

RAINFALL AT Eaton Hall Gardens

Lat. ....

Lon. ....

County of Cheshire

See - H.

Rain Gauge, by .....

Observer Mr N. F. Barnes

Diameter ....							5				
Height .....							3 0				
Altitude ....							64 ft				
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....							3.23	3.71	.88	.50	
February ....							.91	1.07	.72	2.55	
March .....							3.00	1.38	1.66	2.76	
April .....							1.31	.85	1.05	2.65	
May .....							6.25	1.90	.50	2.13	
June .....							2.87	1.47	2.21	.67	
July .....							2.33	2.18	5.81	3.53	
August .....							.83	2.18	3.38	3.06	
September...							3.28	2.63	.78	2.79	
October .....							4.30	2.57	.97	2.68	
November ....							1.91	1.12	3.67	2.10	
December ....							3.71	2.02	1.79	1.79	
TOTALS ....							33.93	23.08	23.42	27.21	

## RAINFALL AT

Eaton Hall Gardens

Lat. ....

Lon. ....

County of

Cheshire

Rain Gauge, by .....

Observer

W. N. Barnes

Dec-14.

Diameter ....	5				5						
Height .....	3 0				3 0						
Altitude ....	64 <del>7</del>				64 <del>7</del>						
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January ....	3.42	1.00	3.03	1.29	1.47	3.56	.99	1.41	.92	3.49	2.058
February ....	.53	.43	1.45	2.48	1.47	.16	.46	1.92	1.56	1.53	1.199
March .....	1.35	.85	1.27	.95	.85	2.11	2.70	2.49	1.06	1.09	1.172
April .....	1.31	1.43	1.32	.78	1.39	1.63	1.11	1.67	1.16	1.96	1.376
May .....	2.16	3.55	2.63	1.47	2.69	.76	.38	1.28	4.27	1.98	2.117
June .....	1.84	5.65	2.73	1.71	2.45	3.27	2.73	2.26	2.13	2.28	2.705
July .....	2.91	2.66	3.19	3.01	2.43	3.73	2.54	.55	.63	2.96	2.461
August .....	3.62	4.70	3.52	2.32	3.04	1.70	2.70	2.80	3.93	.98	2.731
September....	1.66	2.82	2.70	2.29	.62	1.10	3.48	3.14	1.31	2.99	2.211
October .....	2.08	3.33	6.95	1.77	3.01	3.45	3.03	1.45	3.55	3.87	3.249
November....	6.50	1.90	1.60	.74	1.91	3.42	1.54	2.45	1.11	1.38	2.205
December ....	.76	2.91	2.41	3.37	1.70	2.35	2.61	2.35	1.94	2.27	2.267
TOTALS ....	27.64	31.23	32.80	22.18	23.03	27.24	24.27	23.77	23.57	26.78	26.257

RAINFALL AT *Eaton Hall Gardens*

Lat. ....

Lon. ....

County of *Cheshire**Dec-14.*

Rain Gauge, by .....

Observer *Mr N. F. Barnes**for Duke of Westminster**Observations 7 am.*

Diameter ..	5								6		
Height ....	3 0								3. 6		
Altitude ..	64 $\pi$			72	64 $\pi$	72 $\pi$					
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	2.43			2.27	2.29	.56	3.42	1.11	1.73	1.40	
February ..	3.61			1.55	2.86	.92	2.21	1.33	1.68	.64	
March ....	1.22			4.06	1.70	2.79	1.56	1.24	2.70	2.46	
April .....	.88			1.26	.77	1.81	.87	1.31	2.88	1.85	
May .....	1.40			3.07	2.02	1.09	2.61	2.89	3.71	1.21	
June .....	1.83			1.36	1.42	2.16	1.12	3.68	2.42	3.78	
July .....	1.81			3.20	2.03	1.69	1.32	3.03	3.13	3.42	
August ....	5.36			3.26	4.16	3.33	2.51	2.59	3.79	2.88	
September ..	1.09			3.70	1.67	1.57	1.31	.52	4.06	2.69	
October ....	3.62			6.48	1.16	2.20	4.65	4.58	2.15	3.40	
November ..	2.66			2.75	1.12	2.76	1.56	2.55	2.08	.60	
December ..	2.37			1.36	2.25	.42	3.53	1.99	2.58	5.62	
TOTALS ..	28.28	<i>No. Reply</i>		34.32	23.45	21.30	26.67	26.82	32.91	29.98	

