

RAINFALL AT Bladon Camping Station.

Lat.

Long.

County of

Durham

Rain Gauge, by

Observer Alfred G. E. Blackburne

Dag

Beech Tree 3

Diameter										8
Height										1.0
Altitude										2167
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899
January										1.15 2.47
February83 .73
March										1.27 2.20
April										2.48 2.26
May										2.15 3.28
June										2.20 2.71
July82 1.75
August										2.01 1.06
September										3.42 2.42
October										3.61 2.36
November										2.58 1.56
December										1.11 2.74
TOTALS										21.59 26.54

All Saints Church Bladon $\frac{3}{4}$ mile S. S. W.

RAINFALL AT Cleadon Pumping Station

Lat. Lon. County of Durham

Rain Gauge, by Observer A. E. Blackburn Esq.

Type, lower - 3.

Diameter ..	8										
Height	1.0										
Altitude ..	216										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	2.66	1.43	.72	2.51	1.80	.18	2.45	.41	1.26	.47	1.389
February ..	4.57	1.77	1.23	.74	2.24	.61	1.10	.90	1.07	1.36	1.559
March	2.06	1.54	.65	.88	1.08	1.53	.96	.66	2.26	4.60	1.622
April.....	1.16	.84	1.41	1.84	1.00	2.28	.57	1.63	2.70	2.51	1.594
May	1.19	2.21	2.65	2.12	2.59	.48	5.70	4.16	1.50	1.76	2.436
June	3.95	1.35	2.38	2.82	1.85	.60	1.22	2.36	.48	2.48	1.949
July	2.56	2.83	2.19	4.73	1.40	1.71	.87	1.10	2.62	2.65	2.266
August	6.19	1.87	1.64	2.11	3.39	2.46	2.93	2.63	1.29	3.14	2.765
September..	.73	1.20	.67	3.02	.90	1.75	.58	.48	1.58	1.78	1.269
October....	6.77	1.90	2.08	7.51	.62	3.65	4.69	3.42	1.20	2.64	3.448
November ..	2.65	5.03	1.17	2.43	2.74	4.17	2.51	1.40	1.21	1.20	2.451
December ..	2.01	3.30	2.72	1.59	1.62	.25	1.54	2.75	1.43	3.24	2.045
TOTALS ..	36.50	25.87	19.51	32.30	21.23	19.67	25.12	21.90	18.60	27.83	24.793

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

Iron Railings 3' 5" high 15 ft NE

1903 East Boldon Station 2 miles NE SW

Hull

RAINFALL at Sunderland Fleeton Pumping Station

County of Durham

Observer A.B. E. Blackburnay

River 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. 101-15
January ...	2.09	1.27	2.37	4.02	1.70	2.79	.58	2.74	2.26	1.80	8.38
February ...	2.19	.77	2.46	.67	.43	2.78	1.94	.87	.95	2.19	5.95
March67	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	3.87	8.87
December ...	1.98	3.01	1.41	1.03	3.07	5.88	3.26	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 Railings 3' 6" high 15 ft NE

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911			E. Boldon	2mi	SW.	All Saints	1mi	SSW.
1918	54° 57' S	1.23° 45' W						

RAINFALL at Sunderland Glardon Pumping Station

County of Durham

Observer A. B. E. Blackburn Esq. G.B.

River Basin Tyne - Lower 3

Sunderland & District Co.

Snowdon Rain Gauge, by
group sound + correct } IX. 16.
height correct }
gauge correct }

Diameter ...	9									1930.	1920-30 Totals
Height	1. 0										
Altitude ...	216										
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	
January ...	2.27	3.53	2.28	.95	1.77	1.44	2.00	.96	1.97	2.70	3.22 23.09
February75	.09	1.94	3.42	1.34	2.56	2.23	.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	.93	1.67	1.85	1.34	2.19	.86	1.45	1.96	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
June69	.74	1.54	.87	2.41	.20	2.76	3.65	4.34	1.51	1.89 20.30
July	3.36	1.56	4.07	1.74	4.65	1.96	2.82	4.55	1.91	2.32	3.91 32.85
August	1.74	4.91	2.27	3.45	2.19	3.15	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	2.78 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 26.40
December...	3.31	1.31	3.44	2.13	1.78	3.43	.54	4.21	1.16	2.12	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 Railings 3' 6" high 10° 45' N.E.

Inspected 98. 8. IX. 16. L. 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	Parish Church.	Distance from gauge
1920	52° 57' 58" N	1° 23' 45" W	E Boldon	2 mi SW	All Saints	3/4 mi SSW

RAINFALL at Sunderland (Cleadon Pump Stn.)

County of Durham

Observer A. B. E. Blackburn, Esq., C.E.

