

RAINFALL AT Derwent Dale Howden Dam

No 17

Lat.

Long.

County of Derbyshire

Rain Gauge, by

Observer E Sandeman Esq C.E.

Derwent - 6.

Diameter ..							5	8			
Height ..							1	0			
Altitude ..							829				
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..							5.79	2.85	3.80	3.22	
February ..							4.22	3.04	4.63	3.79	
March ..							4.33	4.89	4.49	5.25	
April ..							1.68	3.08	3.44	2.62	
May ..							3.01	4.55	3.45	2.50	
June ..							1.45	6.88	2.25	5.09	
July ..							2.75	3.14	5.03	4.95	
August ..							3.56	4.51	4.07	2.80	
September ..							1.52	.80	3.22	3.27	
October ..							6.97	7.56	1.54	6.07	
November ..							6.08	4.88	3.96	1.78	
December ..							4.83	4.39	2.62	9.71	
TOTALS ..							46.19	50.07	42.50	50.55	

RAINFALL at Derwent Dale Howden Dam No 17 3700

County of Derbyshire

Observer E Sanderson Esq C.R.

River Basin Front-Derwent 6

S B Winsor by C.E.

Rain Gauge, by-

Diameter	8										
Height	1	0									
Altitude	820										
Year	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January	4.66	2.01	5.37	4.72	4.46	7.97	4.42	4.09	4.78	6.15	
February	5.04	5.61	2.17	1.72	3.25	7.11	7.86	1.00	6.03	2.81	
March	1.07	3.01	5.58	5.54	6.17	2.04	4.38	3.53	2.28	6.86	
April	4.77	3.60	1.68	4.04	2.40	2.34	4.32	2.62	1.55	2.22	
May	3.87	1.13	3.08	2.81	3.17	1.51	2.28	1.93	4.02	2.07	
June	3.28	3.60	3.64	2.08	4.12	1.22	4.21	2.09	2.94	1.87	
July	4.31	.41	6.12	1.02	3.94	6.17	2.86	2.13	4.35	3.81	
August	5.60	2.49	8.32	1.60	3.16	3.32	2.03	8.60	2.66	4.07	
September40	2.77	2.96	3.22	3.65	.99	2.52	2.54	11.00	3.03	
October	2.89	3.82	3.97	5.47	4.08	3.08	7.38	7.64	3.70	4.86	
November	6.14	6.29	3.51	5.64	7.36	4.81	5.40	6.72	2.40	4.65	
December	7.97	7.21	7.25	4.62	9.42	9.59	4.70	3.12	8.79	9.32	
TOTALS	50.00	41.85	53.65	42.48	55.18	50.15	52.36	46.01	54.50	51.82	

RAINFALL at Derwent Dale, Howden Ward no. 17

County of Derby

Observer S. B. Winder C.E.

River Basin 6 - Derwent

Derwent Valley W.W.

Cupro M.O. Rain Gauge, by Casella 8336

11.21 8.00
8.01 } good
7.99 } condition

Glass No 2

C.S. 1776 correct.

Daily

Diameter ...	8	Height	1 0	Altitude ...	829	Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS
January ...	6.72	8.39	5.32	5.78	3.24	5.98	6.02	4.90	12.38	2.51	6.88						Totals, 68.02
February ...	4.74	6.61	6.25	8.05	2.55	7.32	3.75	2.05	7.05	.87	1.46						44.70
March	3.57	4.08	3.37	2.47	1.31	2.66	3.03	6.05	3.19	.79	3.82						34.34
April	7.01	2.63	4.77	3.41	2.69	3.78	2.63	6.45	1.94	1.74	4.85						41.40
May	6.58	2.16	1.10	5.29	5.97	4.58	4.00	1.73	1.59	3.39	2.88						39.27
June	4.13	3.6	2.85	1.21	1.98	.08	3.56	5.62	4.78	1.77	4.65						30.99
July	6.36	1.43	4.83	4.02	4.64	1.75	3.02	3.58	1.74	3.49	7.90						42.81
August	2.17	6.79	7.38	4.91	5.34	4.92	4.16	3.69	5.48	4.42	5.00						56.06
September...	2.10	1.04	4.28	5.16	4.61	4.60	2.97	6.90	6.0	1.94	6.44						40.64
October.....	2.61	2.68	1.63	4.18	6.71	5.81	5.88	5.24	6.53	6.21	7.17						54.65
November...	2.04	2.61	3.78	8.19	3.37	4.64	5.20	6.69	8.87	9.61	6.02						61.02
December...	4.84	8.48	5.40	6.14	4.56	5.38	3.82	2.14	3.90	11.07	4.46						60.69
TOTALS...	52.87	41.26	51.01	58.81	46.97	52.00	48.04	56.74	58.05	47.81	61.03						57457 926

