

# RAINFALL AT

Barnard Castle

80

Lat. \_\_\_\_\_

Lon. \_\_\_\_\_

County of \_\_\_\_\_

Durham

Rain Gauge, by \_\_\_\_\_

Observer \_\_\_\_\_

E. Wells Esq

Tree 1.

Diameter . . .										5	
Height . . . . .										1.6	
Altitude . . . . .										540	
Year . . . . .	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January . . . . .					(21.20)				87	.62	
February . . . . .					(15.30)				.64	1.35	
March . . . . .					(17.80)				4.22	2.25	
April . . . . .					(17.10)				1.21	3.56	
May . . . . .					(17.50)				1.46	1.52	
June . . . . .					(12.20)				2.51	.17	
July . . . . .					(25.90)				6.11	2.46	
August . . . . .					(17.30)				1.83	3.51	
September . . . . .					(22.30)				1.08	.78	
October . . . . .					(25.60)				.82	5.36	
November . . . . .					(20.70)				8.00	1.39	
December . . . . .					(19.30)				1.10	1.29	
TOTALS . . . . .					(232.20)	†			(24.00)	29.85	24.26

Barnard Castle

3/4 Mile

W

Tree 20 ft by 2 60 ft S

1888 Recd 1908. Ent. 24. XI. 08

1881-87 computed from Whorlton (X 115)

† The Whorlton record is not homogeneous  
 & the period 1881-1887 was re-estimated  
 at (208.25) by the use of the long records  
 with distinct, for the purpose of the survey X 1.28  
 J.S.

# RAINFALL AT *Barnard Castle County School*

Lat. \_\_\_\_\_

Lon. \_\_\_\_\_

 County of *Durham*

Rain Gauge, by \_\_\_\_\_

 Observer *E. Wells Esq*
*See 1.*

Diameter ....	5											
Height .....	1 6											
Altitude ....	540 T											
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
842 ✓ January ....	3.63	1.25	1.99	1.55	2.72	4.26	1.16	1.62	1.95	3.91	2.404	84
861 ✓ February ....	1.09	.05	3.42	4.05	5.83	.80	.65	2.12	2.65	1.94	2.260	86
57 ✓ March .....	2.01	2.30	.61	.65	2.22	3.11	3.18	4.63	1.45	1.09	2.125	56
682 ✓ April .....	1.34	4.06	.90	.52	1.82	1.57	1.04	1.47	2.64	2.07	1.7113	68
921 ✓ May .....	2.03	2.05	3.18	1.95	2.46	.65	.54	.92	2.53	4.21	2.052	92
915 ✓ June .....	3.14	.79	3.82	1.40	3.33	2.43	3.36	2.68	1.80	2.02	2.1177	92
1032 ✓ July .....	1.87	4.11	1.53	2.81	2.68	5.64	2.34	1.43	.80	3.38	2.659	103
1597 ✓ August .....	5.05	4.15	4.38	2.39	2.80	1.78	1.35	2.81	3.71	1.02	2.9444	160
442 ✓ September ....	1.29	2.25	3.50	1.38	.95	.63	3.76	2.55	.66	4.10	2.107	84
1351 ✓ October .....	1.53	4.26	6.22	1.50	5.39	3.66	3.19	1.81	4.78	1.89	3.422	135
1133 ✓ November ....	5.08	3.14	1.33	1.78	1.59	5.10	1.10	1.53	2.11	2.73	2.5119	113
692 ✓ December ....	1.27	4.21	.52	2.92	3.15	3.53	3.57	2.93	3.16	2.84	2.810	89
TOTALS . .	29.33	32.62	31.40	22.90	34.94	33.16	25.24	26.50	28.24	31.20	29.553	1162

