

RAINFALL AT *Garsdon, Grassendale* 80

Lat. _____

Lon. _____

 County of *Lancashire*

Rain Gauge, by _____

 Observer *J. Abraham, Esq.*
Wm E C Abraham
Mersey, lower 2

Diameter	<i>5</i>										
Height	<i>1.0</i>										
Altitude	<i>50 T 35 T</i>										
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January	<i>.94</i>	<i>.68</i>	<i>2.14</i>	<i>3.05</i>	<i>2.91</i>	<i>1.38</i>	<i>3.89</i>	<i>2.61</i>	<i>1.55</i>	<i>.53</i>	<i>1.968</i>
February	<i>1.34</i>	<i>3.39</i>	<i>2.05</i>	<i>1.80</i>	<i>2.12</i>	<i>2.07</i>	<i>1.08</i>	<i>.57</i>	<i>.97</i>	<i>2.65</i>	<i>1.804</i>
March	<i>1.92</i>	<i>3.23</i>	<i>1.85</i>	<i>1.36</i>	<i>2.57</i>	<i>1.88</i>	<i>2.30</i>	<i>1.41</i>	<i>2.21</i>	<i>2.23</i>	<i>2.096</i>
April	<i>1.44</i>	<i>1.46</i>	<i>3.75</i>	<i>.97</i>	<i>1.31</i>	<i>1.72</i>	<i>1.49</i>	<i>.95</i>	<i>1.04</i>	<i>3.10</i>	<i>1.723</i>
May	<i>2.47</i>	<i>2.94</i>	<i>1.17</i>	<i>1.03</i>	<i>1.27</i>	<i>1.55</i>	<i>5.27</i>	<i>2.14</i>	<i>.80</i>	<i>2.46</i>	<i>2.110</i>
June	<i>3.28</i>	<i>2.57</i>	<i>5.43</i>	<i>2.71</i>	<i>1.96</i>	<i>2.48</i>	<i>1.29</i>	<i>1.52</i>	<i>1.90</i>	<i>.68</i>	<i>2.382</i>
July	<i>5.72</i>	<i>2.51</i>	<i>4.32</i>	<i>3.51</i>	<i>3.70</i>	<i>1.69</i>	<i>2.74</i>	<i>2.69</i>	<i>6.96</i>	<i>3.27</i>	<i>3.711</i>
August	<i>1.77</i>	<i>5.27</i>	<i>4.07</i>	<i>2.20</i>	<i>2.06</i>	<i>1.51</i>	<i>1.53</i>	<i>1.77</i>	<i>2.81</i>	<i>4.81</i>	<i>2.780</i>
September	<i>3.17</i>	<i>1.87</i>	<i>2.93</i>	<i>5.03</i>	<i>2.00</i>	<i>4.20</i>	<i>3.38</i>	<i>4.24</i>	<i>.81</i>	<i>2.73</i>	<i>3.036</i>
October	<i>4.70</i>	<i>2.81</i>	<i>2.79</i>	<i>5.32</i>	<i>1.27</i>	<i>6.72</i>	<i>4.55</i>	<i>2.55</i>	<i>1.43</i>	<i>2.67</i>	<i>3.481</i>
November	<i>3.17</i>	<i>2.51</i>	<i>4.79</i>	<i>2.67</i>	<i>2.09</i>	<i>2.80</i>	<i>2.61</i>	<i>1.00</i>	<i>5.15</i>	<i>2.55</i>	<i>2.934</i>
December	<i>5.03</i>	<i>3.14</i>	<i>4.73</i>	<i>.96</i>	<i>2.65</i>	<i>1.71</i>	<i>4.64</i>	<i>2.39</i>	<i>1.62</i>	<i>2.20</i>	<i>2.907</i>
TOTALS	<i>34.95</i>	<i>32.38</i>	<i>40.02</i>	<i>30.61</i>	<i>25.91</i>	<i>29.71</i>	<i>34.77</i>	<i>23.84</i>	<i>27.25</i>	<i>29.88</i>	<i>30.932</i>

1880. Grassendale Church, ½ mile E.S.E.

Stowse 35ft high 24ft W.

