

Met 0 8b 10-YEAR SUMMARY SHEETS

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I M P O R T A N T

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2. For many old stations these sheets are the ONLY record of available data.

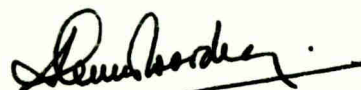
ENTRIES

3. All entries must invariably be made in permanent ink (nowadays normally in black waterproof ink), be perfectly legible and comments sufficiently intelligible to those reading them decades after the event.
4. Every attempt should be made to ensure that any follow-up action is adequately cross-referenced to a previous entry.
5. Retrospectively effective comments MUST be entered on the station's 10-year sheets for all relevant previous decades, not just on the latest decade's sheet.

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Head of Hydrometeorological
Data Systems

KEEP as top enclosure of each binder

Station No. M. 366.0

RAINFALL at Kirkby Stephen (Eden Place)

41

County of Westmorland

Observer Mrs Paul Mason *died Sept. 47*

River Basin Eden - 1

Miss Marcia Mason J.P.

Type of Gauge

Annual Average 42.3 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. B. 7. N.

" 41.90 1916-50

File No. 796169/27

Diameter	5"				597	750					
Height	1' 0"					1					
Altitude	544'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.05	2.39	4.95	3.65	2.59	4.48	5.57	8.53	2.35	3.27	
February	5.14	1.70	2.49	1.33	3.78	2.99	(1.75)	3.44	3.16	6.09	
March	2.53	(2.56)	1.72	.36	2.08	1.64	(5.61)	3.48	1.01	1.92	
April	1.53	2.34	3.08	1.54	1.71	1.38	5.95	2.76	4.48	2.60	
May	1.25	2.48	3.92	1.31	2.53	2.34	2.75	1.16	2.10	1.86	
June	.62	.79	3.35	1.84	3.17	3.27	3.01	5.49	.84	1.71	
July	1.01	2.55	2.78	3.53	1.70	5.34	4.20	2.23	2.02	3.77	
August	3.46	2.97	5.74	2.25	2.02	4.00	.06	5.82	2.90	6.66	
September	.44	2.49	2.93	5.24	2.46	5.41	3.90	4.84	2.31	7.59	
October	4.50	3.30	3.45	3.28	5.26	.61	.66	3.25	5.29	3.25	
November	2.26	.99	2.24	5.56	.16	5.37	5.11	2.91	4.76	4.65	
December	1.87	3.43	1.95	3.91	1.34	4.25	2.20	4.73	6.05	2.01	
TOTALS	25.66 D	27.99 n.p.	38.60 D n.p.	33.80 n.p.	28.80 D n.p.	41.08 D	40.77 D	48.64 D	37.24 D	45.38 D	

1942 Mar. est'd. from nearby stns.
n.p. low. 61.2 66.5 92.1 80.7 68.7 98.0 97.3 116.1 88 107

1943 n.p. low.
1944 n.p. low. Blue unable to trace fault. To be suspected.

1945 n.p. low.

1947 Now Mrs Mason can find no fault in gauge. Rebest. Mark part ext. for snow.

10004 30004

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

RAINFALL at Brough Sawerby Station No. 3660/5
m.w.r.

41

County of Westmorland Observer H. Bowyer Smith Esq.
River Basin Eden - 1 H.B. SMITH - CRESWELL CHANGED HIS NAME 1944
Type of Gauge M.O.

Annual Average 36.38 in. based on 2 years obs. un-weighted. Period of average 1916-50 Ref.

File No.

Diameter	....			5								
Height	....			10								
Altitude	....			599								
Year	....	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	....				4.67	3.85	3.12					
February	....				1.60	4.07	2.29					
March	....				.52	1.87	1.55					
April	....				1.79	2.01	1.21					
May	....				1.68	3.10	1.72					
June	....				2.35	3.23	2.76					
July	....				3.46	1.80	5.07					
August	....				2.34	3.41	4.42					
September	....				6.03	2.35	5.38					
October	....			3.98	3.51	5.41						
November	....			1.99	6.04	26						
December	....			2.07	3.63	1.57						
TOTALS	....			..	37.62	32.93						

1943. inc.
1946 Station ceased in September 1946.

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.

Station No. TF 3661

RAINFALL at Wassdale Pike

41

County of Westmorland Observer Manchester Corps. W.C.

River Basin Eden - 1

Type of Gauge

Annual Average 79.4 in. based on 6 years obs. un-weighted. Period of average 1881-1915 Ref. I.W.S.

File No. 196738/32
660604/26

Diameter	5"				600	961					
Height	1' 0"					1					
Altitude	1825'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.09	9.47	16.19	12.06	7.33	12.36	11.82	17.29	7.45	3.84	
February	9.31	2.96	7.94	4.08	9.73	(6.00)	(2.50)	8.16	5.67	9.16	
March	4.65	6.20	4.85	1.14	6.59	(5.50)	(8.70)	8.75	1.96	(5.00)	
April	2.65	7.02	6.96	4.60	4.79	2.17	13.49	4.78	10.27	5.94	
May	4.93	8.31	7.18	4.30	6.73	2.48	4.56	4.33	3.50	4.00	
June	74	1.08	8.97	5.90	7.76	7.51	5.50	10.42	1.62	6.40	
July	2.58	6.58	6.23	6.23	4.65	6.83	5.27	5.16	4.19	7.90	
August	10.65	10.79	14.39	7.10	3.06	8.36	.22	9.60	2.43	15.30	
September	1.84	11.90	8.96	9.26	8.46	15.89	8.87	11.60	1.20	(18.20)	
October	9.78	11.29	11.23	9.58	11.25	2.09	2.21	8.04	7.52	(9.08)	
November	7.62	2.76	5.16	17.52	.64	17.20	12.83	7.87	13.40	8.00	
December	7.59	12.40	5.51	8.23	6.36	11.82	4.09	(13.00)	14.36	2.79	
TOTALS	64.43	90.76	102.57	90.00	77.35	(98.21)	80.06	109.00	73.57	95.61	

1/2 turf wall round gauge.
1946 Feb. & March est'd.
1947 Feb. & March est. for snow.
1950 mar part est. Sept but apportioned.

30004	30004	00014	10144
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Position of Station on reduced Ordnance Survey Map, } No. of Map
1 mile to 1 inch Series

Reference No.

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

Station No. F.M. 3662

RAINFALL at Mosedale (Mosedale Cottage)

41

County of Westmorland

Observer Manchester Corp. W.W.

River Basin Eden - 1

Type of Gauge

Annual Average 87.8 in. based on 10 years obs. unweighted. Period of average 1881-1915 Ref S

" 101.92 1916-1950

File No. 196738/32
660604/26

Diameter	5"				601	077					
Height	1' 0"					1					
Altitude	1443'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.43	9.94	16.93	12.63	7.37	12.27	12.09	17.55	8.83	6.90	106.94
February	10.36	3.12	8.60	4.19	10.00	6.49	(2.60)	8.07	10.96	12.76	77.15
March	4.95	7.31	4.60	1.10	6.53	5.61	(10.00)	9.25	3.19	6.35	58.89
April	3.15	6.96	6.23	4.84	4.90	2.21	13.58	5.72	13.07	6.90	69.56
May	5.11	8.60	7.29	4.11	7.20	2.37	4.36	4.50	5.27	3.70	52.51
June	.49	1.06	8.40	6.09	7.56	7.84	8.72	11.14	2.21	4.65	56.16
July	2.71	6.71	5.38	6.29	5.07	7.38	5.32	5.09	5.35	8.54	57.84
August	12.48	10.98	15.11	7.16	3.11	8.54	.25	11.32	4.65	15.62	89.22
September	2.26	11.30	10.16	9.70	8.79	16.19	8.60	11.45	2.99	(17.56)	100.00
October	9.97	10.47	11.80	9.83	11.57	2.03	2.30	7.83	11.60	(9.79)	88.19
November	7.45	2.85	5.67	17.86	.72	17.40	12.76	8.74	16.23	9.00	100.68
December	6.31	12.22	5.86	9.53	6.68	12.05	4.18	13.34	19.50	3.52	93.19
TOTALS	67.67	91.52	106.03	93.33	79.50	100.38	81.76	114.00	103.85	105.29	950.33

1947 Feb & March est. for snow. n.p. low.

30004

00144

W. R. D.

4504

Position of Station on reduced Ordnance Survey Map, } No. of Map

Reference No.

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

Station No. MTF 3662/5

RAINFALL at Mossedale (Artle Crag)

41

County of Westmorland Observer Manchester Corp. W.D.

River Basin Eden - 1

Type of Gauge

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

File No. 196738/32

Diameter	5"				601	073		X			
Height	1' 0"					1					
Altitude	2134'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.59	11.66	18.00	17.03	8.00	14.72	(13.00)	18.06	8.74	6.19	
February	11.89	3.65	9.28	4.25	11.81	(7.00)	(2.70)	(9.00)	10.95	(9.00)	
March	4.87	12.16	5.12	1.52	7.18	(6.60)	(11.00)	9.32	3.50	(6.12)	
April	3.39	8.10	7.82	5.52	6.00	3.40	18.40	5.48	9.21	9.08	
May	6.27	10.31	7.09	4.35	8.20	2.20	4.72	4.09	4.62	4.15	
June	.58	1.64	11.63	9.13	8.18	10.15	7.86	12.15	1.53	5.50	
July	2.90	7.15	10.24	5.83	5.54	9.95	6.82	4.95	5.14	9.89	
August	13.06	13.70	16.70	5.84	2.85	(9.00)	.08	16.85	4.36	18.24	
September	2.39	13.13	10.54	11.44	10.91	20.25	10.54	11.20	2.37	(18.00)	
October	12.93	14.95	14.30	11.22	13.55	2.13	4.39	8.40	12.78	(10.82)	
November	9.09	2.72	6.50	17.80	7.78	21.42	(15.00)	9.34	18.92	8.70	
December	9.23	13.90	6.85	6.10	6.95	10.80	(5.00)	(15.00)	19.50	2.93	
TOTALS	79.19	113.07	124.07	100.03	89.95	117.62	(99.51)	238.41	101.62	(108.62)	

1946 Feb. & March apportioned August est'd, n.p. high.
1947 Jan - March est. snow. Nov. & Dec. est.
1950 Feb - Mar; Sept - Oct apportioned.

30204 70034 20014

30144

5 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	Parish Church.	Distance from gauge.	Direction

Station No. T.F.M. 3663

RAINFALL at Wet Sleddale (Mirethwaite)

41

County of Westmorland Observer Manchester Corp. W.W.

River Basin Eden - 1

Type of Gauge

Annual Average 64.7 in. based on 10 years obs. un-weighted. Period of average 1881-1915 Ref S

87.88 1916-1950 File No. 660604/26 196738/32

Diameter	5"				600	967					
Height	1' 0"					1					
Altitude	995'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.99	7.36	13.68	10.12	5.72	10.73	11.22	14.21	4.92	5.04	84.99
February	9.28	2.30	4.79	3.56	8.43	5.51	(2.30)	7.04	6.81	9.65	59.67
March	4.26	4.40	3.01	.82	5.30	4.65	(8.20)	8.46	1.99	5.34	46.41
April	2.15	5.66	4.00	3.78	4.34	1.82	12.36	3.75	7.84	5.31	51.01
May	3.58	7.00	6.63	2.62	5.40	2.41	3.86	3.63	5.02	2.59	42.74
June	.13	1.09	5.74	4.52	6.73	6.13	4.91	8.63	1.12	4.17	43.17
July	2.04	3.61	5.16	4.73	4.04	6.17	4.16	4.51	3.21	6.46	44.09
August	7.11	7.79	11.80	5.66	2.43	7.74	.22	7.86	4.38	10.98	65.97
September	1.36	8.37	7.62	8.42	6.51	14.17	6.68	7.36	2.09	13.80	76.28
October	7.33	6.82	8.43	8.52	10.63	1.40	1.56	5.09	9.93	6.87	66.58
November	6.20	2.62	4.54	13.63	4.9	15.74	11.12	5.35	11.98	7.06	78.73
December	4.59	9.30	5.40	8.00	5.58	10.72	3.44	11.41	13.88	3.90	76.22
TOTALS	50.02	66.32	80.70	74.38	65.60	87.19	70.03	87.30	73.15	81.17	735.86

1947 Feb. & March est. for snow.

30004

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	Parish Church.	Distance from gauge.	Direction

RAINFALL at

§ Blea Water "B"

Station No. ^{T.F.} M 3664/1

41

County of

Westmorland

Observer

Manchester Corps. W.D.

River Basin

Eden - 1

Type of Gauge

Annual Average

104.0

in. based on

years obs. un-weighted.

Period of average

Ref

computed by Mr. Cornish (1944)

File No.

196738/32

f A200487/40

Diameter	5"				601	184					
Height	1' 0"					1					
Altitude	1400' 1420'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	3.00	11.44	20.19	13.51	8.07	13.20	14.00	18.93	8.50	6.80	1176.4
February	11.89	3.60	10.56	3.90	12.50	7.60	(2.70)	8.02	10.38	10.00	81.15
March	6.03	9.52	3.76	1.43	6.66	6.62	(11.00)	8.64	3.28	6.77	63.71
April	8.95	8.58	5.84	4.47	5.27	2.12	12.75	4.39	8.74	5.48	61.59
May	4.87	9.16	8.05	5.31	8.08	1.98	5.11	4.08	4.47	3.50	54.61
June	4.8	1.04	11.09	9.65	8.13	8.94	6.16	10.65	1.61	4.59	62.34
July	3.16	7.01	8.51	6.09	5.88	9.26	5.64	5.23	3.85	2.66	62.29
August	13.53	11.17	17.04	8.74	3.31	10.45	4.8	10.89	4.37	14.90	94.88
September	2.35	12.12	11.65	11.32	11.13	17.49	11.24	10.59	2.39	(13.17)	103.45
October	12.40	9.90	14.34	10.75	13.11	1.88	3.14	8.17	12.89	(9.39)	95.97
November	8.37	2.80	6.41	18.93	1.03	18.12	12.95	7.90	16.30	7.54	100.35
December	7.61	14.84	7.50	7.88	7.32	11.47	3.52	14.53	14.68	3.93	93.28
TOTALS	77.64 M	101.18 M	124.94 M	101.98 M	90.49 M	109.13 M	(88.69) M.?	112.02 M	91.46	93.73 M	991.26

§ Turf wall round gauge.
1947 Feb. & March put est. for snow. Low ?. Rint with ?
1950 Sept - Oct apportioned.

30004

00144

Position of Station on reduced Ordnance Survey Map, } No. of Map

1 mile to 1 inch Series. }

Reference No.

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

Station No. T.F.M. 3664/6

RAINFALL at 3 Sledale (High Water House)

41

County of Westmorland

Observer Manchester Corp. W.W.

River Basin Eden - 1

Type of Gauge

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

File No. 196738/32

Diameter	5"				601	103		X			
Height	1' 0"					1					
Altitude	1620'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.19	9.03	14.89	11.77	6.87	11.54	11.29	16.24	3.68	(5.50)	
February	9.87	2.82	7.15	3.87	9.39	5.99	(2.50)	7.50	4.38	(10.00)	
March	4.69	6.04	3.90	.99	6.31	5.22	(10.00)	8.61	1.08	(6.50)	
April	2.95	6.03	5.00	4.39	4.67	2.07	13.11	5.00	4.75	4.38	
May	4.82	7.45	6.92	3.46	6.42	2.42	4.07	4.00	2.16	2.85	
June	.30	.97	7.22	5.49	7.19	7.73	5.43	9.54	1.35	3.83	
July	2.52	5.38	4.70	5.76	4.55	7.02	4.85	4.63	2.96	7.12	
August	10.50	9.87	13.23	6.16	2.92	8.26	.19	8.96	2.03	13.06	
September	2.01	10.22	8.52	8.90	7.29	15.49	7.84	9.15	1.30	(14.78)	
October	8.83	9.18	10.66	9.23	10.82	1.92	2.02	6.81	4.97	(7.58)	
November	7.19	2.71	4.96	16.62	.59	16.52	11.61	7.56	7.45	7.75	
December	5.68	11.35	5.38	8.89	6.02	11.72	3.86	14.50	9.80	2.54	
TOTALS	61.55	81.05	92.53	85.53	73.04	95.90	76.77	102.50	45.91	(85.89)	
						N.P.			N.P.		

3 Turf wall round gauge.
1947. n. p. low. Feb & March est. snow.
1950 for Feb mar part est. Sept - Oct approximated.

30004 7 70144

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	Parish Church.	Distance from gauge.	Direction

Station No. T.F.M. 3665/5

RAINFALL at § Mardale (Riggindale)

41

County of Westmorland

Observer Manchester Corp W.W.

River Basin Eden - 1

Type of Gauge

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

File No. 196738/32

Diameter	5"				60	227					
Height	1' 0"					1					
Altitude	892'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	3.19	11.18	16.52	14.30	7.80	14.57	(13.00)	18.51	8.43	5.34	
February	11.96	3.55	11.11	3.03	(10.00)	6.25	(2.50)	7.08	11.08	(13.47)	
March	6.45	7.67	3.07	1.13	7.00	6.42	(10.00)	7.02	2.04	(6.21)	
April	3.64	8.56	6.24	3.60	5.00	2.01	11.57	4.52	7.24	(7.17)	
May	6.53	8.38	7.73	2.73	7.50	1.48	3.57	3.66	3.94	(3.73)	
June	.15	.74	7.62	6.11	6.59	7.86	5.33	10.71	1.45	5.70	
July	2.63	6.00	6.73	4.97	4.61	7.04	4.75	5.21	3.37	(6.96)	
August	13.84	9.68	13.90	7.47	3.00	8.13	.11	10.83	4.17	10.22	
September	2.22	10.61	7.72	8.27	8.00	16.06	8.59	10.12	2.34	(10.48)	
October	9.59	10.21	(13.50)	9.44	11.47	1.37	2.27	7.06	11.26	(8.63)	
November	7.87	2.20	6.44	20.88	.47	19.31	15.45	6.86	12.17	5.42	
December	8.04	17.26	6.38	5.65	6.41	10.14	2.86	14.50	15.26	3.30	
TOTALS	76.11	96.04	106.96	87.58	77.85	100.64	80.00	106.08	82.78	(86.63)	

§ Turf wall round gauge.

