

RAINFALL at NEWBIGGIN

County of DURHAM

Observer R. Coggins

River Basin Tees - 1

5"

Rain Gauge, by

Diameter ...			5								
Height			14ms								
Altitude ...			1000ft								
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.
January ...			2.35	5.52	3.14	4.76					
February ...			2.71	3.31	5.72	5.49					
March			3.57	7.46	4.32	1.51	No records				
April.....			0.66	4.78	1.98	2.12	1916 - 1920				
May			2.01	2.83	1.99	1.74	on leave or was service				
June			4.83	1.67	3.94	0.61	Resumed				
July			4.73	1.10	1.39	3.97	in 1921.				
August			4.76	1.14	2.92	2.61					
September...	2°		2.62	3.96	2.41	1.41					
October.....			4.56	3.32	2.50	1.29					
November...			3.42	4.15	7.55	2.56					
December...			6.18	3.58	10.98	8.23					
TOTALS...			42.40	42.82	48.84	36.30					

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

Map, 2 miles to 1 inch Series

Reference No. _____

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

Middleton in Teesdale

RAINFALL at NEWBIGGIN

County of DURHAM

Observer

R. Coggins

River Basin Tees - 1

Newbiggin,

B.A. Rain Gauge, by

Middleton in Teesdale.

OLD GAUGE

Diameter ...	5"	-	✓	✓	✓	✓	✓	✓		
Height	14"	-	-	-	-	-	-	✓		
Altitude ...	1000 ft	-	-	✓	-	-	✓			
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929
January ...	8.60	3.08	4.06	3.61	6.12	5.69	4.45	9.76	2.40	8.07
February ...	3.33	4.83	5.14	6.69	6.41	5.57	1.96	4.30	1.05	2.06
March	2.50	3.10	1.99	1.21	1.67	2.34	3.74	4.92	3.34	2.89
April.....	1.13	3.49	2.79	1.99	5.05	2.52	2.78	.99	1.56	4.05
May	2.22	9.3	3.83	4.14	4.38	2.57	2.32	2.28	1.90	2.01
June	1.01	1.23	.95	4.41	0.53	3.73	3.38	6.14	1.77	2.62
July	1.72	4.86	2.51	4.39	3.85	4.36	4.73	2.63	4.00	6.26
August	5.10	3.43	6.76	2.44	3.26	3.65	9.22	7.33	3.44	6.06
September...	1.55	4.36	3.39	5.69	4.26	3.96	7.17	1.53	1.82	5.82
October....	2.04	1.72	6.45	4.46	4.94	5.25	4.56	5.79	5.12	4.86
November...	3.10	1.64	6.56	3.52	2.22	6.61	5.23	6.97	5.91	6.16
December...	4.34	4.40	2.13	6.37	5.45	1.48	3.48	3.22	9.47	4.89
TOTALS...	35.70	39.87	46.86	43.00	47.66	45.73	53.02	55.86	39.08	55.05
							D	D	D	D

1927 Intercepted by 9.3. on 20th Sept. See separate file

1928 House 24 ft. high. 42 ft. W.N.W.

Wall 6 1/2 "	" 18 ft. E.N.E.
" 3 " "	6 " E.S.E.

3153

86.55

41.15

127.72

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 Direction from gauge	Parish Church.	Distance Direction from gauge
1927			Middleton in Tees	3 1/2 E	Midd. in Tees	3 1/2 E
1929				2 1/2 ESE		2 1/2 ESE

RAINFALL at Middleton in Teesdale Newbiggin

County of Durham Observer R. Coggins Esq.

River Basin Tees & C. I.

Rain Gauge, by

NEW GAUGE

Diameter										5
Height										1 0
Altitude										900? 1000
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1930
January										808
February										206
March										289
April										402
May										198
June										289
July										624
August										605
September										530
October									5.16	479
November									5.88	6.11
December									9.42	486
TOTALS									imp	5477 D.

2046
7622
4102
11626

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	Pansh Church.	Distance from gauge	Direction

RAINFALL at Middleton-in-Teesdale (Newbiggin) old g.

