

RAINFALL at Alpha No.1 and Alpha, Duddon Banks.  
 Cumberland (1935)  
 County of North Lancashire } 1934 Observer Claude Diamond, Esq.  
 River Basin Duddon &c - 1 }  
 Standard + c = 4 (1926)  
 Type of Gauge Standard.

Annual Average 44.5 in. based on 11 years obs. unweighted. Period of average 1881-1912 Ref.

**ULPHA No.1 44-589357**

**ULPHA 44-589358**

Diameter	11.	NGR SD 209947		5"	NGR SD 209947						
Height	1.6.	Alt 251ft		1.0	Alt 255ft						
Altitude	251.			251							
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Mean
January	8.05	7.90	5.26	8.21	5.10	10.24	8.23	10.48	11.78	(5.68)	8093
February	7.15	7.20	5.83	5.58	11.16	3.23	13.06	4.09	9.68	2.81	5779
March	1.02	5.49	5.00	5.48	2.08	5.85	4.87	3.53	7.30	8.29	4891
April	4.33	5.34	3.29	3.88	6.54	1.37	5.22	1.25	5.05	3.99	4026
May	3.44	5.96	3.51	4.37	1.26	1.26	2.65	7.33	1.11	1.41	3230
June	7.81	2.59	4.51	2.25	5.45	5.80	4.54	8.03	5.47	1.55	4803
July	7.05	6.59	5.41	1.86	4.21	7.65	4.44	12.09	11.53	7.84	6867
August	4.04	1.59	4.58	6.50	4.16	5.84	5.93	5.16	3.26	3.46	4512
September	2.65	7.78	1.05	8.48	12.39	7.61	6.39	6.60	3.67	7.95	6447
October	4.65	12.17	5.29	9.15	12.60	4.02	3.90	17.18	3.34	8.54	9389
November	18.49	3.78	3.62	2.15	7.48	10.22	2.96	12.98	10.81	10.37	7206
December	7.31	6.74	2.01	10.80	7.96	10.51	6.69	8.39	4.44	11.61	7651
TOTALS	70.89	66.33	49.36	63.71	80.39	76.60	68.91	97.81	77.49	73.45	72494
	D	D	D	D	D	D	D	D	D	D	

1932 Wall 5' high 55° 12' S 5° N. Inspected 1934:- Exposure unsatisfactory. Recommended that a standard gauge be set up in a curb wall on site selected on the other side of the river, and that comparative readings be taken until the end of the year when the old gauge should be abandoned.

1933 Standard g. alt 40 ft brought into use at new site 150' W of old site from Mawson's 1/4 to Cumberland 1/4

1935 Gauge house 10' high 140° E

1935 Surf well open and g. - broken in B.R.  
also frostbite " formerly in N. houses "

(Carrow R. Shapland) - continuation -  
old g. discontinued from 3/11.

1940 Jan. part std.

N.B. Rejected from survey as 10° by law.

(Continued overleaf)

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	Parish Church.	Distance from gauge
1932.			Broughton	4 m. S.	Alpha	2 m. S.

Station No. T.F. 3658/5

RAINFALL at Ulpha, ~~Doddon Works~~

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County of Cumberland

Observer Claude Diamond Esq.

River Basin Duddon &amp; C. - h.

The Tenant, Barrow.