Stedje 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 Miss E.C. Abraham

Mersey - Lower 2

Diameter	5											
Height	10											
Altitude	357											
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	
February ....	.64	.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	1.6112	
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	3.515	
November....	6.07	3.50	2.14	1.30	2.08	2.76	1.40	4.21	1.54	.91	2.595	
December ....	.85	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	27.707	

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

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	1.02	1.82	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

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 Grassendale ParkCounty of South Lancashire Observer Mrs. E. C. AbrahamRiver Basin Lower Mersey 2

Rain Gauge, by _____

Diameter ...	5										
Height	1.0										
Altitude ...	357										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	2.90	.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	
March .....	.66	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	33.63	33.55	31.68 ✓

1912 Home 30 ft high 24 ft N
 Hedge 16 . . 19 . 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	Grassendale	1/2 m	ESE

RAINFALL at Garsington Grassendale ParkCounty of S. LancashireObserver Miss E. C. AbrahamRiver Basin Lower Mersey 2Howard Rain Gauge, by
1930 Snodden

Diameter ...	5"										
Height	1 0										
Altitude ...	35										
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS
January ...	3.77	3.62	3.82	1.53	2.55	1.68	2.62	3.69	4.82	2.09	4.36
February ...	2.98	1.18	2.76	2.91	.83	4.99	2.09	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	.03	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	3.20	2.44	3.33	5.27
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	2.59	3.39	4.11	4.59	3.99	6.68	1.40	1.86	3.47
October	1.11	2.71	.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	3.44	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
	D	D	D	D	D	D	D	D	D	D	D

1920. House 30ft high 24ft W
Hedge 16" " 19" N
Wall 8" " 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
1920	53° 20'	2° 52'	Garsington Grassendale	1921 1/2 mi	ESE	Grassendale	1921 1/2 mi ESE

RAINFALL at Garston (Grassendale Park)

County of South LancashireObserver Miss E. C. Abraham, via 8/9/34River Basin Mersey Lower - 2A. G. Isaacson Esq.Type of Gauge StandardAnnual Average 30.1 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref 211

50440/30.

Diameter	5.										
Height	1.0.										
Altitude	30 35.										
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	.12	3.17	.34	2.34	2.23	5.12	.65	2.49	2.16	
March	.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	.27	2.02	1.90	
May	2.56	5.19	1.71	.93	1.56	.78	2.78	2.75	1.48	1.94	
June	5.01	.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	4.42	4.20	3.72	3.61	3.52	2.52	2.32	
TOTALS	35.94 D	33.60 a	20.98 X D	25.95 D	34.25 D	31.69 D	30.03 D	32.31 D	32.85 D	29.87 D	

House 30' high 24' ? 1914 Gauge transferred, after death of Miss. Abraham,
 Hedge 10' " 20' W. to next door (Fen 15-).
 Wall 12' " 30' N. 1934 Gauge moved 80 ft. S.E. on 13/8/34
 outbuilding 12' " 14' E. House 20' high 82' W. 1937 wall 9' high 25' S.E.
 Wall 9' " 44' N.W.
 " 9' " 21' N.E.
 Plants 4' " 6' S.E.

1939 House 25' high 33' S.W.
 Wall 9' " 21' N.E.
 Wall 9' " 44' N.W.
 Wall 9' " 25' S.E.

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			Grassendale	1/2 m	N.E.	Grassendale	1/2 m	N.E.
1938			Grassington	1/2 m	N.E.			

Station No. 281RAINFALL at Guston (Grassendale Dist.)

41

County of North Lancashire Observer J. G. Isaacson Esq.River Basin Mossy - Lower - 2Type of Gauge StandardAnnual Average 30.1 in. based on 25 years obs. un-weighted. Period of average 1881-1915 Ref. B. & NFile No. 50440/30

Diameter	5"										
Height	1'0"										
Altitude	30'										
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	3.27	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	4.42	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	2.11	1.39	2.60	2.40	3.28	2.32	2.77			
TOTALS	27.03 D	25.71 D	29.18 D	33.84 D	24.83 D	34.09 D	27.93 D	27.62 D	#		

1941 House 25' high 23' S.W. Wall 9' high 21' N.E. Wall 9' high 44' N.W. Wall 9' high 25' S.E.
 1949 Terminated at observer's request. See also 14A R. 50440/30

1910-19	1920-30	1931-40	1941-50
✓	✓	✓	41-48
✓ but -11	✓	✓ but d32	✓

Position of Station on reduced Ordnance Survey Map,
1 mile to 1 inch Series

No. of Map.....

Reference No. 5J390847

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1941			Gressington	1/2 m.	N.E.	Grassendale	3/8 m.	N.E.

BRITISH RAINFALL ORGANIZATION