

RAINFALL AT Liverpool Grassendale Garstang

Lat.

Lon.

County of Lancashire

Rain Gauge, by

Observer

J. Abraham Esq.

Diameter.....											5
Height.....											1
Altitude.....											50
Year	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....											1.61
February.....											2.55
March.....											1.19
April											2.14
May.....											2.41
June											5.01
July.....											3.77
August											6.06
September.....											2.90
October.....											1.62
November....											1.38
December											1.77
TOTALS											32.41

1879 House 30' - high 24' W.

Hedge 16' - " 19' N.

Wall 8' 4" - 28' E.

Wall 7' - " 10' S.

Grassendale church $\frac{1}{2}$ mile E.S.E.

RAINFALL AT Garslow, Grassendale **80**

Lat.

Lon.

 County of Lancashire

Rain Gauge, by

Observer

I Abraham, Esq
Mrs E C Abraham
Mersey - Lower 2

Diameter	5"											
Height	10											
Altitude	50T	35T										
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January94	1.68	2.14	3.05	2.91	1.38	3.89	2.61	1.55	.53	1.968	
February	1.34	3.39	2.05	1.80	2.12	2.07	1.08	.57	.97	2.65	1.804	
March	1.92	3.23	1.85	1.36	2.57	1.88	2.30	1.41	2.21	2.23	2.096	
April	1.44	1.46	3.75	.97	1.31	1.72	1.49	.95	1.04	3.10	1.723	
May	2.47	2.94	1.17	1.03	1.27	1.53	5.27	2.14	.80	2.46	2.110	
June	3.28	2.57	5.43	2.71	1.96	2.48	1.29	1.52	1.90	.68	2.382	
July	5.72	2.51	4.32	3.51	3.70	1.69	2.74	2.69	6.96	3.27	3.711	
August	1.77	5.27	4.07	2.20	2.06	1.51	1.53	1.77	2.81	4.81	2.780	
September	3.17	1.87	2.93	5.03	2.00	4.20	3.38	4.24	.81	2.73	3.036	
October	4.70	2.81	2.79	5.32	1.27	6.72	4.55	2.55	1.43	2.67	3.481	
November	3.17	2.51	4.79	2.67	2.09	2.80	2.61	1.00	5.15	2.55	2.934	
December	5.03	3.14	4.73	.96	2.65	1.71	4.64	2.39	1.62	2.20	2.907	
TOTALS	341.90	32.38	40.02	30.61	25.91	29.71	34.77	23.84	27.25	29.88	30.932	

1880. Grassendale Church, $\frac{1}{2}$ mile E.S.E.

House 30ft high 24ft W.

Hedge 16ft " 19ft N

Wall 8ft " 28ft E

" 7ft " 10ft S.

Position the best available.

RAINFALL AT Garston Grassendale Park

Lat.

Lon.

County of Lancashire

Rain Gauge, by

Observer

Mr E C Abraham

Mersey - lower 2

Diameter	5										
Height	10										
Altitude	35 T										
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	3.10	1.30	3.46	1.17	1.37	3.87	1.25	1.56	1.48	3.18	2.174
February64	.10	1.92	2.91	2.88	.23	1.26	2.24	1.91	1.18	1.527
March	2.18	1.05	1.31	.51	1.53	2.92	3.29	2.11	.53	1.39	1.682
April	1.36	1.90	1.58	.65	1.32	2.04	1.01	2.26	1.72	2.58	1.642
May	1.92	2.26	2.92	1.20	2.26	.52	.52	1.37	3.70	2.56	1.923
June	2.22	5.20	5.22	1.83	2.20	1.59	2.47	3.42	2.66	2.54	2.935
July	2.40	4.93	2.42	2.93	3.07	4.74	2.21	.96	.51	2.29	2.646
August	3.74	5.21	4.31	2.80	4.50	2.31	3.13	4.51	4.74	1.31	3.656
September	1.37	3.44	3.25	3.66	.93	1.37	4.13	4.83	1.20	3.13	2.731
October	2.28	3.12	7.70	2.17	2.72	4.79	3.14	1.94	3.72	3.87	3.545
November	6.07	3.50	2.14	1.34	2.08	2.76	1.40	4.21	1.54	.91	2.595
December85	3.99	2.15	3.25	2.47	2.43	4.10	2.76	1.67	2.84	2.651
TOTALS	28.13	36.00	38.38	24.42	27.33	29.57	27.91	32.17	25.38	27.78	29.707

1890 Grassendale Church 1/2 mile E.S.E. 880-

House 30 ft high 24 ft W

Hedge 16 " " 19 " N

Wall 8 " " 28 " E

" 7 " " 10 " S

RAINFALL AT Garston Grassendale Park

Lat.

Lon.