1943. Oct + Dec adj Observer informed 1/44
1945 n.p. too much estimation (originally 10 in. low)
1947 Jan - March est. for snow. Turf wall broken - repaired 4.48.
N.p. low.
1948 n.p. too much est.
1950 np too much est. and low. Feb Mar April May July est. Sept - Oct approximated.

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	Parish Church.	Distance from gauge.	Direction

RAINFALL at Shop (Bigbeck Fell)

County of Westmorland Observer Manchester Empn. W.W.

River Basin Eden

Type of Gauge

Annual Average 56.0 in. based on 2 years obs. ~~un~~ weighted. Period of average 1881-1915 Ref. S

File No. bbobou ab 196738/32

Diameter	5"				600	990					
Height	1' 0"					1					
Altitude	935'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.27	5.97	10.96	7.51	5.00	8.28	8.78	11.62	3.87	(4.00)	67.26
February	6.78	2.17	4.52	2.24	7.38	4.19	2.16	5.00	6.00	(9.00)	49.44
March	3.80	3.68	2.05	.61	4.58	3.99	7.53	6.79	1.40	(5.00)	39.43
April	1.89	4.81	4.10	3.07	3.33	1.38	10.23	3.10	4.56	3.85	40.32
May	2.56	5.61	5.56	1.90	4.66	2.10	3.08	2.97	3.77	2.27	34.48
June	.08	.70	3.99	3.62	4.79	5.06	3.94	7.23	.77	2.74	32.92
July	2.01	3.05	4.33	4.12	3.12	4.84	3.22	3.93	7.75	(6.00)	37.37
August	6.01	6.68	8.15	4.39	2.19	6.20	.10	6.66	2.49	9.46	52.33
September	1.19	6.82	6.34	6.49	5.01	10.93	5.41	6.98	1.88	(11.16)	62.20
October	6.48	4.33	7.25	6.61	8.89	1.16	1.16	4.13	6.34	(5.08)	51.43
November	5.11	1.94	3.24	11.68	37	12.65	9.04	4.64	7.60	5.53	61.80
December	3.63	7.82?	3.94	6.01	3.82	7.38	2.11	8.48	8.56	2.58	54.33
TOTALS	40.81	53.58	64.43	58.25	53.14	68.16	56.76	71.53	49.99	66.66	58.331

1950 Jan Feb Mar July gauge tempered with. Oct. Sept - Oct apportioned.

10544

5' high 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

Station No. TR. 3667

RAINFALL at Swindale Parsonage

41

County of Westmorland Observer Manchester Corpn. W.W.

River Basin Eden - 1

Type of Gauge

Annual Average 70.0 in. based on 70.0 years obs. un-weighted. Period of average 70.0 computed by Mr. Cornish (1944) 4200487/40 Ref. 660604/26 File No. 19673832

Diameter	5"				601	123					
Height	1'0"					1					
Altitude	875					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.67	7.65	13.61	9.94	5.59	9.77	10.68	13.66	4.59	5.94	8310
February	8.54	2.52	4.92	3.11	8.16	5.45	(2.30)	6.89	4.95	10.35	5719
March	4.41	4.35	3.06	80	5.90	4.58	(8.50)	7.90	(1.60)	4.66	4576
April	2.64	5.90	4.02	3.95	4.16	1.73	11.50	3.68	8.20	3.63	4941
May	3.94	6.43	6.66	2.56	5.38	2.26	3.70	3.18	4.76	2.33	4120
June	15	.95	6.09	4.69	6.46	5.96	4.72	8.35	1.33	2.20	40.90
July	1.75	3.14	4.16	4.86	3.50	6.10	4.10	4.12	3.07	4.81	3961
August	8.32	7.64	11.47	5.58	2.63	7.59	.18	7.42	3.41	9.16	6340
September	1.41	8.40	7.50	8.11	6.44	13.51	6.24	7.15	1.53	(11.55)	7184
October	8.13	7.08	8.42	7.80	9.57	1.46	1.52	5.16	9.54	(5.30)	6398
November	6.31	2.64	4.57	14.51	.46	14.95	10.12	6.34	12.52	4.71	7713
December	4.68	10.00	4.66	8.01	5.22	10.13	3.33	14.08	12.99	2.88	7568
TOTALS	51.95	66.70	79.14	73.92	63.47	83.49	66.89	87.93	68.49	67.22	70920

1947 Feb. & March est. for snow.
1950 Sept - Oct apportioned. Falling off from July. - Printed with query.

Position of Station on reduced Ordnance Survey Map, } No. of Map
1 mile to 1 inch Series

Reference No.

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

Station No. 41 IF 3669/5

41

RAINFALL at § Mardale (Wheeler)

County of Westmorland

Observer Manchester Corp. W.W.

River Basin Eden - 1

Type of Gauge

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

File No. 196738/32

Diameter	5"				601	248					
Height	1'0"					1					
Altitude	908'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.78	9.51	16.68	13.15	7.69	15.34	13.02	18.58	7.16	6.81	
February	10.73	2.98	8.24	3.29	9.00	6.72	(2.40)	7.34	10.14	13.29	
March	4.84	6.06	3.30	1.04	6.85	6.78	(9.50)	9.97	2.14	6.43	
April	3.03	6.98	5.56	4.10	4.93	2.40	(12.83)	5.66	6.66	6.82	
May	4.70	7.53	7.08	3.04	7.49	1.91	4.23	3.55	4.58	3.09	
June	.14	1.44	7.65	5.78	6.89	8.98	6.16	11.14	1.70	4.20	
July	1.84	4.42	5.55	4.42	4.75	6.73	5.05	5.35	3.91	(5.63)	
August	12.84	8.55	11.65	7.14	2.96	9.38	10	10.28	4.39	13.27	
September	2.00	8.82	6.21	8.53	7.98	17.49	9.17	11.09	1.60	(16.40)	
October	9.10	9.89	11.45	10.05	11.40	1.40	2.37	6.86	12.34	(9.36)	
November	6.57	2.30	6.78	(17.00)	.45	19.00	16.20	6.78	16.14	9.93	
December	5.82	13.30	6.68	6.40	6.60	12.43	4.60	14.31	16.43	4.00	
TOTALS	64.39	81.78	96.83	83.94	76.99	108.56	(85.63)	110.91	87.19	99.23	

§ Turf wall round gauge. 1941 Jan & Feb apportioned for snow
1943 Jan & Feb, April & May apportioned obs accepts. gauge moved across stream 10/43.
1944. Nov. pr. est.
1947 Feb. & March for snow. April est.
1950 July post est. Sept - Oct apportioned.

00544

00021

34004

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

Station No. T.F. M 3670

RAINFALL at S Mandale (Low Raise)

41

County of Westmorland

Observer Manchester Corp. W.W.

River Basin Eden - 1

Type of Gauge

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

File No. 660601/26 196738/32

Diameter	5"				601	273					
Height	1'0"					1					
Altitude	2465'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.63	11.00	17.48	16.77	8.00	15.73	13.45	15.31	(4.50)	8.93	
February	7.38	3.37	8.68	2.95	9.50	(6.80)	(2.50)	3.62	(9.00)	13.55	
March	3.57	9.57	4.10	1.19	8.12	(6.50)	(9.50)	7.83	(2.50)	(6.83)	
April	3.05	7.14	7.72	5.45	4.43	(2.50)	12.26	4.38	(3.00)	(4.84)	
May	5.05	9.35	(8.45)	3.80	7.15	1.75	(4.70)	2.25	4.46	(3.29)	
June	2.9	1.33	8.76	8.40	5.60	5.92	4.51	5.74	1.69	4.25	
July	2.65	5.73	(5.05)	5.50	5.50	4.51	(5.30)	3.65	4.30	8.45	
August	12.52	10.50	13.62	3.78	2.86	6.06	(.20)	10.05	4.96	16.33	
September	2.06	11.83	10.30	8.32	8.64	17.05	(7.00)		2.28	(21.10)	
October	9.80	9.80	15.62	8.24	12.10	.93	(1.87)		19.36	(10.22)	
November	7.25	2.50	5.49	20.32	.59	9.90	10.30		16.58	7.53	
December	5.08	13.08	6.30	7.05	7.10	7.46	2.27		16.50	(4.00)	
TOTALS	61.33	95.20	111.57	91.77	79.59	(84.31) n.p.	(73.86) N.P.	n.p.	(42.13) N.P.	(109.32) np	

S Turf wall round gauge.
1943 May part est July amended Oct accepts. Gauge moved short distance 12/43. Less likelihood of interference
1946 n.p. low. Feb-April part est bl.
1947 Jan. part est snow. Feb. 6 March est. snow. May & July - October adjusted. N.P. low.
Turf wall breached. Repaired 4.48.
1950 Mon Apr May part est. Dec part est. Sept - Oct apportioned. np too much est.

02404

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	Parish Church.	Distance from gauge	Direction

Station No. T.F.M. 3671

RAINFALL at Shap (Thornship Gill)

41

County of Westmorland Observer Manchester Corpn. W.W.

River Basin Eden - 1

Type of Gauge

Annual Average 57.3 in. based on 14 years obs. un-weighted. Period of average 1881 - 1915 Ref

" 61.82 , 1916 - 1950 File No. 660604/26 196738/32

Diameter	5"				601	049					
Height	1' 0"					1					
Altitude	844'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.36	6.26	11.95	8.01	4.94	8.61	9.23	12.43	3.32	3.88	69.99
February	7.27	2.89	4.52	2.33	7.03	4.46	2.23	5.33	5.58	9.69	51.33
March	3.87	3.79	2.12	.63	4.62	4.06	7.67	6.61	1.36	4.60	39.33
April	1.89	5.37	4.25	3.23	3.44	1.54	10.91	3.01	5.91	3.48	43.03
May	2.84	6.25	5.52	2.02	5.18	2.20	3.33	3.01	3.96	1.85	36.16
June	.12	.76	3.83	3.95	5.30	5.20	4.33	7.43	.88	2.30	34.10
July	1.90	2.90	3.89	4.05	3.15	4.95	3.58	3.81	2.93	5.41	36.57
August	6.76	6.52	8.59	4.20	2.44	6.73	.09	5.60	2.37	9.18	52.48
September	1.21	6.70	6.40	7.13	5.96	11.02	5.84	6.75	1.55	(9.86)	62.42
October	6.62	5.00	7.65	7.17	9.04	1.22	1.10	4.17	7.80	(4.61)	51.38
November	4.91	1.86	4.28	12.55	43	13.01	9.56	4.74	9.61	5.43	66.38
December	3.96	9.10	4.18	7.27	4.56	7.54	2.53	8.82	11.25	2.64	61.85
TOTALS	42.71	57.40	67.18	62.54	56.09	70.54	60.40	71.71	56.52	62.93	608.02

1950 Sept - Oct apportioned.

00149

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

Station No. ^{T.F.} 3671/7

RAINFALL at Mardale (Guernsey)

41

County of Westmorland

Observer Manchester Corp. W.W.

River Basin Eden - 1

Type of Gauge.....

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

File No. 190738/32

Diameter	5"				601258						
Height	1'0"					1					
Altitude	905'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.73	8.42	17.95	10.08	7.41	9.24	12.99	17.18	5.58	5.55	
February	8.28	2.63	6.82	3.09	9.62	5.61	(2.30)	6.41	9.72	9.48	
March	4.23	6.01	3.52	6.4	5.26	4.84	(9.70)	7.72	2.34	6.23	
April	3.22	8.12	5.16	3.47	3.86	1.71	10.78	4.06	8.56	5.04	
May	4.19	8.12	(6.00)	2.96	6.36	2.25	3.69	2.79	4.13	2.18	
June	1.7	9.99	7.01	5.59	6.95	7.40	5.63	10.24	1.47	3.46	
July	1.63	6.19	5.44	4.48	4.92	6.30	4.59	4.02	2.85	6.41	
August	9.85	9.68	11.02	5.65	2.45	9.06	1.4	10.40	4.01	12.85	
September	1.83	10.26	9.32	8.46	8.79	15.52	7.69	10.06	1.84	(15.72)	
October	8.62	9.28	10.54	9.28	10.99	1.68	2.04	6.20	11.66	(8.60)	
November	6.76	2.50	6.29	16.58	4.8	16.52	12.31	7.45	15.03	6.70	
December	5.74	13.77	5.48	6.64	5.41	11.24	3.12	13.57	14.16	3.27	
TOTALS	57.25	85.97	94.55	76.92	72.50	91.37	74.98	100.10	81.35	86.49	

§ Turf wall round gauge.
 1943 May amended by ref. sur. stns.
 1947 Feb & March ext. for river.
 1950 Sept - Oct as mentioned.

02004

* Reader reports gauge sheltered from snow 4/6/43

*Position of Station on reduced Ordnance Survey Map,
1 mile to 1 inch Series*

No. of Map.....

Reference No.....

[illegible]

BRITISH RAINFALL ORGANIZATION

Station No. T.F. # 3672

RAINFALL at Shop (Tailrest Head) Station No. 11-367

41

County of Westmorland.

Observer Manchester Corps. W.D.

River Basin Eden - 1

Type of Gauge.....

Annual Average 55.6 in. based on 10 years obs. ~~un~~-weighted. Period of average 1881-1915 Ref S

File No. 660604/26 196438/32

Diameter	5"				601	147		Styx Sta. No.	45-601148		
Height	1' 0"					1		NGL	NY (35) 530143		
Altitude	1100'					41		alt.	335m		
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.50	6.09	12.63	7.82	4.91	8.37	9.11	11.80	2.88	3.37	68.48
February	6.96	2.31	4.41	2.29	6.74	4.35	2.19	5.22	5.34	8.34	48.15
March	3.62	3.56	2.13	.66	3.88	4.01	7.64	6.99	1.40	4.31	38.20
April	1.72	5.27	4.28	3.13	3.21	1.42	11.02	2.92	5.11	3.30	41.39
May	3.05	5.95	5.75	1.91	5.07	2.14	3.29	2.51	3.60	2.08	35.35
June ....	.11	.90	4.18	3.72	5.09	5.24	4.23	7.12	1.05	2.23	33.87
July	1.77	2.89	3.91	4.16	3.13	4.88	3.34	3.47	2.83	5.43	35.81
August	6.37	6.42	8.59	3.95	2.79	6.83	.10	6.27	2.72	9.80	53.54
September	1.18	7.21	5.69	6.42	5.21	10.38	5.18	6.64	1.30	(10.43)	59.64
October	6.37	5.13	7.23	6.99	8.69	1.23	1.13	4.01	8.23	(5.18)	54.19
November	4.99	1.88	3.71	12.10	.39	12.84	8.59	4.53	10.92	5.24	65.19
December	3.74	8.68	3.67	6.77	4.32	7.82	2.18	8.75	10.31	2.71	58.95
TOTALS	41.38	56.29	66.18	59.92	53.43	69.51	58.00	76.23	55.69	62.12	592.75

5 Turf wall round gauge
1950 Sept - Oct approximated.

00144

*Position of Station on reduced Ordnance Survey Map,
1 mile to 1 inch Series*

No. of Map.....

Reference No.....

[illegible]

BRITISH RAINFALL ORGANIZATION

Station No. M 3674/6 T.F.

RAINFALL at 5 Haweswater (Wellow Crag)

41

County of Westmorland

Observer Manchester Corps. W.D.

River Basin Eden - 1

Type of Gauge.....

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

72.1 computed by Mr. Cornish (1944)
+ A200487/40 C. 10/32.

File No. 196738/32

Diameter	5"				601 297						
Height	1'0"				1						
Altitude	1412' 1250				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	(1.68)	7.33	16.80	12.15	6.00	11.51	(11.00)	15.84	4.10	4.80	
February	7.75	2.29	6.74	4.40	7.34	(5.79)	(2.20)	6.76	7.95	10.46	
March	3.71	5.86	3.95	.66	5.52	(4.47)	(9.00)	7.39	1.39	6.40	
April	2.16	7.44	5.40	3.48	3.63	2.30	14.24	4.26	7.95	5.58	
May	4.10	8.35	6.43	2.10	5.80	1.78	3.42	3.26	4.22	(2.97)	
June	.16	.97	6.00	6.37	6.54	6.54	5.45	9.57	1.13	2.90	
July	1.48	4.96	4.60	5.08	4.45	5.78	4.25	3.53	2.97	(5.73)	
August	9.75	9.30	10.35	4.10	2.45	8.32	.17	9.23	3.29	11.80	
September	1.64	8.98	7.35	7.83	7.65	12.47	6.27	8.00	1.45	(17.22)	
October	7.72	7.06	10.60	8.82	8.76	1.42	2.23	4.80	11.14	(8.11)	
November	5.70	1.85	(5.44)	13.20	.47	18.68	12.16	5.98	14.27	8.12	
December	5.96	12.60	(5.55)	6.50	5.09	9.48	4.04	10.01	14.05	4.01	
TOTALS	57.81 M.	76.99 M	89.21 M	74.69 M	63.70 M	88.54 M	(74.43) M	88.73 M	73.91 M	(88.10) M	

5 Twp wall round gauge. 1941. Jan & Feb estd. for snow.
1943. Nov & Dec apportioned. 1946 Feb & March apportioned
1947 Jan Feb & March est. snow.
1950 May & July part est. Sept - Oct apportioned.

02544

40004

00034

30004

70004

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	Parish Church.	Distance from gauge.	Direction

RAINFALL at Hawes Water (Naddle House) Station No. T.F.M. 3675

41

County of Westmorland Observer Manchester Corps. W.D.

