

# RAINFALL AT

Royal Cottage Newcastle Water Works

Lat. ....

Lon. ....

County of Northumberland

Rain Gauge, by ....

Observer A. Foster Esq. & Co.

N. Tyne - 4.

Diameter ..							10	□			
Height ....							0	9			
Altitude ..							46	3			
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..						.70	3.53	.68	2.00	1.31	
February ..						1.32	1.36	1.16	1.18	2.78	
March ....						2.51	2.38	1.27	4.05	4.67	
April .....						5.57	1.66	2.10	1.85	3.38	
May .....						1.37	5.01	3.07	2.70	1.76	
June .....						1.25	2.33	3.83	.40	2.20	
July .....						1.44	2.74	1.82	3.05	2.72	
August ....						4.79	6.55	2.58	1.85	2.32	
September ..						2.40	1.28	.71	2.71	1.73	
October ....						3.07	5.55	5.82	2.79	2.63	
November ..						6.11	5.52	1.55	1.32	.52	
December ..						1.38	2.75	2.74	1.01	3.89	
TOTALS ..						31.94	40.66	27.33	24.91	29.91	

RAINFALL at Royal Cottage Newcastle W.W.County of Northumberland Observer A.L. Forster Esq. C.E.River Basin Coquet + C 5Square Rain Gauge, by \_\_\_\_\_

Diameter ...	10	□									
Height .....	0	9									
Altitude ...	463										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	2.42	1.87	2.61	3.12	1.52	2.28	2.05	3.44	2.34	3.96	
February ...	2.61	1.46	2.63	.67	1.51	1.94	3.55	.77	1.79	1.62	
March .....	.41	2.67	1.86	3.81	2.76	1.81	3.73	1.54	1.32	2.18	
April .....	2.43	1.74	.22	2.49	.75	.76	1.35	2.89	1.24	1.58	
May .....	2.08	.83	2.15	2.13	1.27	1.88	2.89	2.40	1.85	1.17	
June .....	1.39	4.65	4.34	1.90	3.65	.70	1.93	1.10	.51	.98	
July .....	3.92	.84	2.90	1.03	2.62	3.84	3.36	.75	2.39	2.21	
August .....	4.07	2.69	6.12	2.15	2.54	3.11	3.67	5.90	1.66	2.81	
September ..	.73	2.46	2.52	2.78	1.13	1.90	1.34	2.23	4.55	1.83	
October ...	2.28	3.81	2.85	3.59	2.73	1.37	3.31	2.18	2.66	4.57	
November ..	3.34	3.86	1.64	1.60	3.70	1.64	4.24	1.35	1.01	4.66	
December ...	1.96	3.26	2.68	1.56	4.94	5.15	3.20	2.17	2.43	2.90	
TOTALS ...	27.69	30.14	32.52	26.83	29.42	26.33	34.62	26.72	23.75	30.41	

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

RAINFALL at Ryals Cottage Newcastle N.W.County of NorthumberlandObserver A. S. Forster Esq. C.E. (decd)River Basin NORTH TYNE 4.River Basin Coquet = 1 C 5 =A. Hardcastle C.E. (1921)

Snowdon Rain Gauge, by  
~~gal. iron~~ - sound & correct } ix. 26  
 measure correct