D
D
D
D
D
D

1905

Station 4 miles



RAINFALL at Eaton Hall GardenCounty of CheshireObserver Mr N. F. BarnesRiver Basin Dee 4

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

Diameter ...	6									5	
Height .....	3.0										
Altitude ...	72 $\pi$										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	1.77	.33	3.13	1.00	1.36	2.54	.60	1.84	1.58	1.65	
February ...	1.99	1.18	.97	1.17	1.53	2.92	2.54	1.25	.89	1.47	
March .....	.79	.94	3.18	2.95	2.30	1.01	1.52	2.21	.99	5.20	
April .....	2.24	.45	.15	3.56	.79	1.25	.89	1.25	1.12	1.11	
May .....	1.67	.80	1.99	2.47	1.59	2.19	3.15	3.33	3.13	.36	
June .....	2.07	2.29	2.77	2.07	1.46	.92	.89	2.17	.92	1.45	
July .....	3.01	.17	1.70	1.42	4.25	3.92	1.18	1.18	4.26	.44	
August .....	2.99	2.62	4.32	1.77	1.77	4.46	2.12	5.58	2.31	3.15	
September ..	.49	4.24	.47	1.15	2.00	.43	2.14	.96	5.17	1.92	
October ...	2.35	1.89	2.64	2.77	1.30	1.77	3.66	4.22	1.38	3.50	
November ..	5.61	1.90	2.31	1.92	3.00	2.79	2.05	1.82	1.83	1.81	
December ...	3.53	4.22	1.20	1.43	4.90	4.94	1.57	.94	4.29	3.76	
TOTALS ...	28.51	21.03	24.83	23.68	26.25	29.14	22.31	26.75	27.87	25.82	
	$\pi$		$\pi$	$\pi$	$\pi$	$\pi$	$\pi$	$\pi$	$\pi$	$\pi$	

Totals  
16.19  
5.67

6.15

9.92

4.37

9.97

5.43

7.06

13.16

10.19

12.76

7.51

10.56

10.75

9.11

1910 Corrected for wrong day.  
Oct 7 am.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
			<u>Chester</u>	<u>4 M</u>	<u>N</u>			

RAINFALL at Eaton Hall GardensCounty of CheshireObserver Mr R. F. DannerRiver Basin Dee 4Source of Westminster(1925) Howard Rain Gauge, by

Diameter ...	5								6			
Height .....	3	6				5	6		1	0		
Altitude ...	72								72			
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEANS.	
January ...	2.92	3.24	3.93	1.70	1.98	1.91	1.86	2.05	4.04	1.36	4.39	TOTAL 27.28
February ...	2.12	2.2	1.84	3.60	.56	3.91	2.01	1.16	1.99	.76	.58	18.75
March .....	3.41	.95	1.80	.81	.87	.66	.48	2.60	2.06	.40	5.60	19.64
April .....	3.73	1.21	2.32	1.82	1.87	1.55	.65	1.83	1.47	1.14	2.74	20.33
May .....	3.00	1.05	.55	3.13	5.19	2.91	3.15	1.06	1.48	1.86	1.82	25.20
June .....	2.93	.30	1.46	.32	1.58	.03	1.88	3.93	5.23	2.39	1.12	21.17
July .....	5.02	.44	3.12	2.91	4.75	2.18	3.02	2.22	1.56	3.29	5.72	34.23
August .....	1.58	3.44	3.60	2.79	4.03	3.81	2.90	5.04	2.74	3.28	3.62	36.83
September...	2.48	.76	2.56	3.07	3.00	2.86	2.99	3.80	2.03	2.27	3.95	29.77
October.....	2.63	2.80	.33	3.51	3.29	3.39	2.30	2.51	3.38	4.69	4.43	33.26
November...	.86	2.04	.95	1.65	1.37	2.53	5.04	3.03	3.86	5.46	3.67	30.16
December...	1.80	1.49	3.69	3.07	2.70	1.61	.74	1.17	2.24	3.80	4.13	26.44
TOTALS...	32.18	17.94	26.15	28.38	31.19	27.25	27.02	30.40	32.08	30.70	41.77	325.06
	D	D	D	D	D	D	D	D	D	D	D	48