County of Durham.

Observer R. Coggins, Esq.,

River Basin. Tees & c. - 1.

Type of Gauge B.A.

Annual Average 40.2 in. based on 12 years obs. un-weighted. Period of average 1881-1915 Ref. 5.

Diameter	5.										
Height	1. 2.										
Altitude	1000.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	3.90	5.84									
February	3.98	1.57									
March	1.85	3.32									
April	3.83	5.14									
May	3.47	3.95									
June	4.96	1.27									
July	3.73	4.72									
August	2.95	1.42									
September	2.86	5.03									
October	1.76	7.15									
November	5.22	3.69									
December	2.64	8.77									
TOTALS	41.15	46.37									
		D.	P.									

J. T. Roberts observations

1931. House 42' N.W. Wall 6' high 18' E.N.E. Wall 3' high 6' E.S.E.

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
1931.			Middleton	2½m	E.S.E.	Middleton	2½m	E.S.E.

RAINFALL at Middleton-in-Teesdale (Newbiggin) new g.

County of Durham.

Observer R. Coggins, Esq.

River Basin Tees &c. - 1

Type of Gauge M.O.

442

11

Annual Average ~~start~~ in. based on ~~24~~ years obs. unweighted Period of average 1881-1915 Ref Tees

n 1922-301921

796227/27.

Diameter	5.	Height	1.0.	Altitude	1000.	Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means Total
January	3.90	5.25	3.41	4.92	2.29	7.73	5.45	6.20	8.49	2.11	4.975						
February	3.98	1.57	5.30	3.36	8.74	4.58	5.99	1.76	4.87	2.49	3.964						
March	1.85	3.82	2.85	5.75	1.72	3.42	4.01	1.69	4.57	4.48	3.366						
April	3.83	5.13	2.51	5.74	6.62	2.19	2.21	1.54	2.52	2.11	3.240						
May	3.48	3.86	3.29	3.62	.95	2.39	2.92	2.85	1.04	1.59	2.599						
June	4.93	1.27	2.43	2.18	3.21	4.81	1.27	4.56	3.48	.53	2.867						
July	3.72	4.51	2.54	2.24	1.39	3.65	1.83	3.55	5.61	4.54	3.358						
August	2.94	1.42	1.66	3.17	1.45	2.69	1.05	2.85	3.07	1.22	2.152						
September	2.86	5.04	2.67	3.48	8.00	6.24	3.62	1.87	1.61	3.30	3.859						
October	1.74	7.16	6.93	8.30	7.28	3.76	2.52	11.22	6.00	5.32	6.023						
November	5.18	3.69	3.81	2.92	7.01	5.19	1.44	5.21	6.08	5.99	4.652						
December	2.62	3.77	1.17	6.69	2.68	5.89	5.77	6.20	1.81	4.21	4.091						
TOTALS	41.03	45.99	38.57	49.37	50.34	52.54	38.08	48.60	49.05	37.89	45.146						
D.	D.	D.	D.	D.	D.	D.	D.	D.	D.	D.	D.						

1933. Wall 8' high 15° N. Wall 3' high 9° E. Wall 2½' high 6° S.
House 18° E. eaves 36° W.

Gauge measure in feet

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
1933.			Middleton-on-Tees.	2½ m	E.S.E.	Middleton-in-Tees.	2 m
1938			"	"	"	"	2½ m

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

Station No. M. 3522

RAINFALL at Middleton-in-Teesdale (Newbiggin)

41

County of Durham

Observer R. Goggins Esq. did 42

River Basin Tees & C - 1

B. J. B.

Type of Gauge M.A.

(1941)

Annual Average 10.8 in. based on 25 years obs. unweighted. Period of average 1881-1915 Ref. Tees S.