River Basin Eden - 1

Type of Gauge

Annual Average 60.5 in. based on 10 years obs. un-weighted. Period of average 1881-1915 Ref S

File No. 660604/26 196738/32

Diameter	5"				601	316					
Height	1'0"					1					
Altitude	825'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.40	6.77	15.45	8.86	5.62	8.62	11.00	14.29	3.63	4.31	79.95
February	7.24	2.27	5.26	2.48	7.00	4.92	(2.20)	5.90	7.18	8.26	52.71
March	3.61	6.58	2.77	.70	4.92	4.33	(8.00)	7.13	1.53	4.29	43.86
April	1.66	5.55	4.96	2.97	3.22	1.47	12.80	3.29	7.06	3.96	46.94
May	3.44	6.78	6.20	1.91	5.33	1.68	2.81	2.28	3.69	2.53	36.65
June	.11	.88	4.97	4.27	5.44	5.35	4.93	8.61	.99	1.88	37.43
July	1.42	3.18	4.13	3.39	3.22	4.45	3.84	3.13	3.07	(5.51)	35.34
August	8.31	7.14	10.54	4.25	3.04	7.38	.13	7.53	2.82	10.47	61.61
September	1.39	8.47	6.49	6.60	6.09	11.48	5.94	6.92	1.46	(13.54)	68.38
October	6.85	6.15	8.09	7.42	8.59	1.25	1.15	4.45	8.83	(5.79)	58.57
November	5.35	1.90	3.91	13.26	.34	13.62	10.56	5.74	11.23	5.15	71.06
December	5.24	10.80	4.26	6.34	4.68	8.80	2.85	11.21	11.74	2.83	68.75
TOTALS	46.02 M.	66.47 M	77.03 M	62.45 M	57.49 M	73.35 M	(66.21) M	80.48 M	63.23 M	68.52 M	661.25

1947 Feb & March est. snow.
1950 July part est. Sept - Oct apportioned.

30004 00544

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	Parish Church.	Distance from gauge.	Direction

Station No. TF 3676

RAINFALL at Hawes Water (Measand) ✓

41

County of Westmorland

Observer Manchester Corp. W.W.

River Basin Eden - 1

Type of Gauge.....

Annual Average 69.6 in. based on 10 years obs. un-weighted. Period of average 1881 - 1915 Ref. S

File No. 196738/32 640604/26

Diameter	5"										
Height	1'0"										
Altitude	824'										
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.63	6.89	(15.81)								
February	6.88	2.16	(6.70)								
March	3.46	6.18	3.02								
April	1.87	6.03	4.90								
May	2.93	7.46	6.83								
June ....	.05	1.00	6.04								
July ....	.95	3.89	4.26								
August	10.62	6.72	8.93								
September	1.53	8.17	6.75								
October	6.61	6.93	9.43								
November	4.66	1.90	4.97								
December	5.66	10.20	4.64								
TOTALS	46.85	67.53	(82.28)								

1943. Jan + Feb amended by ref check gauge. To be abandoned 12/43.

*Position of Station on reduced Ordnance Survey Map,
1 mile to 1 inch Series*

No. of Map.....

Reference No.....

[illegible]

BRITISH RAINFALL ORGANIZATION

Station No. 3676/1

RAINFALL at Hawes Water (Sandhills)

41

County of Westmorland Observer Manchester W.W.

River Basin Eden - 1

Type of Gauge

Annual Average 69.6 in. based on years obs. un-weighted. Period of average (See 3676) File No. 196738/32

Diameter						601	271				
Height							1				
Altitude					824		41				
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January				# 9.16	6.11	10.95	11.04	15.40	4.78	5.59	
February				2.81	7.53	5.43	(2.30)	6.86	7.45	10.89	
March				.83	5.70	4.63	(8.50)	7.43	1.92	5.34	
April				3.12	3.77	2.11	12.94	4.00	8.29	5.24	
May				2.48	5.81	1.92	3.80	3.10	4.06	3.06	
June				5.33	6.09	6.48	5.15	9.05	1.11	2.29	
July				3.68	4.40	5.60	3.46	4.11	3.33	5.49	
August				5.22	2.44	8.34	.11	8.40	3.37	9.91	
September				7.67	7.56	13.30	6.89	7.78	1.37	(14.96)	
October				8.04	8.69	1.53	1.62	5.20	10.24	(7.40)	
November				17.08	41	13.03	9.65	5.05	14.12	7.67	
December				6.52	4.79	10.86	3.65	11.97	15.33	3.55	
TOTALS				71.94	63.30	84.18	69.11	88.35	75.37	81.39	

1944 the chert gauge is now an official rainfall station.
1947 Feb & March ext. for more.
1950 Sept - Oct approximated.

30004 00144

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	Parish Church.	Distance from gauge.

RAINFALL at Measand Beck (Keargill)

Station No. T.F.M. 3677

41

County of Westmorland

Observer Manchester Corpn. W.W.

River Basin Eden - 1

Type of Gauge.....

Annual Average.....in. based on.....years obs. un-weighted. Period of average.....Ref.....
82.7 computed by Mr. Cornish (1944)
+ A200487/40
196738/32
File No. 660604/26

Diameter	5"				601	280					
Height	1' 0"					1					
Altitude	1800'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.10	8.78	18.40	(13.00)	6.90	12.50	11.59	17.35	5.55	5.59	101.76
February	8.06	2.55	6.60	2.50	7.85	5.35	(2.40)	6.62	6.56	10.01	58.50
March	3.40	6.50	3.15	1.41	4.88	5.47	(8.50)	8.15	2.27	6.43	50.16
April	4.05	6.53	5.45	4.20	4.02	2.50	13.50	5.00	8.08	4.75	58.08
May	4.75	9.20	8.25	2.84	5.88	2.24	4.68	3.36	4.87	3.23	49.30
June	2.4	1.21	5.24	5.12	5.65	7.07	5.36	10.50	1.48	2.65	44.52 +1.0
July	2.37	4.92	5.12	5.02	4.95	6.35	5.13	4.48	3.80	7.93	50.07
August	11.54	11.80	11.24	5.45	2.85	9.53	2.4	11.25	4.80	11.94	80.64
September	2.12	11.35	9.60	8.55	8.85	14.68	8.80	9.20	(1.70)	(15.26)	90.11 +2.0
October	7.50	8.15	10.65	9.20	10.40	1.75	1.95	5.58	11.60	(7.70)	74.48
November	7.92	2.11	4.68	14.25	.66	17.90	12.80 11.30	5.91	13.80	7.50	87.53 +1.5
December	5.58	17.21	5.52	7.16	6.05	9.10	4.14 2.64	13.60	11.58	3.50	83.44 +1.5
TOTALS	59.63	90.31	93.90	78.70	68.94	94.44	73.09	101.00	76.09	86.49	828.59

1944 Jan. part est'd.
1947 Jan part est. h Feb & March est. for snow. N.P. Low.
1950 Sept - Oct apportioned.

40004

31134

00104 00144

en for 1921-60 mms

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

Station No. 36771

RAINFALL at Crosby Ravensworth

41

County of Westmorland Observer R. Eden Catchment Bd.

River Basin Eden - 1

Type of Gauge

Annual Average 48.47 in. based on 3 years obs. un-weighted. Period of average 1916-50 Ref

File No. E 1725/44

Diameter					5"						
Height					1' 0"						
Altitude					589	612'					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January						4.58	3.62	8.87	3.04		
February						3.79	1.38	4.62	2.67		
March						2.75	6.19	2.53	1.35		
April						1.25	9.37	4.22	3.05		
May					# imp	1.35	3.94	1.61	2.76		
June					3.20	4.57	3.48	6.09	1.38		
July					2.15	4.73	3.72	2.73	2.33		
August					2.08	3.87	.14	5.43	2.18		
September					2.80	4.51	5.64	4.97	1.64		
October					3.99	.87	.72	3.50	#		
November					35	9.12	5.97	3.54			
December					2.08	5.10	2.38	5.86			
TOTALS					inc D	46.49 d	46.55 d	53.97 d		N.P.	

1945 Wall 5' high 35' E.
16.9.46 Gauge moved new site. Cottage 20' high 40' E

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.
1945			Gt. Osmaide	5m	ENE	Crosby Ravensworth	1130'	S.

Station No. T.F. 3677/6

RAINFALL at Haweswater (Burn Banks)

41

County of Westmorland Observer Manchester Corp. W.W.

River Basin Eden

Type of Gauge

Annual Average in. based on years obs. un-weighted. Period of average Ref. 65.0 compiled by Mr. Cornish (1944) + A200 487/40 C.1932 File No. 196738/32

Diameter	5"				601	303					
Height	1'0"					1					
Altitude	835'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.62	7.31	13.96	8.42	5.62	10.40	11.07	14.28	4.16	4.53	
February	9.29	2.50	5.73	2.81	7.88	5.21	(2.20)	6.93	7.58	10.12	
March	3.85	5.24	2.78	85	5.49	4.37	8.57	7.23	1.74	5.02	
April	1.85	5.75	4.80	3.24	3.62	1.71	13.28	4.03	7.63	4.47	
May	3.55	6.43	6.38	2.00	5.52	1.90	3.33	2.78	3.73	2.83	
June	.11	.94	5.33	4.48	5.71	5.28	5.07	8.44	86	1.81	
July	1.30	3.49	3.98	3.23	3.62	5.19	3.80	3.28	2.66	5.09	
August	8.48	6.89	8.70	4.89	2.79	7.63	.16	7.50	3.31	9.69	
September	1.32	7.55	6.71	6.76	6.48	11.33	5.68	7.26	1.33	13.69	
October	6.99	6.67	8.42	7.84	9.00	1.35	1.25	4.75	9.07	6.68	
November	5.32	1.96	4.64	12.57	.37	13.80	10.13	5.25	13.04	6.84	
December	5.21	11.25	4.57	7.93	4.76	9.10	3.13	11.80	12.72	3.58	
TOTALS	48.89	65.98	76.00	65.02	60.86	77.27	67.67	83.53	67.83	74.35	

Turf wall round gauge. 1941. Gauge moved 25 yds west at level of about 3 feet lower than original site. 1947 Feb. CST. snow. 20004

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	Parish Church.	Distance from gauge.	Direction

Station No. M. 3678

41

RAINFALL at Patterdale Hall

County of Westmorland Observer F. C. Scott Esq.
River Basin Eden - 1 Mr. T. Atkinson (1950)
Type of Gauge Llysias Snowdon

Annual Average 86.4 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. B & N

File No. 340029/34

Diameter	5"				600	286					
Height	1' 3"					1					
Altitude	490'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1941-50 Means
January	2.48	7.95	16.13	13.00	7.15	14.26	14.85	18.92	5.94	6.92	107.60
February	8.35	3.22	7.82	3.20	10.86	7.01	6.1	9.51	9.86	12.90	73.34
March	4.53	6.91	3.71	.92	6.82	5.75	11.45	9.36	2.84	7.65	59.94
April	3.88	7.86	5.16	4.81	3.80	2.25	16.97	5.51	10.12	5.99	66.35
May	5.69	9.45	8.48	3.04	6.60	1.21	5.89	3.28	4.97	4.63	53.24
June	.24	1.15	8.08	6.29	6.95	7.89	5.57	12.08	1.42	3.49	53.16
July	1.69	4.64	5.32	3.59	6.07	6.60	4.45	4.13	2.40	6.64	45.53
August	11.73	10.28	10.61	6.47	2.74	10.20	.09	10.93	4.49	12.82	80.36
September	2.81	9.93	11.64	9.85	9.29	15.54	8.54	10.28	2.51	20.25	100.14
October	7.97	9.14	14.38	10.91	12.55	1.25	2.30	7.50	12.86	8.58	87.44
November	8.06	2.79	7.86	15.24	.83	21.54	14.20	7.52	18.84	8.36	104.74
December	6.76	15.97	6.87	9.99	7.10	13.45	4.78	17.02	17.84	3.63	103.41
TOTALS	63.69	89.29	105.56	87.31	80.76	106.95	89.70	116.04	94.09	101.86	935.25

1950 for Feb part only Sept. but approximated.

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			Penrith	15 miles	N.	Patterdale	8 mile	S.

Station No. T.M. 3678/5

RAINFALL at § Bampton (Atkinson's Grain)

41

County of Westmorland Observer Manchester Corps W.W.

River Basin Eden - 1

Type of Gauge.....

Annual Average.....in. based on.....years obs. un-weighted. Period of average.....Ref.....
87.5 computed by Mr Cornish (1944)
f A200487/40 File No. 196738/32

Diameter	5"		X		601	338					
Height	1'0"					1					
Altitude	2175'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.56	9.51	(17.80)	(12.00)	7.50	7.65	(11.00)	17.16	6.48	(6.00)	
February	7.64	2.99	7.50	1.68	8.00	5.15	(2.40)	4.54	(8.00)	(10.00)	
March	4.75	5.52	4.05	.94	5.04	4.45	(9.00)	7.00	1.64	6.15	
April	2.80	7.75	6.83	3.72	3.71	1.85	13.33	3.05	8.33	2.12	
May	4.31	9.15	8.38	2.46	4.50	1.79	3.52	3.26	3.63	2.78	
June	.35	1.37	6.75	7.50	4.60	6.35	4.05	8.25	1.40	2.88	
July	2.72	6.04	4.95	5.23	3.95	5.60	4.92	4.51	3.28	6.00	
August	14.25	7.10	10.97	4.40	2.58	8.15	.16	11.16	3.89	8.85	
September	2.21	12.10	11.60	8.25	6.68	12.83	5.75	8.15	1.31	(14.21)	
October	8.22	9.42	11.20	7.60	9.25	1.35	1.83	5.05	8.35	(7.12)	
November	9.09	2.15	4.95	15.25	.69	17.20	10.38	6.18	10.15	6.55	
December	5.95	13.10	5.20	6.92	5.25	8.00	2.53	12.15	9.16	2.28	
TOTALS	64.85	86.20	100.18	75.95	61.75	80.37	68.87	90.66	65.62	(74.94)	
			40004	40004			70004		20004	600144	

§ Turf wall round gauge.
1943 Jan + April part est. July amended. Ostr accepted
1944 Jan part est'd. 1946 n.p. low
1947 Jan - March est. snow. Dec. low. N.P. low. Turf wall breached. Repaired 4.48.
1948 n.p. low.
1950 Jan Feb part est. Sept - Oct approximated. n.p. low

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

Station No. 3679

RAINFALL at Patterdale (Greenside Mine)

41

County of Westmorland

Observer Basinghall Mining Syndicate Ltd.

River Basin Eden - 1

Type of Gauge Snowdon

Annual Average 91.9 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref S

File No. 765422/27

Diameter	5"			600	313						
Height	9"				1		8 1/2"				
Altitude	1081'				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.35	9.38	18.38	13.63	7.83	11.06	12.14	15.5	8.81	8.99	
February	10.56	3.16	9.69	(2.40)	10.49	9.09	.75	12.03	9.71	13.34	
March	5.02	6.60	3.13	1.64	7.05	6.08	12.59	6.97	3.54	7.66	
April	4.64	8.68	5.51	4.45	4.80	2.76	15.87	8.07	12.32	6.98	
May	6.23	9.23	8.41	3.71	6.85	1.51	4.58	2.90	4.99	4.56	
June	.29	2.91	8.29	7.23	8.49	7.09	5.17	13.38	2.07	4.12	
July	2.19	6.47	5.36	4.22	6.53	8.77	5.36	5.26	1.87	6.21	
August	13.57	12.10	13.20	5.49	3.45	10.64	.17	9.64	6.81	12.66	
September	2.76	11.83	11.58	10.60	10.92	15.44	8.64	11.20	3.78	20.16	
October	8.66	12.05	15.28	12.03	13.13	1.45	1.96	7.81	13.34	10.99	
November	8.05	3.13	7.14	15.03	1.08	18.21	15.95	8.28	16.23	9.06	
December	7.24	17.28	8.02	10.75	8.00	12.39	4.84	13.57	18.50	6.87	
TOTALS	71.56	102.82	113.99	91.18	88.62	104.49	88.02	114.26	101.97	111.40	

1941: - Stone Wall 18' high 25 yds N.N.W. Sheds 20' high 28 yds N.N.E. Sheds 36' high 60 yds W.
1943: - July & Aug. approximated by ref to same stone
1944 Feb. part est'd.

20004

876.91

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			Troughbeck	6 miles	N.N.E.	Patterdale	2 miles	E.S.E.

RAINFALL at §Bampton (Seahole Grain) B Station No. TF 3680/1

41

County of Westmorland Observer Manchester Corp. W.W.

River Basin Eden - 1

Type of Gauge.....

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

File No. 196738/32

Diameter	5"				601	347					
Height	1' 0"					1					
Altitude	1750					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.46	7.50	17.20	10.35	7.00	10.55	(11.00)	16.83	5.04	4.99	
February	7.42	2.35	7.15	2.58	8.00	(5.50)	(2.30)	6.55	8.10	10.81	
March	3.65	6.18	3.50	85	4.96	5.17	(8.10)	7.45	1.70	6.70	
April	2.27	7.93	6.15	4.27	3.59	2.27	15.48	4.15	9.16	5.32	
May	4.33	9.12	7.45	2.52	(5.45)	(2.00)	4.48	3.25	(4.25)	3.50	
June	.18	1.35	6.15	4.16	(4.75)	7.30	4.47	10.46	1.18	2.63	
July	1.90	4.38	4.20	4.55	3.85	6.12	4.59	4.06	3.52	6.38	
August	7.42	9.75	10.73	5.50	2.60	8.58	12	11.10	3.92	(16.70)	
September	1.96	10.55	9.20	8.00	7.95	13.72	6.68	9.10	1.78	(17.60)	
October	6.25	8.40	11.75	8.43	9.90	1.53	1.78	5.83	11.08	(7.50)	
November	8.09	2.07	5.50	14.60	58	17.88	10.83	6.08	13.58	7.50	
December	6.29	16.45	5.68	7.38	5.60	8.73	3.38	14.00	13.00	3.15	
TOTALS	51.22 M	86.03 M	94.66 M	73.19 M	64.23 M	(89.35) M	(73.21) M	98.86 M	76.31 M	(92.78) M	

1941:- Jan. & Feb. apportioned for snow
1945 May past est'd. 1946 Feb. est'd. May past est'd.
1947 Jan. & Feb. demand est. snow.
1950 Aug. Sept. - Oct. estimated. partly.

