

RAINFALL at Rowlands Gill, Chopwell Wood House

Armstrong College

10

3555

County of Durham

Observer J. F. Annand Esq M.D.

River Basin Tyne Lower - 3

J. McFarlane Esq
R. W. Hunter Esq

Rain Gauge, by

Diameter ...	8	12	8								
Height	1	0									
Altitude ...	446										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...			4.11	4.38	1.91	1.90	1.33	6.16	2.28	3.32	
February ...			3.21	.75	1.76	3.20	3.10	.83	1.34	1.89	
March	3.12	2.64	4.00	1.87	2.14	4.17	2.05	1.46	3.05		
April	1.55	.19	2.76	.81	.53	1.65	3.18	2.05	1.96		
May .....	.86	2.83	2.44	1.36	2.14	3.20	2.92	1.85	1.15		
June	4.37	4.98	1.47	4.28	.45	2.03	1.73	.74	1.11		
July .....	.88	4.66	1.18	2.36	3.38	2.33	1.22	3.46	2.11		
August	3.12	6.23	1.74	2.43	2.86	4.08	8.14	1.81	2.51		
September ..	2.45	2.54	4.09	1.59	1.75	1.56	1.57	5.32	1.07		
October ...	2.62	2.57	1.39	2.46	1.27	3.03	2.60	2.60	5.29		
November ...	3.49	1.63	1.40	4.19	1.56	4.04	1.03	1.46	4.38		
December ...	4.27	2.06	1.08	5.11	6.75	3.69	3.04	2.88	3.06		
TOTALS ...			37.65	26.68	30.13	27.93	34.81	33.47	27.25	30.90	

1916 Hedge & wire fence 32 ft high 5 yds away
1919 Yreos. 12 ft. > 20 ft. NW & N.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
4/12	54° 55' N	1° 47' W	Rowlands Gill Lindley farm	2 1/2 m	SE	St Patrick	1 1/2 m	NW

RAINFALL at Rowland's Gill Armstrong College Chopewetwood No.

County of Durham

Observer P. W. Hunter Esq

River Basin Tyne-Lower 3

Y. E. Anderson (1922)

Capt. A.D. Hopkins ('26)

Rain Gauge, by Pastorelli, Rophin

for Office of Woods. Wm Hodgson (29)
Forestry Commissioner.

Diameter ...	8										
Height	1	0									
Altitude ...	446										
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEANS.
January ...	2.64	4.77	3.69	.85	1.21	2.35	2.77	1.79	2.57	2.10	365
February ...	1.13	12	2.32	3.81	1.08	2.71	2.26	0.64	1.53	1.38	155
March	3.29	1.02	1.42	1.37	.73		1.11	3.32	3.52	.47	264
April	3.57	1.38	2.15	1.96	1.40	1.95	1.55	1.87	1.19	1.51	259
May	3.63	1.57	.70	2.62	5.62		2.88	1.76	1.82	1.20	166
June	1.15	.57	1.19	.91	2.02	.10	3.23	4.03	4.50	1.48	102
July	3.68	1.33	5.85	2.28	6.08	1.74	4.25	3.42	1.84	2.84	633
August	1.22	6.07	2.34	4.43	3.79	3.27	2.53	5.15	4.58	3.00	548
September...	1.81	.74	4.51	1.83	2.66		2.64	4.56	1.62	1.20	302
October	2.10	1.57	1.61	1.85	3.42		2.81	1.54	4.00	1.80	188
November...	1.23	2.29	.84	3.90	1.09		5.18	3.31	3.78	2.70	312
December...	3.70	1.63	3.43	2.56	2.64	4.60	.81	4.45	1.95	3.65	300
TOTALS...	29.15	23.26	30.05	28.37	32.34	IMP	32.07	35.24	32.90	23.39	3594
	D	D	D	D			D	D	M	D	

1920 Trees 14ft high 15 yds NW & N.

1921 7 8 NW

1929 .. 20' .. 15' W

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

Reference No. _____

Date.	Lat. N.	Long. W.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
1920	54° 55'	1° 47'	Linty Green Renslands Gill	2 mi 3 miles	S E	St. Patrick	1 1/2 mi	N. E.

