

Rainfall at Hallsteads

7358

Diameter of Gauge, in. Height above Ground, ft. in. Above Mean Sea Level, ft.

YEAR - -	1820	1821	1822	1823	1824	1825	1826	1827	1828	1829	MEANS
January - -	4.13	4.15	2.26	2.40	5.07	7.74	4.09	6.25	9.08	.93	4.610
February - -	1.98	2.00	11.92	7.33	4.63	5.02	17.40	5.19	1.98	1.10	5.855
March - -	2.72	5.10	11.59	3.65	7.56	3.21	4.66	11.79	3.15	2.46	5.589
April - - -	1.44	6.77	3.22	2.80	5.90	.66	3.21	2.42	3.52	5.94	3.588
May - - -	5.87	4.12	5.15	8.54	1.22	3.12	1.01	5.63	2.99	2.77	4.042
June - - -	2.74	1.54	.33	2.92	2.51	4.27	.59	5.85	2.77	5.15	2.667
July - - -	2.60	2.59	6.96	7.04	1.84	3.70	2.82	2.80	6.05	5.76	4.216
August - -	6.36	3.79	5.71	5.48	2.09	5.46	4.09	5.68	5.81	8.18	5.265
September -	4.15	8.15	4.12	6.02	6.14	6.29	5.17	5.28	2.35	4.09	5.176
October - -	4.59	7.66	10.31	10.05	7.37	6.71	4.91	7.47	4.58	6.12	6.977
November -	3.96	8.24	17.79	4.45	15.64	9.17	5.24	3.56	7.50	2.82	7.837
December -	4.31	11.79	4.84	13.35	14.19	5.15	6.56	16.96	12.19	4.05	9.339
TOTALS -	44.85	65.90	84.20	74.03	74.16	60.50	59.75	78.88	61.97	49.37	65.361

c c c c c c c c c c

RAINFALL AT Hallsteads Old Church

Cumberland York

Master Stephen A. Marshall Esq.

Side-tube Rain { By
 Gauge Diameter 10 in. ? Height above Ground, 5 ft. ? in. Above Mean Sea Level ft.
 "new" 1835

YEAR.....	1830	1831	1832	1833	1834	1835	1836	1837	1838	1839	MEANS.
January.....						4.90	6.20	2.20	1.50	5.30	
February.....						12.20	3.30	8.70	1.20	7.20	
March.....						5.00	8.90	2.00?	3.30?	5.50	
April.....						2.30	3.70	2.00?	2.50?	1.60	
May.....						4.00	6.0	1.60	4.20?	.80	
June.....						2.10	7.70	3.50	4.60?	2.20	
July.....						4.60	7.10	3.30	4.90?	10.70	
August.....						2.60	5.30	3.90	5.30?	6.20	
September.....						9.50	5.10	2.60?	2.40?	11.30	
October.....						5.10	4.80	7.30?	9.50	2.10	
November.....						7.30	7.80	5.70?	9.30	3.40	
December.....						2.10	7.20	5.00?	5.10	5.90	
TOTALS.....						61.70	67.10	47.80	53.80	62.20	

1835. Partly est^d for S.

1838 Mar - Aug. tube cracked

1837 months queried evidently suspicious. ? tube cracked.

Copied from original register by Mr S.A. Marshall.

Rec'd. XII 98 Entd 1. XII - 08

Ullswater

Rainfall at Hallsteads

30

Y358

Imp Rec

Diameter of Gauge, in. Height above Ground, ft. in. Above Mean Sea Level, ft.