11625 ✓

1890 Barnard Castle 3/4 mile W  
 Ines 20 ft high 6 ft S  
 1894 Shed 15 - - 40 - W

# RAINFALL AT *Barnard Castle County School*

Lat. .... Lon. .... County of *Durham*

*Sunderland* Rain Gauge, by .... Observer *E. W. Ellis Esq*

*Dec 1891*

*R. H. Fitch Esq*

Diameter ..	5										
Height ....	1.6										
Altitude ..	540 <del>F</del>										
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	3.20	1.82	1.00	3.89	2.80	.92	3.85	1.63	1.47	1.94	2.252
February ..	4.99	.66	.85	3.90	2.19	1.04	1.63	2.15	2.08	1.61	2.210
March ....	.66	2.32	1.20	3.59	2.01	2.11	1.91	2.06	3.61	4.63	2.410
April .....	2.03	1.78	1.71	1.35	2.22	2.19	.75	1.76	2.42	1.84	1.805
May .....	2.08	1.43	2.32	3.87	3.03	.64	3.58	4.08	2.50	1.56	2.509
June .....	5.26	1.23	1.17	1.84	1.46	.84	.87	2.76	1.17	2.23	1.883
July .....	1.69	2.30	3.75	3.00	1.60	.34	1.32	2.32	2.60	2.41	2.133
August ....	5.62	1.41	2.25	2.83	2.68	4.34	2.19	1.59	2.37	1.97	2.725
September..	.79	1.42	.72	2.58	1.14	2.03	.51	.31	2.96	2.03	1.449
October ....	5.44	2.01	2.67	8.96	1.22	1.87	3.59	5.70	2.04	2.35	3.585
November ..	3.27	5.58	2.31	1.62	2.58	4.86	3.13	2.13	1.43	.66	2.754
December ..	2.29	3.00	3.00	1.55	1.79	.45	2.45	3.76	.83	3.90	2.302
TOTALS ..	37.32	24.96	22.95	38.98	24.69	21.63	25.78	30.25	26.48	27.13	28.017

1900 Barnard Castle Church 3/4 mile W

Trees 20 ft high 60 ft 5

Shed 15. 40. W

1903 Barnard Castle Station 1 mile N

1909 June 1st Gauge moved 98 ft N

+ Inspected



RAINFALL at Barnard Castle County SchoolCounty of DerhamObserver R. Hitchcock EsqRiver Basin Tees & C 1C. W. Wilson EsqSmelter Rain Gauge, by

Diameter ...	5											
Height .....	1.6											
Altitude ...	540 ft											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	
January ...	3.61	1.57	3.37	3.91	1.55	2.33	2.01	3.54	3.34	3.14		Sum 14.19 120.3
February ...	3.87	2.86	1.77	1.21	2.54	2.50	4.21	1.04	3.03	1.97		1087
March .....	1.02	1.71	2.32	4.95	2.25	.76	4.90	2.66	1.00	3.99		1255
April .....	2.75	1.14	.22	3.26	.62	.62	1.07	1.92	.88	1.57		544
May .....	2.84	1.49	2.62	2.84	1.27	1.65	3.22	2.41	1.61	1.45		869
June .....	2.07	3.27	4.97	1.64	3.09	.93	1.26	1.91	.34	.61		4.12
July .....	4.01	.28	2.81	1.25	1.95	2.83	3.13	1.16	3.84	1.95		978
August .....	4.01	1.73	5.67	.98	1.33	3.23	1.70	6.61	3.42	.66		1237
September ..	.28	1.77	2.36	3.74	1.56	1.43	1.89	.96	6.47	.32		964
October ...	2.46	2.85	2.17	2.78	2.10	.90	4.82	2.47	2.20	3.20	L	1289
November ..	2.39	4.61	1.97	1.96	4.81	1.82	4.21	1.49	1.85	3.20		1075
December ...	2.79	4.32	2.81	1.34	6.84	6.18	2.90	2.45	3.74	2.44		1133
TOTALS ...	31.60	27.60	33.06	29.86	30.21	26.15	35.32	28.62	31.44	24.50	29.839	1198

1912 Pavilion 36 ft high 115 ft ESE

+ Inspected

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911	54.33	1.55	Barnardcastle	1 mi.	N.	Barnardcastle	2 mi	W

RAINFALL at Barnard Castle County SchoolCounty of DurhamObserver C. W. Watson Esq. of x/1/30River Basin Lees & C 1Fine Broom.Shawdon Rain Gauge, byGauge glass satisfactory

