

RAINFALL AT Dalton-le-Dale Pumping Station

Lat.

Long.

County of

Durham

See 1.

Rain Gauge, by

Observer Alfred. B. S. Blackburn Esq

Diameter										8	
Height										1-0	
Altitude										345 ft	
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January										1-10 2-94	
February86 1-04	
March										1-32 1-77	
April										2-37 2-22	
May										2-27 3-99	
June										2-26 1-94	
July68 2-16	
August										1-88 .98	
September63 2-40	
October										3-97 3-14	
November										3-06 1-61	
December										1-32 3-01	
TOTALS										21-73 27-51	

Andrews Church, Dalton-le-Dale $\frac{5}{8}$ mile N.

RAINFALL AT Dalton-le-Dale Pumping Station

Lat.

Lon.

County of Durham

Rain Gauge, by

Observer A.B.E. Blackburn Esq.

2ees &c - 1.

Diameter ..	8										
Height ..	1	0									
Altitude ..	345										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	2.95	1.51	.65	2.34	2.07	.20	2.51	.44	.95	.67	1429
February ..	5.14	1.96	1.22	99	2.34	.58	1.15	1.17	1.09	1.44	1708
March	1.95	1.94	.69	1.49	1.21	1.27	.92	.72	2.79	4.31	1729
April.....	.76	1.27	1.64	1.57	.94	3.00	.99	2.01	2.41	2.43	1702
May	1.34	2.29	2.33	3.02	3.06	.77	5.62	4.58	1.31	1.65	2597
June	3.33	1.58	2.48	3.03	1.37	.68	.85	2.94	.42	2.85	1903
July	2.22	1.87	2.46	4.29	1.81	1.67	.79	1.36	2.50	2.87	2184
August	5.35	2.21	1.65	2.54	3.42	2.67	1.94	1.76	1.44	3.35	2633
September ..	.57	1.19	.94	2.51	.88	2.09	.37	.26	1.77	2.21	1279
October....	7.17	1.73	2.22	8.38	.56	2.66	4.62	4.32	.78	2.09	3473
November ..	2.78	4.46	1.25	2.33	2.22	5.26	2.90	1.59	1.61	1.07	2547
December ..	2.38	2.86	2.72	1.62	2.09	.42	1.73	2.89	.91	3.70	2132
TOTALS ..	35.94	24.87	20.25	34.11	21.97	21.27	24.39	24.04	18.18	28.14	25816 45

1900 St Andrews Church 5/8 mile N

Trees 15 ft high 63 ft N

Dalton-le-Dale

1905 Merton Station 2 miles W

10 3538

RAINFALL at Seaham Dalton Pumping StationCounty of DurhamObserver A.B.C. Blackburn Esq.River Basin Tees + C

Rain Gauge, by _____

Diameter ...	8											
Height	1.0											
Altitude ...	345 ft											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	Total
January ...	2.14	1.58	2.57	3.41	1.59	2.56	.83	3.35	2.20	2.15	9.23	
February ...	2.21	1.25	1.99	.68	1.07	2.93	2.88	.85	1.32	1.98	6.43	
March	59	2.03	1.82	2.41	1.85	1.63	3.38	2.37	1.28	2.99	10.02	
April	2.02	1.31	.11	3.09	.56	.65	1.46	1.98	1.49	1.61	6.54	
May	2.46	.55	2.97	2.52	1.60	1.73	2.12	2.99	1.87	.96	7.94	
June.....	2.07	4.34	5.46	1.08	3.79	.52	3.20	.79	.34	1.16	5.49	
July	2.43	.96	4.18	.71	3.40	3.05	2.88	1.02	3.88	1.10	8.88	
August.....	2.84	2.32	4.59	1.40	2.22	2.23	2.48	6.00	1.37	2.88	12.13	
September ..	.61	2.06	1.92	3.55	1.78	2.26	2.15	1.49	5.08	1.30	10.02	
October ...	2.70	2.58	3.33	2.46	2.01	1.60	2.98	2.56	3.08	5.95	14.57	
November ..	2.71	4.14	2.09	1.40	4.10	1.91	2.85	1.50	.99	4.16	9.50	
December ...	2.09	3.19	1.34	1.53	3.18	7.00	3.11	2.84	3.08	3.84	12.07	
TOTALS ...	24.87	26.31	32.37	24.24	27.15	28.07	29.72	27.74	25.98	29.38	112.82	

1912 Trees 15 ft high 63 ft N

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911			Murton	2 mi	W	St Andrews	5/8 mi	N.
1918.	54°49'.00	1°21'37".W						
	1°21'37".							

RAINFALL at Seaburn Dalton Pumping Station

County of Durham

Observer A. B. E. Blackburn Esq CE

River Basin Yees & C 1

Sunderland & S. D. Field Water Co.

Snowdon Rain Gauge, by
measure flat bottom - correct }
gauge sound & correct } IX. 26.

1920 Yucca 15 ft high 63-11-2

Inspected of 8. 8. 18. 26. S. on grass with reservoir (small) to S. W.
+ small plantation to N. Good shelter by slightly rising land to E + S.
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	Parish Church.	Distance from gauge	Direction
1920	52° 49' 00"	1° 21' 37"	Merton	2 mi	W	St Andrews	5/8 mi	N

RAINFALL at Seaham (Dalton Pumping Sta.)