S. inspected 20.VII.21. W. of reservoir in garden of house. Drop of 10 ft. 6 yds E towards reservoir but sheltered on all sides. Good position.

S. inspected 18.VII.22 - no change.

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 (Howden Dam) 17

County of Derbyshire

Observer S.B. Winter C.E.

River Basin Trent-Derwent 6

Derwent Valley Water Board (1933)

Type of Gauge Standard

Annual Average 7.7 in. based on 23 years obs. un-weighted. Period of average 1881-1915 Ref. S

660619/26 370241/34

Diameter	8											
Height	1	0										
Altitude	829							845				
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	8.39	5.89	3.23	4.50	3.16	4.49	6.79	6.92	7.10	(3.80)	54.27	Total
February	7.72	6.66	3.67	3.32	7.51	3.91	8.23	7.93	4.17	2.69	43.81	
March	3.7	3.40	3.28	5.23	1.97	3.73	3.33	1.93	4.07	3.35	30.66	
April	6.32	6.80	1.89	3.46	4.26	2.13	8.49	1.59	2.88	3.95	35.77	
May	2.64	5.31	2.00	2.55	1.61	2.11	3.27	3.85	2.80	1.32	26.46	
June	6.18	9.99	3.15	1.63	4.04	3.90	1.68	4.01	3.27	1.00	29.25	
July	5.20	4.73	3.55	4.18	2.09	5.10	3.78	4.70	8.28	4.05	43.66	
August	7.29	1.63	9.8	3.26	1.95	2.04	1.89	2.69	3.14	1.87	27.34	
September	5.78	4.21	1.78	3.70	6.57	7.19	2.02	3.33	2.45	4.50	41.53	
October	2.30	8.15	6.54	6.80	11.11	5.70	3.51	9.54	4.92	5.04	63.61	
November	6.50	4.62	3.62	3.74	7.69	6.79	2.21	6.98	9.20	11.56	62.91	
December	2.25	2.46	8.0	6.09	5.22	5.62	4.93	5.78	4.17	5.80	43.12	
TOTALS	60.94	48.85	36.49	45.46	56.18	53.31	45.13	53.25	56.45	48.93	506.99	
	D	D	D	D	D	D	D	D	D	D	49.00	

N.B. Inspected X/33. "Retain as daily gauge."

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. 2700

RAINFALL at Derwent Dale (Howden Dam) 17.)

41

County of Derbyshire

Observer Derwent Dale Hydrological Station Bd.

River Basin Trent - Derwent 6

Type of Gauge Standard

Annual Average 47.7 in. based on 23 years obs un-weighted. Period of average 1881 - 1916. Ref. S