Diameter ...	5											
Height .....	1.6											
Altitude ...	540											
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930.	MEANS.
January ...	4.02	5.23	4.22	1.62	2.44	3.45	3.45	2.24	6.14	1.36	4.65	38.72
February ...	1.67	0.7	3.04	4.93	3.2	4.24	2.15	0.90	3.55	.69	1.88	23.44
March .....	2.83	1.40	1.96	1.42	1.24	1.54	1.38	2.27	3.30	.14	2.92	30.40
April .....	5.15	.66	3.35	2.50	1.53	3.68	1.06	2.04	.56	.89	3.61	25.03
May .....	3.06	1.29	.78	2.60	5.69	3.77	1.88	2.01	2.54	1.05	.91	25.58
June .....	1.07	.36	1.23	.85	1.10	.00	3.02	2.39	5.64	1.39	1.30	18.35
July .....	4.35	1.77	4.53	2.09	4.21	.99	2.95	4.21	1.09	2.89	5.30	34.48
August .....	1.06	3.72	2.19	4.12	1.28	3.49	2.11	6.89	6.48	2.60	5.87	39.81
September...	1.17	.79	4.86	2.30	3.01	2.21	3.42	4.90	.31	1.12	4.83	25.92
October .....	2.77	1.93	1.93	3.05	3.87	3.12	3.24	2.49	3.65	2.56	2.65	31.26
November...	1.32	2.29	.73	4.49	1.60	2.12	4.53	3.44	4.75	4.07	3.22	32.57
December...	3.83	3.83	4.34	2.74	3.90	4.47	1.26	2.56	1.53	6.55	3.05	38.06
TOTALS...	32.30	23.34	33.16	32.71	30.79	33.09	30.45	36.34	39.54	25.31	39.59	

1920. Pavilion 36 ft high 115 ft E S E. (126) Gardener's hut 15 ft. high, 65 ft. SW.

Inspected 4.10.22 J.W.S. In school vegetable garden, not standing on grass, but  
approve satisfactory. Road kept by Miss Gardener. (There is also a gauge  
in front of school used by the boys).

Inspected 19/12/22. see green file

1979

1938  
34.1  
90.14Position 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	Direction
1920	54° 33'	1° 55'	Barnard Castle	1 mi	N	Barnard Castle	1/4 mi	W

RAINFALL at Barnard Castle (County School)County of DurhamObserver BURSARRiver Basin Tees & C. - 1Type of Gauge LondonAnnual Average 29.1 in. based on 35 years obs. un-weighted. Period of average 1881-1915. Ref. A.V.W.S.

625347/25.

Diameter	5.										
Height	1.6.			1' 5"							
Altitude	540.	550									
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	2.93	2.83	1.96	2.27	1.52	4.18	4.14	3.51	5.35	1.75	3044
February	2.17	.69	4.92	.17	4.90	2.95	3.84	1.27	2.48	2.53	2592
March	.91	1.68	2.07	3.25	.92	2.48	3.94	.47	3.10	2.58	2140
April	3.36	2.87	1.20	3.86	3.00	.87	2.61	.26	1.02	2.51	2156
May	3.12	3.73	2.42	1.74	.65	2.64	2.80	3.40	.75	1.47	2272
June	4.10	1.28	2.20	1.64	2.87	3.94	1.12	2.85	1.97	.26	2223
July	5.07	2.21	1.71	1.58	.73	2.49	1.68	2.70	3.47	4.57	2721
August	4.17	1.90	1.00	2.76	2.93	1.90	1.70	2.72	3.77	.48	2333
September	2.72	2.82	1.74	1.74	6.88	4.77	1.39	1.61	1.71	1.47	2685
October	.95	4.14	3.32	4.04	5.11	2.66	2.46	5.86	5.43	3.77	3774
November	3.40	1.72	2.64	1.89	5.45	3.24	2.21	3.86	4.30	3.80	3251
December	1.91	1.37	.94	5.07	1.71	3.47	3.01	4.56	1.08	2.30	2542
TOTALS	34.81	28.24	26.12	30.01	36.67	35.59	30.90	33.07	34.43	27.49	31733
	D	D	D	D	D	D	D	D	D	D	

1933. Sledge 7' high 25 yards E. Shed 10' high 22 yards W.

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
			Barnard Castle	3 1/4 m	N.W.	Barnard Castle	1/2 m	W.S.



