

# RAINFALL AT *Newcastle upon Tyne*

60

Rain { By *W. Syll*  
Gauge {  
Diameter.....*8.66* in.

Height above Ground, *75* ft. .... in.

Above Mean Sea Level, *180* ft.

YEAR .....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January .....						<i>0.87</i>	<i>.64</i>	<i>2.79</i>	<i>2.32</i>	<i>2.19</i>	
February .....						<i>.73</i>	<i>1.45</i>	<i>.54</i>	<i>1.78</i>	<i>1.66</i>	
March .....						<i>.71</i>	<i>1.58</i>	<i>1.50</i>	<i>1.15</i>	<i>2.19</i>	
April .....						<i>1.72</i>	<i>2.31</i>	<i>1.32</i>	<i>3.71</i>	<i>2.38</i>	
May .....						<i>3.13</i>	<i>1.01</i>	<i>1.67</i>	<i>.52</i>	<i>3.33</i>	
June .....						<i>.52</i>	<i>1.34</i>	<i>1.49</i>	<i>.21</i>	<i>2.35</i>	
July .....						<i>2.25</i>	<i>3.20</i>	<i>3.42</i>	<i>.64</i>	<i>.48</i>	
August .....						<i>2.29</i>	<i>3.05</i>	<i>2.41</i>	<i>2.22</i>	<i>1.00</i>	
September ...						<i>.32</i>	<i>2.89</i>	<i>2.40</i>	<i>3.72</i>	<i>3.83</i>	
October .....						<i>6.68</i>	<i>1.20</i>	<i>1.20</i>	<i>2.69</i>	<i>3.17</i>	
November ...						<i>1.71</i>	<i>2.23</i>	<i>.64</i>	<i>2.58</i>	<i>3.51</i>	
December .....						<i>.31</i>	<i>1.29</i>	<i>2.46</i>	<i>4.71</i>	<i>3.92</i>	
TOTALS .....						<i>21.24</i>	<i>22.19</i>	<i>21.78</i>	<i>26.25</i>	<i>30.01</i>	

*1866 this g appears to have been lowered to the ground*

## RAINFALL AT Newcastle on Tyne Phil. Society

Lat. ....

Lon. ....

County of ...

Northumberland

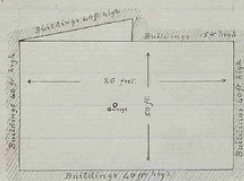
Rain Gauge, by, .....

Observer

W. M. Lyall Esq.

Diameter	.8										
Height	1.5					1.7		1.5		1.7	
Altitude	105.		106 <sup>π</sup>		105			106	103		
YEAR	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January	1.43	.30	2.45	1.00	1.49	1.00	.91	1.96	3.46	.85	1.485
February	2.35	.37	1.86	2.00	1.16	.86	2.84	2.28	1.11	2.96	1.779
March	1.49	.77	3.32	2.08	1.27	.48	3.01	3.76	1.30	.82	1.830
April	.03	2.04	2.50	.60	.56	.72	3.05	6.08	2.17	1.91	2.026
May	1.00	.60	1.98	2.19	3.21	1.30	1.35	2.78	3.62	1.82	1.993
June	1.79	1.07	3.12	4.38	2.5	1.90	1.27	1.44	2.15	3.64	1.962
July	.67	2.00	3.16	2.69	2.40	6.20	2.22	3.21	.13	3.54	2.622
August	1.20	.87	2.10	2.31	1.16	4.12	1.66	7.64	6.16	3.06	3.096
September	1.40	4.68	4.82	.93	1.70	3.36	3.98	.98	1.44	.87	2.416
October	4.00	2.91	5.63	1.29	.76	4.36	1.26	2.74	1.32	.66	2.493
November	2.64	1.67	5.12	1.18	2.66	5.87	2.99	1.40	7.31	2.84	3.368
December	4.02	2.83	5.47	.56	5.80	2.02	7.73	2.41	4.69	1.26	3.679
TOTALS	23.58	20.91	41.33	19.02	22.42	32.19	32.27	36.68	34.86	24.23	28.749

1875 Gauge sheltered by buildings



St John's church 200 yds N.N.W.

# RAINFALL AT Newcastle, Philos. Society

80

Lat. ....

Lon. .... County of Northumberland

Rain Gauge, by .....

