

Rainfall at *Synemouth*.....

60

P. J. Mepent. Esq.



100 67 - 69 61. 61. 61. 61.

Diameter of Gauge, 5 in.

Height above Ground, .. 2. ft. 6 in.

H. W. Above Mean Sea Level, ... 5.2 ft. 6 in.

YEAR - -				1864	1865	1866	1867	1868	1869	MEANS.
January - -				1.44	1.19	.86	3.01	1.65	1.82	
February - -				1.92	1.28	1.28	.90	1.05	1.49	
March - - -				2.96	1.48	3.26	1.90	1.08	1.40	
April - - -				1.89	1.43	1.22	1.60	2.20	1.76	
May - - - -				2.44	2.50	1.15	2.23	.88	2.31	
June - - - -				2.12	.08	1.48	1.52	.38	1.03	
July - - - -				.70	2.03	1.03	2.86	.42	.91	
August - - -				1.04	2.51	5.47	1.94	1.80	1.12	
September -				1.41	.70	3.14	1.84	3.89	2.65	
October - -				3.66	6.14	1.33	1.23	2.12	2.85	
November -				.40	1.96	2.09	2.03	2.16	2.55	
December -				2.96	2.01	1.37	2.36	3.42	2.79	
TOTALS -				22.94	23.47	23.68	24.22	21.05	22.68	

4 c c c c c c

RAINFALL AT *N. Shields Tyne-mouth*

Lat.....

Lon.....

County of..

Northumberland

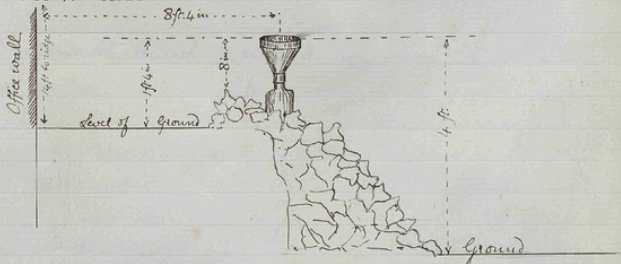
Rain Gauge, by.....

Observer

P. J. Muffett Esq.

Diameter.....	.5										
Height.....	1.2				2.8						
Altitude.....	62		65								
YEAR.....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	1.29	.66	2.37	.74	1.28	2.20	.57	2.93	2.82	.85	1.571
February.....	1.89	1.85	1.97	1.45	.71	.99	2.20	1.73	.82	2.75	1.636
March.....	1.08	.54	2.78	1.80	.89	.44	1.66	2.47	1.10	.64	1.340
April.....	.75	3.32	1.68	1.00	.58	.61	2.83	3.82	1.73	2.20	1.852
May.....	1.14	1.19	1.79	2.79	2.16	.90	.92	2.06	2.22	1.95	1.712
June.....	2.59	2.92	2.43	1.29	.88	1.75	1.79	1.25	1.82	3.76	2.043
July.....	.43	3.49	2.64	2.40	1.68	5.04	2.33	2.82	.59	3.77	2.579
August.....	1.82	.94	3.36	2.82	1.63	3.15	1.13	5.97	4.08	3.19	2.809
September.....	.75	4.74	4.36	1.70	1.50	2.54	2.73	1.79	1.61	.72	2.244
October.....	3.28	1.83	5.45	2.11	1.32	2.78	1.61	2.33	1.49	.58	2.278
November.....	3.30	1.68	3.66	.99	3.23	5.09	2.61	1.26	6.69	3.38	3.189
December.....	5.01	1.66	4.06	.21	3.74	1.23	6.07	1.98	4.04	1.01	2.901
TOTALS.....	23.33	24.82	36.55	19.30	19.55	26.72	26.45	38.41	29.01	24.80	26.094

1875 Gauge partially sheltered by buildings on the N side



Holy Saviour church Tyne-mouth 847 yd N.W. 1/2 N.