YEAR - -	1830	1831	1832	1833	1834	1835	1836	1837	1838	1839	MEANS.
January - -	2.11	2.31	3.26	4.9	21.428	3.00	7.40	2.10	1.80	5.10	
February - -	5.41	7.68	5.26	11.62	6.820	11.90	4.00	8.90	1.10	7.10	
March - - -	5.59	11.00	5.94	3.43	7.920	4.20	8.60	2.40	4.20	5.30	
April - - -	3.91	3.04	2.16	3.08	1.452	1.50	4.90	2.10	2.40	1.40	
May - - -	3.03	.59	1.69	3.59	1.188	3.70		1.70	4.30	.70	
June - - -	7.26	4.02	4.18	8.43	4.950	2.30	7.70	3.50	4.70	2.20	
July - - -	6.38	4.86	2.46	1.83	3.850	4.30	7.30	3.40	5.10	10.60	
August - -	7.24	6.07	4.11	2.38	5.346	2.60	5.20	3.90	6.30	6.20	
September -	12.50	5.74	2.18	4.64	3.938	10.40	4.70	2.90	2.30	11.20	
October - -	7.34	20.44	11.57	6.64	4.818	5.30	3.50	8.40	9.30	2.20	
November -	16.92	7.79	7.06	8.84	8.00	8.80	8.40	7.20	9.00	3.50	
December -	2.20	12.96	8.65	19.84		2.50	8.20	6.70	5.20	5.80	
TOTALS -	79.69	86.50	58.52	74.81	69.71	60.50	69.90	53.20	55.70	61.30	170.03

c c c c

"Note in the observers book"

"July 1833 the gauge was found to let water in from outside
of funnel. Supposed about 7%." "This is unsettling. Presumably
the gauge was set right (though a new gauge seems to have
been used from Jan 1835) but how long had it been wrong?"

S.A. Marshall 14-12-96.

RAINFALL AT Hallsteads "The Knotts" S.W.

Lumberland

Rev
Observer Stephen A. Marshall Esq

Rain { By
 Gauge } Diameter.....in. Height above Ground,.....ft.....in. Above Mean Sea Level.....ft.

YEAR.....	1830	1831	1832	1833	1834	1835	1836	1837	1838	1839	MEANS.
January.....											
February.....											
March.....											
April.....											
May											
June.....											
July											
August											
September.....											
October.....											
November.....											
December.....											
TOTALS							36.30	46.20	32.40	32.90	39.60

From original, Rev S.A.M. XII q. Encl. P.XII.08.

Apparently worthless es.

RAINFALL AT Hallsteads, "The Knotts" "old top"
Cumberland

from Stephen A. Marshall Esq.

Rain { By
Gauge { Diameter.....in. Height above Ground,.....ft.....in. Above Mean Sea Level.....ft.

YEAR.....	1830	1831	1832	1833	1834	1835	1836	1837	1838	1839	MEANS.
January.....											
February.....											
March											
April.....											
May											
June.....											
July											
August.....											
September.....											
October.....											
November.....											
December.....											
TOTALS							33.40	40.10	29.40	28.80	38.00

From originals by S.A.M. XII 98 Ent'd XII 08

Apparently worthless as.

RAINFALL AT Hallteads "The Knots" ^{top}
lumberland

for Stephen A. Marshall Esq.

Rain { By
 Gauge }
 Diameter in. Height above Ground, ft. in. Above Mean Sea Level ft.

YEAR.....	1830	1831	1832	1833	1834	1835	1836	1837	1838	1839	MEANS.
January.....											
February.....											
March.....											
April.....											
May											
June											
July											
August											
September.....											
October.....											
November.....											
December.....											
TOTALS						53.90	68.50	48.30	50.30	59.50	

from originals by S. A. M. XII 98

Ent'd I. XII 08.

RAINFALL AT Hallsteads "The Knotts" N.E.
Cumberland

Dear Stephen a Marshall Esq

Rain { By
 Gauge Diameter.....in. Height above Ground,.....ft.....in. Above Mean Sea Level.....ft.

YEAR.....	1830	1831	1832	1833	1834	1835	1836	1837	1838	1839	MEANS.
January.....											
February.....											
March.....											
April.....											
May											
June											
July											
August.....											
September.....											
October.....											
November.....											
December.....											
TOTALS							57.30	71.10	50.10	52.30	61.90

From originals per S. a.m. xii 98 Int? I xii .08

RAINFALL AT Hallsteads

Cumberland

Entered Stephen A. Marshall Esq.

Rain Gauge { By
 Diameter.....in. Height above Ground,ft.....in. Above Mean Sea Levelft.

