

RAINFALL AT Weardale W.W. Tunstall

Lat.

Lon.

County of

Durham

Rain Gauge, by

Observer

R. Askwith Esq C.E.Wear 2

Diameter							8				
Height							12				
Altitude							724 ft				
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January						6.93	.96	3.03	1.63	4.92	
February						2.25	.70	2.38	2.75	1.96	
March						3.79	4.17	5.05	2.77	1.52	
April						1.92	1.33	2.03	2.31	3.71	
May90	.60	1.84	2.17	3.72	
June						1.72	2.25	3.31	1.52	1.18	
July						6.47	2.44	.64	.78	3.82	
August						2.26	2.19	3.12	2.27	.61	
September50	3.73	2.68	1.68	3.06	
October						5.06	6.07	1.14	6.81	2.56	
November						4.62	1.96	2.31	3.15	2.95	
December						3.99	5.51	3.64	2.85	3.94	
TOTALS						40.41	31.91	31.17	30.69	33.95	

Wolsingham Church 2 1/2 miles S

New gauge January 1st 1895

3540

RAINFALL AT Weardale W.W. Turnball

Lat.

Lon.

County of Durham

Rain Gauge, by

Observer R. Ackworth Esq. CL

Year - 2.

Diameter ..	8											
Height	1.2											
Altitude ..	724 ft											
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	M.B.A.N.S.	
January ..	4.58	2.64	1.21	3.82	2.86	.83	3.97	.84	1.99	2.26	2.500	
February ..	7.58	1.65	1.38	3.60	2.85	1.38	1.35	1.62	2.66	2.11	2.618	
March	1.70	3.52	1.55	3.10	2.09	2.72	1.62	1.94	5.07	5.91	2.922	
April.....	1.30	1.97	2.06	1.75	2.20	3.42	1.40	1.72	4.09	2.67	2.258	
May	1.39	1.59	2.88	3.11	3.04	.86	4.84	3.71	2.15	1.89	2.546	
June	3.65	1.79	2.15	2.01	1.95	1.67	.70	3.99	.56	3.47	2.194	
July	1.42	1.53	4.49	5.32	2.03	.70	.61	1.77	2.46	2.63	2.296	
August	6.89	2.37	2.21	3.19	3.02	3.96	3.48	1.74	2.00	2.90	3.176	
September..	.81	1.68	1.14	2.80	.67	2.79	.93	.34	2.71	2.35	1.622	
October....	6.59	2.27	2.62	9.55	1.14	2.52	5.04	6.18	2.68	2.96	4.155	
November ..	4.51	5.92	2.60	1.75	2.51	5.62	4.03	2.88	1.89	.78	3.249	
December ..	3.02	4.12	3.72	2.80	2.21	1.17	2.85	4.43	.87	4.09	2.928	
TOTALS ..	43.44	31.05	28.01	42.80	26.57	27.64	30.82	31.16	29.13	34.02	32.44 4.38	

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Hub

RAINFALL at Weardale Waterfalls Tunstall Rest

County of Durham

Observer R. Askwith Esq. Cr.

River Basin Wear 2

Rain Gauge, by _____

Diameter ...	8											
Height	1.2											
Altitude ...	724 ft											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1916-19 MEANS. Total 15	
January ...	3.94	2.55	4.75	5.66	1.53	2.76	1.96	5.11	2.96	4.39	14.42	
February ...	3.60	1.63	3.04	1.32	2.17	4.17	4.93	.88	2.58	2.10	10.49	
March	1.80	3.66	3.18	5.00	2.22	1.94	5.09	2.51	1.38	3.99	12.97	
April	3.01	1.27	.18	3.74	.92	.72	1.62	2.78	1.47	1.49	7.36	
May	2.28	1.20	2.88	2.30	1.40	2.09	3.96	1.69	1.71	1.67	9.03	
June	1.93	4.30	5.82	1.27	4.04	.82	2.27	2.27	.35	.79	5.68	
July	4.16	.25	3.85	1.56	2.29	3.24	2.89	1.51	3.78	1.64	9.82	
August	4.38	2.97	5.67	1.08	1.92	3.53	2.41	7.52	2.20	3.49	14.62	
September ..	.35	2.73	2.54	3.29	1.76	1.02	2.01	1.30	6.49	.88	10.68	
October ...	3.36	3.25	2.92	3.31	2.69	.97	3.94	3.32	2.73	4.14	14.13	
November ...	3.72	4.91	2.16	1.79	4.84	1.92	4.25	1.81	1.55	4.80	12.41	
December ...	3.33	4.39	3.20	1.78	7.73	7.22	3.21	2.86	2.98	3.54	12.59	
TOTALS ...	35.36	33.11	40.19	32.10	33.81	30.40	38.54	33.56	30.18	31.92	134.20	
	T	3	D	D	D	D	D	D	D	D		

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

RAINFALL at Weardale Water Works Tunstall Reservoir

County of Durham

Observer H. Robinson Esq, G.E.