RAINFALL AT *North Shields, Tyne-mouth* 80

Lat. _____

 Lon. _____ County of *Northumberland*

Rain Gauge, by _____

 Observer *P. J. Messent, Esq., & Co.*
Type - lower 3

Diameter	<i>5</i>										
Height	<i>2.8</i>						<i>1.8</i>				
Altitude	<i>65 ft</i>										
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January	<i>.29</i>	<i>1.26</i>	<i>.48</i>	<i>1.40</i>	<i>2.55</i>	<i>1.54</i>	<i>2.60</i>	<i>1.52</i>	<i>1.48</i>	<i>1.10</i>	<i>1.422</i>
February	<i>1.27</i>	<i>3.24</i>	<i>.50</i>	<i>1.41</i>	<i>.91</i>	<i>.78</i>	<i>1.28</i>	<i>.31</i>	<i>.95</i>	<i>.92</i>	<i>1.157</i>
March	<i>1.58</i>	<i>3.15</i>	<i>1.04</i>	<i>1.66</i>	<i>2.05</i>	<i>1.93</i>	<i>1.68</i>	<i>1.75</i>	<i>3.83</i>	<i>2.37</i>	<i>2.104</i>
April	<i>1.88</i>	<i>1.07</i>	<i>2.75</i>	<i>1.17</i>	<i>2.09</i>	<i>1.39</i>	<i>1.44</i>	<i>.75</i>	<i>1.32</i>	<i>2.22</i>	<i>1.610</i>
May	<i>1.31</i>	<i>1.63</i>	<i>2.33</i>	<i>1.51</i>	<i>.52</i>	<i>2.39</i>	<i>2.38</i>	<i>1.43</i>	<i>.37</i>	<i>1.74</i>	<i>1.561</i>
June	<i>.99</i>	<i>1.65</i>	<i>3.67</i>	<i>2.42</i>	<i>1.31</i>	<i>1.50</i>	<i>1.17</i>	<i>.31</i>	<i>1.82</i>	<i>.33</i>	<i>1.517</i>
July	<i>4.74</i>	<i>3.18</i>	<i>3.51</i>	<i>4.06</i>	<i>2.53</i>	<i>1.40</i>	<i>3.92</i>	<i>.91</i>	<i>4.69</i>	<i>2.82</i>	<i>3.176</i>
August	<i>1.10</i>	<i>4.41</i>	<i>4.05</i>	<i>2.25</i>	<i>.79</i>	<i>3.18</i>	<i>1.85</i>	<i>2.35</i>	<i>2.01</i>	<i>3.91</i>	<i>2.590</i>
September....	<i>3.56</i>	<i>4.35</i>	<i>1.45</i>	<i>2.90</i>	<i>1.39</i>	<i>2.34</i>	<i>1.76</i>	<i>4.87</i>	<i>1.29</i>	<i>1.21</i>	<i>2.512</i>
October	<i>3.86</i>	<i>2.58</i>	<i>2.67</i>	<i>1.67</i>	<i>1.48</i>	<i>3.89</i>	<i>3.14</i>	<i>2.97</i>	<i>.72</i>	<i>4.33</i>	<i>2.665</i>
November....	<i>1.90</i>	<i>1.01</i>	<i>2.50</i>	<i>.93</i>	<i>1.53</i>	<i>1.74</i>	<i>2.63</i>	<i>2.37</i>	<i>3.23</i>	<i>.92</i>	<i>1.881</i>
December	<i>3.36</i>	<i>1.59</i>	<i>3.06</i>	<i>2.49</i>	<i>1.47</i>	<i>.78</i>	<i>3.04</i>	<i>2.85</i>	<i>.70</i>	<i>1.31</i>	<i>2.065</i>
TOTALS	<i>25.84</i>	<i>29.12</i>	<i>28.01</i>	<i>23.71</i>	<i>18.67</i>	<i>22.86</i>	<i>26.91</i>	<i>22.39</i>	<i>22.41</i>	<i>23.18</i>	<i>24.260</i>

1880. St. Laviour's 833 yards N.W. x N.

Gable end of Office 12 ft 8 in to ridge 8 ft 4 in NW.

RAINFALL AT *North Shields, Tynemouth*

Lat.

Lon.

County of *Northumberland*

Rain Gauge, by

Observer *P. J. Messent Esq. C.E.*
J. Walker Esq. C.E.

Type 3.

Diameter	5											1
Height	1 8											
Altitude	65 ft											
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January	1.68	.95	1.27	1.62	1.10	3.50	1.08	1.75	.80	2.35	1.610	
February	1.19	.06	1.80	2.69	2.28	.78	.67	1.19	.65	.69	1.200	
March	1.73	2.91	1.19	.56	.65	2.05	1.62	2.35	1.23	1.94	1.623	
April .....	.66	1.28	1.07	.35	.61	1.42	.57	1.32	2.31	2.51	1.210	
May	1.94	1.30	2.32	1.33	2.28	.73	.86	1.12	2.13	3.43	1.744	
June	3.14	.39	2.41	1.13	2.86	1.84	1.65	2.31	1.88	1.94	1.955	
July	1.56	3.40	1.37	2.51	2.19	4.78	2.63	1.31	.89	2.21	2.285	
August	4.50	3.83	3.10	2.13	3.04	3.48	2.03	2.48	2.27	1.13	2.799	
September	1.64	1.89	2.72	1.77	.53	.56	2.34	2.64	.15	2.42	1.666	
October	2.23	1.37	3.34	.91	3.72	4.73	5.02	1.18	3.60	1.26	2.736	
November	2.99	2.12	1.56	2.14	.37	1.47	1.17	1.54	3.13	1.15	1.764	
December	1.18	2.91	1.20	1.20	1.12	1.68	3.91	1.75	.91	3.45	1.931	
TOTALS . . .	24.44	22.41	23.35	18.34	20.75	27.02	23.55	20.94	19.95	24.48	22.523	

