

RAINFALL AT Duddon Valley, Southwaite Tarn

Lat. \_\_\_\_\_

Lon. \_\_\_\_\_

County of Lancashire, North

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

Observer W. B. Ormerby Esq. C.E.  
(Barrow in Furness U.D.C.)Duddon 1

Diameter ....								<u>11</u>			
Height .....								<u>10</u>			
Altitude ....								<u>1200</u>			
Year .....	<u>1900</u>	<u>1901</u>	<u>1902</u>	<u>1903</u>	<u>1904</u>	<u>1905</u>	<u>1906</u>	<u>1907</u>	<u>1908</u>	<u>1909</u>	MEANS.
January ....										5.56	
February ....										6.56	
March .....										3.85	
April .....									2.07	3.52	
May .....									9.19	5.71	
June .....									4.90	4.23	
July .....									4.91	11.85	
August .....									8.31	4.82	
September....									10.21	4.59	
October.....									6.02	15.87	
November....									7.05	2.16	
December ....									8.57	10.18	
TOTALS . . .										83.90	

rec'd VI-16 ent'd 7-16

## RAINFALL at

Duddon Valley

Seathwaite Tarn

County of Lancashire

Observer

W C Perreye Esq. C.E.

River Basin

Duddon &amp; C.

F. Hadden Esq.

Rain Gauge, by Kennedy

Diameter ...						11						
Height .....						10				16		
Altitude ...						1200						
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS. 16-19	
January ...	13.20	5.99	9.75	11.38	8.73	10.92	12.30	4.83 (9.10)		12.01	38.14	
February ...	13.86	8.24	5.51	7.97	13.16	16.38	7.60	1.68 (9.30)		2.35	20.93	
March .....	7.24	5.42	14.36	10.26	8.68	5.65	1.70	3.27 (3.75)		6.75	15.42	
April .....	6.16	6.17	3.93	6.80	6.18	5.60	8.20	3.33 (1.80)		5.93	19.26	
May .....	2.44	6.50	3.87	7.99	5.33	1.96	6.91	5.99 (2.90)		2.32	18.12	
June .....	3.46	3.51	10.42	7.66	1.98	1.45	6.76	3.85 (4.00)		3.81	18.42	
July .....	8.90	3.43	3.78	2.09	6.42	11.90	6.97	3.04 (7.50)		2.39	19.90	
August .....	9.68	5.83	14.07	4.00	8.00	4.13	5.15	16.07 (5.60)		7.41	34.23	
September ..	4.95	8.40	4.23	4.59	5.74	3.51	6.07	9.64 (16.60)		8.10	40.41	
October ...	3.73	3.87	7.40	4.22	4.16	5.46	15.24	15.00 (12.00)		5.15	47.39	
November ..	9.69	16.11	12.98	11.65	10.86	2.42	13.76	14.06 (5.50)		5.75	39.07	
December...	14.71	19.32	9.70	8.03	14.36	12.35	8.37	7.06 (14.00)		19.02	48.45	
TOTALS ...	98.52	92.79	100.00	86.64	93.59	81.66	95.93	87.82 (9.20) NR		50.99	359.74	

1910-14 recd. VI-16 entd. XI-16

1916 Tarn Dam 13.10 high 100 ft E

cpt for 1915 hrs 11% of average

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
			Broughton	7.8m	S	Seathwaite	15m	S

RAINFALL at *Duddon Valley Seathwaite Farm*County of *N. Lancashire*Observer *L. Chadderton Esq.*River Basin *Duddon & C. 1**G. Diamond*  
Eng. & Manager *Barrow Gas Works.*(1925) *Howard* Rain Gauge, by *Kennedy*

