1927 " " "

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 from gauge	Parish Church.	Distance from gauge	Direction from gauge
1920	53°24'32"	2°58'18"	Lime St.	500 yds	WSW.	St. Simons	233 yds	SW.

## RAINFALL at Liverpool (Monument Pl.)

County of South LancashireObserver Liverpool Corpn.River Basin Mersey - Lower - 2Type of Gauge N.O. (+A)Annual Average in. based on years obs. un-weighted Period of average Ref.

81511/28.

Diameter	5.										
Height	1.3.										
Altitude	124.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means Totals
January	3.08	2.75	1.45	1.42	1.65	4.26	1.86	3.00	4.91	2.50	27.38
February	2.68	1.05	3.33	2.20	2.71	2.61	4.95	.66	2.64	2.34	22.17
March	2.27	2.18	1.92	1.56	1.94	1.61	1.32	.94	1.68	2.65	15.07
April	2.70	3.03	.97	1.82	2.58	1.13	2.15	.22	2.03	2.12	19.75
May	2.67	4.45	1.83	1.91	1.96	.97	2.52	2.77	1.39	1.93	22.40
June	4.57	.45	2.04	1.22	3.09	3.50	1.28	2.58	2.65	1.01	22.39
July	2.31	4.90	1.81	.81	3.25	3.18	1.76	3.12	5.91	3.59	30.64
August	6.72	1.34	1.94	3.84	2.23	1.59	2.47	5.64	1.50	.81	28.08
September	3.70	2.70	.79	2.38	5.83	3.15	2.28	2.31	.91	2.96	28.01
October	1.94	6.78	3.78	5.91	4.19	2.10	2.67	4.69	2.47	4.47	39.00
November	3.99	2.69	1.70	1.91	3.85	3.35	1.80	3.54	4.75	5.76	33.42
December	1.51	1.50	.62	4.84	3.50	3.42	2.61	3.75	2.78	2.43	26.96
TOTALS	36.14 D	38.82 2	22.18 3	28.40 2	35.78 2	30.87 2	28.67 2	33.22 2	33.62 2	32.57 2	315.27 12

Saltire 20' high 50' w.  
Building 50' " 180' w.

1940 from post card.

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			Lime Street, L.M.S.R.	500 yds	W.S.W.	St. Simon's.	233 yds	S.W.

Station No. 2815RAINFALL at Liverpool (Monument - P.P.)

41

County of South LancashireObserver Liverpool CorporationRiver Basin Mersey - Lower - 2Type of Gauge M.O. (+A)(P. 15. 11. 12. 8)

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

File No. 21511/28

Diameter	5"			567	541						
Height	1'3"				1						
Altitude	124'				41			124'75"			
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means Totals
January	(2.55)	3.56	4.11	4.03	1.97	3.91	2.51	6.83	2.54	1.15	33.16
February	3.80	1.44	1.74	1.08	2.78	4.47	1.03	1.82	1.15	4.63	23.94
March	3.20	2.46	.75	.90	.91	.92	4.82	.86	2.46	1.19	18.47
April	1.83	1.51	1.35	2.07	1.69	.92	2.63	1.70	2.56	2.74	19.00
May	1.98	3.00	2.29	1.81	3.51	2.00	4.04	1.39	3.14	.91	24.07
June	.51	.18	2.20	2.55	2.69	3.52	2.35	3.78	.68	2.36	20.82
July	2.43	3.00	4.63	2.36	2.21	4.07	3.06	2.86	1.84	2.21	28.97
August	4.84	4.07	3.21	3.32	2.23	5.07	.41	2.86	1.94	6.61	34.59
September	.44	2.30	3.63	5.37	1.95	3.78	2.82	1.46	1.12	5.05	28.52
October	4.07	3.41	4.22	4.10	4.58	.82	1.19	2.27	3.65	2.42	30.67
November	2.64	.86	2.49	6.02	.28	5.16	3.35	1.59	4.56	5.40	32.38
December	1.05	3.17	1.65	2.66	2.46	3.25	2.54	3.00	4.55	3.54	27.87
TOTALS	29.94	28.96	32.27	36.27	27.26	37.89	30.75	30.66	30.22	38.21	322.46

1941 Statue 20' high 50' W. Buildings 50' high 180' W.

60004

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			Line St. L.M.S.	500 y.	W.S.W.	St. Simons	233 y.	S.W.

BRITISH RAINFALL ORGANIZATION



Station No. 2815

51

RAINFALL at Liverpool (Monument Pl.)County of LancashireObserver Liverpool Corp.River Basin Murray Lower 2(City Engineer & Surveyor)Type of Gauge 11.7 (1.7) (#405)Annual Average 32.3 in. based on 24 years obs. un-weighted. Period of average 1861-1915 Ref. S.W.S.  
" 32.97 " 27 " with 1930-51 " " 1916-50 File No. 8.15.11/28

Diameter ...	5"											
Height ...	1' 3"					1' 2"						
Altitude ...	124'				51	127'						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	Totals
January ...	2.13	3.38	1.24	2.99	2.51	3.99	1.40	2.64	3.26	5.21	28.75	
February ...	2.47	.95	1.23	3.20	2.28	.43	2.06	5.04	.20	1.58	19.44	
March ...	4.82	2.08	1.06	2.16	1.99	1.45	2.08	1.43	1.34	1.72	20.03	
April ...	1.25	1.77	2.31	.72	1.76	2.97	.44	.62	3.06	1.32	16.22	
May ...	3.16	2.13	1.91	2.67	2.87	.93	1.60	2.82	1.80	2.29	22.18	
June ...	1.03	2.16	1.44	3.44	3.16	1.94	1.43	4.92	2.87	0.88	23.27	
July ...	1.73	1.44	3.69	3.70	.77	4.33	3.77	4.01	3.22	3.34	30.00	
August ...	4.02	2.64	3.62	4.96	1.67	8.70	3.86	3.27	2.66	4.03	39.43	
September ...	2.48	3.76	3.42	3.68	2.46	2.22	5.75	4.86	.25	4.02	32.90	
October ...	.91	4.22	1.62	5.75	2.48	2.21	3.12	2.92	3.29	3.83	30.35	
November ...	4.66	2.95	3.11	6.16	1.45	1.36	1.17	1.82	5.08	6.42	37.18	
December ...	4.55	3.58	1.46	3.92	3.94	2.42	3.07	4.40	4.98	3.04	35.36	
TOTALS ...	36.21	31.06	26.11	43.35	27.24	32.95	29.75	38.75	32.01	37.68	335.11	
	0	D	D	D	D	D	D	D	D	D	D	D

1951 Station 20' at 50' W Buildings 50' at 180' W

1956 Station 24' at 45' W. Buildings 33' S at 90' N, 52' at 85' S, 15' at 90' E.

S/E of station 24' surveyed &amp; particulars altered January 1957. Gauge NOT moved.

Imp. II 1952 1.60K. 8 in poor condition. Some flange allows rain to enter from sides.  
Surrounded by concrete. Over shelter very slightly by building to SSW. Young trees planted  
NNE, SW-S and ENE will soon overhelter. No hope of improvement. Conclude records  
with this at 6 in wooden box with top 2' x 2' flush with rim.

1954 n.p. gauge lacking.

1950 n.p. big

Position of Station on Ordnance One-Inch map : No. of Map 101 National Grid Reference 33/354907

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.
1951			Lime Street	500' N.W.	St. Simon	233' N.W.

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	✓ n.p. 24-27	✓	✓	✓
	D11, 12	D25-30	✓	✓ bit-43	