Diameter ...	<u>10</u>											
Height .....	<u>0.9</u>											
Altitude ...	<u>463</u>											
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEANS.	
January ...	2.80	5.07	2.98	1.19	2.29	1.60	2.11	1.75	3.54	1.57	3.26	
February ...	1.41	.73	2.51	3.90	.84	2.76	2.30	.70	1.76	.82	2.02	
March .....	2.53	1.22	1.62	1.60	.98	2.25	1.22	2.61	2.46	.26	2.19	
April .....	3.66	.80	2.23	2.08	1.53	2.30	1.13	2.22	.68	2.01	1.89	
May .....	3.64	1.23	.83	1.37	5.74	3.04	2.44	1.72	1.17	.88	1.16	
June .....	1.32	.76	1.53	.88	1.42	.11	4.57	4.04	3.67	1.42	.89	
July .....	3.60	1.48	3.93	1.93	4.90	1.49	3.80	4.27	1.51	3.49	4.71	
August .....	2.18	6.64	1.87	4.45	2.61	4.11	2.40	5.62	3.99	2.73	5.72	
September...	1.43	1.68	4.39	1.50	2.70	3.82	2.82	3.98	.98	1.49	2.46	
October .....	1.83	2.25	1.42	2.18	2.62	1.90	3.23	2.23	3.36	2.48	2.73	
November...	1.25	2.19	.75	3.81	1.12	1.89	2.86	2.77	2.78	2.81	3.74	
December...	4.82	1.89	3.70	1.91	2.53	4.44	.45	3.07	1.88	3.87	2.32	
TOTALS...	30.47	25.34	27.46	26.80	29.28	29.71	29.33	34.93	27.78	23.88	33.07	

Inserted g.s. 7. 18. 26. 4. by stream with bridges on either side.  
 Excellent exposure.

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 from gauge	Parish Church.	Distance from gauge	Direction from gauge



RAINFALL at Ryal Cottage (Newcastle W.W.)County of NorthumberlandObserver A. Hardcastle, Esq., C.E.River Basin North Tyne - 4.Newcastle & Gateshead W. Co. (1930)

Type of Gauge.....

Annual Average 23.1 in. based on 22 years obs. un-weighted. Period of average 1881-1915 Ref. 5

660605/26

Diameter	5											
Height	10.4											
Altitude	0.9.											
	463.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	1.70	1.42	1.24	1.58	2.21	3.60	2.39	1.34	5.19	1.71	2238	
February	1.71	.73	3.66	.35	3.25	2.58	2.67	.95	1.28	2.49	1967	
March	1.23	2.14	1.57	3.89	.87	1.93	2.97	.74	3.81	3.42	2262	
April	3.53	2.17	1.42	3.74	2.48	1.38	2.11	.25	1.14	.99	1921	
May	2.87	2.95	1.80	1.26	.74	1.46	2.76	2.44	.97	.88	1813	
June	4.81	1.41	2.27	2.41	1.81	2.39	1.58	3.40	2.22	.48	2278	
July	3.73	2.92	2.93	3.19	.66	2.85	2.55	2.45	2.80	6.95	3103	
August	4.21	1.70	2.00	3.42	2.33	2.30	2.80	2.48	2.50	1.03	2477	
September	1.12	3.52	1.77	1.86	3.08	3.61	2.75	1.26	1.44	1.81	2222	
October	.97	4.05	3.29	3.42	4.68	2.01	2.20	4.06	6.01	2.88	3357	
November	2.72	1.08	2.90	2.98	3.46	2.86	1.05	2.40	3.40	3.01	2586	
December	1.28	1.28	.94	3.79	1.63	1.91	4.44	2.82	1.34	2.31	2174	
TOTALS	29.88	25.87	25.79	31.89	27.20	28.93	30.27	24.59	32.10	27.96	28398	ky

The gauge is 5' above ground, and  
 10' above the sea level.

 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

Station No. TF 3571RAINFALL at Royal Cottage (Newcastle W. W.)

41

County of NorthumberlandObserver Newcastle & Gateshead W.C.River Basin North Tyne

Type of Gauge

Annual Average 29.1 in. based on 32 years obs. un-weighted. Period of average 1881-1915 Ref. S.File No. 660605/26