02004 00344

03004 22004 70004

§ 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	Parish Church.	Distance from gauge.	Direction

RAINFALL at Bampton (Stoneworth)

County of Westmorland Observer Manchester Corp. W. J.

River Basin Eden - 1

Type of Gauge

Annual Average 59.5 in. based on 4 years obs. un-weighted. Period of average 1881-1915 Ref S
196738/32 File No. 660604/20

Diameter	5"				601	366					
Height	1'0"					1					
Altitude	913'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.42	6.70	10.96	(7.50)	6.00	8.64	9.42	14.20	3.41	5.33	73.58
February	8.19	2.23	5.33	2.63	7.50	4.89	(2.20)	6.16	6.47	7.30	52.90
March	3.78	3.77	2.95	1.01	5.34	3.61	(7.50)	6.51	1.53	4.93	40.93
April	1.56	5.30	4.84	3.42	3.10	1.74	10.47	3.77	6.43	4.81	45.44
May	3.56	6.05	6.37	1.97	4.33	1.80	3.48	2.44	3.67	(2.60)	36.27
June	1.5	.98	5.38	4.08	4.48	4.05	4.28	8.76	.80	1.70	34.66
July	1.12	3.33	3.00	3.05	3.84	4.51	3.77	3.16	2.86	4.99	33.63
August	8.05	6.60	8.29	3.65	1.98	6.99	.15	7.72	3.27	8.93	55.63
September	1.42	7.04	7.10	7.40	6.55	10.01	5.61	6.52	1.35	(11.50)	64.50
October	6.57	6.13	8.83	7.24	8.17	1.38	1.11	5.05	8.10	(6.73)	59.31
November	5.26	1.80	4.42	10.91	4.0	10.18	9.31	5.00	11.48	6.59	65.35
December	4.56	9.56	3.89	6.89	4.76	8.64	3.41	9.84	12.20	3.18	67.03
TOTALS	45.64	59.49	71.36	59.75	56.45	66.44	60.71	79.23	61.37	68.59	629.23

1944 Jan. part out. 1947 Feb. March cut for snow.
1950 May part out. Sept - Oct apportioned.

30004 02144

40004

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	Parish Church.	Distance from gauge.	Direction

Station No. TF M 3683

RAINFALL at Cawdalah Beck (House Grain)

41

County of Westmorland Observer Manchester Corps. W.W.

River Basin Eden - 1

Type of Gauge.....

Annual Average.....in. based on.....years obs. un-weighted. Period of average.....Ref.....
67.6 computed by Mr. Cornish (1944)
FA200487/40 File No. 660604/26
1947/32/32

Diameter	5"				601	352					
Height	1'0"					1					
Altitude	1130'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.57	7.25	14.12	9.10	6.40	10.40	11.06	16.55	4.83	4.49	85.77
February	7.15	2.27	6.05	3.32	7.55	(5.50)	(2.20)	6.40	6.46	9.76	56.66
March	3.08	5.20	2.95	1.32	5.32	4.38	(8.00)	7.05	1.78	5.68	44.76
April	2.12	6.22	5.10	3.73	3.53	2.06	15.43	2.33	8.10	4.64	55.26
May	3.87	7.21	6.90	2.47	5.19	1.97	4.07	2.68	3.97	3.15	41.48
June	.18	1.12	5.35	4.40	4.80	5.21	4.78	8.78	.87	2.03	39.52
July	1.82	3.97	3.80	3.94	3.65	5.78	3.71	2.90	3.41	5.20	38.18
August	9.48	7.75	9.77	4.80	2.05	8.62	.20	10.83	3.63	8.78	65.91
September	1.86	8.25	7.90	7.95	7.10	11.40	6.15	7.93	1.15	(12.43)	72.12
October	7.10	6.95	11.80	7.63	9.45	1.28	1.52	5.22	10.14	(5.47)	66.56
November	5.76	1.80	5.38	14.32	.52	16.30	10.08	5.22	12.15	6.58	78.11
December	5.32	13.35	6.20	8.24	5.05	8.70	3.30	12.40	12.75	3.00	78.31
TOTALS	49.31 M.	71.34 M	85.32 M.	71.22 M	60.61 M	81.60 M	70.50 M	90.29 M	69.24 M	71.21 M	720.64

1946 Feb. amended - gauge tampered with
1947 Feb. March ext. sum.
1950 Sept - Oct apportioned. Slightly low years' total.

30004

00144

20004

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

Station No. T.F. 3684

RAINFALL at Heltondale (Kidmoor)

41

County of Westmorland Observer Manchester Corps. W.A.

River Basin Eden - 1

Type of Gauge

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

File No. 660604/26 196738/32

Diameter	5"										
Height	1' 0"										
Altitude	984'	1025'									
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.93	5.76	(10.22)								
February	8.11	2.65	(5.36)								
March	2.59	3.39	(2.92)								
April	1.67	4.02	(4.86)								
May	2.39	5.80	(6.09)								
June	.13	.78	4.72								
July	1.34	3.13	(3.91)								
August	5.72	5.90	7.94								
September	1.26	4.90	4.38								
October	6.22	4.79	5.04								
November	4.32	1.32	2.52								
December	3.47	7.73	3.73								
TOTALS	39.15	50.17	62.69								

5 Turf wall round gauge.
1942 np. low. gauge leaking 2/43.
1943 np low - new gauge set up across stream 11/44 see file

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	Parish Church.	Distance from gauge.	Direction

Station No. 3684/1

41

RAINFALL at Heltondale (Kidmoor) new site

County of Westmorland

Observer Manchester Corpn. W.W.

River Basin Eden - 1

Type of Gauge

Annual Average 59.1 in. based on years obs. un-weighted. Period of average Ref.

File No.

Diameter	....				5"			601	406			
Height	....				1' 0"				1			
Altitude	....			*	1043'				41			
Year	....	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	....			100	8.45	6.00	8.58	10.60	12.69	3.23	4.19	
February	....				2.84	6.53	5.05	(2.00)	4.89	5.59	9.84	
March	....				96	5.01	3.80	(7.50)	7.25	1.82	4.69	
April	....				2.73	2.61	1.68	12.34	3.83	4.32	4.16	
May	....				2.07	4.36	1.75	3.35	2.26	3.24	3.14	
June	....				3.95	4.29	3.94	3.84	7.50	7.5	2.48	
July	....				2.64	3.64	5.26	3.87	2.59	2.89	4.92	
August	....				3.42	2.22	7.28	.14	(10.71)	3.56	8.99	
September	....				7.49	5.72	9.41	5.12	(6.85)	1.23	(14.00)	
October	....			# 100	7.47	8.55	1.45	1.37	4.36	8.63	5.47	
November	....			4.36	11.06	42	11.47	8.55	4.15	8.35	6.47	
December	....			4.96	8.16	3.42	7.55	3.76	10.24	12.18	2.96	
TOTALS	....			inc.	61.24	52.77	67.22	62.44	77.42	58.79	71.31	

1947 Feb. & March est. snow.
1950 Sept part est.

30004 00304 00104

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.

Station No. 3684/4

RAINFALL at MARTINDALE (HANTOWN)

41

County of WESTMORLAND Observer G. G. RYLANDS Esq.

River Basin 1- EDEN

Type of Gauge M.O.

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

File No. E.12541/50

Diameter					600	308					
Height						1					
Altitude						41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January										100	
February											
March											
April											
May											
June											
July											
August											
September											
October											
November										100	
December										3.39	
TOTALS										imp Dnp	

1950 Shrop L. High 12.5

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	Parish Church.	Distance from gauge.
1950-			Pennith	7 1/2 mi.	NE	Martindale	5 furlongs SW.

RAINFALL at

Appleby (Castle Bank.)

Station No. 3685

41

County of

Westmorland

Observer

Lady Holmes

River Basin

Eden - 1

NT Colling, Ex. 656 1947

Type of Gauge

Snowdon

Cumbrian River Board (1951)

Annual Average

35.0

in. based on

35

years obs. un-weighted.

Period of average

1881-1915

Ref.

B57N

36.55

1916-1950

File No.

Diameter	5"				598	806					
Height	1' 0"					1					
Altitude	440'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	.52	4.11	5.02	3.71	3.76	3.68	4.28	6.24	1.76	2.42	3550
February	3.63	2.30	1.70	1.44	3.57	2.41	1.17	2.47	2.33	3.92	2494
March	2.50	2.14	1.23	.53	2.12	1.70	4.52	2.82	1.11	1.62	2629
April	.71	2.01	2.53	1.75	2.28	1.22	5.00	1.66	3.15	2.01	2232
May	1.78	3.15	3.82	.97	3.19	1.75	1.70	1.56	2.04	1.94	2190
June	.59	1.10	2.82	2.43	3.25	2.36	2.80	5.20	.51	1.68	2274
July	1.24	2.71	2.24	4.95	1.75	4.37	4.00	1.07	1.64	4.02	2799
August	4.54	3.49	4.97	2.45	2.63	4.50	.10	5.80	1.96	5.08	3553
September	.93	3.36	3.57	5.17	2.64	4.60	2.90	3.67	1.26	6.88	3498
October	4.19	2.43	4.10	3.64	5.43	.73	.50	2.01	4.37	2.38	2978
November	2.53	1.13	(2.08)	6.26	.22	6.12	3.50	2.53	5.24	3.52	3313
December	1.64	3.96	(2.14)	3.89	(1.75)	3.90	1.80	4.08	5.35	1.88	3039
TOTALS	24.80	31.89	(36.22)	37.19	32.59	37.34	(32.27) imp.	39.11	30.72	37.36	3394.9

1943 Nov & Dec. est'd.

1945 Dec. part est'd.

Stn Terminated March 1947.

1948 Station continued at Appleby Castle

1947 estimated 4036.

00034

00014

07714

extd.

Appleby.

1950 or 51 considered representative of monthly averages at this station. Air probably near 46.33.

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	Parish Church.	Distance from gauge.	Direction

Station No. 3685/1

41

RAINFALL at ALPBURY (BONGATE CROSS)

County of WESTMORLAND Observer E.H. ILLINGWORTH Esq.
(Thos A.S. Collins, Esq. B.Sc.)
River Basin 1 - EDEN
Type of Gauge SNOWDON

Annual Average 35.62 in. based on years obs. un-weighted. Period of average 1916 - 1950 Ref.

File No. E 7850/48

Diameter				598	807		5"				
Height					1		1' 0"	9"			
Altitude					41		543'			500.	
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	.82	3.13	4.67	3.18	3.90	3.35	(4.49)	6.33	1.76	2.44	
February	3.76	2.20	1.55	1.48	3.35	2.17	1.07	2.34	2.15	3.42	
March	2.55	1.52	1.09	.58	1.71	1.52	3.77	2.45	1.06	1.58	
April	.97	1.94	2.37	1.75	2.31	1.14	4.89	1.21	3.11	1.95	
May	1.74	2.94	3.83	1.04	3.89	1.81	1.76	1.68	1.91	1.71	
June	.48	1.04	2.57	2.28	3.12	2.28	2.82	5.41	.58	1.84	
July	1.18	2.78	2.35	5.68	1.71	3.39	4.13	1.33	1.90	4.05	
August	4.64	5.30	5.03	2.38	2.71	4.38	.13	5.51	2.10	5.28	
September	.86	3.26	3.52	5.22	2.53	5.16	2.93	3.55	1.25	6.71	
October	4.08	2.60	3.90	3.46	5.75	.73	.50	2.22	4.33	2.33	
November	2.36	1.13	2.33	5.91	.22	5.54	3.51	2.61	5.31	3.23	
December	1.49	3.83	1.90	3.50	1.97	3.41	1.85	3.27	5.19	2.46	
TOTALS	24.93	31.67	35.11	36.46	33.17	34.88	31.85	38.91	30.65	37.00	

1947 Ho. 35' high 25 yds. S. 40004
1948 Back year 1941-46 copied 22/3 Reasonable until 1946. 1946 seems a little low with possible loss of an inch in July. Jan'y 1947 (229) has been omitted for mean in 1903 C.
H. Howell

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	Parish Church.	Distance from gauge.	Direction
1947			ALPBURY	3/4 mi.	N.	ST. MICHAELS	1/4 mi.	S.W.

Station No. 3687

RAINFALL at Morland

41

County of Westmorland Observer F.R. Markham Esq. Died 19.1.48

River Basin Eden - 1

Type of Gauge Glaisher

Annual Average 35.6 in. based on 27 years obs. un-weighted. Period of average 1881-1915 Ref. S

36.84 26 yrs. 1916-50 File No. 662699/26

Diameter	5"										
Height	1' 0"										
Altitude	455'										
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	75	3.11	5.88	3.51							
February	5.62	1.84	2.17	1.45							
March	2.47	3.02	.95	1.33							
April	.49	2.62	2.07	1.06							
May	2.25	2.95	4.65	1.06							
June	.63	.62	2.42	2.18							
July	1.51	2.22	2.60	3.89							
August	5.01	3.10	6.17	1.87							
September	1.03	3.53	3.15	4.19							
October	4.37	3.65	4.78	3.16							
November	2.32	1.25	2.14	6.94							
December	1.67	5.31	2.73	4.82							
TOTALS	28.12	33.22	39.71	35.46	N.R.	N.R.					

1941 gauge in centre of square with 80' sides, with trees 18'-20' high and buildings all round.

1946 (20/4) gauge leaking - minor can. No record sent for 1945

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	Parish Church.	Distance from gauge.	Direction
1941			Blisbury	2 1/2 miles	N.	Morland	165 yds	N.W

Station No. 3689

RAINFALL at Penrith (Lowther Castle)

41

County of Westmorland Observer Mr. J. Jeffery

River Basin Eden - 1 The Head Goumner

Type of Gauge B.A. Snowden

Annual Average 41.8 in. based on 8 years obs. un-weighted. Period of average 1925-1932 Ref. Survey

42.15 29 1916-50 File No. 688124/26

Diameter	5"				604	760					
Height	1' 0"					1					
Altitude	750'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	76	3.72	7.18	4.13	3.36	4.32	5.45	8.82	2.37	2.98	
February	5.27	2.99	3.59	2.06	3.69	3.77	1.13	3.36	3.39	5.19	
March	2.79	2.23	.92	.59	2.13	1.90	6.71	3.41	.95	2.52	
April	.61	3.25	3.18	1.98	1.93	1.26	7.75	2.58	4.41	2.56	
May	2.84	3.27	3.53	1.25	4.25	.77	3.16	2.03	2.68	2.19	
June	.24	.76	3.22	1.98	3.68	3.39	3.20	5.28	.37	1.57	
July	1.53	2.38	1.86	2.83	2.63	3.62	2.90	1.45	2.16	3.95	
August	5.79	4.37	7.07	.97	1.62	4.76	.06	4.52	1.85	6.74	
September	1.06	3.75	4.50	5.21	3.48	6.01	2.83	3.70	1.14	8.07	
October	5.26	3.72	4.38	4.84	6.10	.96	.59	2.83	6.39	3.92	
November	3.09	1.06	3.31	8.43	.40	7.65	4.70	2.52	6.19	3.77	
December	2.33	6.51	2.69	5.45	2.69	4.50	1.69	5.33	7.25	2.48	
TOTALS	31.57 d	38.01 d	45.43 D	39.72 d	35.96 d	42.91 d	40.17 D	45.83 D	39.15 D	45.94 D	

1941:- Fence 5' high 30'S.
1944 - 5' 8" 60'S.

Position of Station on reduced Ordnance Survey Map, 1 mile to 1 inch Series No. of Map Reference No. 35-525329

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge.	Direction from gauge.
1941			Blifton Lowther	1 mile	N. E	Lowther	1 mile	N. W.

Station No. 3691

RAINFALL at Penrith (Barton House)

41

County of Westmorland Observer Mrs Legh Tolson

River Basin Eden - 1

Type of Gauge

Annual Average 42.4 in. based on 5 years obs. unweighted. Period of average 1881-1915 Ref S

File No. 846951/28

Diameter	5"				600	679					
Height	1'					1					
Altitude	500'		X			41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.01	3.03	7.10	3.95	3.54	4.11	5.58	8.92	1.85	2.67	
February	4.98	1.61	3.13	1.44	3.43	3.19	1.38	3.21	3.08	5.49	
March	2.70	3.32	.87	.71	2.24	1.77	7.13	3.56	1.14	3.11	
April	1.19	3.15	2.61	1.58	1.97	1.39	5.17	2.52	3.99	2.56	
May	2.57	3.91	3.92	1.90	4.55	1.30	3.07	1.36	2.82	1.87	
June	.35	.82	2.38	2.42	4.53	2.84	2.98	5.99	.51	1.82	
July	.73	4.90	3.27	3.51	3.60	4.56	2.78	1.41	2.88	4.24	
August	6.40	3.90	7.13	1.14	2.27	6.96	.14	4.04	2.25	6.17	
September	1.25	4.70	5.12	5.37	4.19	5.39	1.94	4.08	1.07	7.16	
October	5.03	4.23	6.27	5.28	5.55	1.02	.78	2.90	6.26	4.13	
November	3.02	1.03	2.94	8.74	.25	7.40	(4.98)	2.63	6.83	4.61	
December	2.06	4.78	2.79	4.78	2.67	3.53	2.28	5.82	7.11	1.88	
TOTALS	31.29 D	39.38 D	47.53 48.53 D	40.82 D	38.79 D	43.46 D	38.21 d	46.44 D	39.79 D	45.71 D	

1942 Herbaceous Border 5' high - N.

1947 Nov. part est.

1943. Corrected for arithmetic, 17/9/57. RLB

00024

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.
1942			Penrith	5 mls.	N.	Barton	3 1/4 mls.	N.

RAINFALL at Temple Sowerby

41

County of Westmoreland Observer R. Eden Catchment Board

River Basin Eden - 1 Cumberland River Board (1951)

Type of Gauge M.O.