YEAR.....	1840	1841	1842	1843	1844	1845	1846	1847	1848	1849	MEANS.
January.....	9.70	3.20	3.50	7.80	3.50						
February.....	5.40	3.70	5.80	1.90	2.40						
March.....	.60	7.60	6.40	1.80	5.00						
April.....	.40	3.80	.70	7.10	1.70						
May	2.50	4.80	3.80	3.40	.00						
June	4.50	2.70	5.60	5.80	3.00						
July	5.50	3.30	5.60	6.10	4.10						
August	5.00	5.60	3.20	3.20	4.00						
September.....	6.80	5.70	2.40	.40	4.20						
October	1.10	8.40	2.60	8.50	4.30						
November.....	6.30	4.70	8.10	8.80	1.90						
December.....	.90	7.40	6.40	2.60	1.00						
TOTALS....	48.70	60.90	54.10	57.40	35.10						

(?) For continuation of this record see previous sheet

Copied from original registers

Sent by Mr S.A. Marshall, xii. 98 Ent'd 1. xii. 08

RAINFALL AT HalsteadUllswater

Rain { By
 Gauge } Diameter..... in.

Height above Ground, ft. in. Above Mean Sea Level, ft.

YEAR.....	1840	1841	1842	1843	1844	1845	1846	1847	1848	1849	MEANS.
January	9.90	3.10	3.60	8.00	3.70	5.50	3.50	4.30	3.80	6.20	5.160
February	5.60	3.70	6.00	1.80	2.60	6.60	4.60	2.30	10.50	2.60	3.980
March	6.60	7.80	6.60	1.90	4.90	2.50	7.80	1.90	3.90	1.70	3.960
April	4.40	3.70	.80	7.20	1.70	4.10	3.20	3.20	2.70	1.80	2.880
May	2.40	4.90	3.90	3.60	0.00	2.20	1.90	5.20	1.50	2.20	2.780
June.....	4.60	2.80	5.70	6.00	2.90	4.50	4.80	2.40	6.20	3.30	4.020
July	5.50	3.30	5.70	6.30	4.30	3.80	7.00	1.70	4.70	4.10	4.640
August	5.00	5.70	3.30	3.40	4.20	6.20	3.90	3.10	3.80	5.00	4.360
September	7.00	5.80	2.50	1.30	4.30	4.50	3.00	4.40	3.90	5.30	4.100
October.....	1.20	8.50	2.70	8.60	4.30	5.80	10.80	8.90	5.40	8.30	6.450
November.....	6.10	5.00	8.00	8.70	2.00	6.20	5.30	10.30	4.00	8.30	6.390
December.....	1.00	7.60	6.60	2.70	1.00	6.70	1.30	9.20	10.80	2.00	4.890
TOTALS	49.30	61.90	55.40	58.50	35.90	52.60	57.10	56.90	61.20	47.80	53.610

c c c c c c c c c c c

1841 corr sent by Stephen Marshall 12 xii 98 Ent² 1. xii 08

* Mr Marshall says these obs. were at Oldchurch (in
Hallstead Park) 1835-44. The remainder probably
should be on the next sheet (Halstead).

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RAINFALL AT Wallstead "The Knotts" S.W.
Lumberland

Master Stephen a Marshall Esq

Rain { By
Gauge Diameter.....in. Height above Ground,.....ft.in. Above Mean Sea Level.....ft.

YEAR.....	1840	1841	1842	1843	1844	1845	1846	1847	1848	1849	MEANS.
January.....											
February.....											
March											
April.....											
May											
June											
July											
August.....											
September.....											
October.....											
November.....											
December.....											
TOTALS	33.20	38.90	28.10	36.10	25.00						

From originals per S.A.M. XII. 98. Entd. 1.XII. 08.

Apparently worthless. cs

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RAINFALL AT Hallheads, "The Knots", "old top"
Cumberland

From Stephen A. Marshall Esq.

Rain { By.....
Gauge } Diameter.....in. Height above Ground,ft.....in. Above Mean Sea Level.....ft.

