

RAINFALL at ~~Whiteray~~ ~~Whiteray~~County of N Lancashire

Observer

Ordnance Board of Commissioners  
J. T. Sanderson, Esq., F.R.S.

J. Capstick

River Basin Lune 4

Copper

Bradford Rain Gauge, by Hicks (3025)

Read on afternoon of last day of month.

Diameter ...			5								
Height .....			10								
Altitude ...			1139								
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...				6.31	4.75	7.79	7.68	3.45	6.32	8.21	
February ...				3.59	7.48	9.98	5.95	1.62	8.67	2.27	
March .....				9.23	5.94	2.48	3.35	3.30	2.32	6.00	
April .....				7.57	3.70	3.46	3.85	3.79	1.68	2.40	
May .....				3.35	3.35	2.30	5.45	3.57	2.57	3.16	
June .....				3.85	1.65	.74	3.37	3.92	2.93	2.30	
July .....				1.64	3.64	5.37	3.48	2.32	5.54	1.79	
August .....				2.50	2.82	4.28	(4.50)	10.65	4.60	3.40	
September ..				3.85	3.92	1.80	2.88	5.65	11.75	6.80	
October ...				3.39	2.38	2.12	12.75	8.80	5.80	2.67	
November ..				5.86	7.92	8.30	2.31	6.50	5.72	4.70	4.00
December...				7.20	4.16	10.29	11.45	5.26	4.35	9.13	9.20
TOTALS ...				57.36	58.22	54.06	(65.02)	56.74	66.01	51.20	

+ 23.VI.15 H.R.M. within iron fence 6 ft. sq. 3'6" high with fine wire netting around it.  
 Everything favourable as to exposure. More broken country than High Salter but no cause to suspect record.  
 About  $\frac{1}{2}$ " rain water in order can due to condensation.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
54° 30'	2.30	Bentham		5½ m		Jarrow Fell	3 m	

## RAINFALL at Bowland Forest-Whiteray

County of N. Lancashire

Observer J. T. Sanderson Esq. Gopstake

River Basin Lune 4

Copper Bradford Rain Gauge, by Hecke (3025)

Diameter ...	5"										
Height .....	1 0										
Altitude ...	1139										
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
January ...	6.90	10.43	6.35	6.45	6.43	6.47	13.25	6.00	16.52	(2.04)	12.80
February ...	5.00	3.35	8.50	11.32	7.76	9.18	9.00	5.10	7.75	(1.60)	.50
March .....	6.70	7.74	3.85	2.58	2.15	1.83	2.13	5.89	5.87	1.24	4.90
April.....	7.75	2.00	4.80	5.14	2.80	4.58	2.53	3.80	2.79	(1.65)	2.10
May .....	7.50	4.40	2.77	5.53	6.94	6.00	3.60	2.00	5.52	(2.40)	1.95
June .....	3.26	3.37	3.33	1.22	3.80	7.70	4.90	5.71	9.75	(1.65)	2.73
July .....	7.68	2.49	7.26	5.94	5.84	2.50	4.70	5.46	4.38	(1.00)	5.40
August .....	4.65	7.86	5.55	6.94	6.82	6.00	4.74	8.88	8.20	(8.02)	9.80
September...	3.29	2.78	5.90	8.03	8.19	8.29	4.84	7.54	2.25	(3.53)	3.90
October.....	3.38	3.38	2.80	9.84	7.32	9.55	7.50	7.57	10.16	9.55	11.10
November...	5.20	3.90	3.28	9.39	5.60	1.90	9.24	(6.60)	9.50	10.45	7.70
December...	6.26	10.00	8.35	6.74	12.00	(3.92)	1.15	(1.38)	3.59	(1.41)	6.02
TOTALS...	67.57	55.70	65.74	79.66	68.65	(57.62)	67.58	65.93	80.28	(54.20)	68.90

1925. Dec. cond. by min. stand.

1927. Nov. &amp; Dec. adj'd by maps.

Position of Station on reduced Ordnance Survey Map, 2 miles to 1 inch Series				No. of Map.	Reference No.		
Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge
54°30'	2°30'	Bentham	5½ mi			Latham Yells	3 mi

## RAINFALL at Bowland Forest (Whitray)

County of North Lancashire

Observer J.T. Sanderson, Esq.