Station No. 3511

RAINFALL at Barnard Castle (County School)

41

County of Durham

Observer The Currier

River Basin Tees &amp; C-1

Type of Gauge Snowden

Annual Average 29.1 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. Av. W.S.

File No. 625347/25

Diameter	5"		028	410	5"						
Height	1' 5"			1			1.6				
Altitude	550'			41	550'						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	3.28	2.53	3.62	2.27	5.09	2.11	1.99	2.26	1.09	1.68	
February	4.11	1.54	1.27	1.91	2.23	2.01	(4.71)	1.78	1.45	4.37	
March	2.91	2.06	(1.21)	.23	.90	1.50	6.02	1.85	.89	1.36	
April	1.51	1.44	1.62	1.55	1.51	1.27	5.75	2.44	1.79	2.07	
May	1.24	1.93	3.15	1.11	2.99	2.14	2.08	1.02	.91	1.44	
June	.37	.80	1.39	1.79	2.24	1.31	2.44	2.70	1.18	.95	
July	1.60	2.18	1.44	4.17	1.68	2.94	2.67	.53	2.48	3.23	
August	1.98	2.28	(4.34)	1.17	3.77	4.00	.27	2.94	1.69	4.97	
September	.10	2.07	2.57	6.18	1.35	4.55	2.15	2.45	2.61	3.92	
October	4.22	2.00	2.95	3.47	4.18	1.13	.86	1.44	3.98	1.44	
November	3.14	.91	2.07	6.19	.87	6.39	2.43	1.30	3.98	5.05	
December	.92	2.49	1.73	3.24	1.45	2.69	2.74	2.64	4.30	1.84	
TOTALS	25.38	22.23	27.36	33.28	28.26	32.04	34.11	28.35	26.35	32.32	
	D	D	D	D	D	D	D	D	D	D	

1943 n.p. too much estimation.

20004

1944 Birch at 10' N. W. 20 yds W. Ash tree 40' N. 40 yds E. Var. tree 20-40' N. 35 yds E. W.

1945 Tree 30 yds N.W. Hedge 9' N. shed 15' N. 10 yds W. Hedge 6' N. building 28' N. 4 yds E.

1947 Forest. March part est. to agree with maps. April &amp; June com. ref. 3510.

1950 HUT 14' high 20' W. Tower 50-60' high 60' W. building 30' high 35' E.

10204

10

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.
			B. Castle	1 1/2 mls	NE	B. Castle.	3/4 ml	W. N. W.

BRITISH RAINFALL ORGANIZATION

Station No. 3511RAINFALL at Barnard Castle (County School)

51

County of Durham Observer The PurviserRiver Basin Leas & G-1Type of Gauge SnowdonAnnual Average 29.1 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. Px. M.S.File No. 625347/25

Diameter ...	5"		028	410							
Height ...	1' 6"			1							
Altitude ...	550'			51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	2.63	2.29									
February ...	3.50	2.2									
March ...	3.56	(1.16)									
April ...	2.11	(1.04)									
May ...	3.02	(1.74)									
June ...	.94	(1.27)									
July ...	.96	inc #									
August ...	3.66										
September ...	1.30										
October ...	1.14										
November ...	7.59										
December ...	5.16										
TOTALS ...	35.57	INC									
	D	R.P.									

1951 H.W. 12' 12yd NW; Buildings 30', 30yd E; Trees 50' 30yd SW:

1952 n.p. inc.

July 1952 Station demolished as driver (gardener) unreliable and none else available.

Position of Station on Ordnance One-Inch map : No. of Map 058162 National Grid Reference NZ45

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge		Parish Church.	Distance Direction from gauge.	
1951			Barnard Castle	1 mi	N	Barnard Castle	3/4 mi	N.

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	✓	✓	✓ n.p. + 3	
	✓	✓	✓	✓ until 4.2, 4.5	