

RAINFALL AT *Burton on Trent* *Shobnall* *Mallings*

Lat.

Lon.

County of *Stafford**1 mile W N. direction of*

Rain Gauge, by

Observer *R. N. Abbott Esq.**Trans. 2-14*

Diameter...						5					
Height						6 6.			5 9	6.	
Altitude						150		160		156	
Year	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January						2.72	1.99	3.83	2.06	1.72	
February. ...						.93	2.55	2.78	.87	2.67	
March .....						.55	2.85	1.99	.80	.64	
April .....						.73	2.61	2.92	1.35	2.33	
May						2.05	.60	1.83	5.58	1.84	
June						2.87	2.33	1.67	2.68	3.78	
July						4.93	1.78	3.46	.62	2.43	
August						2.51	1.72	4.05	4.38	5.02	
September ..						3.60	3.23	1.95	1.80	2.64	
October						5.86	1.96	1.66	2.51	.99	
November ..						3.83	3.26	2.71	2.28	1.04	
December ..						.54	3.79	1.89	2.18	.73	
TOTALS ..						31.12	28.67	30.74	27.11	25.83	

1879 *Malthouses* 50 ft high 180 ft distant S.S.W.
Cottages 30 ft high 90 ft .. E.S.E

S. Pauls church $\frac{1}{4}$ mile N.E.

MEASUREMENTS
 RETAINED FOR REVIEW

101052

NO:

ALT:

It is

metres Date of revision: 8/185

2360

80

RAINFALL AT *Shobnall, Burton on Trent*

Lat. _____

Lon. _____

 County of *Stafford*

Rain Gauge, by _____

 Observer *A. M. Abbott, Esq.*
Trans. L-4.

Diameter	<i>5"</i>										
Height	<i>6.0</i>										
Altitude	<i>150 T</i>										
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January	<i>.68</i>	<i>.41</i>	<i>2.38</i>	<i>3.05</i>	<i>2.16</i>	<i>1.40</i>	<i>2.63</i>	<i>2.15</i>	<i>.83</i>	<i>.76</i>	<i>1.645</i>
February	<i>1.73</i>	<i>3.95</i>	<i>1.43</i>	<i>2.29</i>	<i>1.35</i>	<i>2.25</i>	<i>.45</i>	<i>.53</i>	<i>.46</i>	<i>1.84</i>	<i>1.628</i>
March	<i>.71</i>	<i>2.27</i>	<i>1.89</i>	<i>1.09</i>	<i>1.34</i>	<i>.73</i>	<i>2.93</i>	<i>1.05</i>	<i>2.26</i>	<i>3.31</i>	<i>1.758</i>
April	<i>1.65</i>	<i>.63</i>	<i>3.26</i>	<i>1.93</i>	<i>1.44</i>	<i>2.29</i>	<i>2.07</i>	<i>1.22</i>	<i>1.55</i>	<i>2.88</i>	<i>1.897</i>
May	<i>1.73</i>	<i>1.29</i>	<i>2.51</i>	<i>1.05</i>	<i>1.22</i>	<i>1.97</i>	<i>5.38</i>	<i>1.40</i>	<i>.47</i>	<i>3.78</i>	<i>2.080</i>
June	<i>2.72</i>	<i>2.01</i>	<i>4.77</i>	<i>3.31</i>	<i>1.63</i>	<i>3.09</i>	<i>1.56</i>	<i>1.36</i>	<i>1.69</i>	<i>.69</i>	<i>2.283</i>
July	<i>5.60</i>	<i>.89</i>	<i>3.13</i>	<i>2.19</i>	<i>2.72</i>	<i>.25</i>	<i>3.37</i>	<i>1.44</i>	<i>5.37</i>	<i>2.26</i>	<i>2.722</i>
August	<i>1.34</i>	<i>4.34</i>	<i>1.55</i>	<i>1.35</i>	<i>1.50</i>	<i>1.48</i>	<i>1.64</i>	<i>1.74</i>	<i>2.52</i>	<i>3.00</i>	<i>2.046</i>
September....	<i>3.20</i>	<i>1.47</i>	<i>2.04</i>	<i>4.29</i>	<i>2.81</i>	<i>3.34</i>	<i>1.73</i>	<i>1.84</i>	<i>1.16</i>	<i>2.34</i>	<i>2.422</i>
October	<i>4.31</i>	<i>2.88</i>	<i>5.20</i>	<i>2.08</i>	<i>1.23</i>	<i>4.32</i>	<i>3.56</i>	<i>1.94</i>	<i>.47</i>	<i>2.56</i>	<i>2.855</i>
November....	<i>1.82</i>	<i>2.25</i>	<i>3.61</i>	<i>3.34</i>	<i>.85</i>	<i>3.05</i>	<i>1.83</i>	<i>1.34</i>	<i>3.29</i>	<i>.77</i>	<i>2.215</i>
December	<i>3.49</i>	<i>2.46</i>	<i>4.73</i>	<i>1.11</i>	<i>2.57</i>	<i>.64</i>	<i>3.21</i>	<i>1.18</i>	<i>1.65</i>	<i>2.09</i>	<i>2.313</i>
TOTALS	<i>28.98</i>	<i>24.85</i>	<i>36.50</i>	<i>27.08</i>	<i>20.87</i>	<i>24.81</i>	<i>30.36</i>	<i>17.19</i>	<i>21.72</i>	<i>26.28</i>	<i>25.864</i>