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

File No. E 1725/44

Diameter	5"	600	054								
Height	1' 0"		1								
Altitude	355'		41								
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January						7.00	3.14	5.43	1.65	2.26	
February							.63	2.46	2.05	3.15	
March							3.92	1.96	1.09	1.40	
April							4.42	1.82	3.00	2.14	
May						# 1.00	2.13	3.90	2.23	1.56	
June						2.02	2.86	4.97	.56	1.04	
July						3.84	5.16	.98	2.10	3.29	
August						4.52	.11	4.85	1.53	4.93	
September						3.55	2.06	3.09	.96	6.10	
October						.73	.33	2.50	4.54	2.21	
November						4.77	3.32	1.88	4.42	3.92	
December						3.30	1.62	3.98	(5.70)	1.74	
TOTALS						wire D	29.70	37.82	29.83	33.74	

1946 Open site

00014

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	Parish Church.	Distance from gauge.
1946.			Temple Sowerby	4300'	S	Temple Sowerby	900' S.E.

Station No. 3692/16

RAINFALL at Temple Sowerby (Milburn)

41

County of Westmorland Observer Rev. W. Baker

River Basin Eden - 1

Type of Gauge Snowden

Annual Average 31.67 in. based on 8 years obs. un-weighted. Period of average 1916-50 6" too low! 1938-45 Ref.

File No. E.165/42

Diameter	5"				600	000					
Height	0' 11"					1					
Altitude	600'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	.52	(3.34)	4.33	2.36	2.90						
February	4.51	(2.30)	1.92	(1.42)	1.94						
March	2.24	(3.03)	.72	(.64)	1.76						
April	.48	1.43	1.93	1.35	1.78						
May	1.65	2.64	2.96	(1.05)	3.47						
June	.62	.46	2.91	2.92	3.06						
July	.73	3.01	2.43	3.55	1.29						
August	4.62	2.23	4.45	1.88	2.65						
September	.89	3.15	3.17	4.54	2.28						
October	4.01	2.82	4.42	3.57	1.87						
November	2.14	1.07	2.06	4.86	.26						
December	1.25	3.53	1.60	3.12	1.26						
TOTALS	23.66	(29.01)	32.90	31.26	24.52						
	"d.n.p."	n.p.	n.p.	n.p.	n.p.						

1941: n.p. low. Fruit trees 2' high 3' w.
1942: n.p. low. Jan. Feb. & Mar. app'd. & pt. est'd. for snow.
1943 n.p. low
1944 n.p. low.
1945 n.p. low.
1946. Terminated. Readings unsatisfactory

600054
35-609273

Position of Station on reduced Ordnance Survey Map, 1 mile to 1 inch Series No. of Map Reference No. 35. 657290

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge.	Direction
1941			Newbiggin	2 miles	W	Milburn	400 yds	N.W.

Station No. 3694 M

RAINFALL at Windermere (Nurseries)

41

County of Westmorland

Observer The Lakeland Nurseries Ltd

River Basin Leven - 2

Windermere U.D.C. (1945)

Type of Gauge M.O.

Annual Average 61.6 in. based on 6 years obs. un-weighted. Period of average Ref.

61.6 compiled by Mr. Cornish (1944)
FA200487/40.

File No. 15367/30

(Band 2003.6/40)

Diameter	5"				587	355					
Height	0' 10"					1					
Altitude	350'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.15	7.69	11.98	8.90	5.00	8.89	4.65	8.29	5.37	5.31	68.23
February	8.36	2.91	4.61	2.85	7.96	4.62	1.09	4.27	6.05	8.67	51.39
March	4.01	6.16	2.13	7.8	4.42	3.15	6.11	4.17	2.94	4.73	38.60
April	2.20	3.74	4.10	4.78	3.36	1.52	5.97	2.84	7.33	5.49	41.33
May	4.40	5.58	7.19	3.41	5.46	1.61	3.41	2.19	3.39	2.28	38.92
June	.50	.95	5.91	4.85	4.53	4.52	3.89	6.56	.90	3.43	36.04
July	2.40	4.65	5.34	3.62	3.94	5.57	4.10	2.81	3.56	5.92	41.91
August	7.18	6.07	10.49	4.84	2.91	6.29	.20	(7.00)	3.73	8.68	57.39
September	2.16	7.09	7.81	7.36	5.78	11.01	4.25	7.96	1.53	13.28	68.03
October	8.15	7.56	8.44	7.62	7.93	1.04	1.31	5.60	8.03	5.11	66.79
November	4.81	1.99	4.73	10.70	.26	8.94	8.65	6.20	11.48	6.79	64.55
December	4.05	9.68	3.94	8.12	5.12	7.54	2.16	8.55	13.07	3.94	66.17
TOTALS	50.37	64.07	76.67	67.83	56.67	64.70	45.79	66.24 inc	67.38	73.63	633.35

1948. Observer, in reply to query, states gauge defective & leaking (July 1948).

1947 n.p. low.

1948 n.p. inc.

00204

1947 low. Another leak or similar. It can still be found for memo. H.R. 15/7/40

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	Parish Church.	Distance from gauge.	Direction

Station No. 3694/5

RAINFALL at Windermere (St. Rule)

41

County of Westmorland Observer Miss E.M. Bullock

River Basin Leven - 2

Type of Gauge

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

File No. 226900/33

Diameter	5'										
Height	1' 0"										
Altitude	350'										
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.00	6.68	11.66								
February	8.36	2.38	4.19								
March	4.48	6.17	2.23								
April	2.07	3.44	4.16								
May	4.40	4.90	5.75								
June	.50	.97	5.35								
July	2.43	4.35	5.54								
August	7.06	5.37	9.34								
September	2.10	10.66	6.96								
October	7.91	7.12	8.00								
November	4.50	1.57	4.52								
December	3.97	9.44	3.24	#							
TOTALS	49.78 D	63.05 D	70.94 D								

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	Parish Church.	Distance from gauge.	Direction
1941			Windermere	3/4 mile	N.	St. John's, Windermere	1/4 ml.	W.

Station No. 3695

RAINFALL at Windermere (Hammar Bank)

41

County of Westmorland Observer Mrs. H. Coutts

River Basin Leven - 2

Type of Gauge Snowdon

Annual Average 61.4 in. based on 29 years obs. unweighted. Period of average 1881-1915 Ref S

File No. 737293/26

Diameter	5"				587	350					
Height	1'0"					1					
Altitude	200'			X		41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.89	8.61	12.79	8.84	6.14						
February	8.30	2.60	4.09	3.23	7.97						
March	3.83	5.98	2.02	.88	4.03						
April	2.11	3.74	3.95	4.77	3.67						
May	4.37	5.29	7.05	3.12	5.41						
June	.45	.93	4.73	4.68	4.86						
July	2.24	4.68	5.53	3.47	4.12						
August	7.06	6.18	9.79	4.66	3.65						
September	2.03	6.67	7.53	7.24	5.86						
October	8.50	7.04	8.30	7.75	8.49						
November	4.68	2.07	4.48	11.07	35						
December	3.81	9.94	3.42	8.58	5.04	#					
TOTALS	49.27 D	63.73 D	73.68 D	68.29 D	59.59 D	N.R.					

1941: Trees 50' high 15 yds E.
.945 " " 20 yds E to S.
1948 As no action has been received since 1945 nor any reply to our various circulars, the
obs. is assumed terminated

Position of Station on reduced Ordnance Survey Map, 1 mile to 1 inch Series No. of Map Reference No. 34-404991

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge.	Direction from gauge.
1941			Windermere	1/2 mile	S.E.	Windermere	1/2 mile	S.E.

Station No. 3696

RAINFALL at Windermere (Holehead)

41

County of Westmorland Observer H. L. Graves - Esq.

River Basin Leven - 2

Type of Gauge No.

Annual Average 68.0 in. based on 26 years obs. un-weighted. Period of average 1881-1915 Ref S

File No. 895800/29.

Diameter	5'				587	328					
Height	1' 0"					1					
Altitude	483'					41		6188 500'		500'	
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.95	8.41	13.13	9.41	5.89	9.48	7.58	11.78	4.18	(4.62)	7793
February	8.59	2.59	4.56	3.48	8.30	5.76	1.06	5.61	4.41	8.45	5581
March	3.96	5.42	2.20	.79	4.41	3.97	8.91	4.35	2.40	4.85	4226
April	1.98	3.86	4.22	4.90	3.77	1.64	8.14	2.67	5.60	5.15	4393
May	4.20	5.12	6.67	3.03	5.12	1.99	4.05	2.07	3.10	2.19	3954
June	.50	.86	4.32	4.39	4.80	6.16	3.88	7.04	.85	3.18	3598
July	2.13	4.64	5.53	3.76	4.38	5.82	4.31	2.78	2.74	6.46	4355
August	7.09	6.72	9.55	4.92	3.55	6.27	.21	6.45	2.62	11.20	6058
September	2.10	6.37	7.68	7.12	6.08	12.09	4.87	6.78	1.39	14.54	7002
October	8.24	7.43	8.26	7.87	8.41	.94	1.29	4.86	6.51	6.23	6304
November	5.48	2.06	4.34	11.48	.46	11.80	10.54	5.61	7.96	6.62	7135
December	4.03	10.09	3.44	8.76	5.08	8.82	3.52	6.51	8.81	4.04	6910
TOTALS	50.25 D	63.57 D	73.90 D	69.91 D	60.25 D	75.24 D	58.36 D	66.51 D	50.57 N.P.	77.53 D	67309

1941: Raspberry bushes 5' high 50'S.E. Garden Wall 10' high 90'E.S.W. Glasshouse 10' high 72' N.
1944 As above and Apple tree 8 ft. 6 ft. E
1945 " " " 6 ft. 10 ft. S.E.
1948 Gauge moved 45 ft. W. in July. - Raspberries 5 ft. high, 50-80 ft. S.E.
Garden wall 10 ft. " 60 ft. S.W.
Apple trees 6 ft. " 10-24 ft. N.E.
Glasshouse 10-20 ft. 78-60 ft. N.W.
1949 N.P. Low
1950 Fan. funnel leaking, replaced.
1950 fan 1" added due to funnel defect.

32334 66674 40004

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	Parish Church.	Distance from gauge.	Direction
1941			Windermere	1 1/2 miles	S.	Troutbeck	1 1/2 miles	N.

Station No. 3697

RAINFALL at Windermere (Brockhole)

41

County of Westmorland

Observer W. Gaddum Esq. did 1945 Jan.

River Basin Leven - 2

C. Bateman Esq. Aug 1945

Type of Gauge No. 0 B.A. (from 3023/5) ?
Snowdonia (Brockhole)

Annual Average 66.3 in. based on 22 years obs. un-weighted. Period of average 1881-1915 Ref. S

File No. 727965/38

Diameter	5"			587	212						
Height	1' 6"				1	0' 8"					
Altitude	175				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.41	8.62	14.43	10.57	(6.00)	10.32	7.37	11.12	5.12	4.50	8046
February	9.04	2.70	5.09	4.08	(8.30)	5.77	.83	6.59	6.82	8.25	5747
March	4.44	5.72	2.33	88	(4.40)	4.23	9.25	5.47	2.71	4.46	4389
April	2.04	4.04	4.25	4.66	(3.80)	1.58	8.36	3.12	7.69	4.70	4424
May	4.25	5.21	7.04	3.33	(5.10)	1.78	3.89	2.95	4.09	1.88	3952
June	4.2	.97	4.70	5.05	(4.80)	5.99	5.12	6.63	.94	2.62	3724
July	1.80	5.24	5.75	3.85	(4.40)	5.24	3.79	2.99	3.14	6.11	4231
August	7.23	6.78	10.78	4.34	3.55	5.77	.30	7.78	3.45	9.94	5987
September	1.92	6.90	7.68	6.57	6.31	12.57	5.13	7.67	.95	14.40	7010
October	7.93	8.33	9.00	8.07	8.31	.84	1.35	5.13	9.59	6.33	6488
November	6.16	2.44	5.10	9.72	.51	10.89	11.35	6.93	11.43	6.50	7103
December	4.64	11.57	4.00	9.80	5.04	9.09	4.25	6.92	13.60	3.51	7242
TOTALS	52.28	68.52	80.15	70.92	(60.52) inc	74.07	60.99	73.25	69.53	73.20	68343

1944 Record terminated owing to observers illness
1945 H. Bickman from Station 3023/5 has moved to Brockholes (3/5) + reopened this station.
1946 Hours 40' high 80' N. ~~and 30' N. 1944 record~~ 77404
↑ W.M. 3697 Holbeck

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	Parish Church.	Distance from gauge.	Direction
1946			Windermere	2 mls	E	Windermere	1 3/4	E

Station No. 3697/5

RAINFALL at Windermere (Briery Close)

41

County of Westmorland Observer Mrs E. L. Hedley

River Basin Leven - 2

Type of Gauge

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

File No. E 5506/47

Diameter					587	200	5"				
Height						1	1' 0"				
Altitude					*	41	325'				
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January					100	10.75	8.22	12.69	5.52	4.66	
February						5.60	1.20	6.50	6.80	8.78	
March						4.61	8.36	5.36	2.84	4.61	
April						1.63	8.86	3.48	8.02	4.56	
May					100	1.82	4.05	2.60	3.68	2.01	
June					4.59	6.42	4.34	7.59	.92	2.96	
July					4.48	5.67	4.16	2.98	3.04	6.16	
August					4.17	6.90	.25	7.83	3.34	9.52	
September					6.31	12.58	5.15	8.02	1.65	14.06	
October					8.53	.80	1.28	5.22	8.90	5.97	
November					.46	11.03	11.57	6.73	11.49	6.37	
December					4.99	9.10	3.88	8.18	13.11	3.65	
TOTALS					imp	76.91	61.32	77.18	69.31	73.31	

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.
1946.			Windermere	3 miles	South			

Station No. 3698

RAINFALL at Ambleside (Wansfell)

41

County of Westmorland Observer Miss Wigley

River Basin Leven - 2

Type of Gauge

Annual Average 71.9 in. based on 19 years obs. un-weighted. Period of average 1881-1915 Ref S

File No. 830428/28

Diameter	8"										
Height	1' 0"										
Altitude	150'										
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.13	8.86									
February	8.87	2.27									
March	4.36	5.69									
April	2.19	3.82									
May	4.13	5.02									
June	.39	1.08									
July	1.03	5.03									
August	8.85	7.19									
September	2.03	6.87									
October	8.00	8.92									
November	6.18	2.22									
December	4.78	10.67	#								
TOTALS	52.94	67.64									

1942. Greenhouses 10' high 9' E.

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	Parish Church.	Distance from gauge.	Direction
1942			Windermere	3 mls.	S.	Ambleside	1 1/4 mls.	N.

Station No. M 3699

RAINFALL at Little Langdale (Fell Foot)

41

County of Westmorland Observer Miss C. Marshall

River Basin Leven - 2

Type of Gauge

Annual Average 108.2 in. based on 39 years obs. un-weighted. Period of average 1881-1915 Ref S

File No. 66269.2/26

Diameter	5"										
Height	2'2"										
Altitude	380'										
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January											
February											
March											
April											
May											
June											
July											
August											
September											
October											
November											
December											
TOTALS											

war dispense. No further communications from Miss Marshall. Arrived T. 11/12/53

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

Station No. 3699/5 41

RAINFALL at Troutbeck (Yew Tree Cottage) (Tas Howe)

County of Westmorland Observer B. h. Thompson Esq
River Basin Hewen - 2 Mrs. P. M. MOLYNEUX
Type of Gauge Snaddon

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

File No. E 1207/4A

Diameter	5"					587	310			587	319
Height	10"						1			9"	1
Altitude	550'						4			496'	51
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.03	8.98	13.90	10.49	6.44	10.93	8.49	12.44	6.98	5.31	
February	9.69	2.84	5.63	4.04	8.69	6.10	1.32	6.86	7.46	9.15	
March	3.91	6.28	2.65	.73	5.09	4.78	9.05	6.02	3.39	5.16	
April	2.31	3.95	4.83	4.84	3.67	1.90	9.49	3.82	9.87	5.75	
May	4.52	4.90	7.19	2.61	5.04	1.69	4.26	2.59	3.85	3.08	
June	.57	.99	5.69	5.44	4.73	6.83	4.54	8.81	.84	3.36	
July	2.05	5.99	5.43	4.09	5.08	6.52	4.44	3.72	3.51	6.13	
August	7.31	7.84	10.85	4.95	3.96	7.06	.16	7.97	3.88	10.30	
September	2.24	7.04	7.92	7.63	6.45	12.65	5.47	8.75	2.28	13.73	
October	8.68	7.77	8.76	8.03	7.93	.93	1.72	6.40	8.69	6.20	
November	5.96	2.19	5.17	12.93	.57	12.42	12.88	7.45	11.72	6.58	
December	5.17	11.50	3.77	9.52	5.31	8.02	3.91	8.57	13.78	3.79	
TOTALS	54.44 np late	70.27 np late	81.79	75.30 D	62.97 D	79.83 D	65.73 D	83.40 D	76.25 D	78.24 D	

Back years 1941, 1942 rec'd in April 1944. Resumes to 1944. 25.6.44
1944 Pond 2 ft N. Bushes 6 ft, 25 ft. S.W. wall 4 ft, 25 ft S.W. Buildings 30 ft N.
1950 G. maner about 2/3 - 3/4 mi. S.E. to Troutbeck

Position of Station on reduced Ordnance Survey Map, 1 mile to 1 inch Series No. of Map Reference No. 25-411034

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

RAINFALL at Ambleside (Lakes U.D.C.) Station No. 2700/5
M.W.R.

41

County of Westmorland Observer The Clerk to the Council

River Basin Leven - 2

Type of Gauge M.O.

Annual Average 70.9 in. based on 11 years obs. un-weighted. Period of average 1881-1915 Ref. I.W.S.
66.8 computed by M. Cornish (1944) 1937-47
44200 48740 File No.