YEAR.....	1840	1841	1842	1843	1844	1845	1846	1847	1848	1849	MEANS.
January.....											
February.....											
March.....											
April.....											
May.....											
June.....											
July.....											
August.....											
September.....											
October.....											
November.....											
December.....											
TOTALS	30.20	37.30	24.60	32.40	22.60						

From originals by S.A.M. xii 98 Ent'd xii 08

Apparently worthless cs.

RAINFALL AT Hallsteads, "The Knotts" top
Cumberland

Pioneer Stephen A. Marshall Esq.

Rain	{ By.....										
Gauge	{ Diameter.....in.										
		Height above Ground,.....ft.....in.									
											Above Mean Sea Level.....ft.

YEAR.....	1840	1841	1842	1843	1844	1845	1846	1847	1848	1849	MEANS.
January.....											
February.....											
March.....											
April.....											
May.....											
June.....											
July.....											
August.....											
September.....											
October.....											
November.....											
December.....											
TOTALS	51.00	57.10	44.80	52.20	35.10						

From originals by S. A. M. xii. 98 Ent'd 1. xii. 08

RAINFALL AT Hallteads "The Knots" NE.
Cumberland

Mr. Stephen A. Marshall Esq.

Rain { By.....
Gauge } Diameter.....in. Height above Ground,.....ft.....in. Above Mean Sea Levelft.

YEAR.....	1840	1841	1842	1843	1844	1845	1846	1847	1848	1849	MEANS.
January.....											.
February.....											
March											
April.....											
May											
June											
July											
August.....											
September.....											
October											
November.....											
December.....											
TOTALS	57.80	54.40	47.60	51.00	32.20						

From originals, by S.A.M. XII 98. Int. I. XII. 08.

RAINFALL AT Holstead

Rain { By
 Gauge } Diameter.....in.

Height above Ground, ft. in. Above Mean Sea Level, ft.

YEAR.....	1850	1851	1852	1853	1854	1855	1856	1857	1858	1859	MEANS
January	3.00				3.50	8.10	1.50	2.60	5.20	4.00	
February	7.80				1.30	9.30	1.00	2.00	0.00	2.00	
March	1.10				0.00	2.10	2.60	3.90	1.40	7.90	
April					1.20	3.40	4.10	1.40	1.10	1.20	
May						2.20	1.30	2.20	1.30	3.50	0.00
June.....						1.10	1.60	3.40	3.00	.40	1.60
July					2.40	6.70	3.00	3.80	3.80	4.70	3.70
August					2.00	3.00	2.30	5.00	3.00	3.00	5.10
September ...					3.50	3.30	3.90	4.50	3.20	5.60	5.90
October.....					6.60	5.40	1.90	4.00	2.80	3.80	3.20
November.....					4.60	8.80	3.40	3.00	4.70	1.40	5.80
December.....					5.40	3.70	3.20	9.70	7.10	9.40	7.20
TOTALS						38.20	43.50	44.80	38.80	39.50	47.60

Hallshead Penwith
6 miles from Poldedale

Robt Sinclair

Place No. 4666

68 - 6 in + ground 4 ft. + Sea Level 334 ft.

200 60
438 64

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	6.10	3.20	4.70	10.80	7.30	3.40	12.40	5.10	9.90	7.00	6.990
February - -	1.20	8.00	1.50	1.60	2.70	2.20	7.00	5.10	9.00	11.30	4.960
March - - -	5.10	5.40	4.50	3.40	4.00	2.50	3.00	3.40	6.30	.50	3.810
April - - -	1.20	0.00	5.40	1.50	2.20	0.00	4.80	7.60	6.10	2.50	3.430
May - - - -	3.20	0.00	4.0	3.50	2.00	4.20	3.20	5.10	2.20	1.70	2.910
June - - - -	5.70	3.50	6.50	5.40	4.00	6.70	3.00	1.00	.00	1.10	3.490
July - - - -	1.60	5.50	4.90	2.20	3.10	3.60	2.20	4.20	1.60	1.90	3.080
August - - -	5.90	6.50	4.80	2.10	1.60	4.70	5.00	3.40	6.60	1.10	4.170
September - -	2.80	7.80	3.00	10.90	10.40	1.00	11.30	4.40	3.90	10.30	6.580
October - -	8.40	6.20	13.60	8.20	5.50	7.30	1.20	6.00	6.50	3.00	6.590
November - -	2.70	9.30	1.00	3.80	8.20	6.90	11.80	.50	6.10	6.90	5.620
December - -	3.00	4.50	9.30	8.50	4.40	0.50	3.40	2.40	11.00	10.00	6.500
TOTALS -	46.90	59.90	63.20	64.90	55.40	49.00	67.30	48.20	69.20	57.30	58.150

