

RAINFALL AT *Cladon Lumping Station.*

Lat. _____

Lon. _____

County of _____

Durham

Rain Gauge, by _____

Observer *Alfred. B. E. Blackburn*

Eog

R. B. Type 3

Diameter											8	
Height											1.0	
Altitude											2167	
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January									1.15	2.47		
February ....									.83	.73		
March									1.27	2.20		
April									2.48	2.26		
May									2.15	3.28		
June									2.20	2.71		
July .....									.82	1.75		
August									2.01	1.06		
September....									.84	2.42		
October									3.61	2.36		
November....									2.55	1.56		
December									1.11	2.74		
TOTALS									21.52	26.54		

All Saints Church Cladon 3/4 mile S. S. W.

RAINFALL AT *Bleadon Pumping Station*

Lat.

Lon.

County of *Durham*

Rain Gauge, by

Observer *A. B. E. Blackburn Esq*

Type, lower - 3.

Diameter ..	<i>8</i>										
Height	<i>1.0</i>										
Altitude ..	<i>216</i>										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	<i>2.66</i>	<i>1.43</i>	<i>.72</i>	<i>2.51</i>	<i>1.80</i>	<i>.18</i>	<i>2.45</i>	<i>.41</i>	<i>1.26</i>	<i>.47</i>	<i>1.389</i>
February ..	<i>4.57</i>	<i>1.77</i>	<i>1.23</i>	<i>.74</i>	<i>2.24</i>	<i>.61</i>	<i>1.10</i>	<i>.90</i>	<i>1.07</i>	<i>1.36</i>	<i>1.559</i>
March	<i>2.06</i>	<i>1.54</i>	<i>.65</i>	<i>.88</i>	<i>1.08</i>	<i>1.53</i>	<i>.96</i>	<i>.66</i>	<i>2.26</i>	<i>4.60</i>	<i>1.622</i>
April	<i>1.16</i>	<i>.84</i>	<i>1.41</i>	<i>1.84</i>	<i>1.00</i>	<i>2.28</i>	<i>.57</i>	<i>1.63</i>	<i>2.70</i>	<i>2.51</i>	<i>1.594</i>
May	<i>1.19</i>	<i>2.21</i>	<i>2.65</i>	<i>2.12</i>	<i>2.59</i>	<i>.48</i>	<i>5.70</i>	<i>4.16</i>	<i>1.50</i>	<i>1.76</i>	<i>2.436</i>
June	<i>3.95</i>	<i>1.35</i>	<i>2.38</i>	<i>2.82</i>	<i>1.85</i>	<i>.60</i>	<i>1.22</i>	<i>2.36</i>	<i>.48</i>	<i>2.48</i>	<i>1.949</i>
July	<i>2.56</i>	<i>2.83</i>	<i>2.19</i>	<i>4.73</i>	<i>1.40</i>	<i>1.71</i>	<i>.87</i>	<i>1.10</i>	<i>2.62</i>	<i>2.65</i>	<i>2.266</i>
August	<i>6.19</i>	<i>1.87</i>	<i>1.64</i>	<i>2.11</i>	<i>3.39</i>	<i>2.46</i>	<i>2.93</i>	<i>2.63</i>	<i>1.29</i>	<i>3.14</i>	<i>2.765</i>
September..	<i>.73</i>	<i>1.20</i>	<i>.67</i>	<i>3.02</i>	<i>.90</i>	<i>1.75</i>	<i>.58</i>	<i>.48</i>	<i>1.58</i>	<i>1.78</i>	<i>1.269</i>
October....	<i>6.77</i>	<i>1.90</i>	<i>2.08</i>	<i>7.51</i>	<i>.62</i>	<i>3.65</i>	<i>4.69</i>	<i>3.42</i>	<i>1.20</i>	<i>2.64</i>	<i>3.448</i>
November..	<i>2.65</i>	<i>5.03</i>	<i>1.17</i>	<i>2.43</i>	<i>2.74</i>	<i>4.17</i>	<i>2.51</i>	<i>1.40</i>	<i>1.21</i>	<i>1.20</i>	<i>2.451</i>
December..	<i>2.01</i>	<i>3.30</i>	<i>2.72</i>	<i>1.59</i>	<i>1.62</i>	<i>.25</i>	<i>1.54</i>	<i>2.75</i>	<i>1.43</i>	<i>3.24</i>	<i>2.045</i>
TOTALS ..	<i>36.50</i>	<i>25.27</i>	<i>19.51</i>	<i>32.30</i>	<i>21.23</i>	<i>19.67</i>	<i>25.12</i>	<i>21.90</i>	<i>18.60</i>	<i>27.83</i>	<i>24.793</i>