Diameter	5"				587	136					
Height	1'0"					1					
Altitude	145'					4			X		
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.68	8.38	14.03	10.92	6.33	12.29	8.84	13.68	6.60	5.47	8822
February	8.35	2.11	5.16	3.97	10.03	6.27	1.30	7.22	7.90	8.91	6122
March	4.55	5.39	2.56	.80	4.84	4.54	9.58	6.54	2.90	5.03	4673
April	2.31	3.90	4.47	4.74	4.01	1.82	9.89	3.44	8.86	5.42	4886
May	4.31	5.46	7.14	3.61	5.47	1.60	4.31	2.79	3.54	2.02	4025
June	.52	1.02	4.73	5.78	4.89	6.62	4.63	8.49	1.35	3.00	4103
July	1.71	5.16	5.62	3.76	4.99	5.62	4.31	3.48	3.01	6.25	4391
August	9.57	7.10	10.90	4.73	2.48	7.85	21	8.32	3.75	10.45	6536
September	2.07	6.66	8.33	9.05	8.24	12.47	6.21	9.40	1.89	16.29	8061
October	9.18	8.96	9.45	8.15	8.99	.75	1.86	5.84	9.40	7.02	6960
November	6.24	1.98	5.06	13.15	.45	12.57	13.68	7.44	13.28	7.27	8111
December	5.52	10.99	3.65	8.85	5.70	9.98	4.42	9.07	14.43	4.34	7695
TOTALS	56.01	67.11	81.09	77.51	66.42	82.38	69.24	85.71	76.91	81.47	74385

* Years before 1937 not used because defective.
1950 Inspected. Found sover-shattered by refuse top. Proposed new site has shattered.
1950 Dec part est

* Taking 2/10 inches over Windermere Basin for years 1938-1947. This average looks 3 or 4 inches too high.

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	Parish Church.	Distance from gauge.

Station No. 3700/4

RAINFALL at Ambleside (Longhigg Brook)

41

County of Westmorland

Observer Mrs J. E. Crayke died 1944

River Basin Leven - 2

Type of Gauge

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

File No. 770197/38

Diameter	5"										
Height	0' 8"										
Altitude	250'										
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.08	8.08	14.74								
February	9.19	3.19	6.01								
March	4.40	5.04	3.03								
April	2.39	4.15	5.10								
May	4.63	5.92	7.84								
June	58	1.15	5.36								
July	1.92	5.55	6.16								
August	9.51	7.77	11.59								
September	2.19	7.36	9.16								
October	9.49	10.05	10.10								
November	6.20	2.09	4.84								
December	6.01	12.73	4.01								
TOTALS	58.59 D	73.08 D	87.94 D								

1943 Station terminated on death of observer.

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	Parish Church.	Distance from gauge.	Direction
1941			Windermere	5 miles		Ambleside	2 mile	

Station No. 3701

RAINFALL at Ambleside (Market Square)

41

County of Westmorland

Observer G.A. Johnston Esq. M.D.

River Basin Seven - 2

Type of Gauge

Annual Average 75.1 in. based on 33 years obs. un-weighted. Period of average 1881 - 1915 Ref S

79.48 " " 35 " " 1916-1950

File No. 1916-1950 no file P

Diameter	5"			587	135						
Height	1' 0"				1						
Altitude	180'				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.47	9.42	14.67	12.08	7.29	13.08	9.87	14.68	6.90	5.80	9.626
February	10.22	2.74	5.19	4.74	10.49	6.19	1.79	7.16	8.20	9.40	6.612
March	4.72	6.48	2.76	.89	4.77	4.96	11.21	6.50	3.20	5.40	5.089
April	2.11	4.36	4.85	5.04	4.34	1.95	10.53	3.40	9.20	5.70	5.148
May	4.30	5.44	7.63	3.75	5.66	1.56	4.48	2.97	3.80	2.90	4.189
June	.55	1.08	5.18	5.95	5.05	7.00	4.68	9.38	1.50	3.30	4.367
July	1.56	5.14	6.11	4.50	5.16	5.99	4.18	3.39	8.30	6.60	4.593
August	7.73	7.92	11.45	4.83	2.97	8.41	.21	8.27	4.00	10.90	6.669
September	2.08	6.84	8.63	9.43	8.55	13.15	6.07	8.81	2.10	16.60	8.226
October	9.21	9.94	9.77	8.74	9.90	2.32	1.99	6.36	9.80	7.30	7.533
November	6.40	2.01	5.42	13.95	.54	13.66	14.58	7.72	13.50	7.60	8.538
December	5.56	11.83	3.95	10.00	5.68	10.14	4.51	9.27	12.50	4.60	8.104
TOTALS	56.91	73.20	85.61	83.90	78.40	88.41	74.10	87.91	81.00	85.90	78.624

1941: Wall 10' high 30' N.

entry 3700/5

Position of Station on reduced Ordnance Survey Map, 1 mile to 1 inch Series No. of Map Reference No. 35-376023

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge.	Direction from gauge.
1941			Windermere	4 3/4 miles	S.S.E	St. Mary's Ambleside	300 yds	W.

Station No. 3703

RAINFALL at Rydal (The Stepping Stones)

41

County of Westmorland Observer Mrs Dorothy Dickson

River Basin Leven - 2

Type of Gauge

Annual Average 80.6 in. based on 28 years obs. un-weighted. Period of average 1881-1915 Ref S

File No. 816838/28

Diameter	5"										
Height	1' 3"										
Altitude	190'										
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.10	8.68	16.05	12.59							
February	9.66	2.31	6.12	4.47							
March	4.49	5.80	3.02	4.8							
April	2.31	4.31	5.06	5.14							
May	4.51	6.71	8.53	4.48							
June	.54	1.37	6.20	6.63							
July	1.99	5.96	6.00	4.14							
August	10.94	9.08	12.05	(5.14)							
September	2.09	7.48	10.08	(11.10)							
October	8.59	9.18	11.82	10.02							
November	6.65	2.36	6.04	13.34							
December	6.20	12.73	3.44	9.32							
TOTALS	60.07 d	75.97 d	94.41 d	(86.85) d	N.R.	N.R.					

1941: Vegs. & Trees.
1944. Aug-Sep packed.
1947 T. action taken, unable to ensure regular readings.

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	Parish Church.	Distance from gauge.	Direction
1941			Windermere	7 miles	S.	Rydal	1/2 mile	E

Station No. 3705

RAINFALL at Rydal (High Close)

41

County of Westmorland Observer F. E. Jones Balme Esq.

River Basin Leven - 2 MRS (M) JONES BALME

Type of Gauge Gauging

Annual Average 83.3 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref B.S. N.

File No. 765423/27

Diameter	8"											
Height	0' 9"											
Altitude	553'											
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1941-50 Means Totals	
January	2.10	9.83	15.94	13.82	7.68	14.22	9.75	15.60	7.33	6.11	102.28	
February	10.60	2.66	7.10	4.56	12.11	8.49	1.34	9.31	9.07	10.63	75.87	
March	4.36	5.79	3.14	1.30	5.63	5.37	11.13	6.98	3.45	6.12	53.27	
April	2.53	5.13	5.62	4.53	4.59	2.29	12.27	4.23	11.55	6.53	59.27	
May	5.15	7.03	7.67	4.91	6.14	1.69	5.10	3.65	4.01	2.95	48.30	
June	.62	1.37	6.04	7.87	6.45	7.10	4.29	9.93	1.31	3.58	48.56	
July	1.80	6.58	5.74	4.52	6.48	5.74	4.59	4.29	3.51	6.17	49.42	
August	11.22	9.46	13.32	5.86	2.55	9.10	.12	9.73	4.74	12.83	78.93	
September	1.90	8.29	10.43	11.32	8.20	13.99	7.29	9.59	2.69	18.59	92.29	
October	10.07	11.86	11.73	10.51	10.55	.97	2.09	6.84	11.18	8.94	84.74	
November	6.66	2.51	6.71	14.11	.65	15.71	16.06	8.16	15.02	8.82	94.41	
December	5.84	13.68	4.61	9.41	6.10	11.10	5.69	9.57	16.45	5.04	87.49	
TOTALS	62.85	84.19	98.05	92.72	77.13	95.77	79.72	97.78	90.34	96.31	874.83	

778.524

1949 Summary. Glasbury?

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	Parish Church.	Distance from gauge.

Station No. 3706

RAINFALL at Rydal (The Hall)

41

County of Westmorland Observer R. E. Porter Esq.

River Basin Leven - 2

Type of Gauge Snowdon

Annual Average 82.1 in. based on 8 years obs. un-weighted. Period of average 1881-1915 Ref S

File No. 84303/31

Diameter	5"				587	060					
Height	1'0"					1					
Altitude	354'					41			X		
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.19	10.28	15.50	11.96	7.04	12.99	9.34	13.92	7.28	6.02	96.52
February	9.81	2.48	6.12	4.66	10.77	6.64	1.03	8.76	8.23	7.88	69.38
March	4.49	5.80	3.04	.86	4.98	5.67	10.58	6.65	3.02	5.05	51.14
April	2.57	4.57	5.21	5.36	4.53	1.94	11.72	3.91	10.00	5.81	56.12
May	4.81	6.84	8.66	4.29	5.69	1.72	4.53	2.77	3.71	2.59	45.61
June	.49	1.40	6.67	7.18	5.70	7.58	5.33	10.07	1.43	3.73	49.58
July	2.06	5.93	4.29	5.00	6.09	5.95	4.66	4.22	3.87	6.59	48.66
August	10.95	9.71	12.87	5.58	2.38	8.66	.19	9.62	4.17	11.21	75.84
September	2.27	7.74	10.53	10.45	9.38	14.73	7.11	9.82	2.17	18.55	93.35
October	10.08	10.54	11.37	10.24	10.07	.99	2.09	6.58	11.02	8.10	80.08
November	6.80	2.33	5.91	13.45	.56	14.18	15.56	8.45	12.42	8.26	89.92
December	6.04	13.71	4.49	9.34	5.44	10.82	5.08	9.91	15.92	(4.27)	85.02
TOTALS	62.56	81.33	94.66	88.37	72.63	91.87	77.22	94.68	83.34	90.06	842.22

1941:- Shrub 30' high 26' N.

1947:- " 35'

1950 Small leak in funnel of gauge repaired 6/50.

1950 Shrub 40 ft. high 26' N. Dec 1950 part ext in agreement with observer.

4-3705

00764 34014

Leak

for 1931-60
missing

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	Parish Church.	Distance from gauge.	Direction
1941			Windermere	6 miles	S.S.E.	Rydal	175 yds	S.

Station No. 3706/4

41

RAINFALL at Middlefel Farm

County of Westmorland Observer Miss C Marshall

River Basin

Type of Gauge

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

File No.

Diameter											
Height											
Altitude											
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January											
February											
March											
April											
May											
June											
July											
August											
September											
October											
November											
December											
TOTALS											

war suspense. No further communications from Miss Marshall. Assumed T. 11/12/53.

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	Parish Church.	Distance from gauge.	Direction

Station No. 3707/5

RAINFALL at GREAT LONGDALE (Long House)

41

County of WESTMORLAND Observer MRS. GADHAM SATON

River Basin LEVEN - 2

Type of Gauge SNOWDON

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

File No. E.12663/52

Diameter					586	841				5"	
Height						1				1' 0"	
Altitude						41				340'	
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January										# 9.59	
February										13.76	
March										8.69	
April										8.03	
May										3.22	
June										5.68	
July										7.44	
August										16.45	
September										22.57	
October										9.87	
November										11.32	
December										5.52	
TOTALS										122.14	
										D	

1950 Stone wall 4' high, 15' x 15' N, then 20' high 30' x 15' W, then 30' high 70' x 15' E
1950 gauge apparently moved 1 mi SE 20/1-13/2 + 22/9 - 12/10. We assume obs. was on building removed contents of record by transfer to present. H.R.

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	Parish Church.		Distance from gauge.	Direction
1950			Windermere	8 1/2 mi	SE	Chapel Stile		1 1/2	SE

Station No. M 3708

RAINFALL at Mickleden.

41

County of Westmorland

Observer Miss C. Marshall

River Basin Leven - 2

Type of Gauge.....

Annual Average 130.8 in. based on 38 years obs. un-weighted. Period of average 1881 - 1915 Ref. S

File No. 662692/26

[illegible]

war suspense. No further communications from Miss Marshall. Arrived V. 11/12/53.

Position of Station on reduced Ordnance Survey Map, 1 mile to 1 inch Series } *No. of Map*.....

Reference No.....

[illegible]

BRITISH RAINFALL ORGANIZATION

RAINFALL at Grasmere (The Tarn) (Windermere) 41

Station No. M 3709

County of Westmorland Observer Miss G.M. Simpson

River Basin Leven - 2 John Abbott Esq. (1945)

Type of Gauge

Annual Average 88.5 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref B of N
95.40 " " " " " 1916-1950 1916-1950 823.761/18 P
File No. 823.761/18

Diameter	5"										
Height	1'0"										
Altitude	221'										
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.03	11.74	15.83	14.28	6.91			65.21			109.09
February	10.89	3.43	7.86	4.86				49.43			76.47
March	4.79	6.11	3.73	1.26				38.89			54.78
April	2.56	5.82	6.06	5.73				39.32			59.49
May	5.99	7.65	7.45	4.56				22.80			48.45
June	62	1.52	7.11	8.54				39.86			57.65
July	2.08	6.19	6.37	4.97				32.60			52.21
August	11.50	10.50	13.44	6.22				43.16			84.82
September	2.03	9.43	10.82	10.77				64.91			97.96
October	11.05	12.16	13.25	10.94				42.42			89.82
November	7.95	2.29	6.92	13.75				68.47			99.38
December	6.49	15.31	5.02	11.30				54.77			92.89
TOTALS	67.98	92.15	103.86	97.18				561.84	*		923.01

1941:- Iron railings 3½' high 4' E.
1945. Feb. 1st gauge moved 1 ml. E. to stn. no 3709/7.

* 1945-50 from Meadow Row 3709/7
no factor

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	Parish Church.	Distance from gauge.
1941			Windermere	7 miles	S.E	Grasmere	600 yds E.
1945			"	"	" "	"	1400 yds SE

Station No. 3709/5

RAINFALL at Ambleside (Kinkstone Pass)

41

County of Westmorland Observer Freshwater Biological Assn.

River Basin Leven Kent - 2

Type of Gauge M.O.

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

File No. 732298/38

Diameter	5"										
Height	1' 0"										
Altitude	1486'										
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.64	10.00	(18.84)								
February	10.50	3.23	(8.95)								
March	4.99	5.83	(3.50)	.95							
April	2.96	5.73	5.69								
May	6.25	6.32	9.75								
June	.68	1.33	4.62								
July	2.94	7.13	(7.90)								
August	13.33	8.90	12.50								
September	2.40	8.50	9.25								
October	9.22	12.61	11.10								
November	8.48	1.98	(5.70)								
December	7.61	7.86	4.25								
TOTALS	72.00 d	79.42 d	(102.05) np.	#	N.R.	*	N.R.				

1942 7th - file ref. not able to read daily
1943 np too much saturation
1944 Record retained in file 1944 March may be reasonable for rest of year record unreliable
1945 No record read
1946 Returned on file - daily readings unreliable
1947 N.R. made owing to shortage of help

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	Parish Church.	Distance from gauge.

Station No. 3709/7

41

RAINFALL at Grasmere (Meadow Brow)

County of Westmorland Observer J. Alkott Esq.

River Basin Leven - 2

Type of Gauge Snowden

Annual Average 88.5 in. based on years obs. un-weighted. Period of average Ref AWS

Adopted av. for 3709 HR 9151 File No. 823761/28

Diameter					5		586	943			
Height					1 0			1			
Altitude					350			41			
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January					7.92 (6.77)	16.59	9.62	14.79	7.13	7.17	6521
February					12.45	6.56	(1.50)	7.81	9.07	12.04	4942
March					4.86	6.86	(11.00)	6.19	3.73	6.25	3889
April					4.44	1.67	12.71	5.06	9.18	6.31	3932
May					6.68	1.65	4.61	3.52	3.80	2.84	2280
June					6.12	7.99	7.10	12.58	1.45	4.32	3986
July					5.89	6.14	5.22	5.29	3.49	6.57	3260
August					2.78	9.44	.20	10.00	4.97	15.77	4316
September					8.70	15.14	7.75	10.63	2.91	19.78	6491
October					10.64	1.43	2.25	6.74	12.78	8.58	4242
November					.44	17.20	17.31	8.80	15.97	9.05	6847
December					6.63	10.80	5.36	12.57	16.02	5	5477
					77.55						
TOTALS					77.55 (6.54 imp)	101.47 100.47	84.63	106.88	90.75	102.47	56184

Moved from Stn. No. 3709.
1945. High Wind, 30ft. NW. Observed. Well does not affect catch.
1947 Feb-March corr. for snow.

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	Parish Church.	Distance from gauge.	Direction
1945			Windermere		SE.	Grasmere	1400+	S.

Station No. 3710

RAINFALL at Burton (Under Fell)

41

County of Westmorland Observer J. B. Hoyle Esq.

River Basin Kent - 3

Type of Gauge M.O.

Annual Average 42.3 in. based on 8 years obs. unweighted. Period of average 1881-1915 Ref. S PB 734
4476 23 1921-63 1916-1950 File No. 301947/34

Diameter	5"										
Height	0' 9"										
Altitude	225'										
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	65	5.17	5.12								
February	4.00	1.81	2.24								
March	2.62	2.81	1.34								
April	1.12	1.40	2.81								
May	3.12	3.18	4.00								
June	47	1.04	4.06								
July	2.68	4.77	5.87								
August	5.08	4.50	8.30								
September	2.07	5.32	4.10								
October	7.47	5.32	5.73								
November	2.22	.95	2.63								
December	2.19	5.16	2.16								
TOTALS	33.69 D	41.43 D	48.96 2	NR							

1941:- Greenhouse 12' high 9 yds N.W. Greenhouse 16' high 18 yds W.
No further records kept as limited 12/10/53
T. for duration

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	Parish Church.	Distance from gauge.	Direction
1941			Burton & Holme	1 mile	W.	Burton	1/4 mile	N.W.