c c c v c c c c c c

1863 Dec. 5.80 and total 62.20

1865 March 3.30; April .70; May 6.70; June 1.10 July 3.20 Sep. 1.20 Oct. 7.10
Nov. 7.9 Dec. 7.50 total as above.

On low level will exposed

RAINFALL AT Ullswater Hallsteads.

Lat..... Lon..... County of... Cumberland
 Rain Gauge, by..... Observer ... Arthur Marshall Esq

Diameter	/10										
Height	4										
Altitude	490										
YEAR	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	7.60	5.90	11.90	13.30	6.80	9.30	4.00	10.40	5.10	1.20	7.550
February	5.10	3.70	8.50	1.20	5.00	1.40	4.70	3.60	4.10	4.40	4.170
March	1.50	5.20	5.00	2.70	4.30	4.00	3.60	3.00	1.80	2.30	3.340
April.....	2.70	1.80	2.00	2.0	3.00	1.50	1.40	2.70	3.50	4.70	2.350
May	6.20	1.10	2.90	1.50	2.00	2.80	1.00	4.10	8.00	1.20	3.080
June.....	1.90	2.20	4.60	1.70	1.50	3.60	3.90	4.80	2.90	6.40	3.380
July.....	7.20	4.80	3.50	5.80	2.30	3.10	1.80	7.20	1.20	5.50	3.640
August.....	1.50	4.00	4.70	5.20	9.60	2.70	4.80	6.70	5.00	7.00	5.120
September.....	5.70	4.00	6.70	2.80	8.50	6.30	4.20	2.20	7.20	5.70	5.330
October.....	10.40	3.60	10.00	7.20	14.70	7.60	3.00	9.70	7.00	2.40	7.660
November.....	3.50	1.30	8.80	3.10	4.20	5.20	2.50	10.70	2.30	2.50	4.410
December.....	2.70	7.50	9.20	4.10	1.70	6.30	8.50	6.30	3.80	4.00	5.410
TOTALS	50.00	45.10	77.80	48.80	63.60	53.80	43.40	71.40	51.90	47.30	55.310

C C C

RAINFALL AT ~~Ullswater, Hallstead~~ 80

Lat.

Long.

County of Cumberland

Rain Gauge, by

Observer A. Marshall, Esq.

Eden & Solway - 1.

Diameter	10									5
Height	4.0									2.-
Altitude	490 T									497 T
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889
										MEANS.
January	3.60	3.0	5.90	12.90	9.00	3.70	2.40	4.95	2.91	2.95
February	7.10	3.70	6.50	9.00	7.30	8.40		3.42	.90	2.36
March	2.40	4.40	4.50	2.60	6.50	4.10		1.80	3.38	2.39
April	4.90	3.00	3.20	2.40	1.60	3.70	2.60	3.70	2.73	3.02
May	1.30	4.00	3.50	1.90	1.80	3.20	6.30	1.75	3.41	4.22
June	2.20	4.00	4.70	3.10	1.10	1.30	1.30	.27	1.29	.89
July	5.20	4.10	7.50	3.80	6.90	1.40	5.20	3.82	6.36	4.24
August	1.40	6.30	4.20	4.60	1.40	3.50	1.50	2.37	3.87	3.88
September....	4.00	3.00	7.70	6.30	5.50	6.80	7.30	5.42	1.02	2.30
October.....	2.40	2.60	3.70	6.20	3.80	7.50	7.20	2.55	7.76	7.20
November....	7.40	8.60	7.20	8.40	3.20	2.80	5.00	3.90	9.17	2.00
December....	6.10	5.80	4.20	5.00	6.10	1.60	4.30	5.45	6.79	4.15
TOTALS.....	48.00	49.80	63.50	66.20	54.20	48.00		39.40	49.59	39.60

1886 Gauge leaky in February + March

RAINFALL AT Hallsteads, Cumberland
(Gauge in Kitchen garden)

Observer W. Thompson (gardener)

Rain By

Gauge Diameter 5 in. Height above Ground..... 7 in.