1900 all saints Church 3/4 mile S.S.W

Iron Railing 3'5" high 15 ft NE

1903 East Boldon Station 2 miles NE SW

H.W.

RAINFALL at Sunderland Gleason Pumping StationCounty of DurhamObserver A. E. BlackburnRiver Basin Tyne Lower 3

Rain Gauge, by _____

Diameter ...	8										
Height	1 0										
Altitude ...	216 *										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1916-19 MEANS. Totals
January ...	2.09	1.27	2.37	4.02	1.70	2.79	.58	2.74	2.26	2.80	8.38
February ...	2.19	.77	2.46	.67	.83	2.78	1.94	.87	.95	2.19	5.95
March .....	.67	1.97	1.58	2.16	2.06	2.15	3.10	2.37	1.10	2.14	8.71
April	1.36	1.51	.17	2.93	.51	.51	1.27	2.49	1.30	1.51	6.57
May	2.68	1.08	2.09	2.98	1.34	1.76	2.12	2.61	1.80	.73	7.26
June	1.44	4.39	4.69	1.22	3.24	.44	1.53	.70	.47	.90	3.60
July	1.69	.71	4.07	.58	3.01	2.86	2.86	1.02	3.67	1.45	9.00
August	2.40	2.40	4.21	.69	1.89	2.80	3.22	5.93	.98	2.13	12.26
September ..	.81	2.09	1.75	2.86	1.94	1.69	1.44	1.16	4.87	.75	8.22
October ...	2.59	2.48	3.70	1.61	1.69	1.49	2.58	2.22	1.93	4.72	11.45
November ...	2.93	3.52	1.67	1.31	2.78	1.45	3.10	1.07	.83	3.57	8.87
December ...	1.93	3.01	1.41	1.03	3.07	5.88	3.20	2.02	3.06	2.91	11.25
TOTALS ...	22.78	25.20	30.17	22.06	24.06	26.60	27.00	25.20	23.22	26.10	101.52

1912 Iron Raining 3' 6" high 15 ft NE

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911			E. Boldon	2 mi	SW.	all saints	4 mi	SSW.
1918	54.57.58	1.23.45W						

RAINFALL at Sunderland Gleadon Pumping StationCounty of DurhamObserver A. B. E. Blackburn Esq. C.E.River Basin Wye - Lower 3Sunderland & Districts, W.C.

Sunderland Rain Gauge, by
yard and correct
measuring correct
18.16.

Diameter ...	8											
Height	1. 0											
Altitude ...	216											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEAN	1920-30 Totals
January ...	2.27	3.53	2.28	.95	1.77	1.44	2.00	0.96	1.97	2.70	3.22	23.09
February ...	.75	.09	1.94	3.42	1.34	2.56	2.23	0.73	.86	.78	1.82	16.02
March	2.61	.60	1.25	1.55	.86	1.82	.58	1.38	1.94	.27	1.83	14.69
April	2.81	.92	1.67	1.85	1.34	2.19	.86	1.45	1.06	1.27	1.42	16.85
May	3.36	1.87	1.23	1.87	6.53	2.41	1.68	1.75	1.30	.74	1.16	23.90
June .....	.69	.74	1.54	.87	2.41	.20	2.76	3.65	4.34	1.51	1.59	20.30
July	3.36	1.56	4.07	1.74	4.65	1.96	2.82	4.65	1.91	2.32	3.91	32.85
August	1.74	4.91	2.27	3.45	2.19	2.15	1.82	5.69	2.44	3.14	3.55	34.35
September...	1.46	.75	3.85	1.36	2.21	3.29	1.93	3.50	.97	1.00	2.73	23.05
October	2.31	1.87	1.46	1.70	3.07	1.71	2.75	1.70	2.59	1.99	1.62	22.80
November...	.84	2.39	.66	3.59	1.12	2.19	3.56	2.89	2.16	2.82	3.18	25.40
December...	3.31	1.31	3.44	2.13	1.78	3.43	.54	4.21	1.16	3.12	2.34	26.77
TOTALS...	25.51	20.53	25.66	24.48	29.27	26.35	23.53	32.49	22.70	21.66	27.87	280.07