County of Lancashire South

Rain Gauge, by

Observer Miss E.C. Abraham

Mersey lower 2

Diameter ..	5										
Height ..	1.0										
Altitude ..	351										
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	4.05	1.77	2.12	2.39	1.92	1.04	4.88	.94	1.59	1.39	2.209
February ..	3.71	1.88	1.77	1.52	3.98	1.18	2.10	1.44	1.91	.65	2.014
March ..	1.30	1.39	1.66	3.74	1.55	2.91	2.16	1.79	2.62	2.92	2.204
April ..	1.14	1.87	2.27	1.79	1.03	1.83	1.17	1.22	3.28	2.51	1.811
May ..	1.67	1.04	4.53	3.08	2.23	.57	2.47	2.88	2.63	1.44	2.254
June ..	2.25	2.19	2.21	2.04	1.48	3.37	1.80	5.05	2.11	3.86	2.636
July ..	1.88	2.22	2.31	3.38	1.51	2.44	.85	2.28	3.08	3.25	2.320
August ..	6.41	3.66	2.92	3.66	4.96	3.51	2.66	2.68	3.03	3.41	3.690
September ..	.66	1.18	1.13	4.74	2.37	1.60	1.81	.64	3.21	2.85	2.019
October ..	3.81	2.90	3.73	7.38	1.70	1.87	3.66	3.21	2.03	3.62	3.391
November ..	3.08	2.99	2.20	3.36	1.68	3.44	1.81	2.81	1.85	1.17	2.439
December ..	2.98	3.24	2.53	1.34	3.05	.36	2.93	1.93	1.86	6.70	2.692
TOTALS ..	32.94	26.33	29.38	38.42	27.46	24.12	28.30	26.87	29.20	33.77	29.679

at Station

1900 Grassendale church 1/2 mile E.S.E

House 39 ft high 24 ft W

Hedge 16 . . 19 . N

Wall 8 . . 28 . E

. 7 . . 10 . S

Hub

RAINFALL at Garston Fassendale Park

County of South Lancashire Observer Miss E. C. Abraham

River Basin Lower Mersey 2

Rain Gauge, by

Diameter ...	5										
Height	1.0										
Altitude ...	35T										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	2.95	.61	4.21	2.81	1.42	3.33	1.18	2.11	1.67	3.00	
February ...	2.57	1.92	1.04	.84	1.53	2.42	3.37	1.66	2.27	1.56	
March66	1.16	4.53	2.81	2.83	1.54	2.12	3.11	1.07	6.13	
April	3.31	1.89	.17	3.54	.82	1.66	1.65	1.69	1.57	1.51	
May	2.49	.60	2.08	3.00	2.13	1.77	2.94	3.60	3.14	.89	
June.....	3.16	3.23	3.35	1.85	2.20	1.47	2.02	2.54	1.98	1.82	
July	4.40	.86	3.04	2.24	5.06	3.57	1.27	1.66	4.87	1.61	
August.....	3.69	2.99	5.77	2.23	2.04	4.32	2.72	6.17	1.95	4.10	
September ..	.50	4.43	1.06	1.63	2.59	.50	2.80	1.09	6.72	2.18	
October ...	2.39	3.08	2.86	2.65	1.78	2.15	3.87	6.00	2.09	3.48	
November ..	5.04	2.28	2.54	2.78	3.36	2.43	2.58	3.13	1.97	1.85	
December ...	3.52	3.67	2.22	2.47	4.56	5.06	2.26	1.75	6.33	5.42	
TOTALS ...	34.63	26.72	32.87	28.85	30.32	30.22	28.78	34.51	35.63	33.55	316.08

1912 House 30 ft high 24 ft N
 Hedge 16 . . 17 . N
 Wall 7.8 . . 10.28 . S + E

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	53°20'N	2°52'W	Cresington	1/2 m	ESE	Fassendale	1/2 m	ESE

RAINFALL at Garston (Grassendale) Park

County of S. Lancashire)

Observer Miss E.C. Abraham

River Basin Lower Mersey 2

Howard Rain Gauge, by
1930 Snowdon

Diameter ...	5-										
Height	1 0										
Altitude ...	35-										
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.
January ...	3.77	3.62	3.82	1.53	2.53	1.68	2.62	3.69	4.82	2.09	4.36
February ...	2.88	1.18	2.76	3.91	.83	4.99	3.09	1.82	2.40	1.11	.25
March	3.78	1.59	1.98	1.37	.93	.77	1.04	2.82	1.83	.52	3.24
April.....	4.71	1.56	2.40	2.52	2.02	2.02	.79	2.30	1.12	1.14	2.76
May	3.75	2.32	1.14	3.54	5.84	3.48	3.41	1.39	1.35	1.69	1.25
June	2.41	.28	2.22	.58	2.54	.08	1.49	4.72	5.42	1.61	1.08
July	5.64	1.50	4.18	2.70	4.97	2.70	3.61	3.30	2.44	3.33	6.87
August	1.96	4.54	3.46	3.72	5.22	4.36	3.18	5.04	3.69	3.67	4.54
September...	2.91	1.08	2.89	3.39	4.11	4.59	3.99	6.68	1.40	1.86	3.47
October.....	1.11	2.71	4.40	4.68	4.08	4.42	4.41	2.75	3.69	5.34	5.55
November...	.61	2.21	1.54	3.26	2.06	2.78	4.66	4.63	4.71	5.73	4.18
December...	2.48	3.24	4.35	4.46	3.12	2.36	1.11	1.69	2.56	5.02	4.03
TOTALS...	36.01	25.03	31.14	35.66	38.27	34.23	33.40	40.83	35.73	33.14	40.08
	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪

1920. House 30 ft. high 24 ft. W
Hedge 16 " 19 " N
Wall 8' 4" 28 " E
" 7 " 10 " S

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° 20'	2° 52'	Gressington & Grassendale	1/2 mi	ESE	Gressendale	1/2 mi	ESE

RAINFALL at Garston (Grassendale Park)

County of South Lancashire

Observer Miss E.C. Abraham, M.A. 8/8/34

River Basin Mersey - Lower - 2.