River Basin Near 2

Snowdon Rain Gauge, by inner con. seals } correct (X.26
leak in seam of funnel } measure correct.

Diameter ...	8										
Height	1.2										
Altitude ...	724										
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEAN
January	3.37	5.20	4.47	1.52	2.89	2.86	2.27	2.25	1.43	1.49	(5.13)
February	1.59	.21	2.37	5.55	1.04	4.49	2.07	0.57	2.32	1.02	3.14
March	4.31	1.25	1.95	2.25	1.11	2.16	.82	2.77	2.71	.04	2.66
April	4.38	1.22	2.74	2.25	1.46	3.40	2.28	3.04	.78	.77	2.92
May	4.20	1.74	74	2.59	1.15	3.76	1.77	1.81	1.63	1.67	1.03
June96	.24	104	.89	1.91	.20	3.03	3.11	5.29	1.87	108
July	3.46	1.53	5.34	2.48	4.12	1.04 ²	2.40	5.21	2.11	4.74	6.97
August	1.78	5.32	2.36	5.05	2.23	3.17	2.93	8.28	4.50	3.43	6.65
September	1.44	.85	4.55	2.33	3.57	2.48 ²	2.58	5.73	.71	1.25	4.19
October	2.59	1.88	1.94	2.94	4.12	3.29	3.22	2.59	5.58	2.84	2.86
November	1.63	2.89	86	4.41	1.91	2.31	4.76	3.13	4.10	5.50	370
December	4.79	2.69	5.70	2.94	3.20	2.96 ²	.74	2.07	1.26	9.29	3.96
TOTALS...	34.50	25.02	34.06	35.20	33.71	32.12	28.87	40.56	35.42	33.92	(44.19)
	-D	D	D	D	D	D	D	D	D	D	1920-30 TOTAL

Inspected 9/3. 9.15-2b. Ls in kitchen garden somewhat sheltered by trees but very good exposure. Sweet-peas too near.

1929. Ann. total about 9" high. Observer says gauge sound.

1930. Jan^t 13^t-14^t adjusted by surrounding stars.

Position of Station on reduced Ordnance Survey Map, 2 miles to 1 inch Series } No. of Map

References. No.

RAINFALL at Weardale W.W. (Tunstall Res.)

County of Durham

Observer H. Robinson, Esq., C.E.

River Basin Wear - 2.

J.A. Redmank, Esq., C.E. (1938)

Type of Gauge

Annual Average 32.4 in. based on 32 years obs. un-weighted. Period of average 1881 - 1915 Ref. 660612/26.

Diameter	S.											1931-40 Means Totals
Height	1.2.											
Altitude	724											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940		
January	2.63	2.33	1.50	2.70	2.01	6.97	3.60	3.78	4.98	2.79	32.29	
February	2.41	1.56	5.32	1.34	4.77	3.51	4.01	1.52	1.63	1.88	26.95	
March	2.09	2.52	1.49	4.80	1.04	2.74	3.36	1.35	4.74	2.61	25.74	
April	4.48	2.73	1.47	5.06	3.11	1.82	2.98	.02	1.50	1.74	24.91	
May	3.55	5.81	2.82	2.28	1.14	1.88	2.78	2.96	1.62	1.61	25.95	
June	4.02	1.05	3.08	2.87	3.17	3.79	1.44	3.09	2.64	1.40	25.55	
July	3.81	8.77	2.30	3.11	1.84	3.22	1.94	3.14	4.52	5.68	32.33	
August	3.885	2.06	1.07	2.95	1.40	1.39	2.30	2.62	5.46	1.81	28.91	
September	3.731	2.90	2.37	1.59	5.79	4.07	2.05	1.94	1.50	1.42	26.94	
October	1.257	5.62	4.42	4.53	5.00	1.88	2.44	5.16	7.53	5.24	44.29	
November	3.59	1.59	4.19	3.67	5.55	3.45	1.69	3.35	3.39	4.76	35.26	
December	1.31	1.90	1.58	5.23	1.92	3.08	4.49	4.66	1.76	2.56	28.49	
TOTALS	346.62	33.24	31.61	39.13	35.74	36.80	32.08	32.62	41.27	32.50	381.61	

1931 (August - October) believed to be 10 inches too big

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

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

Station No. T.F. 3540

RAINFALL at Wycodale Hill (Tunstall Res.)

41

County of Durham

Observer J. A. Radwell Esq.C.E.