1925. Glass Houses &amp; Walls. 10 ft. high. 40 ft. N.

1927. Fruit trees 5 ft. high. 10 ft. South. R. lowered to 1 ft. on 1. Jan. 1928 and obliterated. 3 ft. East of old site.

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
			<u>Chester</u>	<u>4 mi</u>	<u>N</u>	<u>Eccleston</u> <u>Alford</u>	<u>3/4 mi</u> <u>3/4 "</u>	<u>N</u> <u>S</u>



RAINFALL at Eaton Hall GardensCounty of CheshireObserver Mr. N. F. BarnesRiver Basin Dee - 4Type of Gauge HowardAnnual Average 26.9 in. based on 28 years obs. un-weighted. Period of average 1881-1908 Ref. S

813291/27.

Diameter	5.											
Height	*	1.0.						1	2			
Altitude		72.										
Year		1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	246	2.01	1.58	1.38	1.70	3.52	2.04	3.37	4.90	1.99		Totals.
February	239	.13	2.54	.22	1.90	2.19	4.50	.56	2.49	2.28		24.76
March	.37	1.47	2.27	1.59	.77	1.83	1.79	.51	2.09	2.20		19.20
April	259	3.24	1.01	2.07	2.25	1.92	2.68	.16	1.78	2.17		14.89
May	324	4.79	1.47	1.16	2.25	1.09	2.23	2.22	1.61	2.34		19.88
June	526	.32	1.57	1.87	3.04	4.89	1.06	2.60	2.77	1.03		22.40
July	210	3.18	1.43	.97	1.17	2.26	1.63	2.86	6.46	2.98		24.51
August	595	2.07	.72	3.44	1.51	1.48	1.90	5.34	2.20	.48		25.04
September	444	2.44	.60	1.61	4.46	3.66	1.71	1.00	1.10	2.85		25.09
October	1.60	4.94	3.51	4.13	4.32	1.26	3.01	2.89	3.78	3.76		23.87
November	472	1.92	1.78	1.41	4.34	2.85	1.67	3.47	3.96	5.36		33.20
December	1.61	1.36	.44	4.50	3.60	3.35	3.31	2.99	1.94	2.06		31.48
TOTALS	3683	27.87	18.92	24.35	31.31	30.32	27.53	27.97	35.08	29.50		2546
	D.	D.	D.	D.	D.	D.	D.	2	2	D.		287.68

1932. Glass houses 20' high 40' N.

1937 Greenhouse 16' high 30' N.

1940 Vineyard 25' high 30' N.

\* He gives each year on form 1090 as 3 ft this is in error the gauge was covered 6 ft 31/12/27

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
1934				4 m.	4 m N		1 m	N

Station No. 2793

RAINFALL at Eaton Hall Gardens

41

County of Cheshire Observer Mr. N. J. Barnes (1071747)

River Basin Dee 4

Type of Gauge Howard

Annual Average 34.9 in. based on 28 years obs. un-weighted. Period of average 1881-1915 Ref. 5

