

## RAINFALL AT Derwent Dale Birchmire No 23

Lat. .... Lon. .... County of Derbyshire.....

M.O. Rain Gauge, by Observer Elstander & Co  
Derwent - 6.

Diameter ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
Height ..							5				
Altitude ..							10				
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	
January ..							6.46	2.45	4.33	3.52	
February ..							4.51	3.34	4.94	4.81	
March ..							4.95	5.27	4.64	5.44	
April ..							2.05	3.22	3.49	2.89	
May ..							3.19	4.91	3.74	2.63	
June ..							1.63	7.13	2.41	5.35	
July ..							3.11	3.41	5.35	5.32	
August ..							3.84	4.68	4.30	2.39	
September ..							1.64	.87	3.31	3.46	
October ..							7.25	7.80	1.66	6.73	
November ..							6.61	5.03	4.49	2.09	
December ..							5.25	4.73	2.80	9.90	
TOTALS ..	52.24	49.05	41.74	59.26	40.71	41.61	50.49	52.84	45.46	53.93	487.36

'00- '05. Entered from P.Y. 1. XII. 1913.

10

RAINFALL at Derwent Dale Birchmire N° 23 2696

County of Derbyshire  
River Basin Trent-Derwent (6)

### *Observer*

Observer E Sandeman Esq C.R.  
S.B. Winsor Esq C.R.

S.B. Winsor by C.L.

*Rain Gauge, by*

Diameter ...	5										
Height .....	10										
Altitude ...	870										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	5.15	2.19	5.47	5.51	4.50	8.00	4.43	4.10	4.83	6.08	
February ...	5.50	6.64	1.96	1.85	3.05	6.46	7.83	.97	6.22	2.50	
March .....	1.21	3.24	5.44	6.50	6.23	1.95	4.43	3.66	2.36	6.27	
April .....	5.19	3.92	1.79	4.52	2.59	2.33	4.48	2.81	1.58	2.83	
May .....	4.00	1.39	3.19	3.09	3.17	1.40	2.25	1.98	3.99	2.21	
June .....	3.52	3.79	3.95	2.48	3.94	1.37	4.08	2.24	2.91	2.04	
July .....	4.94	.50	6.35	1.12	4.22	5.97	2.93	2.20	4.45	3.92	
August .....	6.28	2.63	8.75	1.58	3.30	3.22	2.14	8.64	2.74	4.30	
September ...	.49	3.06	3.33	3.11	3.67	1.00	2.66	2.62	10.98	3.27	
October ...	3.32	4.03	4.33	5.27	3.76	3.09	7.71	7.74	3.79	4.71	
November ...	6.27	6.38	4.07	5.75	7.65	4.68	5.58	6.79	2.47	4.96	
December ...	7.90	7.64	8.49	4.24	9.54	(9.33)	4.73	3.15	9.00	9.73	
TOTALS ...	53.77	45.41	57.15	45.02	55.62	(48.80)	53.25	46.90	55.32	52.81	

(1915 Dec? estimated)

## RAINFALL at Derwent Dale, Birchenlee No 23

County of Derby

Observer S.B. Wensler, C.E.

River Basin 6 - Derwent

Derwent Valley W.M.

Copper M.O. Rain Gauge, by Casella

8.05  
8.00  
8.01

8.05  
7.95  
8.00

Good condition  
N + Z. glass  
Copper & brass

Diameter ...	8										
Height .....	10	1	0								
Altitude ...	870										
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS.
January ...	7.17	9.39	5.71	6.43	3.38	6.41	6.31	5.12	13.94	2.64	7.39
February ...	4.87	7.70	6.93	8.74	2.67	7.93	3.86	2.16	7.48	.89	1.57
March .....	3.64	4.59	3.61	2.59	1.40	2.86	3.22	6.27	3.43	.89	4.16
April.....	7.31	2.74	4.93	3.58	2.82	4.20	2.77	6.91	2.04	1.95	4.62
May .....	6.66	2.26	1.11	5.42	6.43	4.86	4.08	1.81	1.54	3.54	3.11
June .....	4.24	1.31	2.94	1.23	2.19	.08	3.70	6.13	5.10	1.82	4.64
July .....	6.76	1.75	4.86	4.48	4.74	1.85	3.09	3.69	1.78	3.68	8.27
August .....	2.32	6.94	7.44	5.32	5.64	5.04	4.34	5.66	5.69	4.52	5.28
September...	2.30	1.13	4.56	5.61	4.75	4.93	3.12	7.04	6.2	2.12	6.56
October.....	2.44	2.90	1.73	4.66	7.01	6.19	6.23	5.61	6.69	6.52	7.62
November...	2.25	2.63	4.08	8.77	3.82	4.88	5.43	7.14	9.60	10.24	6.40
December...	5.01	9.41	5.73	6.30	5.02	6.10	3.98	2.24	4.07	12.33	4.73
TOTALS...	54.97	44.75	53.63	63.13	49.87	55.33	50.13	59.78	62.03	51.14	64.32
											609.08