1920 Iron Railing 3'6" high 15 ft. N.E.

Inspected 98. 8.18.16. S. in open space surrounded by trees at a distance, 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. W.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1920	54° 57' 53"	1° 23' 45"	E. Boldon	2 mi	SW	All Saints	3/4 mi	SSW

RAINFALL at Sunderland (Cleaton Pump Stn.)County of DurhamObserver A. B. E. Blackburn, Esq., C.E.River Basin Tyne-Lower - 3Type of Gauge SnowdonAnnual Average 24.4 in. based on 33 years obs. un-weighted. Period of average 1881-1915 Ref. S
686271/26.

Diameter	8.										
Height	1.0.										
Altitude	216.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1931-40 Means Totals
January	2.08	.56	1.58	1.35	2.60	3.28	2.60	2.04	3.56	1.73	2138
February	1.01	.95	2.11	.35	1.92	2.55	2.83	.71	.67	1.86	1496
March	1.32	2.60	1.13	2.47	.64	1.81	3.18	.14	1.75	1.84	1688
April	2.55	.83	1.09	3.62	2.47	.88	2.45	.11	.59	12.7	1586
May	2.59	4.05	1.24	.86	.97	1.69	2.82	3.09	.98	1.33	1962
June	2.81	1.02	1.88	1.78	2.26	2.66	1.97	2.27	1.53	.74	1892
July	4.59	3.00	1.61	1.75	.40	2.27	3.66	2.66	2.38	6.45	2887
August	3.91	2.18	1.27	3.18	1.88	2.91	1.47	1.81	2.22	1.18	2171
September	3.12	1.84	1.34	1.25	3.91	2.76	1.33	1.82	1.20	1.65	2022
October	1.04	2.97	3.17	3.59	3.05	1.17	1.90	3.22	4.94	2.98	2803
November	2.05	.73	3.88	2.43	3.08	3.09	1.66	2.13	2.52	3.24	2481
December	1.08	.51	1.51	3.70	2.36	1.34	5.68	3.20	1.28	2.06	2272
TOTALS	28.15	21.24	21.81	26.33	25.54	26.51	31.55	22.90	23.62	26.33	25398

1931. Low sailing 3'6" high 15' N.E.

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.			East Boldon	2m	S.W.	All Saints	3/4 m.	S.S.W.

Station No. T.F. 3556RAINFALL at Sunderland (Gleadow Pump Sta.)

41

County of DurhamObserver A.B.S. Blackburn Esq. C.E.River Basin Tyne Lower-3P.C.M. Lister Esq. C.E.Type of Gauge SnowdonAnnual Average 24.4 in. based on 29 years obs. unweighted. Period of average 1881-1915 Ref SFile No. 686271/26