1890 Ft. Lancers 833 yards N.W. by W

Gate of Office 12 ft 8 in high 8 ft 4 in N.W.

RAINFALL AT *North Shields Tyne-mouth Tyne River Wal*

Lat. Lon. County of *Northumberland*

Rain Gauge, by Observer *J. Walker Esq. Cl.*

Tyne, lower - 3.

Diameter ..	5										
Height	1.8										
Altitude ..	65 ft										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	3.17	1.49	.88	2.63	1.79	.23	2.42	.49	1.32	.68	1.510
February ..	4.43	1.95	1.72	.84	2.22	.76	1.05	1.21	1.39	1.38	1.695
March	1.86	1.86	.72	1.06	.94	1.55	1.06	.80	2.41	4.96	1.722
April	1.33	.88	1.38	1.93	1.42	2.35	.61	1.73	2.69	2.73	1.705
May	1.07	2.39	2.81	2.23	2.93	.55	6.34	5.35	1.78	1.81	2.726
June	3.80	1.31	2.40	2.79	2.04	.65	1.63	2.29	.90	2.33	2.014
July	2.07	2.23	2.21	5.03	1.02	1.58	.88	1.56	2.84	2.45	2.187
August	6.52	2.35	1.90	1.81	2.89	2.65	3.30	2.84	1.31	3.32	2.889
September..	.80	1.22	.75	2.87	.90	1.68	.44	.87	1.69	1.90	1.312
October	7.15	3.20	2.03	7.72	.82	4.20	4.97	4.36	1.26	3.07	3.878
November ..	2.58	5.73	1.13	2.81	2.89	4.29	2.61	1.49	1.24	1.00	2.577
December ..	1.97	4.94	2.87	1.77	2.01	.14	2.64	3.12	1.42	3.90	2.478
TOTALS ..	36.75	29.55	20.80	33.49	21.87	20.63	27.95	26.11	20.25	29.53	26.693 484

St
Holy Saverni Church 833 yards N W E W
Office 12' 8" high 8' 4" N W
Tyne-mouth Station 600 yards W

Hills

RAINFALL at Tynemouth Tyn Piers WorksCounty of NorthumberlandObserver W. G. Gedge Esq C.E.River Basin Tyne, Lower 3per Am Lottian (11)
R. F. Hindmarsh Esq (1916)

Rain Gauge, by _____

Diameter ...	5										
Height	1.8										
Altitude ...	65 ft										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1910-1919 MEANS. Totals
January ...	3.03	1.65	2.43	4.17	1.91	2.43	.92	3.27	2.79	2.75	9.73
February ...	2.15	.93	2.32	.66	.82	2.49	2.46	.98	1.23	2.02	6.69
March .....	.61	2.10	2.29	2.17	2.57	2.62	3.10	2.35	.97	1.92	8.34
April	1.83	1.66	.18	2.55	.68	.69	1.51	3.18	1.42	1.23	7.34
May	2.76	1.28	3.10	2.94	1.46	2.19	2.48	2.13	2.36	.89	7.86
June	1.30	5.10	5.41	1.49	3.51	.48	2.86	1.10	.73	.33	5.02
July	2.20	.80	4.45	.62	4.03	2.44	3.41	1.19	3.85	1.36	9.81
August	2.80	2.84	4.99	1.02	2.12	2.40	2.71	6.46	1.13	2.15	12.45
September ..	.97	3.75	1.99	4.20	2.07	1.91	1.56	1.40	5.23	1.92	9.11
October ...	3.48	2.12	3.90	2.05	1.51	1.86	2.75	2.84	2.36	4.63	12.58
November ..	3.63	4.59	1.77	1.81	3.22	2.23	3.32	1.36	.89	5.45	9.02
December ...	2.11	2.91	1.38	1.32	3.39	6.12	3.96	2.44	3.13	2.91	12.44
TOTALS ...	26.87	29.73	34.21	25.00	27.29	27.86	31.04	28.70	26.09	24.56	110.39