Diameter ...	11											
Height .....	1.6											
Altitude ...	1221											
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	<del>1930</del>	
January ...	12.25	14.76	8.69	8.37	8.74	10.48	12.19	10.88	18.71	5.69	15.67	12643
February ...	7.86	2.75	8.50	13.01	8.71	10.39	12.56	8.32	14.13	2.75	1.86	8584
March .....	13.80	11.83	5.00	8.63	3.23	3.20	8.10	13.61	10.63	1.77	4.68	8418
April .....	11.80	5.29	3.27	5.62	5.28	9.47	5.69	7.04	4.87	4.33	4.49	6715
May .....	9.15	6.33	4.59	7.69	10.53	(12.06)	4.71	4.48	1.06	7.39	4.45	7244
June .....	4.60	1.35	5.69	4.86	6.66	(.44)	6.78	7.04	10.11	5.46	4.07	5706
July .....	11.96	3.09	10.73	6.12	9.69	3.92	8.26	7.83	13.92	9.84	6.51	9187
August .....	6.63	13.15	7.19	16.55	9.31	9.42	8.06	8.53	13.87	11.69	15.91	12031
September...	7.91	3.21	9.48	10.96	11.17	8.10	9.89	14.97	7.27	3.73	7.66	9435
October .....	3.86	5.04	3.04	12.78	9.45	13.26	7.92	7.64	12.90	<del>12.39</del>	19.35	10763
November...	5.35	8.43	7.38	15.20	8.88	3.49	16.25	14.99	26.40	22.97	9.51	13895
December...	11.21	15.88	12.05	9.43	15.66	9.03	5.16	1.91	9.23	12.37	9.96	11189
TOTALS...	106.08	91.11	15.61	119.22	102.31	93.26	105.67	107.24	143.10	100.35	104.12	115810
		W		W					W			

1920 Farm Down 13' 10" high 100' E

1923. Monthly totals not adjusted to 1<sup>st</sup> of month

1925. May &amp; June corrected for date of entry.

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
1920			Broughton	7 mi	S	Seathwaite	1 1/2 mi	S



RAINFALL at <sup>2</sup>Duddon Valley (Seathwaite Tarn)County of North LancashireObserver Claude Diamond, Esq.River Basin Duddon & C. - 1.Type of Gauge Snowdon.Annual Average 22.7 in. based on 20 years obs. un-weighted. Period of average 1881-1915 Ref. 5

Diameter	11.				5"						
Height	1.6.				1.0						
Altitude	1221.				1241 √	1250					
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Months Totals
January	16.73	15.22	9.40	13.62	7.45	15.19	11.70	12.00	14.23	5.75	122.19
February	12.82	22	9.95	1.38	14.17	4.01	15.45	5.37	13.30	5.31	81.98
March	1.62	7.46	8.93	5.86	2.80	4.84	7.55	7.09	6.90	11.32	64.37
April	5.52	8.39	5.33	5.45	7.04	5.11	6.17	2.32	6.40	3.55	55.28
May	5.07	7.70	4.27	7.93	.93	1.96	3.56	8.27	1.36	2.25	43.30
June	13.65	4.76	3.38	3.45	7.50	5.61	8.02	10.83	7.03	1.29	65.42
July	12.49	8.70	6.90	3.72	5.36	12.15	5.43	14.81	15.63	9.01	94.20
August	6.63	5.81	10.12	11.56	6.35	6.32	4.91	5.94	3.75	5.76	67.15
September	3.28	10.29	1.45	14.29	14.02	9.06	7.98	6.84	4.20	9.31	80.72
October	9.21	15.86	6.28	15.87	17.16	10.29	5.17	21.46	4.77	11.03	117.10
November	21.66	7.70	4.89	3.41	10.35	10.60	4.42	18.15	15.25	13.24	109.67
December	10.73	13.85	1.24	15.44	8.92	15.22	8.95	9.81	3.73	13.96	101.85
TOTALS	119.31 W.	105.96 W	72.14 W	101.58 W	102.05 W.	100.36 W	89.31 W	123.89 W	96.55 W	91.78 W	1003.23 W

1932. Dam 14' high, 100' E. Inspected 1924:- Recommended that a standard gauge be set up in site selected and surrounded by a turf wall; the old gauge to be abandoned at the end of the year.

1930. No readings Dec 28-31 recd. Estimated values 1.00" approx. by observing authority.  
 1935 New standard g. set up & brought into use at new site, 210' E of original site, with turf wall 10' high 310' W. old g. discontinued from 31/12/35  
 1935 Jan 20 10' high 310' W. 1935 "New gauge made 1935" and "Turf wall made 1935"  
 2 Turf wall round gauge (footnote BR)

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
1932.			Broughton	7 m.	S.	Seathwaite	12 m.	S.