Type of Gauge Hanwell

WATER ENTHUSIAST, Barrow

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

File No. 11156/3

Diameter	5"			589	358						
Height	1' 0"					1					
Altitude	251'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	3.50	12.46	14.13	9.67	6.64	12.04	8.96	3.89	7.13	6.14	93.96
February	6.91	3.79	6.05	4.02	8.27	6.46	1.96	6.84	6.93	7.99	51.22
March	4.78	6.75	2.33	1.14	5.09	4.15	13.23	4.61	5.58	5.87	53.53
April	3.89	3.48	4.74	4.52	4.05	2.44	7.83	4.36	8.11	5.66	49.07
May	5.33	5.54	6.27	4.53	5.33	1.97	5.05	3.74	3.55	2.92	44.23
June	9.4	1.55	5.54	7.75	6.18	7.10	4.37	10.00	1.22	4.46	49.11
July	3.01	6.75	5.37	4.51	5.64	7.36	5.03	5.09	4.16	6.44	53.36
August	8.27	8.69	12.72	6.88	2.20	6.54	1.12	8.29	4.56	11.32	69.59
September	3.13	7.46	10.11	10.35	6.93	12.45	6.18	8.85	3.73	17.47	86.66
October	9.25	10.78	9.04	9.09	8.43	1.30	1.35	7.47	10.17	7.56	74.44
November	5.29	2.50	6.30	12.18	7.3	14.66	10.71	6.86	10.25	7.25	76.73
December	5.42	11.32	4.50	7.68	6.06	11.20	5.29	8.31	11.29	4.72	75.79
TOTALS	59.72	81.07	87.10	82.32	65.56	81.67	70.08	86.30	75.68	87.80	783.69

8 Turf wall round gauge.

Hyd. Sta. No. 444 - 589358  
 NGR SD (34) 209947      } Adapted for Rainmaster  
 Alt 255ft. 78m      } Oct. 1975.

Retro (1935): Addition to name. Cards being received as 'Doddon Works'.  
 i.e. name amended from 'Ulpha' to 'Ulpha, Doddon Works'.

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	Parish Church.	Distance from gauge

BRITISH RAINFALL ORGANIZATION

Station No. 3658/5 15

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RAINFALL at 3 Ulpha, Duddon WoodsCounty of Cumberland Observer Water Engineer, Barrow.River Basin Duddon & C. - 4.Type of Gauge Howard M. Mk IIAnnual Average 77.7 in. based on 17 years obs. un-weighted. Period of average 1887 - 1915. Ref. P.B. 591\* " 80.47 " " 22 " " within 1936-57 " " 1916-50 " " File No. 111556/31

Diameter ...	5"				589	358				5"
Height ...	1' 0"						1			6"
Altitude ...	251'						51			255'
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
January	8.81	7.32	6.21	6.54	6.08	6.23	8.40	10.03	4.84	12.67
February	8.58	3.28	2.94	6.97	2.92	1.07	7.15	12.35	3.11	14.32
March	7.72	6.84	1.27	6.58	2.97	2.80	6.51	2.51	5.24	2.38
April	3.74	5.77	5.49	2.01	4.95	1.31	2.17	2.68	4.94	6.13
May	3.53	4.26	3.75	4.59	6.24	4.89	5.10	5.68	1.59	4.37
June	1.72	5.68	3.18	7.92	5.28	3.21	3.24	4.73	5.00	3.29
July	6.41	4.94	9.73	9.16	4.43	8.18	7.38	5.63	4.75	11.66
August	9.17	9.19	8.17	8.63	3.35	14.21	6.83	9.01	.90	6.73
September	10.73	5.50	11.37	11.84	5.88	5.69	13.17	9.11	1.96	5.93
October	1.47	6.81	3.55	16.46	4.61	8.20	9.32	8.90	9.51	5.19
November	14.70	3.35	14.87	18.02	4.24	3.07	4.29	3.28	9.94	14.15
December	14.26	9.39	6.16	10.49	10.70	11.32	10.57	6.77	15.30	8.35
TOTALS ...	90.84	72.33	76.69	109.21	60.65	70.30	84.13	81.28	66.98	95.17
	D	D	D	D	D	D	D	D	D	D

Inspected 15.9.60 by H. H. Butler. Inf. well not completely reliable. " - centre area " filled in to some extent.  
0.1 to SSW - added from river embankment.

Retro (1935): Addition to name. Cards being received as 'Duddon Woods' : name amended from 'Ulpha' to 'Ulpha, Duddon Woods'.

3 Turf Wall.

Position of Station on Ordnance One-Inch map : No. of Map ..... National Grid Reference SD (34) 209947

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

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓ ✓ but - 19	✓ ✓ but - 21	✓ * 1935. ✓	✓ ✓	