Date.	Lat. N.	Long. W	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911	56.0	1.25	Tynemouth	375 yds	WNW	St Saviour's	533 yds	NW 5 W

RAINFALL at Gynemouth Gynel-Pind Works (NORTH)County of NorthumberlandObserver R. F. Hindmarsh Esq. C.E.
(F. Colward, C.E.)River Basin Gynel Lower 3M.O. Rain Gauge, by

Diameter ...	5"								5"			
Height	1.8								1' 0"			
Altitude ...	65								5414'			
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930-30 MEANS.	1920-30 Totals
January ...	2.58	4.41	1.99	1.55	1.64	1.31	1.99	1.31	2.29	2.43	2.71	24.21
February ...	.79	.16	2.07	3.90	1.17	2.61	2.12	.88	.87	.71	1.02	16.30
March	2.91	.69	1.70	1.98	.83	1.74	.88	1.18	1.62	.52	1.72	15.77
April	3.88	.99	1.67	2.35	1.29	2.19	.95	1.63	1.96	1.07	1.54	18.52
May	3.99	1.56	1.29	3.02	6.33	2.15	1.71	1.56	1.08	.52	1.08	24.31
June .....	.80	.70	1.64	1.29	2.14	.12	2.99	3.99	3.26	1.41	1.25	19.59
July	4.13	1.85	5.20	2.68	4.25	1.93	5.46	3.93	1.45	2.49	3.79	37.16
August	2.34	6.17	3.79	5.18	2.80	2.67	1.92	4.50	3.20	2.63	3.48	38.68
September...	1.39	.91	4.70	1.39	2.44	2.92	2.05	3.39	1.01	.87	2.60	23.67
October	2.20	2.32	1.78	1.75	3.42	1.45	2.25	1.83	2.31	2.09	1.91	23.31
November...	1.21	2.46	.88	3.89	1.21	2.29	3.41	3.42	2.24	2.72	3.27	27.00
December...	3.42	1.75	4.13	2.12	1.88	3.66	.66	3.65	1.29	3.00	2.46	28.02
TOTALS...	29.64	23.97	30.22	31.10	29.42	25.04	26.39	31.27	21.58	20.46	26.83	296.54

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
1921 1911	56° 0'	1° 25'	Gynemouth	600 375 yds	NNW WNW	St. Lawrence	338 yds	NW by W

RAINFALL at Tynemouth (Tyne Pier Works)County of NorthumberlandObserver R. F. Hindmarsh, Esq., C.E.River Basin Tyne-Lower 3Tyne Improvement Commission (1940)Type of Gauge M.O.Annual Average 35.1 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. S

8/3307/27

Diameter	5.											
Height	1.0.											
Altitude	54.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means 1931-40	
January	2.07	.80	1.57	1.46	2.47	3.16	1.94	1.91	3.30	1.49	1987	
February	1.06	.90	2.34	.58	2.00	2.24	2.65	.77	.78	1.46	1478	
March	1.11	2.51	1.01	2.39	.69	1.69	3.05	.20	1.84	1.96	1645	
April	2.70	1.19	1.05	3.81	2.43	.87	2.47	.14	.61	0.98	1625	
May	2.36	3.76	1.17	1.06	1.01	1.57	3.19	2.99	1.04	1.13	1928	
June	2.62	.87	2.17	1.76	2.51	2.56	2.24	2.52	1.71	0.75	1971	
July	4.55	2.43	1.94	2.31	.44	3.16	3.35	2.43	2.60	6.33	2949	
August	3.97	2.34	1.42	3.05	1.65	2.95	1.30	1.82	2.44	0.84	2178	
September	2.86	2.00	1.77	1.25	3.45	3.31	1.17	1.67	1.56	1.46	2050	
October	1.18	3.34	3.63	3.53	3.65	1.39	1.76	3.11	4.99	2.61	2919	
November	2.19	.81	4.03	2.48	2.99	2.61	1.33	1.87	2.51	3.05	2387	
December	1.30	.52	1.33	3.27	2.02	1.16	5.18	2.93	1.52	2.47	2170	
TOTALS	27.97	21.17	23.43	26.95	25.31	26.67	29.63	22.41	24.80	24.53	25287	1/3
	d	d	d	d	d	d	d	d	d	d		

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
1931.			Tynemouth L.N.E.R.	600 yds	W.N.W.	St. Lawrence	583 yds	N.W.W.