Above Mean Sea Level..... ft.

(gauge B is higher than gauge A & B
is mounted below A)

Cards & Solway - 1.

YEAR.....	8	1894	1895	1896	1897	1898	1899	MEANS.
January.....		2.79	2.78	1.89	3.46	10.81		
February		-1.75	3.51	4.77	6.33	6.65		
March		5.49	7.82	9.51	1.64	4.48		
April		<u>New</u>	3.37	2.52	2.97	5.59	4.15	
May		5.25	-1.81	-1.44	2.35	2.80	4.59	
June		2.40	1.27	3.89	3.55	2.97	-1.99	
July		3.32	6.16	3.73	1.64	1.70	4.88	
August		4.79	5.44	2.46	9.22	5.58	1.09	
September		-1.38	2.00	7.85	5.43	2.19	6.12	
October		6.73	5.26	8.14	4.65	4.40	4.22	
November		10.42	9.16	2.00	5.91	6.72	10.18	
December.....		6.92	5.90	6.64	13.90	10.60	3.27	
TOTALS.....		—	48.40	51.80	65.79	53.98	61.43	

The gauge which has for some years, - I have not made out how long - been sent to Mr. Simons as "Hallsteads" was ~~is~~ what the gardener calls "in the Park"; nearer to Old Church (which belongs to Hallsteads) than to the actual house Hallsteads, & I am not quite sure that the older records were of the same gauge.

(say gauge A)

The gauge "in the Park" also was originally a $10\frac{1}{2}$ diam. about 4 ft. high, but for this the late Mr. Arthur Marshall (who died Dec: 1/93) substituted a $5\frac{1}{2}$ diam. mounted 18 in above ground level, say gauge B

This latter gauge I entered on my monthly cards till Aug 1898.

In the mean time, ~~&~~ the gauge "in the Park" having once been tampered with, the gardener put in Hallsteads kitchen garden an old $5\frac{1}{2}$ gauge found among Mr. Arthur Marshall's things, & bears it daily. The above is its record.

Gauge B having broken down in Aug: 1/98 I thought the best I could do was to use the record of C, though it is ^{completely} untrustworthy than that of B

Stephen A. Marshall. 15 July 99.

RAINFALL AT Ullswater Hallsteads

Lat.

Long.

County of Cumberland

Rain Gauge, by

Observer

A Marshall Esq

Eden & Solway - 1

Diameter	5									
Height	2 0									
Altitude	497T									
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899
										MEANS.
January	10.93	4.37	4.00	2.33	8.46	2.54	2.95	2.10	2.50	
February	1.30	.25	2.30	5.98	9.07	.45	3.51	4.46	5.90	
March	3.30	2.50	1.07	2.06	(4.20)	5.95	7.70	8.28	1.40	
April	1.31	3.40	1.37	.49	2.18	3.04	2.36	2.70	5.20	
May	3.10	2.60	3.80	1.65	4.95	.90	.45	2.34	2.60	
June	3.11	2.26	3.94	2.46	2.17	1.16	3.74	3.15	2.70	
July	3.30	3.91	2.78	3.69	3.28	5.40	3.77	1.43	1.65	#
August	5.05	9.67	7.55	5.06	4.60	5.50	2.71	9.04		
September	4.40	9.34	7.75	3.99	.34	2.10	5.70	5.20		
October	2.72	9.45	7.20	4.92	5.90	4.32	6.01	4.43		
November	5.00	7.30	4.58	3.45	9.81	8.13	1.95	5.31		
December31	11.82	1.24	8.23	6.41	5.16	5.20	13.60		
TOTALS	43.83	66.87	47.58	44.31	(61.37)	44.65	46.05	62.03		

1894 March gauge tampered with, amount computed.

Letter from S.A. Marshall dated 14-12-96.