File No. 27024/1

Diameter	8"		106	238							
Height	1' 0"			1							
Altitude	845'			4							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	4.30	5.69	6.75	8.15	5.50	7.44	4.15	11.14	2.82	3.56	Totals 39.50
February	5.81	2.12	4.12	2.94	6.05	8.29	4.28	3.93	2.94	7.01	47.47
March	7.36	(3.00)	1.95	.94	1.45	2.09	8.81	1.89	2.10	2.28	31.87
April	3.50	2.76	3.40	3.64	2.94	1.99	4.31	2.65	4.85	5.13	35.77
May	3.83	4.76	3.58	3.99	3.49	2.61	4.00	1.58	2.48	2.12	32.44
June	1.89	.98	3.21	3.12	5.05	5.39	3.11	6.12	.83	1.69	31.39
July	4.06	5.02	2.20	4.44	1.70	4.04	2.03	2.21	2.17	3.09	30.96
August	6.43	4.21	5.49	3.72	3.13	4.27	1.41	5.25	2.64	3.65	37.20
September	1.62	3.52	4.86	5.77	2.69	6.02	1.95	2.40	1.86	6.46	36.15
October	5.87	6.52	2.52	5.48	7.39	2.12	1.31	2.80	4.75	2.41	61.17
November	4.39	1.88	4.81	8.49	.72	10.93	6.07	2.35	7.88	7.61	55.13
December	3.64	4.63	2.66	4.59	3.76	5.30	5.83	3.82	9.22	3.28	47.06
TOTALS	51.70	45.09	45.55	55.27	43.87	60.49	46.26	46.14	44.87	48.29	477.53
D	D	D	D	D	D	D	D	D	D	D	477.53

1941 Jan. cont'd. for 260000 young inspected spring 1941/42 by staff of Water Bd. - gauge sound.

108	95	95	116	92	127	97	97
102	87	95	120	90	120	100	102
10004							

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 (Howden Dam) 17

Station No. 2700

51

County of Derbyshire
 River Basin Trent-Derwent-6
 Type of Gauge Howden

Observer Derwent Valley Water Bd.

Annual Average 47.7 in. based on 23 years obs. un-weighted. Period of average 1881-1915 Ref. S
 50.61 " " 35 " 1916-1950 1916-1950 P
 File No. 370241/34

Diameter ...	8"		106	238								
Height ...	1' 0"				1							
Altitude ...	845'				51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	Total
January	5.27	6.46	2.34	5.21	3.66	8.09	3.97	5.59	5.11	8.45	54.15	
February	5.14	2.65	3.30	4.02	3.63	1.73	4.26	7.86	.43	3.47	36.49	
March	5.77	2.95	3.60	3.28	4.05	2.28	3.89	3.62	2.46	2.45	34.34	
April	2.72	3.21	3.76	.76	1.89	2.45	.61	1.67	4.33	3.14	24.54	
May	2.29	3.02	2.78	4.29	6.18	1.46	1.87	4.14	1.97	2.18	31.18	
June	1.10	2.70	3.77	2.95	3.66	4.45	1.69	5.05	1.94	1.57	28.88	
July	2.73	2.43	5.96	5.39	1.81	8.50	4.79	5.92	4.11	2.47	48.61	
August	5.09	3.10	4.83	7.55	1.05	9.12	7.20	3.63	.91	4.61	47.09	
September	3.17	6.69	2.52	5.29	2.02	4.49	8.24	5.34	.08	5.08	42.92	
October	1.10	8.70	2.26	7.58	3.87	3.32	4.51	4.00	4.86	8.13	48.30	
November	9.72	4.49	3.47	8.52	3.07	2.59	3.37	1.32	6.93	6.62	50.10	
December	7.25	4.73	2.24	8.90	6.49	6.00	6.60	5.24	8.17	5.31	60.93	
TOTALS	52.35	51.13	40.83	63.74	40.88	54.48	51.00	53.38	41.26	58.48	507.53	
D	D	D	D	D	D	D	D	D	D	D		

Just ~~in~~ 1954 f. B.O.F. Slightly over-sheltered by trees NW-SW. This will not increase much.
 No alternative site.

1960 from which 26 in. Satisfactory.

(43)

Position of Station on Ordnance One-Inch map : No. of Map 102 National Grid Reference SK 108.924

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	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
		✓	✓ D28-20	✓ Blustato		✓