River Basin Tyne Lower - 3

Type of Gauge Standard

Annual Average 24.4 in. based on 22 years obs. un-weighted. Period of average 1891-1915 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 Total
January	2.08	.56	1.58	1.35	2.60	3.28	2.60	2.04	3.56	1.73	21.38
February	1.01	.96	2.11	1.35	1.92	2.55	2.83	.71	.67	1.86	14.96
March	1.32	2.60	1.13	2.47	.64	1.81	3.18	.14	1.75	1.84	16.88
April	2.55	.83	1.09	3.62	2.47	.88	2.45	.11	.59	1.24	15.86
May	2.59	4.05	1.24	.86	.97	1.69	2.82	3.09	.98	1.33	19.62
June	2.81	1.02	1.88	1.78	2.26	2.66	1.97	2.27	1.53	.74	18.92
July	4.59	3.00	1.61	1.75	.40	2.37	3.66	2.66	2.38	6.45	28.87
August	3.91	2.18	1.27	3.18	1.88	2.91	1.47	1.51	2.22	1.18	21.71
September	3.12	1.84	1.34	1.25	3.91	2.76	1.33	1.82	1.20	1.65	20.22
October	1.04	2.97	3.17	3.59	3.05	1.17	1.90	3.22	4.94	2.98	28.03
November	2.05	.73	3.88	2.43	3.08	3.09	1.66	2.13	2.52	3.24	24.81
December	1.08	.51	1.51	3.70	2.36	1.34	5.68	3.20	1.28	2.06	22.72
TOTALS	28.15	21.24	21.81	26.33	25.54	26.51	31.55	22.90	23.62	26.33	253.98

1931. Iron railing 3' 6" high 15' N.E.

V/G

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	Parish Church.	Distance from gauge	Direction
1931.			East Boldon	2 m	S.W.	All Saints	3/4 m	S.S.W.

BRITISH RAINFALL ORGANIZATION, EXHIBITION ROAD, LONDON, S.W.7.

Station No. T.F. 3556

RAINFALL at Sunderland (Blaydon Pump Sta.).

41

County of Durham

Observer A.B.B. Blackburn Esq. C.E.

(not in use)

River Basin Tyne Lower - 3

A.G. McLELLAN Esq. C.E.

Type of Gauge Standard.

Annual Average 24.4 in. based on 29 years obs. unweighted. Period of average 1881-1915 Ref. S.

File No. 686271/26

Diameter	8"		019	640							
Height	10'			1							
Altitude	216'			41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1941-50 Means 101.410
January	3.33	3.36	2.63	.53	4.02	1.12	1.49	7.44	.56	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	.11	2.27	1.65	2.72	1.74	3.05	1.41	.47	1.58	17.53
June	.37	.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	26.83
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	27.88	15.50	30.82	243.36
	D	D	D	D	D	D	D	D	D	D	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
1941			East Boldon	2 miles	S.W.	All Saints	Finsdale S.S.W.

Station No. 3556

T.F. 698

RAINFALL at Sunderland (Sleddon Pumping Sta.)

51

County of Durham

Observer G. G. McLellan, Esq. C.E.

River Basin Tyne Lower - 3

Sunderland & S. Shields W. Co.

Type of Gauge Snowdon

Annual Average 24.45 in. based on 29 years obs. un-weighted. Period of average 1891-1915 Ref. S
 25-11 " " 35 " 1916-1950 1916-1950 P
 File No. 686271/26

Diameter ...	8"	019	640	4½"							
Height ...	1' 0"		1								
Altitude ...	26'		51								
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
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	1.69	1.92	2.05	2.27	1.78	1.59	3.67	1.58	1.76	18.16
March	3.44	1.38	1.04	1.06	1.68	1.85	1.08	3.02	1.53	1.56	14.64
April	1.25	1.50	2.11	1.40	1.89	1.18	1.52	1.79	1.34	.73	11.71
May	3.73	1.94	1.66	2.87	1.66	1.59	1.37	2.81	1.43	2.16	19.22
June	1.68	1.38	1.72	2.35	2.54	2.60	1.74	2.29	2.47	.37	19.14
July	1.47	1.73	2.36	1.88	1.91	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	2.36	1.70	3.03	31.00
September	1.93	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	2.10	3.20	1.25	3.38	1.69	1.76	1.00	.69	2.93	2.35	22.35
December	2.16	2.40	1.94	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 Iron Railings 3½° 15' N.E.

1953 Gauge moved 200 yds south on account of building operations on 22/4/53

Position of Station on Ordnance One-Inch map : No. of Map National Grid Reference NZ(45)387635

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge.
1950			E. Boldon	2 mi	SW	All Saints	3½ mi SW
1955			"	1.535 mi.	SW.	(Cleaton)	.691 mi. SW.

Summary of Earlier Records from 10-year Sheets :

1916-1950, P - accepted

Record D, or d	C 1908	1910-19	1920-30	1931-40	1941-50	1951-60
		✓	✓	✓	✓	✓
	✓ but - 10-16	✓	✓	✓	✓	