"The old gauge at Hallsteads having been tampered with in
March 1894, the gardener (Thompson) started a new (5") "gauge in the kitchen garden perhaps half a mile from the "old one" & a good deal higher up."

1898 Gauge broken down - New one in Kitchen garden

RAINFALL AT Ullswater Hall teado.

Lat.

Lon.

County of Cumberland

Rain Gauge, by

Observer S. A. Marshall Esq

Eden - 1.

Miss F. Marshall

Diameter ..	5										MEANS.
Height	20										
Altitude ..	4971										
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	
January ..	6.44	4.20	4.03	10.68	8.98	3.51	13.65	1.48	5.74	6.15	6.486
February ..	6.65	1.96	2.08	11.23	5.88	4.17	3.85	4.66	4.59	3.65	4.872
March ..	.76	3.03	3.57	15.92	4.24	6.58	4.02	5.54	6.92	3.19	5.377
April ..	3.39	4.42	4.20	1.75	5.18	5.03	.99	2.85	3.37	2.58	3.326
May ..	4.72	1.91	3.45	5.24	4.30	1.63	7.50	7.74	3.15	2.06	4.170
June ..	3.92	2.94	1.35	1.84	2.39	2.32	1.24	8.94	2.54	3.17	3.065
July ..	1.80	1.80	3.39	3.60	2.58	1.18	3.49	2.18	3.93	5.08	2.933
August ..	7.36	3.94	2.08	7.20	4.64	5.33	4.84	8.54	7.48	3.11	5.452
September ..	3.71	3.77	3.07	5.86	2.34	5.00	1.43	.50	4.58	2.74	3.300
October ..	9.05	5.28	4.83	4.31	1.90	4.09	9.88	11.46	2.11	10.24	7.315
November ..	3.69	6.12	5.17	4.09	4.17	7.41	5.89	6.85	3.70	2.60	4.939
December ..	10.80	7.32	8.86	5.76	5.46	3.24	4.09	9.10	3.69	5.80	6.412
TOTALS ..	62.29	46.69	46.08	87.48	52.06	49.49	60.87	69.04	51.80	50.67	57.65

Hub

RAINFALL at Ullswater Hallstead

County of Cumberland

Observer

Mrs C MarshallRiver Basin Eden SolwayMrs G Grant (16)

Rain Gauge, by

Diameter ...	5										
Height	20										
Altitude ...	4977										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	6.75	1.89	8.23	7.66	6.40	5.32	10.34	2.32	2.55	4.53	
February ...	10.53	8.34	4.50	3.99	12.28	9.87	9.03	.98	6.52	.91	
March	5.32	2.46	7.07	9.71	6.30	2.02	3.48	2.27	1.83	4.46	
April	4.49	3.91	1.00	8.15	2.82	3.88	4.28	3.28	.83	2.38	
May	2.61	4.48	1.85	2.80	2.90	1.49	3.99	3.19	2.21	1.15	
June	1.68	4.72	6.11	3.32	2.01	1.13	3.13	3.47	1.91	2.21	
July	4.85	.85	4.42	.80	4.71	4.12	3.18	1.06	4.10	.98	
August	9.93	3.66	6.58	1.62	3.51	3.95	2.56	8.36	4.57	3.88	
September ..	.58	4.16	2.40	2.73	2.63	1.10	2.53	4.19	11.66	3.28	
October ...	3.08	6.01	5.10	4.80	1.29	.95	12.84	9.36	8.08	2.00	
November ..	5.12	9.14	5.19	6.90	10.30	1.57	9.35	5.71	5.04	4.10	
December ...	7.25	14.05	10.55	6.39	12.01	8.61	4.39	1.85	6.03	9.62	
TOTALS ...	62.19	63.67	63.00	58.87	67.16	44.01	69.11	46.04	53.83	39.50	