1880. St. Pauls
440 yards
E.N.E.
Maltings 40ft high 150ft. S.S.W
Cottages 30ft - 90ft ESE.

RAINFALL AT Quinton Shobnall

Lat. _____

Lon. _____

County of Stafford

Rain Gauge, by _____

Observer R. W. Abbott EsqInvent. L-4.Wm. Brown & Co.

Diameter	5										
Height	6 0				5 0						
Altitude	156 T										
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	2.24	1.90	1.36	1.26	1.42	3.08	1.26	1.71	1.28	2.55	1.806
February ....	.56	.06	1.18	2.41	2.25	.17	.71	3.06	1.13	1.39	1.292
March .....	.96	1.39	.81	.23	.81	1.61	2.14	2.27	.81	.87	1.190
April .....	.91	1.68	.94	.44	1.07	1.64	.85	1.71	1.53	2.47	1.324
May	2.10	2.70	1.88	2.28	1.59	.58	.37	1.25	2.85	3.32	1.892
June	1.60	2.94	2.60	.70	2.29	2.45	1.49	2.11	1.44	1.88	1.950
July	2.02	1.94	1.94	2.36	2.38	3.57	1.45	.15	1.09	1.25	1.815
August	2.37	4.16	2.37	1.89	1.95	2.07	1.96	3.77	2.21	1.08	2.283
September....	.83	1.15	2.70	2.26	.62	.22	3.65	2.61	.34	2.58	1.696
October	1.45	4.18	2.38	1.85	2.36	2.47	2.19	.69	2.91	2.94	2.342
November....	3.03	1.74	1.53	1.04	2.00	2.41	1.37	1.72	1.99	1.43	1.826
December ....	.63	3.40	1.91	2.22	1.69	2.23	3.25	2.67	2.18	2.36	2.264
TOTALS	18.70	27.24	21.60	18.94	20.43	22.50	20.79	23.72	19.76	24.12	21.780

1890 St Pauls 440 yards ENE

Maltby 40 ft high 15 ft SSW

Cottages 30 . . 90 . ESE

1890 —

RAINFALL AT Burton Robnall

Lat.

Lon.

County of Stafford

Gibson's Pattern Rain Gauge, by

Observer Meo. B. R. C.

Trend, No. -14.