RAINFALL at Milnthorpe (Brooklands) Station No. 3711/6

41

County of Westmorland Observer Blocks and Inland Waterways
River Basin Kent - 3
Type of Gauge Glaisher

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

File No. 154495/27 67003/26

Diameter					584	589			9"		
Height						1			2'-0		
Altitude						41			150'		
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January									3.92	3.58	
February									3.79	6.63	
March									2.14	3.49	
April									6.48	3.82	
May									3.80	2.32	
June									1.14	4.00	
July									5.73	4.91	
August									3.80	8.82	
September									1.63	9.15	
October									7.39	4.60	
November									8.41	5.16	
December									9.22	2.42	
TOTALS									57.51 N.P.	58.90 D.P.	

450 bollage 22ft high 33' N.
1950 up high

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	Parish Church.	Distance from gauge.
1950			Milnthorpe	1 1/2 m.	W.S.W.	Justin Patrick	1/4 m E.S.E

RAINFALL at Milnthorpe Heversham School Station No. 3711/7 41
County of Westmorland Observer T.R. Burpham Hodgson Esq
River Basin Kent-3 The Headmaster
Type of Gauge RA

Annual Average.....in. based on.....years obs. un-weighted. Period of average.....Ref.....
c. 1941. File No. A 20 2139/42

Diameter	5"										
Height	9'										
Altitude	79'						80'				
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	(1.10)	4.27	(6.60)	(4.30)	2.91			.95			
February	3.71	1.88	(2.22)	(1.75)	4.01			3.45			
March	2.76	3.16	1.29	(.50)	(2.16)			2.14			
April	(1.10)	1.73	(2.68)	(2.75)	(2.15)						
May	(3.27)	3.91	5.12	(2.24)	3.72			.74			
June	.49	1.09	4.56	(2.33)	3.45			4.24			
July	2.40	4.65	(5.30)	(3.50)	3.15			1.71			
August	(3.70)	(4.50)	(7.50)	(3.50)	(1.40)						
September	(1.37)	(4.78)	(5.11)	(5.50)	(3.83)		Inc.	1.20			
October	6.67	(4.60)	5.52	4.34	5.13		.58	2.61			
November	2.46	1.33	2.33	7.02	.20		Inc.	4.37			
December	(2.00)	(4.74)	(2.45)	(3.85)	(2.35)			2.91			
TOTALS	(31.03)	(40.64) n.p.	(50.68) n.p.	(41.58) n.p.	(34.46) n.p.	N.R.	Inc. n.p.	Inc d.p.	#		

1941. Jan & Dec estd. Apr. May apportioned Aug. & Sept apportioned Sept estd.
Large mesh wire netting 7' high 3' S.W. Tree 25' high 50 yds N.E. Beech Hedge 10' high 30' N
1942 n.p. too much estimation.
1943 n.p. too much estimation
1944 n.p. too much est (g. damaged Jan-April)
Stone building 30 ft. 50 ft. N. House 80 ft. 70 ft. S. Moved June 1941 300 ft. S.
1945 n.p. too much est.
1946 Book records cannot be found
1947 n.p. etc.
1948 Terminated by us as returns in recent years have been unreliable

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
1941			Heversham	$\frac{3}{4}$ m	S	Heversham	200 yds	S.E

Station No. 3711/9.

RAINFALL at Lupton Res.

41

County of Westmorland Observer Lakeland Lines

River Basin Kent/3. Eaten Bazaar

Type of Gauge Sounding

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

File No. E 10038/49

Diameter	5"				584	635					
Height	1' 0"					1					
Altitude	550'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.39	4.86	8.80	7.48	5.92	4.92	5.29	9.54	3.96	3.66	
February	4.28	2.65	3.12	1.90	5.22	4.60	0.16	3.84	3.58	6.30	
March	3.26	2.78	1.56	0.48	2.91	1.75	5.47	4.05	2.11	2.56	
April	1.93	2.08	3.04	3.26	3.24	1.71	5.19	2.45	5.84	3.67	
May	3.32	4.01	4.74	2.61	4.09	0.60	3.11	2.44	2.92	1.76	
June	0.33	1.16	5.10	4.13	4.16	4.85	4.29	6.66	1.15	5.16	
July	3.54	5.01	5.67	6.24	3.64	5.96	5.23	3.28	6.96	6.46	
August	4.77	4.78	9.60	5.30	2.16	5.86	0.37	7.64	3.73	9.53	
September	1.48	6.21	5.27	7.08	5.05	8.45	4.86	7.22	2.12	9.19	
October	7.56	5.89	6.86	5.21	6.95	0.37	0.80	4.49	6.88	4.72	
November	2.65	1.17	3.60	8.31	0.40	7.39	8.75	5.31	6.27	5.28	
December	2.35	5.66	2.76	4.70	2.94	5.28	1.58	3.05	7.76	2.13	
TOTALS	36.86	46.26	60.12	56.70	46.68	51.74	45.10	60.17	53.38	60.42	
	N.P.	N.P.	N.P.	N.P.	N.P.	N.P.	N.P.	N.P.	N.P.	N.P.	

Back records 1941-50.

89

Position of Station on reduced Ordnance Survey Map, 1 mile to 1 inch Series No. of Map 89 Reference No. SD(34)574834

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

Station No. 3712

RAINFALL at Heversham (Plumtree Hall)

41

County of Westmorland

Observer Miss M.C. Watson died Sept. 1946

River Basin Kent - 3

Miss Lilian Watson

Type of Gauge M.O.

Annual Average 45.7 in. based on 19 years obs. un-weighted. Period of average 1881-1915 Ref S

File No. 1944/30

Diameter	5"	584	957								
Height	1' 0"		1	3' 7"		1' 0"		3' 7"	1' 0"		
Altitude	120		41								
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1941-50 Means
January	1.18	4.56	6.74	4.39	3.09	4.32	4.53	8.14	2.51	2.24	41.70
February	3.71	1.62	2.02	1.76	4.94	3.29	.57	2.67	2.28	4.91	27.77
March	2.83	3.16	.92	.42	2.13	1.54	5.28	2.65	1.72	2.41	23.06
April	1.19	1.89	2.44	2.75	2.16	1.49	3.79	1.98	4.07	2.88	24.34
May	3.44	3.72	5.37	2.46	3.91	1.96	3.44	2.03	2.92	1.85	31.10
June	.45	1.12	3.40	2.82	3.88	3.96	3.52	6.80	.95	2.64	29.54
July	3.18	4.06	5.02	3.85	2.83	4.79	4.02	1.99	4.16	4.72	38.62
August	3.80	4.68	7.18	3.63	1.41	5.09	.21	4.87	2.76	7.78	41.41
September	1.66	5.39	4.99	5.64	3.91	6.82	3.84	5.77	2.00	8.54	48.56
October	6.51	4.59	5.32	4.73	5.29	1.19	.60	3.11	6.71	4.00	42.05
November	2.63	1.24	2.51	7.65	.20	6.26	6.28	4.21	6.32	4.65	41.95
December	1.90	4.69	2.25	3.68	2.77	5.07	2.21	3.67	5.77	2.64	34.55
TOTALS	32.48	40.72	48.16	43.78	36.52	45.78	38.29	47.79	42.77	48.96	424.65

ft. gauge on steep ground near well which drops to field below. (20 is 1 ft above ground on which it stands)

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			Heversham	1020 yds	S	Heversham	220 yds	S.

RAINFALL at Endmoor (Treyat Gdns)

Station No. 3712/3

County of Westmorland Observer Miss J Weston

River Basin Kent. 3

Type of Gauge

41

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

File No. E 460/43

Diameter	5					584	570				
Height	1 6		0' 9"				1				
Altitude	300						41				
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	# 4.79	7.16	5.48	4.21	4.55						
February	1.52	2.72	1.99	5.37	3.73						
March	3.51	1.18	.52	2.93	1.91						
April	1.96	2.69	3.06	2.44	1.79						
May	4.12	4.94	2.90	4.05	1.10						
June	1.03	5.03	3.78	4.43	4.97						
July	4.75	5.35	4.21	2.79	5.10						
August	5.33	8.96	4.59	2.14	7.02						
September	5.99	5.44	5.89	4.60	7.45						
October	5.72	5.69	5.10	6.68	1.20						
November	1.42	2.70	7.77	.32	7.15						
December	5.36	2.51	4.55	2.98	4.80						
TOTALS		45.50 D	54.43 D	49.84 D	42.94 D	50.77 D	#				

1942 House 20' high N.W.
1948 Informed by Miss Weston that record her census (see en. 57, E 460/43)

Position of Station on reduced Ordnance Survey Map, } 1 mile to 1 inch Series				No. of Map.....		Reference No. <u>34-540851</u>		
Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge.	Direction
1942			Milnthorpe	3m.	S.W.	Preston Parish	1m	S.

Station No. 3713

41

RAINFALL at Levens (Beathwaite)

County of Westmorland Observer Robert Bush Esq.

River Basin Kent - 3 JOHN A. BUSH, Esq.

Type of Gauge Snowden

Annual Average 46.8 in. based on years obs. un-weighted. Period of average Ref

File No.

Diameter	5"				586	051					
Height	1' 0"					1					
Altitude	105'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.68	6.32	8.40	6.05	4.59	6.03	4.16	9.16	3.54	3.40	52.73
February	4.56	1.91	3.16	2.23	6.16	5.34	.94	3.82	3.67	6.09	31.88
March	3.36	3.56	1.38	.50	3.29	2.31	5.96	3.62	2.14	3.11	29.26
April	1.41	2.25	3.10	3.41	2.47	1.44	5.34	2.48	5.58	3.80	31.28
May	3.92	3.80	5.52	2.97	4.29	1.71	3.34	1.94	3.02	2.01	32.52
June	.63	.95	4.59	3.66	4.49	4.53	3.66	7.61	.94	3.34	34.40
July	2.89	4.57	5.63	3.92	3.26	5.99	3.84	2.45	4.67	5.39	42.11
August	4.19	5.10	3.12	4.29	1.84	5.47	.29	5.67	3.09	9.37	48.43
September	1.62	7.06	5.46	6.06	4.99	8.60	4.27	6.86	1.89	10.62	57.43
October	7.49	6.27	6.88	5.47	6.76	1.02	.87	4.10	7.33	5.44	51.63
November	3.23	1.24	3.56	8.96	.22	8.07	8.48	4.90	7.31	5.70	51.67
December	3.32	5.86	2.68	5.01	3.56	6.23	3.01	4.20	8.57	3.37	45.81
TOTALS	37.20	48.89	59.48	52.53	45.92	56.74	44.16	56.81	51.78	61.64	515.15

1941: House 12' high 36' E.

* Used in General Tables in italics: origin unknown.

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	Parish Church.	Distance from gauge.	Direction
1941			Kendal	5 miles	N.	Levens	500 yds	S.

Station No. 3714

41

RAINFALL at Killington Reservoir

County of Westmorland

Observer L. S. Rly Co.

River Basin Kent - 3

British Railways

Type of Gauge M.O.

Docks & Inland Waterways

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

49.8 computed by Mr. Cornish (1944) f A206487/40

File No. 756495/27

Diameter	5"				584	480					
Height	1' 0"					1					
Altitude	670'	X				41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	68	6.64	7.69	6.46	4.81	5.31	5.24	9.77	3.57	3.37	53.54
February	5.61	2.45	3.46	2.52	6.49	3.93	1.46	4.06	3.75	5.34	39.07
March	3.07	3.28	1.49	4.3	3.46	2.22	8.05	3.74	1.45	2.90	30.09
April	1.62	2.36	3.39	3.39	2.35	1.89	5.52	2.56	5.82	3.55	32.45
May	3.10	4.83	5.24	2.91	3.72	1.73	3.44	2.89	3.44	1.68	32.98
June	70	1.20	5.24	4.86	5.13	4.48	5.33	8.72	1.12	5.57	42.35
July	2.77	5.36	5.97	4.77	2.84	5.28	6.09	4.39	4.98	5.62	48.07
August	4.87	6.00	8.04	5.70	2.88	6.24	32	6.48	3.66	10.62	54.81
September	1.44	6.71	5.68	6.66	4.49	8.53	4.75	7.65	2.14	9.49	57.54
October	6.97	5.48	6.87	5.20	7.44	78	73	4.94	6.83	5.20	56.44
November	3.40	1.35	3.21	8.78	24	8.46	10.79	5.72	5.60	5.87	53.42
December	3.22	6.55	3.18	5.33	3.34	5.40	3.87	3.96	8.33	2.86	46.04
TOTALS	87.45	52.21	59.46	57.01	47.19	54.25	55.59	64.88	50.69	62.07	540.80

1941 Buildings 21 1/2' high 145 S. Trees 10'-40' high 50' N. Stone Wall 5' high 80' S.E

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	Parish Church.	Distance from gauge.	Direction
1941			Oxenholme	4 1/2 miles	N.W.	Killington	2 1/2 miles	S.

Station No.

374/2

RAINFALL at Kendal (Crosthwaite, Loud Fell)

41

County of Westmorland

Observer Norman F. Wilson Esq.

River Basin Kent - 3

Type of Gauge Snowdon

Annual Average 54.6 in. based on 11 years obs. un-weighted. Period of average 1881 - 1915 Ref I.W.S.

File No. 822588/38

Diameter	5"				586	27	DET. O.8 RAINMASTER RETROSPECTIVE SITE REVIEW						586255
Height	8'0"						NGR: SD(34)421909						
Altitude	200'						ALT: 200 ft = 61 metres. Date of review: 3/11/78						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means		
January	1.55	7.17	10.10	7.05	5.15	7.31	5.47						
February	5.86	2.62	3.60	2.21	6.57	4.82	.91						
March	3.80	4.91	1.54	.76	3.36	2.93	7.97						
April	1.93	2.71	3.10	3.67	2.86	1.64	5.79						
May	4.68	4.89	4.95	2.74	4.92	1.74	3.54						
June	.65	1.29	4.51	4.55	5.17	4.70	3.53						
July	2.68	4.69	5.63	3.70	3.16	5.15	3.81						
August	5.16	5.47	7.91	4.72	1.78	4.84	.31						
September	1.97	6.56	6.47	6.45	5.46	9.58	4.47						
October	8.34	6.21	6.51	6.27	7.23	.93	.95						
November	3.55	1.50	3.92	9.27	.33	10.34	8.16						
December	3.73	7.07	3.22	5.95	3.84	7.03	3.40						
TOTALS	43.90	55.09	61.64	57.34	49.83	61.01	48.31						

1941: - Few small fruit trees 5' high 6-10yds mostly S.W.

1944 In orchard on gradually rising ground sloping up to W. trees all 5yds to 10yds S.W. some 20 ft high.

1949. No record kept during 1948 owing to obs'n. illness. Record complete (see enc. 9, 822588/38)

* SN 586270 allocated incorrectly - changed to 586255 3/11/78 JFL.
C.1959Position of Station on reduced Ordnance Survey Map,
1 mile to 1 inch Series

No. of Map

Reference No. 34-421909

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge.	Direction from gauge.
1941			Newby Bridge LMS	5 miles	S.W.	Crosthwaite	2 miles	E

BRITISH RAINFALL ORGANIZATION

Station No. 3714/9.

RAINFALL at KENDAL SCHOOL

41

County of WESTMORLAND Observer N. WHITTON Esq.

River Basin 3- KENT

Type of Gauge M.O.

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

File No. E 5059/47

Diameter				585	693			5'			
Height					1			1' 0"			
Altitude					41			136'			
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January							100	8.74	3.55	3.07	
February							100	4.10	4.03	5.95	
March							100	3.87	2.08	3.16	
April							5.46	1.86	5.92	3.71	
May							3.20	1.39	2.89	1.68	
June							3.62	6.78	.99	3.99	
July							4.50	2.63	4.32	4.99	
August							.19	6.22	2.92	8.85	
September							4.27	6.50	2.04	10.30	
October							.59	4.14	4.31	5.19	
November							8.30	4.65	6.06	5.26	
December							2.69	5.15	9.26	3.38	
TOTALS							100 Imp. NP.	56.03 D	51.37 D	59.53 D	

1947 Gauge moved 2.9.47, 120°, 260°. Tree 60ft. high 158ft., 275°. Building 50ft. 208ft. 310°.
1948 " " 230ft. in a direction 122° on 1st August 1948: - Tree 60ft. high 150ft., 350°. Building 50ft. " 190ft., 350°.

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 Direction from gauge	Parish Church.	Distance Direction from gauge.
1948	54° 19' 2"	2° 44' 16" W				

Station No. T.F. 3715

41

RAINFALL at Kendal Gasworks

County of Westmorland

Observer Kendal Gas & Water Co.

River Basin Kent - 3

Borough of Kendal (1942)

Type of Gauge M.O.

THE GAS ENGINEER

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

48.2 computed by Mr. Cornish (1944)
FA200487/40

File No. 8432631

Diameter	5"				585	690					
Height	1' 3"					1					
Altitude	146'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	.70	6.19	8.25	5.83	4.69	5.26	5.01	8.82	3.34	3.65	
February	5.65	2.03	3.38	2.36	6.10	3.99	.39	4.39	3.55	6.03	
March	3.37	3.79	1.23	.36	3.18	2.44	5.96	3.98	2.19	2.83	
April	1.47	2.10	3.08	3.10	2.67	1.52	5.13	2.05	5.39	3.63	
May	3.21	3.69	5.10	2.70	3.71	1.32	3.19	1.65	2.89	1.61	
June	.37	.73	4.96	3.52	4.51	4.35	3.36	7.25	1.00	3.41	
July	2.29	4.22	4.98	3.62	2.44	5.60	4.37	2.51	4.33	4.70	
August	4.64	4.71	8.23	4.11	2.05	4.60	.19	6.50	2.88	8.78	
September	1.55	5.86	5.49	5.64	4.21	8.84	4.41	6.22	1.64	9.84	
October	7.05	5.14	6.79	5.05	7.48	.64	.67	4.25	6.53	4.67	
November	3.30	1.32	3.04	8.37	20	7.95	8.12	4.72	6.22	5.00	
December	3.10	6.54	2.89	4.79	3.12	5.80	3.15	4.91	9.07	2.61	
TOTALS	36.70	46.31	57.42	49.45	44.36	52.61	43.95	57.25	48.98	56.76	

1941:- Building 35' high 20yds N. Building 100' high 25yds S Building 35' high 30yds W.