Station No. 3567

RAINFALL at Tyne-mouth (Tyne Pier Works)

41

County of Northumberland Observer Tyne Improvement Commission

River Basin Tyne-Lower-3

Type of Gauge M.O. Snowdon 1950

Annual Average 25.1 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. S

File No. 813307/27

Diameter	5"										
Height	1' 0"										
Altitude	54'										
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.95	3.48	2.69	4.8	3.93	1.10	1.46	7.26	6.4	1.77	25.76
February	5.85	1.29	.52	1.80	1.36	.49	2.04	1.31	.52	3.12	18.30
March	2.17	.84	.58	.53	.25	1.21	3.89	4.7	1.04	.73	11.71
April	.62	.66	.66	2.13	1.63	1.35	2.40	1.24	1.38	1.62	13.69
May	1.32	1.00	2.10	1.62	3.09	1.49	2.24	1.43	.67	1.48	16.44
June	.54	1.04	1.79	1.60	1.66	1.92	1.90	2.57	.93	1.37	15.12
July	1.20	2.59	1.75	3.72	2.02	3.25	3.57	1.78	1.48	3.57	24.93
August	2.59	2.27	3.84	1.83	4.28	3.33	.12	5.36	1.56	5.20	30.38
September	.57	2.74	3.25	6.41	1.93	3.29	1.56	2.40	.39	2.90	25.44
October	3.92	2.25	2.14	2.03	2.93	.91	.37	1.73	2.24	.96	19.48
November	2.54	.71	2.69	4.71	1.00	3.21	2.40	1.28	2.19	4.80	25.53
December	.26	1.96	1.11	1.41	1.34	3.26	2.00	1.56	2.13	3.53	18.86
TOTALS	24.53	20.83	23.12	28.27	25.42	24.81	23.95	28.19	15.17	31.35	24.564

1941 Feb. 19th corrected for snow.

1946 Sta. house 10° 12' N. House 17° 6' 63' S.

214.27

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.
1941			Tynemouth	600 yds	N.N.W	Holy Saviour	883 yds	N.W by W.

BRITISH RAINFALL ORGANIZATION

Station No. 3567RAINFALL at Tynemouth (Tyne Pier Works)

51

County of NorthumberlandObserver Tyne Improvement CommissionRiver Basin Tyne Lower-3Type of Gauge SnowdonAnnual Average 25.8 in. based on 35 years obs. in-weighted. Period of average 1881-1915 Ref. 525.87 " " " " " 1916-1950File No. 8.13307/27 P

Diameter ...	5"			019	839							
Height ...	1' 0"				1							
Altitude ...	54'				51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	
January ...	1.59	2.12	1.13	2.83	2.11	3.48	1.45	1.59	2.43	4.79	23.82	
February ...	1.85	.70	1.48	1.97	1.98	1.86	1.78	3.32	.45	1.97	17.36	
March ...	3.47	1.30	.03	.98	1.98	.56	1.12	2.86	.55	1.50	14.35	
April ...	1.66	1.52	2.01	.35	.93	1.10	.55	1.93	1.43	0.62	12.10	
May ...	3.17	2.00	2.43	2.65	1.35	1.43	1.59	2.52	.35	2.00	18.49	
June ...	1.79	2.32	2.07	2.03	2.43	2.34	2.07	1.78	2.14	0.47	19.44	
July ...	1.38	.74	2.50	1.45	.82	2.72	2.73	2.89	1.91	3.22	20.96	
August ...	4.52	2.03	4.75	5.00	.94	6.33	3.68	3.42	.75	3.62	35.04	
September ...	1.01	3.21	1.10	2.48	.92	2.18	3.75	1.70	.65	1.94	18.94	
October ...	1.07	2.15	1.25	3.84	1.96	1.79	1.74	1.01	1.42	5.34	21.57	
November ...	4.87	3.68	1.09	2.97	1.32	1.02	.93	.84	2.57	2.40	21.69	
December ...	2.17	3.07	.89	1.53	2.89	2.04	1.42	3.10	2.78	1.81	21.70	
TOTALS ...	28.55	24.84	20.73	28.08	19.63	26.15	22.81	26.76	17.43	29.68	244.86	10

In 1977 Mr Mayers, B. badly damaged prior to inspection. To be replaced. Rather open to N. Grass should be kept short for 4' round g. and beyond that should be kept at 6"-9".

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference N7(h5)373677

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge.
1951			Tynemouth	600 yd	WNW	Holy Saviours	823 yd NW of S.

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 1870	✓	✓	✓	✓	
	✓ but - 14	✓	✓ but d 31, 40	✓ but d 48-50	