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

RAINFALL at Ullswater Hallsteads

County of Cumberland

Observer per Miss C. Marshall

River Basin Eden-Solway

J. Grant for Mrs. Thomasson.

Rain Gauge, by

Diameter ...	5"											
Height	2	0										
Altitude ...	497											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930.	MEANS.
January ...	7.76	10.02	5.25	4.72	5.63	8.10	8.83	7.20	13.95	1.48	11.48	
February ...	5.85	1.7	5.43	10.12	1.03	8.06	5.00	2.54	6.18	.61	.51	
March	9.18	9.30	4.22	3.09	1.00	2.67	2.57	5.38	5.37	.57	3.40	
April.....	5.40	1.48	3.35	4.35	2.62	6.03	3.34	3.86	1.50	1.44	2.01	
May	6.43	2.54	1.75	3.52	5.62	5.69	2.48	2.44	1.73	4.10	2.20	
June	1.73	.21	2.41	.89	2.25	.25	4.58	3.98	6.90	1.42	2.65	
July	6.13	2.60	6.18	2.79	6.05	1.76	4.83	4.90	4.11	5.25	5.19	
August	2.48	0.02	3.32	11.04	3.82	4.23	5.90	7.93	8.68	4.64	9.57	
September...	2.98	1.65	3.93	6.43	8.31	3.94	5.04	6.00	1.84	2.47	4.07	
October.....	3.51	2.36	1.85	12.05	5.13	8.20	5.63	3.11	13.81	7.36	10.88	
November...	5.37	2.07	2.44	7.14	4.96	1.96	11.33	4.53	11.12	11.39	6.46	
December...	7.09	7.83	10.58	4.99	13.64	6.81	1.42	1.61	4.34	15.19	6.75	
TOTALS...	63.91	46.90	50.71	71.13	60.06	57.69	60.95	58.48	78.73	55.92	65.17	

1929 Blowers 1' high by yards.
cylindrical 1' x "Position of Station on reduced Ordnance Survey } No. of Map _____ Reference No. _____
Map, 2 miles to 1 inch Series }

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
			Penrith	8 miles	NE.	Watermillock	1 mile	NW.

RAINFALL at Ullswater (Hallsheads)

County of... Cumberland,

Observer Mrs. F. Thomasson,

River Basin Eden & Solway - 1

F.A. Case Regd. (1924)

Type of Gauge

Annual Average 54.7 in. based on 45 years obs. un-weighted. Period of average 1881-1915 Ref. 3

814682/27.

Diameter	5.										
Height	1.0										
Altitude	497.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	5.65	11.49	8.33	9.06	2.92	7.65	9.15	8.81	9.32		
February	4.77	1.13	5.67	3.32	9.15	3.40	6.97	2.52	6.72		
March	1.05	3.95	4.26	3.61	1.37	2.80	2.87	3.41	5.03		
April	3.26	5.31	2.31	3.95	5.07	1.04	3.00	1.66	2.28		
May	3.76	3.19	2.94	4.89	1.75	1.63	2.54	3.77	.76		
June	6.15	2.69	2.16	2.29	5.02	2.86	2.35	7.61	3.81		
July	5.12	5.26	3.89	2.44	2.07	6.04	1.24	7.64	6.97		
August	3.63	1.77	2.97	5.24	2.23	1.80	3.18	3.35	4.14		
September	2.40	5.93	1.62	6.72	10.25	5.32	4.18	2.57	2.03		
October	3.10	8.48	5.02	10.15	9.91	5.59	4.70	15.49	3.97		
November	11.54	3.94	3.15	1.12	5.72	6.53	1.52	10.97	8.82		
December	3.67	8.16	1.48	11.27	4.00	9.13	2.58	16.89	3.65		
TOTALS	54.10	60.80	42.80	61.06	58.46	54.09	44.28	73.49	57.50	N.R.	
	D	D	D	D	D	D	D	D	D		

39 n.p. late

Observer left Hallsheads on the outbreak of war. He is now at Rosebury House, Gorbalsbridge, Midlothian. T. G. d.

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	Direction
1931.			Renuddock	4.2m	N.W.	Walemillock	1.2m	N.W.

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