Diameter	8"											
Height	1'0"											
Altitude	216'											
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	
January	3.33	3.36	2.63	5.53	4.02	1.12	1.49	7.44	5.6	1.66	26.14	
February	5.66	1.76	.40	1.53	1.36	.40	2.41	1.10	.42	2.85	17.95	
March	2.36	.49	.54	.56	.24	1.00	3.72	.59	1.13	.52	11.15	
April	.72	.76	.53	2.00	1.06	1.62	2.28	1.18	1.44	1.34	12.93	
May	1.53	1.11	2.27	1.65	2.72	1.74	3.05	1.41	.47	1.58	17.53	
June	.87	1.11	1.28	1.78	1.78	2.95	1.78	3.05	.98	1.31	16.39	
July	.97	2.52	1.98	2.85	1.79	3.15	2.91	1.34	1.78	3.61	22.90	
August	2.45	1.87	4.20	2.03	3.23	3.30	.21	4.85	1.44	6.00	29.58	
September	.60	3.02	3.52	6.92	1.58	3.07	1.47	2.31	.38	2.96	25.83	
October	4.03	2.41	1.94	2.52	2.73	.89	.38	1.42	2.44	.85	19.61	
November	3.10	.81	2.29	4.34	.85	3.20	2.21	1.45	2.52	5.42	26.19	
December	.26	1.98	1.00	1.31	1.23	2.72	2.16	1.84	1.94	2.72	17.16	
TOTALS	25.38	21.20	22.58	28.08	22.59	25.16	24.07	27.98	15.50	30.82	243.76	10

1941: Iron Railing 3'6" high 15 N.E.

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			East Boldon	2 miles	S.W.	All Saints	1/2 mile	S.S.W.

BRITISH RAINFALL ORGANIZATION

Station No. 3556 *W 698*RAINFALL at Sunderland (Clendon Pump Station) **51**County of Durham Observer A. G. McEllan, Esq. C.E.River Basin Tyne Lower-3 Sunderland & S. Shields W. Co.Type of Gauge SnowdonAnnual Average 24.4 in. based on 29 years obs. un-weighted. Period of average 1881-1915 Ref. S25-11 " " " 35 " " 1916-19501916-1950 File No. 68.6271/26 F

Diameter ...	8"	0.19	640	4 1/2"							
Height ...	1' 0"		1								
Altitude ...	26'		51								
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means Totals
January ...	1.30	1.71	1.01	2.60	1.95	3.56	1.53	1.45	2.31	4.53	21.95
February ...	1.85	.69	1.92	2.05	2.27	1.78	1.59	3.67	.58	1.76	18.16
March ...	3.44	1.38	.04	1.06	1.68	.85	1.08	3.02	.53	1.56	14.64
April ...	1.25	1.50	2.11	.40	.89	1.18	.52	1.79	1.34	.73	11.71
May ...	3.73	1.94	1.66	2.87	1.66	.59	1.37	2.81	.43	2.16	19.22
June ...	1.65	1.38	1.72	2.35	2.54	2.60	1.74	2.29	2.47	.37	19.14
July ...	1.47	.73	2.36	1.88	.91	2.71	2.86	3.10	1.78	3.31	21.11
August ...	4.46	1.47	3.92	4.64	1.24	6.16	3.02	2.30	.70	3.03	31.00
September ...	.93	3.62	1.02	2.06	1.10	2.05	4.02	1.85	.68	1.90	19.23
October ...	1.03	1.83	1.22	4.17	1.63	1.42	1.53	.89	1.28	5.93	20.93
November ...	5.10	3.20	1.25	3.38	1.69	.76	1.00	.69	2.93	2.35	22.35
December ...	2.16	2.40	.94	1.71	2.93	2.21	1.48	3.29	2.71	1.45	21.28
TOTALS ...	28.40	21.85	19.17	29.17	20.49	25.87	21.74	27.21	17.74	29.08	240.72
	2	D	D	D	D	D	D	D	D	D	10

1951 100 - Railings 3 1/2' 15' N.E.

1953 Gauge moved 200 yds South on account of building alterations on 22/4/53

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference NZ(45)38.7635

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.
1951			E. Boldon	2 mi S.W.	All Saints	3 1/2 mi S.W.
1955			"	1 1/2 mi S.W.	(Clendon)	.69 mi S.W.

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 1998	✓	✓	✓	✓	
✓ but - 10-16	✓	✓	✓	✓	