Position of Station on reduced Ordnance Survey Map, 1 mile to 1 inch Series No. of Map Reference No. 34-518920

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1941			Kendal			Kendal		

Station No. DE 3718/6 M

RAINFALL at Kendal (Fisher Lane Res)

41

County of Westmorland

Observer Kendal Gas & Water Co.

River Basin Kent - 3

Borough of Kendal (1922)

Type of Gauge M.O.

THE WATER ENGINEER.

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

51.7 Computed by Mr. Cornish (1944)
+ 1920 & 1940.
C.1932

File No. 84356/31 E. 10038/49

Diameter	5"				584	771					
Height	1' 0"					1					
Altitude	742'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	76	6.33	8.72	5.86	4.77	5.24	5.26	9.48	3.54	3.27	53.23 ✓
February	6.30	2.04	3.37	2.47	6.48	4.32	.52	4.82	4.55	5.89	40.76 ✓
March	3.45	3.28	1.18	.45	3.44	2.34	6.45	3.50	2.22	3.00	29.31 ✓
April	1.76	2.59	3.64	3.53	2.51	1.85	5.75	2.69	6.31	4.11	34.74 ✓
May	3.16	4.24	5.25	2.78	4.23	1.82	3.38	1.63	3.16	2.05	31.70 ✓
June ....	.46	.86	5.82	4.29	5.43	5.66	3.89	7.63	1.09	4.41	39.54 ✓
July	3.80	5.07	5.77	4.65	3.17	5.43	4.68	3.99	4.55	5.50	46.61 ✓
August	5.05	6.42	9.33	4.93	2.61	5.88	.28	7.18	3.47	9.80	54.95 ✓
September	1.62	7.50	6.44	6.26	4.72	9.49	5.04	7.22	1.72	11.17	61.18 ✓
October	7.38	5.77	7.55	5.40	7.84	7.5	.86	4.58	7.54	5.48	53.15 ✓
November	3.79	1.22	3.03	8.93	.30	8.48	9.60	5.17	6.95	5.69	53.16 ✓
December	2.86	7.14	3.35	5.13	3.33	6.22	3.09	5.45	9.47	2.71	48.75 ✓
TOTALS	40.39 <u>D</u>	52.46 <u>D</u>	63.45 <u>D</u>	54.68 <u>D</u>	48.83 <u>D</u>	57.48 <u>D</u>	48.80 <u>P</u>	63.34 <u>D</u>	54.57 <u>D</u>	63.08 <u>D</u>	547.08

1941:- Wall 4' high 70'S. Tree 30' high 100' W. House 25' high 70' N. Hut 9' high 50' E.

corrected 26/1/74.

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.
1941			Oxenholme	1 1/2 miles	S.W.	Kendal	2 miles	W.S.W.

Station No. 3719

RAINFALL at Kendal (Ellengreen)

41

County of Westmorland Observer J. W. Cropper Esq.

River Basin Kent - 3 Observer Mr. T. A. Ballou

Type of Gauge Glaisher

Annual Average 58.2 in. based on 40 years obs. un-weighted. Period of average 1881 - 1915 Ref S

File No. 777526/27

Diameter	5"				585	250					
Height	1' 6"					1					
Altitude	270'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.01	6.94	10.04	7.04	5.48	7.37	6.08	10.95	4.80	3.73	6344
February	6.19	2.01	3.73	3.37	7.70	4.71	.76	5.20	5.05	8.14	4686
March	3.92	4.09	1.63	.60	3.81	3.16	6.71	4.59	2.83	3.80	3514
April	1.64	3.08	3.65	3.82	3.30	1.73	6.99	3.05	6.58	4.77	3861
May	3.72	5.15	6.18	3.23	5.06	1.61	4.36	2.24	3.25	2.08	3688
June	.40	1.00	5.68	4.66	5.37	5.57	4.31	8.38	1.49	4.01	4087
July	3.47	4.89	5.63	4.13	3.43	5.81	5.10	3.00	4.09	5.45	4500
August	5.80	5.87	9.65	4.66	2.37	5.42	.37	6.95	3.55	11.06	5570
September	1.99	6.03	6.58	6.56	5.47	9.33	4.94	7.75	1.73	11.97	6235
October	7.26	5.59	7.83	5.99	8.54	1.35	.97	4.95	7.66	5.96	5610
November	3.87	1.39	3.82	9.88	.45	10.56	10.83	6.46	8.00	5.84	6110
December	3.42	8.13	3.83	6.62	3.87	7.12	3.34	7.00	10.18	3.35	5686
TOTALS	42.69	54.17	68.25	60.56	54.85	63.74	54.76	70.52	59.21	70.16	59891

1941: - Yaw ledge 6' high 21' N.W.
1942: - " 7' " 30' W. & 6' high 33' N.

Position of Station on reduced Ordnance Survey Map, 1 mile to 1 inch Series No. of Map Reference No. 34-501956

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge.	Direction
1941			Burnside	300 yds	N.E	Burnside	400 yds	N.E

Station No. 3720/5

41

RAINFALL at Kendal (Kent Lea)

County of Westmorland Observer R. J. Cragg Hill Esq.

River Basin Kent - 3

Type of Gauge B. A.

Annual Average 53.2 in. based on 53 years obs. un-weighted. Period of average 1909-1947. Ref. C. 1932. File No. 15.7073/32

Diameter	5"										
Height	1' 0"										
Altitude	165'				167'						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.02	6.82	9.42	6.58	4.51	6.62	5.64				
February	5.67	1.98	3.61	2.43	6.39	4.17	.78				
March	3.46	4.28	1.58	.42	3.34	2.68	5.07				
April	1.65	2.86	3.61	3.51	2.90	1.73	6.26				
May	3.54	4.77	5.41	3.04	4.39	1.55	4.02				
June	.48	.80	5.64	3.78	5.31	5.16	3.90				
July	2.87	4.61	5.17	3.97	2.63	6.68	5.00				
August	5.42	5.61	8.97	4.55	2.35	5.08	.21				
September	1.82	7.04	5.60	6.00	4.88	8.55	4.74				
October	7.23	5.74	7.06	5.23	7.32	.95	.82				
November	3.85	1.40	2.88	8.88	30	9.22	9.43				
December	3.51	7.94	3.11	5.68	3.54	6.65	3.21				
TOTALS	40.52	53.85	62.06	54.07	47.86	59.04	49.08				

1941:- House 20' high 20' E. Tree 20' high 20' N.

On death of Mr. Cragg Hill - end. 1947.

Kendal (Kent Lea) 1932-1947 D previously observed at Cartmel Fell 1909-1931 D

Position of Station on reduced Ordnance Survey Map, 1 mile to 1 inch Series No. of Map Reference No. 4TH

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge.	Direction
1941			Kendal	1 mile	S.E	Burneside	1 mile	N.

Station No. 3722

RAINFALL at Kendal (Porter Fell)

41

County of Westmorland Observer Messrs J. Cropper & Co. Ltd.

River Basin Kent - 3

Type of Gauge

Annual Average 72.6 in. based on 26 years obs. un-weighted. Period of average 1881-1915 Ref S

File No. 914898/29

Diameter	5"				585	222					
Height	2' 0"					1					
Altitude	750'					41		X			
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.83	(9.00)	14.38	8.39	(5.37)	10.05	9.84	12.20	4.60	4.32	7998
February	6.88	(3.00)	5.98	3.03	(6.90)	5.04	(1.00)	6.62	4.49	10.70	5464
March	4.65	5.71	2.20	1.27	4.15	3.99	(8.57)	5.57	4.06	4.84	4501
April	2.80	4.63	5.08	4.68	3.02	1.79	7.85	3.68	4.09	5.61	4623
May	4.96	6.75	8.41	2.50	5.44	1.76	3.66	3.01	3.43	3.83	4275
June	.64	1.50	5.64	6.10	5.16	5.99	5.25	8.85	1.88	5.90	4591
July	3.38	6.27	5.34	4.26	3.18	7.07	4.99	3.05	4.12	7.10	4776
August	8.79	10.23	12.34	4.61	2.19	5.73	.25	8.79	6.14	13.52	7059
September	2.95	8.30	8.43	6.33	5.91	12.82	5.21	10.61	1.65	14.02	7623
October	10.24	8.67	8.17	6.18	8.82	.97	.82	7.28	10.62	7.59	6736
November	5.91	3.06	4.24	7.95	.45	12.17	14.17	7.77	12.13	6.96	7281
December	5.78	11.98	4.44	8.51	4.15	9.04	3.42	9.22	16.10	4.36	7520
TOTALS	58.81	(79.10)	84.65	63.81	54.74	76.42	65.03	86.35	84.31	99.95	7247

1942 Jan. & Feb. totals taken from map.
1947 Feb. est. March - May part. est. snow.
1950 no high

60004

60004

30004

98

118

34274 77764

(fully off?)

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	Parish Church.	Distance from gauge.	Direction

Station No. 3722/5

RAINFALL at Troutbeck (Dubs Reservoir)

41

County of Westmorland

Observer J. N. Beckie Esq.

River Basin Kent - 3

Winderich U.D.C. (1948)

Type of Gauge

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

File No. 809652/27

Diameter	5				585	121					
Height	13					1					
Altitude	745					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.64					9.35	7.56	10.40	4.144	2.27	
February	8.45					5.97	1.06	5.57	5.78	8.19	
March	3.46					(4.24)	8.50	4.21	2.61	4.20	
April	1.42					1.75	8.68	(3.26)	7.98	4.85	
May	4.20					1.62	3.32	(1.72)	3.58	1.79	
June	.50					5.94	4.13	9.23	.93	2.03	
July	2.13					5.46	4.23	2.33	3.58	4.92	
August	6.13					6.08	.21	7.52	3.62	10.86	
September	2.03					(15.20)	5.38	8.50	1.84	12.21	
October	8.09					.94	2.63	5.11	7.39	4.96	
November	5.63					11.80	11.20	6.70	10.74	4.06	
December	4.03					8.71	4.74	6.92	13.01	3.30	
TOTALS	47.71	N.R.	N.R.	N.R.	N.R.	(77.06)	61.64	71.47	65.50	63.64	
							M	M	M	M up	

Sta. T. no reply to letters.

1946. Stone wall 5' high 45' E. Record received Nov. 1947 March and September estimated
Referred to observer but no reply to letters.
1947 March-April app. 1948 April - May app.
1950 no low by 7.8 inches

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	Parish Church.	Distance from gauge.	Direction

Station No. 3722/9

RAINFALL at Kentmere (Low Bridge House)

41

County of Westmorland Observer Kendal Res. Commissioners

River Basin Kent - 3

Type of Gauge

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

File No. 890582/28

Diameter											
Height	1' 6"										
Altitude	500										
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January											
February											
March											
April											
May											
June											
July											
August											
September											
October											
November											
December											
TOTALS	NR										

T. for duration No further records. Assume finished 10/53

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	Parish Church.	Distance from gauge.	Direction

RAINFALL at Kirkby Lonsdale (Steep Lane)
County of Westmorland Observer Mrs H.E. Hollins
River Basin Lune - 4 A. Robinson, Esq.
Type of Gauge M/O B.A. 1941-42

Annual Average.....in. based on.....years obs. un-weighted. Period of average.....Ref.....
+6.0 computed by Mr. Cornish (1944)
+ A200 487/40.

File No. 897042/29

Diameter	5"				581	680					
Height	2' 0"					1				1' 0"	
Altitude	205					41				200	
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	77	5.23	6.94	6.36	4.42	4.94	4.34	9.68	3.62	3.26	
February	4.55	1.79	3.12	2.68	6.01	5.02	.79	3.57	4.01	6.39	
March	3.13	2.60	1.78	.55	3.47	1.28	4.82	3.79	1.84	2.48	
April	1.48	1.62	3.24	3.07	2.74	1.54	4.72	2.59	6.12	3.72	
May	3.83	3.03	4.70	3.21	3.95	1.21	3.10	1.62	3.41	2.06	
June	.70	1.18	5.28	4.59	4.78	4.35	3.92	6.53	1.05	4.99	
July	2.40	5.12	6.40	5.98	3.11	5.60	5.30	3.51	4.34	5.42	
August	6.20	4.18	8.65	4.30	2.29	7.46	.09	6.16	3.35	6.96	
September	2.05	5.77	4.94	7.37	5.98	8.00	5.01	8.01	2.52	8.84	
October	8.31	6.96	7.18	6.61	6.93	.97	.67	5.11	4.25	5.25 4.86	
November	2.68	1.33	3.43	8.45	.25	7.24	10.08	2.29	5.64	5.97 4.81	
December	3.30	5.19	2.97	4.80	2.71	4.81	3.33	3.01	8.09	1.83 2.89	
TOTALS	38.90 D	44.05 D	58.63 D	57.97 D	46.64 D	52.47 D	46.17 D	57.87 D	51.24 D	57.17 56.62 D	

1941: House 20' high 20' N.W. Pergola 8' high 18' W. by S. Orchard 15' high 20' S.W.
1950 Gauge moved 100 yds SSE Jan 1st.

Position of Station on reduced Ordnance Survey Map, } No. of Map..... Reference No. 34-614786
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.
1941			Kirkby Lonsdale	1 1/2 miles	S.E	Kirkby Lonsdale	200 yds	N.W.W.

Station No. 3726

RAINFALL at Barbon Manor

41

County of Westmorland

Observer F. Crossley Esq.

River Basin Lune - 4

Type of Gauge Snowden

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

File No. 113238/31

Diameter	5"										
Height	1' 3"										
Altitude	650'										
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January ....	.94	4.64	5.51								
February	3.97	1.53	2.44								
March	2.94	3.29	(2.37)								
April	2.17	1.58	3.01								
May	2.52	3.17	3.35								
June ....	.67	1.24	4.93								
July	2.46	3.94	5.45								
August	5.41	3.85	6.08								
September	2.22	5.42	4.67								
October	8.68	6.04	6.68								
November	3.14	.65	3.17								
December	2.81	3.41	(2.69) #								
TOTALS	37.93	38.76	(50.35)								

1941:- Wire Fence 3 1/2' high 2 yds W. Thorn Fence 18' high 25 yds N.E.

1943. considerable estimation & amendment. daily entries not always reliable, ref. Surv. records.

MET.O.B. RETROS

581631

NGR: SD(34)639829

ALT: 650 198

Date of review 10.1.1979

Position of Station on reduced Ordnance Survey Map, } No. of Map.....

1 mile to 1 inch Series

Reference No.....

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge.	Direction
1941			Barbon (L.M.S.)	1/2 mile	W.	Barbon	1/2 mile	W.

BRITISH RAINFALL ORGANIZATION

Station No. 3728

RAINFALL at Ravenstonedale (Railway Stn.)

41

County of Westmorland

Observer Vernon P. Royle Esq.

River Basin Lune - 4

Home Board of Conservators (1946)

Type of Gauge

Annual Average 47.5 in. based on 47 years obs. un-weighted. Period of average Ref. 47.5 computed by Mr. Cornish (1944) f A200487/40.

File No. 664605/26

Diameter	5"				579	758					
Height	1' 0"					1					
Altitude	800'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.20	4.69	8.92	6.99	5.18	6.28					
February	5.59	(2.07)	4.24	2.22	7.27	3.94					
March	3.20	(2.80)	2.61	.73	2.64	2.58					
April	1.37	3.05	4.10	3.00	2.84	1.62					
May	1.80	4.82	5.12	2.26	3.74	1.79					
June	.19	.86	4.58	4.20	4.09	3.06					
July	1.45	2.83	3.87	4.19	2.20	5.09					
August	4.53	4.92	7.04	3.36	2.68	6.78					
September	.86	4.46	5.05	5.15	3.43	7.77					
October	4.88	4.91	5.40	4.58	7.82	.56					
November	3.34	1.25	3.03	9.02	.23	8.47					
December	3.43	6.25	3.25	4.74	2.48	5.35					
TOTALS	31.84	(42.91)	57.21	50.44	44.65	53.29	# NR	NR			

1941:- Jan. total estd.
1942:- Feb. & Mar. app'd. fr. nearby stns.
1943:- gen. & feb. app'd
746 read & sent
Terminated Dec 1946
40004 30004

(Station in Newbiggin)

Position of Station on reduced Ordnance Survey Map, 1 mile to 1 inch Series No. of Map Reference No. 35-70054

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

Station No. 3728/5

41

RAINFALL at Newbiggin-on-Lune

County of Westmorland Observer Rev. H. Norman Edge

River Basin Lune-4

Type of Gauge

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

File No.

Diameter											
Height											
Altitude											
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January			9.35								
February			4.27								
March			2.32								
April			3.36								
May			5.61								
June			4.60								
July			3.85								
August			6.90								
September			5.14								
October			4.25								
November			2.81 #								
December											
TOTALS											

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

Station No. T.F. 3729

41

RAINFALL at Linsdale (Conny Pot.)

County of Westmorland Observer T.S.R. Winter Esq. C.E.

River Basin Tees - 5

Type of Gauge

Annual Average 52.1 in. based on 25 years obs. un-weighted. Period of average 1881 - 1915 Ref. Tees Survey E10079/49
While this is the average for this station the value on the map is not considered to be rather low & should not therefore be used in B.R. 1948 Y.S. 12.42

File No. 670549/26

Table with 12 columns: Diameter, Height, Altitude, Year (1941-1950), Means. Rows include monthly rainfall data and a Totals row.

1941: Jan. Feb. & March estd. by ref. to nearby stations & monthly maps
1942: Jan. Feb. & March
1944 m.p. too much est. (5 months)
1945 Jan & Feb. April May & June affortuned
1947 Jan & Feb est. Mar & April part est. now.
1950 Jan & Feb part est.

8 Inch. 29A.

Position of Station on reduced Ordnance Survey Map, 1 mile to 1 inch Series No. of Map Reference No.

Table with 8 columns: Date, Lat. N, Long., Railway Station, Distance from gauge, Direction, Parish Church, Distance from gauge, Direction.