RAINFALL at Rowlands Gill (Chopwellwood) M.W.R.County of Durham Observer Forestry CommissionRiver Basin Type - lower - 3Type of Gauge StandardAnnual Average 22.7 in. based on 14 years obs. un-weighted. Period of average 1881-1915 Ref. S. Arthur

Diameter	9.					8"						
Height	1.0.					1.0						
Altitude	446.					446'						
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	2.26	1.35	(1.44)	2.08	2.03	4.19	3.40	1.95	3.48	2.30	2448	
February	1.87	.83	1.72	.35	2.88	3.37	3.46	.94	1.10	2.27	1879	
March	1.34	2.18	.44	3.77	.60	2.56	2.95	.50	3.88	2.44	2066	
April	3.56	1.63	1.38	4.87	2.07	1.46	2.73	.28	1.37	1.21	2056	
May	2.61	3.47	2.27	1.48	1.13	2.39	2.87	2.73	1.32	.95	2142	
June	4.08	1.08	2.14	2.93	3.17	4.31	1.57	3.09	2.64	1.13	2614	
July	3.65	4.44	2.23	2.51	.65	3.29	2.22	2.54	3.50	6.73	3176	
August	3.57	2.28	1.76	2.41	2.31	2.23	2.46	2.22	2.42	1.12	2283	
September	2.04	2.64	1.86	1.37	4.51	2.77	2.00	2.06	1.83	1.54	2262	
October	1.11	3.82	4.04	3.61	3.54	1.41	2.02	3.63	5.86	3.55	3264	
November	2.57	(.80)	3.67	3.23	4.17	3.59	1.46	2.74	3.08	3.37	2868	
December	1.20	.88	1.20	4.32	1.77	1.80	4.71	3.47	1.26	2.65	2326	
TOTALS	29.86	(25.60)	24.15	32.93	28.83	33.42	31.85	26.20	31.74	29.26	29384	1112
	D.	D.	D.	D.	D.	D.	A	D	D	D		

Inspected 1/6/33. Cut in funnel. Site over-sheltered.
 Gauge moved to new site selected by inspector on 14/8/33.
 Old site had become unduly sheltered by trees.
 1936. Inspected 18/5/36. Gauge exposed. No change.

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

Station No. 3555

RAINFALL at Rowlands Gill (Chopwellwood) M.W.R. 41

County of Durham

Observer Forestry Commission

River Basin Tyne-Lower-3

Type of Gauge Snowdon

Annual Average 28.7 in. based on 14 years obs. un-weighted. Period of average 1881-1915 Ref S

File No. 56924/47

Diameter	8"		0.13	53.6							
Height	1'0"			1							
Altitude	446			41		1034	0				
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	4.05	2.56	2.86	.84	4.72	1.32	1.91	2.53	1.58	1.99	29.36
February	7.28	2.05	1.40	2.03	1.32	.61	3.56	1.04	.98	4.15	24.48
March	2.40	1.25	.78	.52	0.52	1.51	4.64	.88	.97	.57	14.04
April	1.77	.90	1.72	1.55	1.59	1.10	4.03	1.58	1.57	(2.00)	17.81
May	2.65	1.26	2.72	1.90	3.43	1.96	2.46	2.31	.85	2.63	22.17
June	3.61	1.63	2.02	2.87	2.08	2.96	3.30	4.25	.93	1.26	24.91
July	1.59	3.09	1.70	2.23	2.14	3.70	3.58	.95	2.29	3.76	25.09
August	2.45	2.66	4.94	1.52	1.93	4.02	.41	4.62	1.89	3.89	28.33
September	.61	2.70	2.78	6.34	1.61	4.19	1.59	2.69	.94	3.14	26.59
October	3.38	2.77	2.09	3.36	2.96	(1.20)	1.01	1.69	2.31	.98	21.75
November	3.06	.58	2.54	4.89	1.16	4.66	2.47	1.30	3.79	5.64	30.09
December	.30	1.94	1.12	1.66	1.38	2.47	2.16	1.97	2.87	1.98	17.85
TOTALS	33.15	23.39	26.67	23.83	24.84	29.78	31.12	30.81	20.97	31.99	282.47

