



# RAINFALL AT *Derby Arboretum*

Lat. ....

Lon. ....

County of *Derby*

Rain Gauge, by .....

Observer *J. Ward Esq. Cl.*

*Sevent - 6.*

Diameter ..	8											
Height ....	1.0											
Altitude ..	<i>196 ft</i>											
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.	
January ..	4.16	1.61	1.15	1.96	2.02	1.31	3.64	1.66	1.22	1.30	2.003	
February ..	4.06	1.14	1.56	1.21	2.94	1.07	3.76	2.59	1.69	.70	2.072	
March ....	.75	2.01	1.43	3.36	2.12	3.61	2.43	2.03	2.83	3.43	2.400	
April .....	1.10	1.76	2.22	1.83	1.72	1.60	.88	1.66	3.04	1.64	1.745	
May .....	1.55	.82	2.67	2.92	1.77	.39	1.84	3.90	2.48	1.94	2.028	
June .....	3.93	1.86	2.19	1.26	.56	2.36	2.04	3.34	1.66	2.33	2.153	
July .....	3.89	3.31	1.34	2.17	2.02	.88	.59	2.75	2.53	3.30	2.278	
August ....	4.77	1.73	3.16	4.71	2.81	3.02	1.01	3.42	3.89	2.51	3.103	
September ..	.93	.90	1.58	2.73	1.80	1.32	1.00	.82	1.67	2.31	1.506	
October ....	2.84	1.61	2.56	5.31	.57	1.44	5.18	4.06	1.15	3.71	2.843	
November ..	2.16	1.80	1.65	2.05	1.49	2.61	2.88	1.95	1.76	.52	1.887	
December ..	4.23	6.01	1.71	1.22	1.95	.65	2.49	3.02	1.67	4.88	2.783	
TOTALS ..	34.37	24.56	23.22	30.73	21.77	20.26	27.74	31.20	25.59	28.57	26.801	

1909 Derby M.R. Station  $\frac{1}{2}$  mile N.E.

*Hills*

RAINFALL at Derby ArboretumCounty of DerbyshireObserver J. Ward Esq. C.E.River Basin Trent-Deerwent 6Smarden Rain Gauge, by

Diameter ...	8											
Height .....	1	0										
Altitude ...	196	K										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	TOTAL
January ...	2.52	.78	5.64	4.32	1.73	2.69	1.83	2.89	2.16	3.56		16.59
February ...	2.39	1.74	1.78	1.03	1.39	2.69	5.34	1.29	2.38	2.51		10.44
March .....	.58	1.42	2.68	3.79	2.31	1.03	4.24	1.64	1.41	4.77		11.52
April .....	1.91	1.42	.22	3.28	.85	.92	1.85	1.27	1.37	1.30		12.06
May .....	2.53	.63	2.55	1.90	1.94	1.73	1.96	2.61	3.04	1.50		5.79
June .....	1.49	2.30	5.16	1.28	1.91	1.32	1.46	2.84	.71	.83		9.11
July .....	2.91	.05	3.38	.83	3.83	6.26	2.12	1.30	2.68	2.72		5.84
August .....	3.59	1.72	6.14	2.12	1.69	1.93	2.47	5.07	1.93	2.04		8.82
September ..	.63	1.45	1.01	1.54	.95	.97	1.21	1.62	5.80	1.73		11.51
October ...	2.29	2.08	2.92	2.82	1.98	1.60	2.87	3.74	1.40	2.37		10.36
November ..	5.06	2.11	2.05	2.46	3.60	2.55	3.08	1.66	1.53	1.94		10.38
December ...	5.54	3.92	3.47	1.09	5.85	6.60	2.71	1.20	4.03	3.95		8.21
TOTALS ...	31.44	19.62	37.00	26.46	28.03	30.29	31.14	27.13	28.44	29.22		115.93
	3	3	3	3	3	3	3	3	3	3		7.46

Date.	Lat. N.	Long. W.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	52.54.35	1.28.	Derby M.R.	1/4 m	NE SW	St Andrew's		NE