Diameter	5 1/2"		212	304								
Height	0' 9"			1								
Altitude	463'			41								
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	
January	4.27	3.83	2.68	.97	(4.43)	2.03	1.64	7.60	1.25	1.96	30.66	
February	5.32	1.83	1.49	1.52	(1.94)	.78	3.23	1.96	1.01	4.10	22.98	
March	3.14	1.26	.73	.29	.41	1.50	3.93	.89	.57	.94	13.66	
April	1.64	.90	1.14	1.92	1.71	.59	2.92	1.78	1.29	1.85	15.74	
May	1.95	1.20	3.09	2.05	3.46	1.86	1.95	1.45	.81	1.44	19.26	
June	.41	1.09	2.15	2.25	3.21	2.15	3.14	2.65	.90	1.43	19.38	
July	1.87	2.71	2.11	2.39	1.69	3.23	3.95	1.04	2.02	3.21	24.22	
August	3.36	4.26	4.35	2.39	1.06	4.10	.17	4.70	2.56	4.18	31.13	
September	.43	2.48	2.72	6.18	1.52	3.80	1.18	2.77	1.81	3.54	26.43	
October	3.67	2.54	3.07	2.56	3.06	.47	.75	1.42	2.95	1.35	21.84	
November	2.91	.41	1.76	6.37	.60	4.14	2.84	2.05	3.22	4.85	29.15	
December	.49	2.08	1.23	1.54	1.32	1.93	2.92	1.55	3.24	1.89	18.19	
TOTALS	29.46	24.59	26.52	30.43	24.41	26.58	28.62	28.66	21.63	30.74	272.64	10

1945 Jan. &amp; Feb. afforestation

50004

1948 Suppl. by Dr. G. Campbell 2/18. G. news replacing as seen in off. Side fairly good. Suppl. report in C.F.

Miles /  
X!

on inspection in 1926 the gauge was found to be 5" diam. - round.

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

Station No. 3571 R.F. 50RAINFALL at Royal Cottage

51

County of NorthumberlandObserver Newcastle & Gateshead W. Co.River Basin North Tyne - 4

Type of Gauge.....

Annual Average 29.1 in. based on 23 years obs. up-weighted. Period of average 1881-1915 Ref. S" " 27.95 " " 34 " " 1920-57 " " 1716-57File No. 66605/26

Diameter ...	5"		0.12	804								
Height ...	0' 9"			1								
Altitude ...	1463'		X	51								
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	
		<u>2500</u>									<u>Total</u>	
January ...	1.78	2.50	.67	2.43	2.45	3.16	1.88	1.64	1.62	3.93	22.06	
February ...	2.05	.33	1.44	1.59	2.17	2.27	2.47	4.04	.57	1.69	18.62	
March ...	3.41	1.71	.43	.77	1.93	.70	1.69	2.58	.82	1.95	15.99	
April ...	1.77	1.81	2.69	.50	.69	.65	.76	1.80	1.78	1.09	13.54	
May ...	2.98	1.37	1.52	3.52	1.21	.25	1.39	3.50	.26	1.80	17.83	
June ...	1.01	1.54	1.35	1.54	1.79	3.82	1.57	2.86	1.45	0.58	17.51	
July ...	1.88	1.48	2.31	2.43	1.26	2.07	4.23	4.32	2.68	4.44	27.10	
August ...	4.49	2.67	3.74	4.24	.92	7.51	3.53	2.30	.29	2.55	32.24	
September ...	1.30	2.53	3.43	4.28	1.33	2.86	2.39	3.12	.69	1.07	22.98	
October ...	.68	2.13	1.03	5.17	1.25	1.67	2.29	1.62	2.29	5.32	23.45	
November ...	6.54	2.54	1.45	2.71	1.10	.53	1.69	.66	5.27	3.08	25.57	
December ...	1.50	2.87	1.26	2.46	3.45	1.62	1.82	3.55	3.81	2.70	25.04	
TOTALS ...	29.39	23.48	21.32	31.64	19.55	27.12	25.71	31.99	21.53	30.20	261.93	10
	M	M			M	M	M	M	M	M		

1955 Feb part obs'd.

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference NY 45 997748

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

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	?	✓	✓	✓	
		-	- 31-37	-	