Diameter ..	5										
Height	4 6				5 6						
Altitude ..	156 ft										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	3.44	1.50	1.01	2.00	1.81	1.00	3.28	.97	.97	1.31	1.729
February ..	3.97	1.16	1.36	.94	3.15	.74	2.30	1.66	1.08	.71	1.707
March ....	.57	1.73	1.22	3.07	1.47	2.48	1.65	1.29	2.50	2.54	1.852
April	1.19	1.55	2.36	1.43	1.52	1.74	.86	1.37	2.71	1.22	1.595
May	1.77	.91	2.50	2.77	2.46	.33	2.34	3.64	2.47	1.57	2.076
June	2.93	2.40	1.34	1.22	.48	1.85	2.50	2.75	2.13	2.19	1.979
July	2.83	2.83	1.28	2.69	2.18	1.17	.63	3.28	2.69	3.11	2.269
August	4.55	1.77	3.88	4.58	3.37	4.04	.86	3.30	3.17	2.06	3.158
September..	1.10	.69	1.61	3.19	1.97	1.19	1.32	.99	2.61	2.54	1.721
October....	2.70	1.76	2.15	4.74	.83	1.58	4.64	4.74	1.16	3.48	2.778
November..	2.17	1.35	1.59	2.37	1.26	2.54	2.54	2.16	1.64	.65	1.827
December..	3.83	4.58	1.66	1.59	1.46	.78	2.70	2.98	1.55	4.41	2.554
TOTALS ..	31.05	22.23	21.96	30.59	21.96	19.44	25.62	29.13	24.68	25.79	25.215

1900 St Paul's Church 1/4 mile N.E.
 Stables 15 ft high 50 ft S.W.
 Midland Station 1/2 mile E.N.E.
 Burton-on-Trent

H. B.

RAINFALL at Burton HadnallCounty of StaffordshireObserver Miss Rose & CoWasthorneRiver Basin Frank. Left Bank Tributaries 4

Rain Gauge, by _____

Diameter ...	5											
Height	5.6											
Altitude ...	156 T											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	
January ...	1.74	.67	3.55	3.97	1.46	2.93	1.13	1.90	1.91	2.97		7.91
February ...	2.06	1.38	1.36	.85	1.25	2.09	3.90	.99	1.65	2.19		8.73
March .....	.48	1.25	2.96	3.73	2.43	1.00	3.75	1.31	1.35	4.38		10.79
April	1.76	1.03	.23	3.13	.64	.86	1.57	1.09	1.27	1.45		5.38
May	1.99	.67	2.52	1.94	1.29	1.65	2.00	2.82	2.65	1.12		8.59
June .....	.95	2.82	5.00	1.14	1.83	.85	1.75	1.95	.67	1.16		5.53
July	3.02	.53	3.22	.93	3.45	7.86	2.10	1.41	2.66	1.74		7.91
August	3.20	1.42	5.89	1.84	1.57	2.09	1.87	4.52	2.20	2.66		11.25
September ..	.39	1.39	.74	2.39	.89	.76	.79	1.61	4.90	1.66		8.96
October ...	2.52	1.47	2.60	3.38	2.04	1.74	2.93	3.80	1.62	2.32		10.67
November ...	4.82	2.13	1.95	2.21	3.04	2.28	2.60	1.49	1.52	1.86		7.47
December ...	4.83	3.88	3.27	1.16	5.08	4.55	2.36	1.43	3.70	4.11		11.60
TOTALS ...	27.76	18.64	33.29	26.67	24.97	28.66	26.75	24.32	26.10	27.62		104.79
	2	2	2	2	2	2	2	2	2	2		4.86

1912 Stalling 15 ft high 16 yds SW

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
			Burton Hadnall	1/2 m	ENE	St Pauls	1/4 m	ENE

RAINFALL at Burton (Shobral)County of Staffs.Observer Messrs. D. & C. LeeRiver Basin It - Linc. R.Howard
and fact:Rain Gauge, by 5