RAINFALL at Derby The ArboretumCounty of DerbyshireObserver J. Ward Esq C.E.River Basin Great-Deerwent 6C.A. Clews C.E. (1921)Snowdon Rain Gauge, by \_\_\_\_\_

Diameter ...	8												
Height .....	10												
Altitude ...	196												
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS.		
January ...	3.19	2.54	4.12	1.15	2.21	2.27	2.56	1.53	5.37	1.36	3.90	30.20	Totals.
February ...	2.20	.32	2.71	3.67	.53	2.88	2.64	1.71	2.65	.44	.80	20.55	
March .....	1.99	1.23	1.61	1.20	.99	.85	.99	2.31	1.70	.47	3.29	16.63	
April .....	3.90	1.06	2.47	1.79	2.33	1.86	1.65	2.12	1.13	.96	3.28	22.55	
May .....	2.35	1.67	.92	2.53	3.53	5.59	2.88	1.48	.85	2.14	3.13	27.07	
June .....	2.85	.28	.74	.48	2.23	.01	1.93	4.13	2.78	1.32	1.95	18.70	
July .....	4.00	.43	3.73	4.11	2.67	2.15	2.30	2.51	1.41	1.93	6.20	31.44	
August .....	.36	4.62	4.99	2.42	2.81	3.07	1.85	2.90	3.22	2.26	1.95	30.95	
September...	1.91	1.16	1.56	2.43	2.68	3.26	.58	4.24	.71	.62	3.85	23.00	
October .....	1.55	2.27	.48	2.14	4.28	3.35	2.44	2.13	4.18	3.52	3.25	27.57	
November...	.74	1.44	.75	2.23	1.58	1.63	3.44	3.41	3.77	5.56	3.11	27.66	
December...	2.55	1.95	3.54	2.90	2.41	2.20	.90	2.15	2.53	4.36	2.03	27.52	
TOTALS...	28.09	18.97	27.62	27.05	28.25	29.12	24.16	30.62	30.30	24.94	36.74	305.86	MEANS
	D	D	D	P	D	D	D	D	D	D	D	D	

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	52° 54' 35"	1° 28'	Derby	850	N 15	no date St Andrews		N 15

## RAINFALL at Derby (The Arboretum) + A. 1933

County of DerbyshireObserver E. H. Bennett, Esq. C.E.River Basin Trent Derwent 6Type of Gauge N.M. 215 N. 25Annual Average 26.2 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref S

Diameter	6		6									
Height	1 0		1.6									
Altitude	196											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	Totals
January	2.40	1.80	1.77	2.51	.74	3.16	3.14	2.05	5.04	2.10		26.71
February	2.91	.36	3.83	.40	1.99	1.56	3.76	.61	1.12	3.35		19.89
March	.20	1.57	2.38	1.69	.73	1.60	1.96	.29	1.31	1.99		13.78
April	3.88	2.59	1.27	2.13	3.04	1.54	1.98	.12	1.63	1.75		19.93
May	2.72	6.72	1.68	.78	.44	.51	2.26	1.75	.98	1.34		19.18
June	3.55	.96	1.93	.64	3.14	3.79	.89	1.42	.82	.76		18.10
July	3.76	3.68	2.11	.93	.42	3.87	2.83	4.28	4.51	2.47		28.86
August	6.02	2.08	.83	2.21	1.96	.93	.30	1.59	2.33	.28		18.53
September	2.42	2.05	1.96	1.89	3.93	3.19	1.58	2.91	.94	.69		21.56
October	.63	3.32	4.42	1.52	3.05	1.50	1.81	2.48	3.29	4.01		26.03
November	2.92	1.87	1.09	2.00	4.49	2.25	1.53	2.60	4.25	5.80		28.80
December	1.17	.68	.34	4.18	3.70	1.83	2.18	3.68	1.89	1.90		21.55
TOTALS	32.58	27.68	23.61	20.88	27.63	25.73	24.20	24.78	28.17	27.64		262.92
	D.	D.	D.	D.	D.	D.	D.	D.	D.	D.		262.92

1931. Greenhouses 10' high 30yds. N.M.W.

1933. new gauge.