RAINFALL at § Duddon Valley (Seathwaite Tarn) Station No. R.F. 3022  
 County of North Lancashire Observer Clairmont Diamond Esq. Revised 1944  
 River Basin Duddon & C-1 Engineer Boston  
 Type of Gauge Standard WATER FOR USE OF BARROW

41

Annual Average 22.7 in. based on 20 years obs. un-weighted. Period of average 1911-1915 Ref. S

File No. 11155631

Diameter	5"			589	293						
Height	1' 0"				1						
Altitude	1221'				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means Totals
January	4.87	12.01	17.20	13.40	9.05	12.11	11.22	18.31	10.55	7.75	116.47
February	13.62	3.93	7.25	5.70	10.63	9.79	2.07	7.59	6.10	12.40	79.08
March	5.91	8.37	3.08	1.40	6.15	5.30	16.55	5.66	8.55	6.55	67.52
April	4.91	6.11	6.00	6.20	5.97	2.79	9.47	5.15	12.20	6.45	65.25
May	8.16	7.20	7.48	3.40	6.75	1.01	5.15	4.33	4.03	4.65	52.14
June	1.68	2.20	6.80	3.10	7.22	8.42	5.90	12.16	2.38	5.75	61.61
July	4.40	2.25	7.15	5.47	9.53	8.43	6.52	7.31	4.74	7.70	70.50
August	11.03	10.45	5.15	8.68	3.35	8.30	2.20	10.40	6.25	11.70	85.51
September	1.61	10.25	12.70	12.75	9.10	17.79	5.87	11.15	4.91	21.10	107.23
October	13.44	15.32	11.75	9.85	10.04	1.35	2.20	9.20	13.35	9.00	95.50
November	7.40	2.94	6.55	15.45	9.5	17.70	13.97	7.80	12.50	7.31	92.57
December	7.76	15.40	5.65	11.55	7.81	12.83	6.08	9.50	15.35	4.68	96.63
TOTALS	84.81 W	103.43 W	106.74 W	102.95 W	86.55 W	105.82 W	85.20 W	108.56 W	100.91 W	105.04 W	990.01 ✓

1941 Jan p't adjusted from neighbouring obs.

§ Turf wall round gauge

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			Barrow Central					

Station No. 3022

TF 37

RAINFALL at 3 Suddon Valley (Kathwaite Farm)

51

County of N. LancashireObserver Water Engineer, Barrow.River Basin Suddon & C-1Type of Gauge Knobson OctapetAnnual Average 97.5 in. based on 17 years obs. un-weighted. Period of average 1881-1915 Ref. S.P. 591100.32 " " 35 " " 1916-1950File No. 1916-1950  
111.556/31

Diameter ...	5"			589	293					5"	
Height ...	1' 0"				1					1' 2"	
Altitude ...	122'				51					1240'	
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means Total
January ...	12.75	7.72	6.89	7.97	6.37	8.07	10.57	11.65	5.10	14.20	91.29
February ...	11.32	4.55	6.10	8.72	5.10	1.86	9.58	11.50	4.90	14.15	77.78
March ...	9.33	7.40	1.15	7.69	3.92	3.02	7.85	4.35	7.10	3.65	55.46
April ...	5.30	6.07	5.96	3.21	5.93	2.02	3.10	4.20	7.25	6.75	49.79
May ...	3.84	5.63	4.77	4.99	5.97	5.34	5.20	6.50	1.85	14.75	48.84
June ...	2.25	7.00	3.56	11.04	7.23	4.52	4.10	5.70	6.37	3.95	55.72
July ...	8.00	7.90	12.54	11.15	4.01	8.10	9.25	6.20	6.33	15.05	88.53
August ...	10.05	12.00	12.11	11.73	3.24	15.95	9.10	8.25	1.65	7.25	91.33
September ...	13.20	7.99	15.96	13.90	7.53	7.95	13.35	10.25	2.00	7.20	99.33
October ...	1.63	5.99	3.27	16.25	5.95	11.05	10.40	11.25	10.90	6.10	82.79
November ...	18.90	5.50	16.80	19.16	5.05	5.15	5.75	3.65	12.20	17.35	109.51
December ...	18.75	10.65	8.27	14.72	12.50	11.75	11.65	8.85	18.90	8.95	124.99
TOTALS ...	115.32	88.40	97.38	130.53	72.80	84.78	99.90	92.35	84.55	109.35	975.36
	W	W	W	W	W	W	W	W	W	W	

Inspected 7.9.60 by Stollmutter. 3 only read on Fridays. 0 of NW → NE otherwise reasonable.

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference SD(34) 249984

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
	10-17, 19	✓	✓	✓	