River Basin Lune - 4

Vivian? Boyle, Esq. (1929)

Type of Gauge.....

Annual Average 57.5 in. based on 17 years obs. un-weighted. Period of average 1881-1915 Ref. S

664608/26.

Diameter	5.											
Height	1.0.											
Altitude	1139											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	10.15	8.24	5.38	7.14	3.24	9.70	6.72	7.65	5.51	3.80		
February	6.82	2.27	4.96	3.36	7.74	4.82	8.30	2.71	8.56	3.54		
March	1.97	4.11	4.62	3.47	1.70	4.78	3.60	1.44	2.79	5.75		
April	4.28	6.17	2.93	3.56	4.82	1.38	2.55	.30	2.55	3.20		
May	3.17	6.66	2.58	5.33	1.48	1.63	2.67	4.39	1.54	1.97		
June	6.73	2.75	4.30	2.47	5.45	2.90	3.85	(6.50)	3.93	4.2		
July	6.80	5.71	6.72	2.37	2.42	5.69	2.87	2.92	6.45	5.72		
August	5.35	1.81	2.68	4.95	2.68	3.43	3.00	(5.50)	2.00	2.40		
September	2.57	8.63	1.53	6.63	10.50	4.55	2.80	2.81	1.20	5.55		
October	3.50	8.98	5.35	8.70	12.24	6.25	2.87	(15.57)	3.36	8.25		
November	12.28	5.50	2.90	1.90	6.21	7.70	1.76	9.10	9.97	6.54		
December	4.97	4.30	1.30	9.75	4.21	7.73	4.43	7.30	1.76	4.40		
TOTALS	67.59	63.18	45.27	56.63	61.69	60.56	46.42	(66.29)	49.68	51.54		

1938, June, Aug., Sept. with May &amp; June.

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. 30444

## RAINFALL at Barnard Forest (Whitby) 41

County of North Lancashire Observer Mr. R. Royle Esq.  
 River Basin Lune File No. 664608/26  
 Type of Gauge

Annual Average 57.5 in. based on 17 years obs. un-weighted. Period of average 1881-1915 Ref. S.

Diameter	5"		583.043								
Height	1' 0"				1						
Altitude	1139'				611						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.50	6.00	12.79	6.85	7.70	6.42 (5.80)	4.30	4.60	2.75		
February	6.59	2.16	3.72	1.83	4.30?	(5.50) (1.00)	5.30	4.10	4.09		
March	4.60	3.00	1.90	3.0	2.20?	1.57 (3.80)	5.20	2.30	4.40		
April	1.55	3.15	4.00	2.90	3.15	1.73	5.70	2.70	4.20	3.80	
May	3.95	6.50	4.83	6.7	4.32	2.50	3.70	1.60	2.20	1.90	
June	1.10	1.81	3.28	4.64	6.28	2.10	4.00	3.50	1.00	3.80	
July	1.55	5.87	4.60	5.69	5.90	4.93		2.40	4.20	7.00	
August	8.60	8.32	6.85	3.20	2.80	10.70		3.00		13.70	
September	1.36	4.80	4.45	6.15	4.12	8.90		4.60		10.50	
October	8.66	7.45	4.50	6.60	5.76	1.50		3.80		3.80	
November	4.50	1.64	4.42	3.90	1.00	10.20		3.20		7.00	
December	5.50	6.20	3.60	4.70	1.00	7.20		6.60	10.20	3.60	
TOTALS	49.66	56.90	58.94	53.43		63.25	imp	46.20		66.34	

1944 n.p. low

1945 n.p. unreliable

20004

1946 n.p. Jan-Aug. unreliable

1947 n.p. imp. Jan. &amp; Mar. used for snow. Gauge leaking from July. Values July-Dec values

1948 n.p. low (about 20 inches imp.)