File No. 813291/27

Diameter	5"			548	574						
Height	1' 0"	1' 3"			1' 6"			1' 3"			
Altitude	72'			41	60'	62'	76'		68'		
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	3.46	2.64	4.21	2.81	2.35	2.67	1.85	5.28	2.41	3.8	Totals: 28.03
February	2.93	1.40	1.66	1.24	1.74	3.49	.93	1.35	1.42	4.80	20.96
March	2.70	1.91	.82	.89	.74	.83	4.77	.79	2.58	1.68	17.71
April	.92	1.46	1.21	1.04	1.03	.87	2.71	1.48	2.83	3.46	17.01
May	1.99	3.36	2.31	1.42	2.53	2.42	2.95	.76	3.37	.98	22.69
June	.73	.29	2.36	1.36	2.11	3.08	2.64	3.51	.68	1.21	17.97
July	3.57	3.04	3.03	2.54	3.49	2.92	4.37	2.39	3.76	2.21	31.32
August	3.22	2.81	2.76	2.29	2.68	4.51	.44	2.75	1.52	4.35	27.33
September	.50	1.62	3.12	3.58	1.19	2.35	1.91	1.38	.86	4.63	21.14
October	3.97	1.30	3.60	4.28	4.08	.80	.60	1.79	3.09	2.16	26.27
November	3.00	.81	2.73	4.30	.28	3.96	3.07	2.03	3.00	4.08	27.26
December	1.46	3.28	1.16	1.52	2.18	3.04	2.54	3.22	2.45	2.85	23.70
TOTALS	28.45 D	25.12 D	28.97 D	27.27 D	24.40 D	30.94 D	28.78 D	26.73 D	24.97 D	32.76 D	281.39 48.4

1941 Glass Houses 15' high 8 yds. E.

1944 Vinery 20 ft high, 12 yds N.

1947. beam to greenhouse on wall 18' high, 30' N.

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	Parish Church.	Distance from gauge.	Direction
1941				3 1/2 m.	E		1 1/2 m.	E.
1943				4 m.	N		1 m.	N
1947			Balderton	3 m.	WSW	Ecdleston	1 m.	N

BRITISH RAINFALL ORGANIZATION

Station No. 2793RAINFALL at Caton Hall Gardens

51

County of CheshireObserver Mr. S. MillerRiver Basin Lee - 4Type of Gauge HowardAnnual Average 26.9 in. based on 28 years obs. un-weighted. Period of average 1881-1915 Ref. S" " 29.11 - - 40 - - within 1916-57 - - - 1916-50File No. 813291/27 S

Diameter ...	5"			548	574		5"					
Height ...	2' 6"	1' 3"	1' 5"		1'	1' 3"	1' 3"					
Altitude ...	73'			60'	51'	73'	60'					
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	
January ...	1.73	3.42	.97	1.33	2.24	4.04	1.44	3.06	4.38	5.06	27.67	
February ...	2.09	1.04	1.52	2.20	2.33	.54	3.00	4.01	.33	2.26	19.32	
March ...	4.84	.88	.76	2.12	2.22	1.15	1.51	1.70	1.37	1.87	18.42	
April ...	1.68	1.75	2.76	.75	1.54	2.76	.50	.44	4.10	1.26	17.54	
May ...	3.27	2.32	2.07	2.79	2.85	.82	1.69	2.24	1.85	2.38	22.28	
June ...	1.47	1.56	1.75	3.27	4.33	2.11	1.34	5.80	2.40	1.35	25.38	
July ...	2.54	2.72	2.95	3.30	.47	4.75	4.87	3.35	2.87	3.10	30.92	
August ...	3.47	1.61	2.25	3.76	1.14	7.17	3.51	2.92	.62	4.85	31.30	
September ...	2.16	2.33	3.08	2.04	3.08	1.75	7.13	4.91	.14	4.66	31.28	
October ...	1.12	4.74	1.47	4.83	2.40	2.37	2.33	2.42	2.16	4.21	28.05	
November ...	6.19	2.70	1.81	5.50	1.77	.97	1.73	2.50	4.04	5.09	31.61	
December ...	3.45	2.65	1.38	3.80	2.75	2.56	1.58	3.06	4.86	2.86	28.95	
TOTALS ...	34.01	27.03	22.77	35.69	27.12	30.99	30.63	36.41	29.12	38.95	312.72	
	D	D	D	D	D	D	D	D	D	D	D	

1951 Glasshouse 16' at 42' N

1952. Cor. Apr. outside.

1955. G. moved 15.10.55, 68 yds E. Greenhouses (30', 12 yds W.

1956 Glasshouse 10' at 30 yds E.

1956 n.p. big.

(12', 8 yds N.

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference 551331415609

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.
1951 1955			Balderton	2 m. W. 6 m. W.S.W.	Kedleston	1 m. N.

Summary of Earlier Records from 10-year Sheets :

1916-1950, P - Rejected

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓ ✓ but - 11	✓ ✓ but - 20	✓ ✓	✓ ✓	✓ ✓