Diameter ...	5								5			
Height	5.6								1			
Altitude ...	156					159			157			
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 Mean.	
January ...	2.82	2.03	3.26	1.16	2.04	1.58	2.53	1.91	4.29	1.29	3.85	Total: 26.76
February ...	2.07	.33	2.35	3.61	.39	2.35	3.14	1.56	2.15	.42	.76	19.13
March	1.50	1.29	1.64	1.21	.78	.88	.82	2.01	1.78	.18	2.82	14.91
April	4.14	1.29	2.14	2.09	1.97	1.67	2.28	1.22	1.37	.60	2.66	21.43
May	2.44	1.19	1.04	2.08	3.74	4.55	3.32	1.42	0.39	1.83	2.31	24.31
June	2.67	.41	.68	.41	1.43	.05	2.07	4.03	2.29	1.06	1.41	16.51
July	2.42	.57	4.13	4.48	2.51	2.35	2.59	3.16	1.22	2.20	5.65	32.28
August	1.01	4.65	5.18	1.95	3.25	3.59	1.92	3.18	3.21	2.25	2.65	32.84
September...	1.70	1.30	1.96	2.20	2.16	3.37	.84	3.29	0.51	.50	3.61	21.44
October	1.83	2.19	.43	2.20	3.55	3.00	2.46	1.73	3.97	2.90	2.32	26.58
November...	0.79	1.66	.74	1.53	1.54	1.57	3.65	2.84	2.86	5.18	2.85	25.21
December...	2.49	1.60	3.78	2.91	2.00	1.81	.64	2.56	1.65	3.99	2.37	25.80
TOTALS (26.88)	18.51	27.33	25.83	25.36	26.77	26.26	28.91	28.69	22.40	33.26	28.72	287.20
	D	D	D	D	D	D	D	D	D	D	D	287.20

1920.

Gauge moved 50 yards. S.E.

1920, Stationing 18 ft. 16 in. S.W.

Mathew 13 ft. 7 in. S.W.

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.	52° 40'	1° 39' 1/2"	Burton - Mable	1 mile	E.N.E.	S. Paul's	1 mile	N.E.

RAINFALL at Burton (Shobnall)County of StaffordshireObserver Messrs. Bass & Co. Ltd.River Basin Trent Left Bank tribsType of Gauge HowardAnnual Average 24.6 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. S.

817637/28

Diameter	5											
Height	10											
Altitude	157											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	Totals
January	1.35	1.73	1.63	2.17	.77	3.74	3.02	2.90	4.84	2.74		24.87
February	2.65	.26	3.25	.29	2.03	1.77	3.50	.59	1.00	3.18		18.52
March	.05	1.70	2.22	1.72	.70	1.25	1.98	.30	1.29	2.08		13.37
April	3.32	2.69	1.00	1.86	2.85	1.90	1.97	.11	1.71	1.99		19.40
May	2.84	6.16	1.57	.82	.46	.34	2.13	1.47	1.43	1.28		18.50
June	3.27	.73	1.70	1.07	2.73	2.88	.83	1.57	.98	.99		16.75
July	3.85	2.31	2.58	1.19	.40	3.92	2.26	3.16	4.55	2.56		26.77
August	5.76	2.59	0.68	2.06	1.29	.87	.64	2.02	2.39	.23		18.53
September	2.01	2.29	1.20	1.95	3.51	2.49	1.87	3.83	.76	.56		20.47
October	.68	3.68	3.59	1.79	2.92	1.46	2.34	2.21	2.94	3.45		25.06
November	2.85	2.30	1.02	2.15	4.49	2.35	1.69	2.51	4.07	6.41		29.84
December	1.03	.81	0.26	4.08	3.70	1.48	2.36	2.82	1.62	2.19		20.45
TOTALS	29.66	27.25	20.90	21.15	25.85	24.45	24.59	23.49	27.55	27.66		252.58
	D	D	D	D	D	D	D	D	D	D		4.4

1931. Small house 55' high 75' S Building 18' high 25' NE.

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.			Burton-on-Trent	1/2 m	E.N.E.	St. Paul's	1/2 m	N.E.