Observer H. Lyall, Esq

June 3

Diameter ....	8										
Height .....	1.7								55		
Altitude ....	105 T								160 T		
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January .....	.62	2.05	.53	1.83	2.78	1.36	3.39	1.83	1.20	# .97	1.656
February .....	1.47	2.90	.41	1.49	1.27	.81	1.21	.44	2.32	.87	1.319
March .....	.89	1.84	1.81	2.52	2.00	1.89	2.60	1.33	5.59	2.95	2.312
April .....	2.53	.84	2.65	1.30	2.01	1.83	1.37	.99	1.63	2.04	1.719
May .....	1.21	1.70	2.09	2.03	.93	3.12	2.17	1.60	.68	1.23	1.666
June .....	1.05	1.36	3.39	2.69	.99	1.57	1.27	.25	2.13	.16	1.483
July .....	4.52	2.40	2.63	3.66	4.03	1.47	3.49	.84	5.20	2.71	3.095
August .....	1.85	5.83	3.00	2.79	.97	3.70	2.25	2.21	1.78	4.41	2.826
September .....	3.74	4.23	1.60	3.42	1.52	2.57	1.67	5.02	1.08	.83	2.568
October .....	4.62	3.39	3.39	2.16	1.35	3.87	4.64	1.93	1.12	4.53	3.100
November .....	2.24	.97	2.68	1.31	1.52	1.86	3.66	2.88	4.37	.99	2.248
December .....	3.15	2.41	4.42	1.93	1.35	.85	3.20	2.60	.86	# 1.27	2.204
TOTALS .....	27.39	29.92	28.60	27.13	20.62	24.57	30.92	21.92	27.93	22.96	(26.196)

St. Johns 130 yards NW.

1883. Building 35' x 40' around.

1889 Gauge moved to roof at beginning of year owing to alterations



# RAINFALL AT *Newcastle Philo. Society*

Lat.

Lon.

 County of *Northumberland*

Rain Gauge, by

 Observer *H. Richardson Esq*
*Stene 3.*

Diameter ....	8											
Height .....	55.0		65.0		55.0							
Altitude ....	160 T		170 T		160							
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January ....	1.93	1.04	.94	1.43	1.38	4.54	1.42	1.56	.97	2.89	1.810	
February ....	1.57	.04	2.05	2.91	3.11	1.22	41	1.40	.70	1.06	1.447	
March .....	2.04	1.50	.92	.51	.64	1.98	2.69	3.26	2.13	.76	1.613	
April .....	.67	1.96	1.07	.50	1.20	1.41	96	1.75	2.38	2.57	1.447	
May .....	2.08	1.53	2.76	1.65	2.37	.57	.80	1.29	1.72	4.07	1.884	
June .....	1.92	.27	2.76	1.22	3.48	2.38	2.31	2.65	2.37	1.65	2.101	
July .....	3.05	4.51	1.41	3.63	2.20	5.42	2.97	1.37	.86	2.47	2.784	
August .....	6.53	4.28	3.60	2.42	2.58	3.67	2.09	3.04	1.99	.11	3.031	
September ....	2.15	2.31	2.58	1.71	1.07	.53	2.29	2.81	.43	3.15	1.903	
October .....	1.72	1.61	4.84	.76	4.37	4.22	5.48	1.36	4.70	2.03	3.109	
November ....	3.47	1.74	1.12	2.16	.88	2.25	1.50	1.73	3.57	1.44	1.986	
December ....	2.05	2.88	1.18	1.43	1.16	2.13	4.66	2.13	1.26	3.30	2.218	
TOTALS . .	29.18	23.67	25.23	20.33	24.44	30.32	27.58	24.35	23.08	25.50	25.368	

1893 Observations irregular & unreliable & gauge on 1890 different parts of the roof owing to a serious fire in Jan'y

# RAINFALL AT *Newcastle Lit and Phil Soc*

Lat. ....

Lon. ....

County of *Northumberland*

Rain Gauge, by .....

Observer *H Richardson Esq*

*Lyne, lower - 3.*

Diameter ..	8										
Height ....	55.0										
Altitude ..	160										
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	3.08	1.45	1.49	1.61	1.48	.25	2.67	.10	1.48	.55	1.416
February ..	5.51	1.37	1.46	1.42	3.52	.53	.65	1.28	1.66	1.36	1.876
March ....	1.75	1.85	1.00	1.30	1.42	1.80	1.06	.93	3.78	5.04	1.943
April .....	1.24	1.10	1.92	1.46	1.79	2.75	1.73	2.62	2.59	2.19	1.939
May .....	1.53	2.37	3.78	2.53	3.03	.85	5.56	4.87	2.44	1.42	2.838
June .....	4.87	1.31	2.73	3.37	1.94	1.03	1.85	3.05	.23	2.62	2.300
July .....	1.71	4.21	4.33	5.20	1.37	3.22	1.19	1.84	3.83	1.74	2.864
August ....	6.71	2.21	3.93	2.99	2.27	2.33	4.45	2.80	1.10	3.94	3.273
September ..	.99	.80	.41	2.82	.99	2.36	.60	.55	2.60	2.04	1.416
October .....	7.30	2.34	3.13	8.93	.89	3.02	5.08	6.35	1.50	2.14	4.068
November ..	3.16	5.87	.82	1.93	2.78	4.86	3.84	1.57	1.27	.56	2.666
December ..	2.18	2.92	2.05	3.07	1.64	.44	3.61	3.39	.89	4.80	2.499
TOTALS ..	40.03	27.80	27.05	36.63	23.12	22.94	32.29	29.86	23.37	28.40	27.008