1937. Corrected by F. 1090. 18/4/56. 2656

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.			Derby L.M.S.	1/4 m	N.E.	St. Andrew's	1/4 m	E.



Station No. *T.F. 241*RAINFALL at *Derby (the Ordnance Survey) (+A<sup>9</sup>)*

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County of *Derbyshire*Observer *E. H. Bennett Esq. B. E.*River Basin *Leant. Derwent 6**Borough Engineer*Type of Gauge *M.O.*Annual Average *26.2* in. based on *35* years obs. ~~un~~weighted. Period of average *1881-1915* Ref. *S*File No. *241/31/33*

Diameter	5"			110	430							
Height	1' 0"				1							
Altitude	186'				41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	
January	3.37	2.48	4.34	2.90	1.92	2.93	1.97	4.84	.95	.92		Totals 26.62
February	2.22	1.14	.65	2.29	3.17	3.62	1.88	1.41	.53	4.48		21.39
March	2.72	1.57	1.28	.13	.92	.80	5.52	.77	1.69	.80		16.26
April	1.78	1.07	.84	2.36	2.59	1.18	2.39	1.89	2.44	2.83		19.37
May	2.57	3.64	3.77	1.47	2.67	1.49	1.88	1.31	2.16	1.53		22.49
June	.90	.20	2.45	1.90	3.16	3.06	1.54	2.80	.46	1.32		17.79
July	4.13	2.14	1.36	3.15	2.26	1.77	2.71	1.42	3.02	1.84		23.80
August	4.84	2.51	2.60	2.74	3.21	4.57	.43	4.76	1.98	3.07		30.71
September	.34	.92	2.28	4.75	2.97	3.99	1.78	2.04	1.98	3.76		24.81
October	3.12	2.12	2.14	3.09	4.42	1.64	.26	2.20	4.06	.89		23.94
November	2.91	1.28	1.67	4.95	.25	5.26	1.96	1.42	3.07	4.26		27.03
December	1.06	2.05	.74	1.79	2.22	2.41	2.58	3.38	2.04	1.61		19.88
TOTALS	29.96	21.12	24.12	31.58	29.76	32.72	24.90	28.24	24.38	27.31		274.69

1948. Observed station recording gauge not working.

1944. Obs. includes 5 account for big total (Aurora inspection).

114 81 92 122 114 125 95 108 93 104

110

100

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			Derby L.M.S.	850 y.	N.E.	St. Andrews.	730 y.	E.

BRITISH RAINFALL ORGANIZATION

Station No. 2661

T.F. 73

RAINFALL at DERBY (THE ARBORETUM)

51

County of DERBYObserver BORO' ENGINEER, & SurveyorRiver Basin TANT - DERWENT - 6Type of Gauge M.O.

(T.A)

Annual Average 26.2 in. based on 30 years obs. un-weighted. Period of average 1881 - 1916 Ref. S & A.W.S.File No. 2413.11/33

Diameter ...	5"			110	430						
Height ...	1' 0"				1						
Altitude ...	196'				51						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	2.03	2.02	1.02	1.03							
February ...	2.47	.61	1.70	1.87							
March ...	3.92	2.47	1.36	2.09							
April ...	1.59	1.24	2.51	.29							
May ...	2.63	2.52	1.99	2.29							
June ...	1.37	2.30	3.05	2.77							
July ...	.79	2.23	3.25	2.20							
August ...	4.24	1.81	2.07	3.99							
September ...	1.35	1.49	1.38	3.01							
October ...	.67	2.73	1.93	3.09	#						
November ...	5.70	1.48	1.63								
December ...	1.90	2.46	.94								
TOTALS ...	28.66	23.36	22.83	n.p.							
	NP	D	D								

1951 p.p.la. letters to obs re testing gauges etc.

1952 Patent.

1953. S.O. Wehrall reports 81% v. poor with glasshouses, trees working hard to bear v. poor plants all round.

1954. 1st Nov. gauge moved to Derby (Glenaston) for No 2655/7 6.54.

1954 NP incomplete (terminated)

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference SK 356 350

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.

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
	✓	✓	✓	✓	