1949 Overhaul &amp; repair to gauge carried out. See anal. q51 in file

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
1950			Hopewell				

Station No. *✓* 30/4

## RAINFALL at Bowland Forest (Whitby)

County of N. Lancashire

Observer The Lancashire Board of Conservators

River Basin. River - 4

Type of Gauge. Bradford

Annual Average 57.5 in. based on 17 years obs. un-weighted. Period of average 1881-1915 E 163 S 743 5  
 " " 65.13 " " 3 " 1965-57. " " = 1965-57. File No. 66468726

Diameter ...	583	043	5"								
Height ...			1' 0"								
Altitude ...		51	1160 ft 1139 ft		PLW 6/7Y see file	E 20121/38	E 322				
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...			(3.30)		4.75	4.50	8.20	6.80	5.12		
February ...			2.75	5.75	3.15	1.30	6.20	9.15	1.29		
March ...	5.55	1.60		(2.50)	1.65	5.55	1.45	4.45			
April ...	4.60	3.05			1.80	2.45	1.20	1.95	5.11		
May ...	4.00	(2.90)			5.70	2.75	3.70	7.80	2.06		
June ...	4.50	(3.00)	4.75		4.30	3.40	2.10	4.50	3.81		
July ...	3.90	(8.00)	8.80		2.65	5.00	7.05	4.75	4.24		
August ...	8.90	7.15	6.75		1.15	13.75	6.50	6.00	.86		
September ...	5.40	7.30	8.00		4.85	4.15	8.30	8.45	.67		
October ...	6.30	3.50	12.75		3.90	4.00	8.90	7.25	7.07		
November ...			8.00	9.50	3.60	1.85	2.05	2.35	8.29		
December ...			3.90	11.25	8.35	7.25	6.90	5.75	13.74		
TOTALS ...	N.R.		(54.45)	inc 20 M	46.70	52.05	66.65	66.20	56.71		
			mp								

Total TPS 4/62.

43409

10004

1952. Now contained damage

1953 NP too much eat.

1954 NP incomplete

1955 Slight leak reported at end of year, repaired early Apr. Mar. est. M.O.B.

July 1959/80. Site over-slope WSW-N. Slightly unstable &amp; vulnerable. Check to be set up by Field W.B.

1960 See. Damaged.

See SN 3044/1

Position of Station on Ordnance One-Inch map : No. of Map 39 National Grid Reference SD (38) 678613

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

Summary of Earlier Records from 10-year Sheets :

	1910-19	1920-30	1931-40	1941-50	1951-60
Record D, or d	Cimp. 1912	✓	✓	41-44, 46, 48 n.p. 44, 46, 48	

Air Ministry, Meteorological Office

Station No. 3044/1 T.85

RAINFALL at Bowland Forest (Whiteway No 44)

County of N. Lancs.

Observer F. G. Dyer B.Sc.

River Basin Lune - 4.

Type of Gauge

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

Ref.

File No. E 20121/56

Diameter ...										5"	
Height ...										1'0'	
Altitude ...										1165'	
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...									4.90	9.38	
February ...									1.52	8.68	
March ...									4.37	2.48	
April ...									5.30	6.25	
May ...									1.92	2.11	
June ...									3.89	3.28	
July ...									4.37	11.02	
August ...									.82	5.72	
September ...									.65	4.75	
October ...									(7.20)	5.85	
November ...									8.86	14.35	
December ...									14.04	9.12	
TOTALS ...									57.84	82.99	

7 m. wall

1959:- Part.

Position of Station on Ordnance One-Inch map: No. of Map 89 National Grid Reference S 2 (34) 678615.

Date	Lat. N.	Long.	Railway Station	Distance from gauge	Parish Church	Distance from gauge
			This site is a few yards old site S/N 3044 see E 322 1967 inspection in E 20121/56.	ESE of. 1967 inspection		

Summary of Earlier Records from 10-year Sheets:

Record D, or d		1910-19	1920-30	1931-40	1941-50	1951-60
	C 1960.					