

RAINFALL AT Derwent Dale Howden Dam No. 17

Lat.

Lon.

County of Derbyshire

Rain Gauge, by

Observer E. Sandeman Esq. C.E.Derwent - b.

Diameter ..							5	8			
Height							1	0			
Altitude ..							829				
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..							5.79	2.35	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	3.03	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 9700County of DerbyshireObserver E Sanderson Esq. C.E.River Basin Front-Derwent 6S B Winsor Esq. C.E.

Rain Gauge, by _____

Diameter ...	8											
Height	1	0										
Altitude ...	829											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	TOTALS
January ...	4.66	2.01	5.37	4.72	4.46	7.97	4.42	4.09	4.78	6.15		76.17
February ...	5.04	5.61	2.17	1.72	3.25	7.11	7.86	1.00	6.03	2.51		17.40
March	1.07	3.01	5.58	5.54	6.17	2.04	4.38	3.53	2.28	6.36		16.55
April	4.77	3.60	1.68	4.04	2.40	2.34	4.32	2.62	1.55	2.32		11.31
May	3.87	1.13	3.08	2.81	3.17	1.51	2.28	1.93	4.02	2.07		10.30
June	3.28	3.50	3.64	2.08	4.12	1.22	4.21	2.09	2.94	1.87		11.11
July	4.31	.41	6.12	1.02	3.94	6.17	2.86	2.13	4.35	3.21		13.15
August	5.60	2.49	8.32	1.60	3.16	3.32	2.03	8.60	2.66	4.07		17.36
September ..	.40	2.77	2.96	3.22	3.65	.99	2.52	2.54	11.00	3.03		19.09
October ...	2.89	3.82	3.97	5.47	4.08	3.08	7.38	7.64	3.70	4.36		23.58
November ..	6.14	6.29	3.51	5.64	7.36	4.81	5.40	6.72	2.40	4.65		19.17
December ...	7.97	7.21	7.25	4.62	9.42	9.59	4.70	3.12	8.79	9.32		25.73
TOTALS ...	50.00	41.85	53.65	42.48	55.18	50.15	52.36	46.01	54.50	57.62		204.39

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.

RAINFALL at Derwent Dale, Howden Dam no. 17County of Derby Observer S.B. Wanser C.E.River Basin 6 - Derwent Derwent Valley W.D.Copper M.O. Rain Gauge, by Cassella 8336vii. 21 }
8.00 } good
8.01 } condition
7.99 }Glass not 2
CS. 1776 correct.

Daily

Diameter ...	8											
Height	10											
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	4.80	12.38	2.51	6.88	Total 68.02
February ...	4.74	6.1	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	4.35	41.40
May	6.58	2.16	1.10	5.29	5.97	4.58	4.00	1.73	1.39	3.39	2.88	39.27
June	4.13	3.6	2.85	1.21	1.98	.08	2.56	5.62	4.73	1.77	4.65	30.99
July	6.36	1.43	4.88	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	5.49	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	60	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	5.88	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	574.59

3. inspected g. 20. vii. 21. W. of reservoir in garden of house. Roof of 10 ft. 6 yds E towards reservoir but sheltered on all sides. Good position.

5. inspected g. 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	Parish Church.	Distance from gauge	Direction

RAINFALL at Derwent Dale (Howden Dam) 17County of DerbyshireObserver S. D. White Esq. C.E.River Basin Trent-Derwent 6Derwent Valley Water Board (1993)Type of Gauge SnowdonAnnual Average 7.7 in. based on 23 years obs. un-weighted. Period of average 1881-1915 Ref. S660619/26 37024/34

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)		Total	54.27
February	7.72	.66	5.67	.32	7.51	3.91	8.23	2.93	4.17	2.69			43.81
March	.37	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	3.49	.59	2.88	3.95			35.77
May	2.64	5.31	2.00	2.55	.61	2.11	3.27	3.85	2.80	1.32			26.46
June	6.18	.99	3.15	1.63	4.04	3.90	1.68	4.01	3.27	1.00			27.25
July	5.20	4.73	3.55	4.18	2.09	5.10	3.78	4.70	8.28	4.05			45.66
August	7.29	1.63	.98	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			62.71
December	2.25	2.46	.80	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	48.73			546.94
	D.	D.	D.	D.	D.	D.	D.	D.	D.	D.			9256

N.B. Inspected X/23. "Station no 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. 2700RAINFALL at Derwent Dale (Horsden Dam) 17

41

County of DerbyshireObserver Derwent Valley Water Bd.River Basin Leant - Derwent 6Type of Gauge StandardAnnual Average 47.7 in. based on 23 years obs. un-weighted. Period of average 1881-1916. Ref. SFile No. 27024/12

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 59.50
February	5.81	2.12	4.12	2.94	6.05	8.29	4.28	3.93	2.94	7.01		47.49
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		35.17
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	2.21	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	.41	5.25	2.64	3.65		39.20
September	.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		41.17
November	4.39	1.88	4.81	8.49	.72	10.93	6.07	2.35	7.88	7.61		55.43
December	3.64	4.63	2.66	4.59	3.76	5.30	5.83	3.82	9.55	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		47.7

1941 Jan. comd. in snow
gauge inspected spring 1949
108 95 95 116 92 127 97 97
102 97 95 120 90 120 100 102
10004

1942 March post estd
by staff of Water Bd. - gauge sound.

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

BRITISH RAINFALL ORGANIZATION

Station No. 2700

RAINFALL at Derwent Dale (Howden Dam) 17

51

County of DerbyshireObserver Derwent Valley Water Bd.River Basin Derwent - 6Type of Gauge HowdenAnnual Average 47.7 in. based on 23 years obs. un-weighted. Period of average 1881-1915 Ref. S50.61 " " 35 " " 1916-1950File No. 370241/34 P

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	2.63	1.73	4.26	7.86	4.3	3.47	36.49
March ...	5.77	2.95	3.60	3.28	4.05	2.28	3.89	3.62	2.45	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	2.85	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	7.47	48.61
August ...	5.09	3.10	4.83	7.55	1.05	9.12	7.20	3.63	9.1	4.61	47.09
September ...	3.17	6.69	2.52	5.29	2.02	4.49	8.24	5.34	1.08	5.08	42.92
October ...	1.10	8.70	2.26	7.58	3.87	3.32	4.51	4.00	4.83	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

Just W. 1854 f. 6.0 ft. Slightly over-sheltered by trees NW-SW. This will not increase much.
No alternative site.
1960 from inch 26A Satisfactory.

(43)

Position of Station on Ordnance One-Inch map :

No. of Map 102National Grid Reference SK 18824

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 - accepted

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	✓	✓	✓	
		228-20	1842-40		