44.2

11

P.B. 447

File No. 79227/27

Diameter	5"	027	216								
Height	1' 0"		1								
Altitude	900' 1000'		41			1000'					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	5.54	4.37	6.03	5.04	7.56	4.31	4.47	10.96	1.58	2.73	52.59
February	6.75	2.69	2.98	3.53	4.84	3.48	(4.50)	4.05	4.39	6.85	44.06
March	4.37	3.61	1.81	3.88	2.18	2.24	7.70	2.84	1.07	2.19	28.29
April	2.45	2.53	2.94	1.94	3.90	1.42	8.72	3.25	3.76	3.07	33.98
May	1.71	2.75	4.51	2.11	4.15	1.80	1.75	1.81	1.48	1.55	23.62
June	2.24	2.84	3.29	2.47	3.83	3.05	4.18	5.18	.73	1.55	25.36
July	1.78	2.46	2.70	4.60	1.80	3.47	4.21	10.4	2.45	3.31	27.82
August	3.86	3.64	5.59	2.07	4.71	4.80	2.21	4.46	2.00	6.35	37.59
September	3.32	3.45	4.29	5.86	2.44	6.30	3.29	4.39	1.91	6.36	38.61
October	5.58	3.41	3.91	5.58	7.27	1.20	.93	2.44	5.00	3.18	38.45
November	3.49	1.06	3.53	10.70	.98	8.24	5.20	2.78	5.79	7.88	49.65
December	2.25	4.30	2.56	3.78	2.45	4.64	2.74	4.00	7.73	2.12	36.57
TOTALS	38.29	34.91	44.14	48.06	46.11	44.95	47.90	47.20	37.89	47.14	436.59

1947 Feb. est for 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 from gauge	Parish Church.	Distance from gauge

BRITISH RAINFALL ORGANIZATION

Station No. 3522

M.

RAINFALL at MIDDLETON IN TEEBDALE (NEWCASTLE UPON TYNE)

51

County of DURHAM

Observer Mrs C. G. G. 1918

River Basin 1 - TEEBES & C.

Type of Gauge M.O. (2 in. dia.)

Annual Average 46.2 in. based on 11 years obs. ~~1916-1935~~ Ref. P.B. 447
 " " 45.0 " 25 " Within 1930-56. " " 1916-1950 5.
 File No. 796227/27

Diameter ...	5"	027	216								
Height ...	1' 0"			1							
Altitude ...	000'	1000'		57							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	3.35	3.44	.95	4.09	4.03	3.82	5.67	3.21	3.64	6.51	38.71
February	3.75	.65	2.79	2.57	2.73	2.76	3.85	5.93	.63	3.72	29.38
March	4.35	2.46	.66	2.77	1.84	2.09	2.58	2.26	1.69	1.95	22.65
April	3.73	2.27	3.95	.60	.98	1.04	.49	1.80	2.89	2.48	20.23
May	3.87	2.00	3.01	5.47	3.69	1.49	2.12	4.92	.77	2.58	29.92
June	1.19	1.40	3.00	2.52	2.55	2.96	1.21	4.10	1.66	1.32	21.91
July	1.23	1.35	3.26	2.12	1.50	3.49	4.80	4.68	2.17	4.92	29.52
August	3.50	4.53	4.54	6.57	1.53	8.53	5.78	3.39	.68	3.19	42.14
September	2.10	4.98	3.66	6.07	1.97	4.60	4.14	4.16	1.31	2.62	35.61
October	.97	6.09	2.00	8.52	2.09	3.23	3.88	3.17	3.54	8.08	41.57
November	9.44	3.20	4.16	8.14	1.92	1.12	2.16	.86	6.08	6.01	43.08
December	8.00	3.83	1.82	5.55	6.51	5.91	4.26	4.51	6.78	5.51	52.68
TOTALS ...	45.48	36.20	33.80	54.99	31.34	41.04	40.94	42.98	31.74	48.89	407.40
	D	D	D	D	D	D	D	D	D	D	

New gauge issued on loan 6.4.54.

1956. Slightly low but accept.

10

Position of Station on Ordnance One-Inch map : No. of Map National Grid Reference NY(35)915276

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish, Church.	Distance from gauge
1951			Middleton in Teesdale	3 miles	ENE	Middleton in Teesdale	2 1/2 m E

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
		Camp 1929 ✓	✓	✓	✓