18.7.46 Gauge tested & found sound - rain collected in copper can. Obs. considers site satisfactory sheltered by trees E.N. grass in plate matted. Fungal insects; interference possible.

New site recommended south of forestry buildings but with gentle slope to S.W. Gauge leaking in cylinder above funnel. To be repaired.

1946. Station inspected. Site changed 8.5.50.

1946 - Oct 12/61 to complete year for enquiry 48. 29.70 fits in best 9 maps.

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

BRITISH RAINFALL ORGANIZATION

Station No. 3555 51RAINFALL at Howlands Gill (Chapelwellwood) M.W.R.County of Durham Observer Forestry CommissionRiver Basin Tyne-Awer-3Type of Gauge SnowdonAnnual Average 28.7 in. based on 14 years obs. un-weighted. Period of average 1881-1915 Ref. 5
29.11 - 4 - 1953-1956 1916-1950 E 1924/197 P
File No. E 1924/197

Diameter ...	8"			018	53	6						
Height ...	1' 0"				1							
Altitude ...	446'				51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	
January ...	1.76	2.28	(.75)	3.06	2.23	3.19	1.69	1.74	2.95	4.91	24.59	
February ...	2.16	.58	1.57	2.22	1.63	2.50	2.24	4.83	.77	2.50	20.50	
March ...	4.24	1.39	.06	1.31	2.09	1.00	1.31	2.92	.73	2.19	17.24	
April ...	1.67	1.39	2.28	.60	.66	1.27	.60	2.17	1.94	1.28	13.86	
May ...	3.2	1.33	3.03	4.19	1.92	.70	2.07	3.93	.54	2.52	23.95	
June ...	1.85	1.41	2.59	1.56	2.51	4.20	1.74	5.59	3.55	.18	23.18	
July ...	2.14	.86	2.31	2.85	1.29	3.09	3.39	3.36	1.24	6.49	24.52	
August ...	4.92	1.96	4.02	5.95	1.00	7.54	4.38	2.14	.43	4.62	36.98	
September ...	1.36	3.24	1.40	2.88	.99	2.76	3.48	2.31	.93	2.28	21.63	
October ...	.63	3.34	1.58	4.16	1.73	1.98	2.00	1.52	1.33	7.74	26.01	
November ...	6.71	3.42	1.17	3.55	1.38	.68	1.95	.58	4.96	2.68	27.08	
December ...	2.22	(2.86)	1.14	2.21	3.14	1.84	1.96	4.22	4.75	2.07	26.21	
TOTALS ...	33.40	24.06	21.90	24.04	20.57	30.75	26.81	32.81	24.15	37.46	285.95	10
	D.	D.	D	D.	D	D	D	D	D	D	D	

Imp 11" Label 20.5.52. New Hex Iron Cast-imp. Satisfactory make, perhaps a little overexpd to S. Right list unmarked that labelled measure. Super measure recommended.

1952 Dec sat. measure broken

1953 Jan. ext. Mo 3(b)

imp 1957

Position of Station on Ordnance One-Inch map: No. of Map..... National Grid Reference NY 43 136580

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

Summary of Earlier Records from 10-year Sheets:

1916-1950, P-accepted

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	C imp 1911 ✓ but - 17-18	✓ np 25 but - 24	✓ ✓ but d 32	✓ imp +6. ✓	