RAINFALL at Burton (Shelwell) Station No. 2360 41County of Staffordshire Observer James Bass & Co. LtdRiver Basin Leant - Left Bank - 4Type of Gauge HowardAnnual Average 24.6 in. based on 35 years obs. un-weighted. Period of average 1881 - 1915 Ref SFile No. 817637/28

Diameter	5"			101	052							
Height	1'0"				1							
Altitude	157'				41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	Totals
January	2.64	2.50	3.75	2.55	1.45	2.20	1.68	4.82	1.20	.74		23.03
February	2.54	1.11	.71	1.81	2.25	3.89	1.53	.94	.75	4.11		19.64
March	2.95	2.14	.77	.24	.90	.89	5.17	.76	1.52	.81		16.15
April	1.43	1.07	.83	2.35	1.37	1.15	1.97	1.50	2.55	2.07		16.29
May	2.43	3.25	2.97	1.51	2.46	1.88	1.86	1.71	2.12	1.25		21.44
June	2.23	.19	2.05	1.96	3.16	2.58	1.48	3.89	.17	.61		17.32
July	3.71	1.92	.98	2.92	2.36	1.12	2.61	1.75	3.30	1.69		22.33
August	4.28	2.81	2.46	2.69	1.67	4.45	.57	4.40	2.02	2.30		27.65
September	.44	1.21	1.91	2.71	2.13	4.19	1.65	2.80	1.38	3.20		21.02
October	3.18	1.98	1.77	2.41	3.30	1.03	.36	1.97	4.07	.81		20.88
November	2.92	1.48	1.69	3.64	.37	4.47	2.17	1.58	2.81	3.32		24.45
December	1.08	2.55	1.04	1.66	2.06	2.31	2.20	3.08	1.74	1.17		18.89
TOTALS	29.83	22.21	20.93	26.45	23.48	30.16	23.25	84.0	27.63	22.08		247.12
	D	D	7	d	5	D	D	2	D	D		144

1941 Mill House 55' high 75' S. Building 18' high 25' N.E.

227.04

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			Burton on Trent	1/2 m.	E.N.E.	St. Pauls	1/4 m.	N.E.

Station No. 2360

RAINFALL at Burton (Gholnall)

51

County of Staffordshire

Observer

Messrs. Bass & Co. Ltd.
Bass, Ratcliff & Bretton, Ltd. (1951)

River Basin Trent - Left Bank - 4

Type of Gauge Howard

Annual Average 24.6 in. based on 35 years obs. un-weighted.
25.53 " " " " " 1916-1950

Period of average 1881-1915 Ref. S

1916-1950
File No. 8/16/37/28 P

Diameter ...	5"			101	052							
Height ...	1' 0"				1							
Altitude ...	157'				51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	
January ...	1.82	2.17	.85	0.93	1.75	3.21	1.22	1.94	2.79	5.70	22.38	
February ...	2.40	.59	1.61	2.26	1.89	.73	2.48	3.34	.24	1.60	17.14	
March ...	3.47	2.26	.98	1.95	2.67	1.20	2.00	1.62	1.61	1.57	19.33	
April ...	1.81	2.21	2.37	.51	1.67	1.11	.13	.56	2.48	0.98	13.23	
May ...	2.68	2.85	1.78	2.47	3.24	.56	.74	1.87	.31	1.63	18.13	
June ...	1.10	2.61	2.43	2.41	3.37	2.65	1.18	3.69	.60	3.27	23.31	
July ...	.89	1.48	2.17	2.01	.62	3.10	3.46	4.41	2.04	2.98	23.16	
August ...	6.34	1.77	2.60	4.48	.75	4.93	3.22	1.44	.53	3.65	29.71	
September ...	1.68	1.01	2.26	1.80	1.30	2.21	5.63	2.66	-.06	4.59	23.20	
October ...	.80	2.68	2.29	2.93	1.61	1.51	1.41	2.67	2.14	5.59	23.63	
November ...	5.34	1.45	1.57	4.21	1.97	.94	2.03	1.83	3.06	3.00	25.40	
December ...	2.01	2.42	1.23	3.05	1.74	2.24	1.33	3.01	3.08	2.28	22.39	
TOTALS ...	30.34 D	23.50 D	22.14 D	29.01 D	21.98 D	24.39 D	24.83 D	29.04 D	18.94 D	36.84 D	261.01	

1951 Malt house 55' high at 76' S., building 18' high at 25' N.E.

1959:- Rain days low.

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference 9K(43)274 231

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.
1951			Burton-on-Trent	1/2 m. E.N.E.	St Pauls	1/4 m. N.E.

Summary of Earlier Records from 10-year Sheets :

1916-1950, P-accepted

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