A. G. Isaacson Esq.

Type of Gauge Snowdon.

Annual Average 30.1 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. B.G.N.
50440/30.

Diameter	5.											
Height	1.0.											
Altitude	30 ft.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	3.29	2.80	1.36	2.31	1.59	4.79	2.03	3.48	4.79	2.92		
February	2.54	1.12	3.17	3.34	2.34	2.23	5.12	1.65	2.49	2.16		
March	1.23	2.09	2.13	1.70	1.09	1.66	1.42	1.03	1.86	2.37		
April	2.95	3.58	1.02	1.99	2.50	1.26	3.67	1.27	2.02	1.90		
May	2.56	5.19	1.71	1.93	1.56	1.78	2.78	2.75	1.48	1.94		
June	5.01	3.32	1.64	1.54	3.76	4.11	1.29	2.52	2.85	.84		
July	2.64	4.34	1.54	.62	1.57	3.09	2.24	3.24	5.48	2.27		
August	6.15	1.42	1.83	2.91	2.02	1.84	1.60	5.25	1.48	.68		
September	2.95	2.64	.74	2.39	5.48	3.05	1.77	1.74	.88	2.92		
October	1.64	6.11	3.62	4.74	4.29	1.97	2.47	4.08	2.36	3.79		
November	4.19	3.43	1.58	2.06	3.85	3.19	2.03	3.78	4.64	5.76		
December	1.79	1.64	.64	4.12	4.20	3.72	3.61	3.52	2.52	2.32		
TOTALS	35.94	33.60	20.98	25.95	34.25	31.69	30.03	32.31	32.85	29.87		
	D.	a	ND	D.								

House 30' high 24' ?

Hedge 10' " 20' W.

wall 12' " 30' N.

outbuildings 12' " 14' E.

1939 House 25' high 33' S.W.

Wall 9' " 21' N.E.

Wall 9' " 44' N.W.

Wall 9' " 25' S.E.

Garage transferred, after death of Miss. Abraham,
to next door (Fer Lea).

1934 Garage moved 80 ft. S.E. on 1/8/34

House 20' high 32' w.

Wall 9' " 44' N.W.

Wall 9' " 21' 6" N.E.

Plants 4' " 6' S.E.

1931 Wall 9' high 25' S.E.

Position of Station on reduced Ordnance Survey Map, } No. of Map.....

1 mile to 1 inch Series

Reference No.....

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1931			Grassendale	1/2 m	N.E.	Grassendale	1/2 m.	N.E.
1938			Cressington	1/2 m	N.E.			

Station No.

28/11

RAINFALL at Garston (Grassendale Park)

41

County of... South Lancashire Observer A. G. Isaacson Esq.

River Basin Mersey - Lower - 2

Type of Gauge ... Standard

Annual Average 30.1 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. B of N

File No. 50440/30

Diameter	5"		587	410							
Height	10'			1							
Altitude	30'			41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.65	4.03	3.64	3.52	2.23	3.57	1.91	6.16			
February	3.44	1.45	1.30	1.23	2.51	4.31	.96	1.65			
March	3.24	2.23	.75	1.07	.82	.90	4.49	.67			
April	1.41	1.07	.91	1.33	1.43	.70	2.15	1.31			
May	1.58	3.37	2.32	2.06	2.89	1.64	3.67	1.03			
June	.44	.26	2.19	1.79	2.64	3.64	2.13	3.40			
July	2.32	2.82	3.63	1.98	2.31	3.81	3.25	2.77			
August	4.02	2.33	3.12	3.62	2.13	4.05	.34	2.74			
September	.73	1.69	3.87	5.35	1.44	3.21	2.52	1.40			
October	3.45	2.75	3.81	3.91	3.78	.67	1.05	2.04			
November	2.34	.60	2.25	5.38	.25	4.31	3.14	1.74			
December	1.01	3.11	1.39	2.60	2.40	3.28	2.32	2.77			
TOTALS	27.03	25.71	29.18	33.84	24.83	34.09	27.93	27.62	#		

1941 House 25' high 23' S.W. Wall q' high 21' N.E. Wall q' high 44' N.W. Wall q' high 25' y.
1949 Terminated at observer's request. See enc. 14A fl. 50440/30 S.E.

1910 - 19	1920 - 30	1931 - 40	1941 - 50
✓	✓	✓	41-48
✓ but - 11	✓	✓ but d 32	✓

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

Reference No. SJ 390847

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1941			Grassington	1/2 m.	N.E.	Grassendale	5/8 m.	N.E.