*3 4 5 6 7 8 9 10 11 12*

*Hub*

## RAINFALL at Newcastle Lit &amp; Phil Society

County of Northumberland

Observer H. Richardson Esq

River Basin Tyne Lower 3

Rain Gauge, by

Diameter ...	8										
Height .....	55.0										
Altitude ...	160										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January	3.03	1.86	2.97	4.40	2.05	2.06	.94	3.35	2.36	3.39	
February	3.55	.54	2.62	.49	1.05	2.69	3.06	.75	.84	2.04	
March	.28	2.19	1.47	2.71	2.16	1.61	3.51	1.85	.68	2.20	
April	3.22	1.42	.09	2.52	.26	.56	1.29	4.13	1.81	1.41	
May	2.57	.51	2.92	2.30	1.16	1.71	3.59	2.80	1.70	.86	
June	2.73	5.58	6.05	.79	4.88	.08	2.16	1.49	.44	.88	
July	3.22	1.05	3.44	.32	3.46	3.23	3.81	1.17	5.00	1.61	
August	2.96	3.00	5.33	1.53	2.39	2.34	3.50	9.15	1.12	2.04	
September	.71	3.00	2.26	6.65	2.10	1.81	1.76	1.43	6.00	.97	
October	2.98	2.53	3.89	2.08	2.27	1.11	2.73	2.45	2.69	5.99	
November	3.90	3.69	1.50	1.41	3.56	1.40	2.97	.95	1.10	3.88	
December	2.08	3.40	1.46	.82	3.83	6.72	4.63	3.27	3.71	2.95	
TOTALS	31.23	28.77	34.00	26.32	29.17	25.32	33.95	32.79	27.50	28.07	
	imp 2	imp 2						imp 2	imp 2	imp 2	

1911 cont for WD

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
			Newcastle (Central)					



RAINFALL at Newcastle Lib. & Phil. SocietyCounty of NorthumberlandObserver H. Richardson Esq  
T.H. Mair, Sub. LibrarianRiver Basin Lynne-Lower BRain Gauge, by  
Shallow funnel.measure not quite accurate but reasonable. (K. 26.)

Diameter ...	8										
Height .....	55.0										
Altitude ...	160										
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.
January ...	1.95	3.45	3.11	1.28	2.37	1.83	2.70	1.64			
February ...	1.11	1.5	2.14	3.33	1.70	2.75	2.82	.32			
March .....	2.81	.74	1.70	1.57	.97	2.05	1.09	1.12			
April .....	3.15	1.52	1.93	2.58	1.77	2.49	1.10	1.15			
May .....	3.24	1.54	.90	3.02	7.22	3.18	3.39	1.04			
June .....	.73	.63	1.29	.83	1.99	.00	3.94	3.55			
July .....	3.03	1.54	5.68	2.51	6.78	2.05	5.04	3.41			
August .....	2.04	6.29	2.71	4.35	3.59	2.28	2.45	5.41			
September...	1.29	1.40	4.41	1.60	3.14	3.98	2.74	4.50			
October .....	1.92	1.73	2.07	2.28	4.03	2.04	2.95	1.49			
November...	.86	2.70	.82	4.51	1.21	2.61	3.78	2.74			
December...	2.45	1.25	4.04	2.84	2.70	4.23	.76	4.53			
TOTALS...	24.58	23.04	30.90	30.75	37.47	31.49	32.76	30.95			

Inspected 7/3. 6.11.26. G. on roof in as good a position as available but not satisfactory owing to implication of surrounding chimneys & higher buildings.

1926 up/leak. Observer informed and promised to have gauge put into proper working order  
see encls 4A.17a File 7164/26.

1927 Observer informed roof/np. told record not required in future unless gauge put in an orthodox exposure see enc. 10A File 7164/26

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	Parish Church.	Distance from gauge	Direction
			Newcastle (Central)	100 yds	W	St. Nicholas	50 yds	E