River Basin Tees - 2

Type of Gauge

Annual Average 32.4 in. based on 32 years obs. un-weighted. Period of average 1881-1915 Ref. S

File No. 60.612/2.6

Diameter	8"		022	164							
Height	12"			1							
Altitude	724'			41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1941-50 Means Totals
January	4.03	2.64	3.52	1.67	5.15	2.60	3.06	9.35	1.21	1.83	35.06
February	6.00	2.19	1.34	2.34	2.29	1.15	4.69	1.97	1.86	4.64	28.47
March	2.28	1.76	.88	.36	.90	1.91	6.52	1.53	1.47	1.19	18.80
April	1.66	.76	2.56	1.39	2.56	1.55	6.84	2.05	1.93	2.47	22.77
May	1.89	1.78	3.68	1.94	4.53	2.39	2.04	1.68	.91	1.96	22.80
June	.80	1.30	2.30	1.91	3.42	1.84	3.09	5.03	1.07	1.16	21.92
July	2.59	2.76	1.36	2.67	2.42	3.53	2.42	1.11	2.44	3.91	25.21
August	2.70	3.50	4.76	1.60	4.91	4.06	.19	4.37	3.27	5.47	34.53
September	.56	3.41	2.82	6.03	2.16	4.37	1.81	3.62	2.33	5.17	32.28
October	3.42	2.37	2.65	4.43	4.19	1.07	1.07	1.66	3.47	1.62	26.01
November	3.40	.71	2.87	6.61	1.31	6.43	2.77	1.73	5.27	6.96	38.06
December	.68	2.37	1.36	2.53	2.19	3.11	2.55	3.04	4.90	2.84	25.56
TOTALS	30.01	25.55	30.09	33.54	36.03	34.01	37.05	37.14	30.13	39.22	332.77

1941. Jan. adjusted 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 from gauge	Parish Church.	Distance from gauge

Station No. 3540 T.F. 08

51

RAINFALL at Weardale 10.10 (Yarmouth Res.)

County of Durham

Observer J. D. Redwell Esq. C.E.

River Basin Wear - 2

1/1/54 A.C. Wildsmith Esq. C.E.

Type of Gauge Snowdon.

1916-1950 P-accepted

File No. 1460492/26 P-22554/58

Annual Average 32.4 in. based on 32 years obs. un-weighted. Period of average 1881-1915 Ref. 5

5

34.46 " 35 " 1916-1950

1916-1950 P-22554/58

Diameter ...	8"		022	164						5"	
Height ...	1' 2"			1		1'		1' 0"			
Altitude ...	724			51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	2.42	3.32	.99	3.77	2.92	4.08	3.37	2.91	3.17	5.41	32.36
February	3.34	1.46	1.76	2.55	3.24	(3.29)	3.53	4.41	3.9	3.51	26.48
March	4.78	1.85	.30	2.22	2.18	1.46	1.88	2.73	1.31	3.16	21.87
April	2.32	1.83	3.22	.72	.34	1.40	.50	1.73	3.10	1.63	16.79
May	3.84	1.99	3.06	6.02	2.18	.87	1.70	4.05	.76	2.38	26.15
June	1.52	1.53	4.04	1.54	2.67	3.68	1.46	3.81	2.58	.56	23.39
July	1.80	1.16	2.05	1.53	1.26	3.05	3.62	2.81	1.43	4.97	23.68
August	5.13	4.18	5.17	7.27	1.05	8.46	4.73	3.12	.59	3.56	43.56
September	1.78	4.52	2.22	3.46	1.29	3.35	4.12	2.86	.97	3.57	28.14
October	1.05	5.43	2.24	5.22	2.34	2.6	2.18	2.43	2.05	10.24	35.34
November	8.49	3.77	2.09	6.17	2.51	1.09	2.42	.67	5.70	3.86	36.77
December	4.96	3.64	1.33	3.95	4.46	4.18	2.83	5.41	5.24	3.07	39.07
TOTALS ...	41.43	33.68	28.77	43.72	26.44	37.07	32.34	36.94	27.29	45.92	353.60
	D	D	D	D	D	d	d	D	D	D	10

1956. Feb part est M03. Eng agras.

20004

1958 Eng says gauge at 1' 0" always
Jup. III 1959 1.6.0K. Badly misaligned except SW - NW. Uncertified measure.

1960 gauge moved. now with steep wall and 24' square fence surround

NZ(45) 063407

Position of Station on Ordnance One-Inch map : No. of Map 84 National Grid Reference 45663407

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

Summary of Earlier Records from 10-year Sheets :

1916-1950, P- accepted

Record D, or d	C 1895	1910-19	1920-30	1931-40	1941-50	1951-60
		✓	✓	✓	✓	✓
		✓	✓	✓	✓	✓