Inspected 26. III. 21. S. in grass field which may grow too high and get in  
grass. General shelter and exposure good. We advise that grass be kept down.  
1920 283 f £60619, assurance that grass is kept down. Values are satisfactory

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 from gauge	Parish Church.	Distance from gauge	Direction from gauge

## RAINFALL at Derwent Dale (Birchinlee) No. 23

County of Derbyshire

Observer S. B. Winsor Esq., C.E.

River Basin Trent - Derwent 6

Derwent Valley Meteor Board 0933

Type of Gauge Standard

Annual Average 50.3 in. based on 29 years obs. un-weighted. Period of average 1881-1915 Ref. S

660619/26 370241/34

Diameter	8	Height	10	Altitude	870		890	890			
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	8.70	6.75	3.68	4.82	3.86	5.14	7.29	7.43	7.45	(3.80)	Total 58.92
February	8.57	7.73	5.24	3.4	9.17	3.97	8.34	3.14	4.74	2.60	46.84
March	3.9	3.66	3.49	5.62	2.37	3.91	3.66	2.14	3.93	3.83	33.00
April	6.77	7.33	2.05	3.70	4.71	2.12	3.67	7.1	3.01	3.84	37.81
May	2.82	5.70	2.15	3.00	6.3	1.94	3.28	3.93	2.76	1.23	27.44
June	6.41	1.06	3.42	1.89	4.52	3.74	1.92	3.84	3.16	.95	30.91
July	5.37	5.00	3.76	4.81	2.28	5.40	3.92	5.37	8.24	4.37	48.58
August	7.68	1.75	1.09	3.40	2.02	2.81	1.81	2.55	3.02	2.01	28.14
September	6.03	4.47	1.84	3.96	7.12	7.51	2.09	3.43	2.45	4.58	43.48
October	2.66	8.86	7.06	8.11	12.53	6.23	3.30	10.19	11.80	5.20	68.94
November	7.24	5.05	3.85	3.59	7.97	7.87	2.27	7.53	9.15	11.61	65.43
December	3.02	2.61	.82	6.31	5.48	6.32	4.92	5.78	4.39	6.39	66.04
TOTALS	65.66	52.97	38.45	49.55	62.66	#	56.52	46.37	55.84	57.10	50.41
	D	D	D	D			W	W	W	W	

N.B. Inspected x/38. "Gauge is satisfactory but g. is near No. 7. As this is a long period station suggest continuing as weekly gauge until the end of 1935, and then abandon."

# 1935 gauge abandoned at end of 1935

1937 block gauge set up a few yards away.

1940 Jan est.

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

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

BRITISH RAINFALL ORGANIZATION, EXHIBITION ROAD, LONDON, S.W.7.

Station No. T.F. 2696

## RAINFALL at Derwent Dale (Birchinlee) N° 23

41

County of Derbyshire Observer Derwent Valley Water Bd.

River Basin Trent-Derwent-6

Type of Gauge Standard

Annual Average 50.3 in. based on 29 years obs. unweighted. Period of average 1881-1915 Ref. S

File No. 660619/26 370241/34

Diameter	8"		106	272							
Height	10'			1							
Altitude	890			41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	4.40 (5.69)	6.45	10.25	5.93	7.77	4.26	10.53	3.17	3.38		Total 16 61.83
February	5.64	2.17	4.56	2.86	6.18	9.54 (4.30)	3.99	3.19	7.37		49.80
March	7.30	3.10	2.26	1.05	1.56	2.07 (8.20)	2.01	2.24	2.33		32.12
April	3.53	2.82	3.43	3.41	2.95	1.89	4.41	2.87	4.90	5.44	35.85
May	3.56 (4.60)	3.58	4.15	3.76	2.60	3.94	1.85	2.52	2.17		32.73
June	1.90	1.08	3.35	3.19	5.08	5.00	3.25	5.53	.78	1.74	30.90
July	3.96	5.24	2.28	4.45	1.42	4.18	2.40	2.49	2.44	3.29	32.15
August	6.09	4.45	5.59	4.01	3.33	4.45	.43	5.16	2.62	3.77	39.90
September	6.64	3.63	4.68	5.69	2.66	6.19	2.08	2.42	1.91	6.88	36.73
October	6.30	6.91	2.63	5.68	7.12	2.15	1.21	2.76	4.83	2.32	41.91
November	4.14	1.98	5.09	8.35	.75	10.50	6.51	2.51	8.09	7.97	55.89
December	3.91	4.79	2.65	4.61	3.77	5.15	6.19	4.04	10.05	3.44	48.60
TOTALS	51.34 (46.46)	46.55	57.70	44.51	61.49	47.18	46.16	46.74	50.05		498.21 48.46

1941. Jan. & Feb. covered for snow. Mar. & June east. by obs. 1942. Jan. & May east. by obs.  
 1947 Feb. March east. Snow. Gauge unpeeled - sprung 1948 by staff of Water Bd. gauge sound but plantation of trees 60ft away have  
 grown to shelter it. Propose to cut trees. 8128

1948. Total loss: latter same 9 Feb. 1949. Reply gauge to be tested during 1949.

map

42004

30004

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

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

## RAINFALL at Derwent Dale (Birchinlee) No. 23

Station No. 2696

County of Derbyshire

Observer Derwent Valley Water Bd.

River Basin Trent-Derwent 6

Type of Gauge Snowden

Annual Average 50.3 in. based on 29 years obs. un-weighted. Period of average 1881-1915 Ref. S  
 52.89 " " 35 " 1916-1950 P  
 File No. 370241/34

Diameter ...	8"		106	272							
Height ...	1" 6"			1						12"	
Altitude ...	890			51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	5.96	7.27	2.28	5.48	3.56	8.27	4.79	6.47	5.45	8.94	58.47
February	5.09	2.46	3.38	4.08	3.58	2.00	4.19	8.91	.56	4.45	38.70
March	6.24	2.95	3.70	3.07	3.80	2.57	4.39	3.94	2.52	2.09	35.27
April	2.98	3.56	3.69	.87	2.10	2.61	.70	1.89	4.48	3.58	26.46
May	3.38	3.10	3.25	4.19	6.24	1.45	1.85	4.35	1.65	2.04	31.50
June	1.21	2.76	3.35	3.03	3.70	4.67	1.75	4.92	2.18	1.57	29.14
July	2.97	2.61	5.90	6.07	1.33	10.34	5.06	6.16	4.25	7.76	52.45
August	5.52	3.19	4.73	7.67	.90	8.63	7.75	3.96	.92	4.21	47.48
September	3.25	7.27	2.60	5.73	2.10	4.85	8.91	5.50	.12	(5.04)	45.37
October	1.20	7.81	2.45	7.70	3.89	3.66	5.48	4.06	5.21	7.03	48.49
November	9.64	4.66	3.39	8.50	3.05	3.08	3.41	1.52	6.70	7.18	51.13
December	4.63	5.21	2.32	9.43	6.80	6.52	7.63	5.82	9.01	6.03	66.40
TOTALS ...	55.07	52.85	41.04	65.82	41.05	58.65	55.91	57.50	43.05	59.92	530.86
	w	w	w	w	w	w	w	w	w	w	

1956 Rather big, but accept.

00104

July 1958 f.b.o.f. Prior 30-35°, 50-60° NW-N. Rec. more 10% S. &amp; record.

From until 2012. Gauge not yet re-visited.

(43)

Position of Station on Ordnance One-Inch map : No. of Map 102 National Grid Reference 381165718

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

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
		✓	✓	✓	✓	✓