County of Durham

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

River Basin Tees & C. - 1.

Type of Gauge Snow-gauge.

Annual Average 27.9 in. based on 29 years obs. un-weighted. Period of average 1881-1915. Ref. S

686271/26

Diameter	8.										
Height	10.										
Altitude	345.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1931-40 Mean Totals
January	2.54	1.10	2.28	1.54	2.37	4.02	2.23	1.86	4.11	1.42	23.67
February	1.02	1.04	2.27	1.47	2.46	2.89	2.72	1.09	.79	1.82	16.57
March	.62	3.05	1.42	2.43	.75	1.96	3.57	.22	1.84	1.88	17.74
April	5.11	1.40	.91	3.85	3.15	1.66	2.33	.18	.85	1.34	18.78
May	2.42	5.04	1.67	1.23	.96	2.12	3.23	3.24	1.30	1.40	22.61
June	3.68	1.54	1.71	2.59	3.01	3.01	1.61	2.81	2.37	*86	23.19
July	3.81	2.55	2.07	1.60	.49	3.41	2.39	2.69	2.00	6.30	27.31
August	3.52	2.42	.86	3.50	2.28	2.39	1.18	2.10	3.15	1.45	22.85
September	4.05	2.40	1.89	1.80	6.03	2.72	1.13	2.09	1.51	1.70	25.32
October	1.24	3.88	3.99	2.94	3.81	1.45	2.09	3.23	5.27	3.40	31.30
November	2.26	1.04	3.90	2.47	3.90	2.75	2.02	2.32	2.60	3.73	26.99
December	1.32	.98	1.96	3.93	2.22	1.81	4.43	2.92	1.26	2.53	23.66
TOTALS	29.59	26.44	24.93	28.35	31.43	30.19	29.23	24.75	27.05	27.83	279.79
	D.	V.31									

1931. Deco 15 high 63 N.

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.			Murton	2m	W	St. Andrew	58m	N.

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

Station No. TF 3532

RAINFALL at Seaburn (Dalton Pumping Sta.)

County of Durham

Observer A.B.S. Blackburn Eng. C.E.

River Basin Tees & Co. - 1

A.G. McEwan, Esq., C.E.

Type of Gauge Standard

Annual Average 27.0 in. based on 29 years obs. unweighted. Period of average 1881-1915 Ref. S

File No. 686271/26

41

Diameter	8'	025	861								
Height	10"		1								
Altitude	345'		41								
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1941-50 Means
January	3.13	2.37	2.86	7.9	3.40	1.10	1.37	7.98	1.53	1.57	24.90
February	5.96	1.38	1.45	1.62	1.36	.29	1.25	.98	1.35	3.28	16.92
March	2.30	.71	.89	.74	.46	1.07	3.50	.65	1.06	.68	12.06
April	.97	.97	.84	2.05	1.92	1.59	2.35	1.08	1.45	2.06	15.78
May	1.68	1.44	2.52	2.08	2.69	2.05	2.60	1.49	.63	2.19	19.37
June	.55	1.36	1.46	2.45	1.65	3.47	2.36	3.90	.98	1.12	19.30
July	.53	3.94	2.22	2.74	1.99	4.15	2.80	1.21	1.92	3.72	25.22
August	2.96	1.92	4.60	1.78	3.75	3.70	.41	5.07	1.84	5.60	31.63
September	.67	3.10	3.37	4.87	1.50	3.70	1.85	2.12	.75	3.48	25.41
October	4.29	2.70	1.61	2.43	3.31	1.16	.62	1.75	2.08	1.09	21.54
November	3.21	.78	3.09	4.39	.94	4.40	2.04	1.69	2.92	5.68	28.94
December	.26	2.13	1.27	1.54	1.24	2.85	1.97	2.26	2.79	3.71	20.02
TOTALS	26.51	22.80	25.18	27.48	24.21	29.53	23.12	30.28	17.80	34.18	261.09

1941: Tree 15' high, 63° N.

1941: Feb. count for snow

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	Parish Church.	Distance from gauge
1941			Merton	2 miles	W	St. Andrew	5/8 mile N.

BRITISH RAINFALL ORGANIZATION

Station No. 3532

T.F. 49 A

RAINFALL at Leaham Dalton Pumping Station

51

County of DurhamObserver R. G. McLellan Esq. C.E.River Basin Tees & Co. - 1

Sunderland & S. Shields W.C.

Type of Gauge Sirodon

Annual Average 27.0 in. based on 29 years obs. un-weighted. Period of average 1881-1915 Ref. S.
27.89 - " - 35 - " 1916-1950 File No. 686271/26 P

Diameter ...	8"	0 25	861	5"								
Height ...	1' 0"		1									
Altitude ...	345'		51									
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	Total
January	1.49	2.18	.93	2.68	1.47	3.05	1.43	1.66	2.97	4.82	22.68	
February	2.40	.58	1.42	1.79	2.16	1.35	1.96	3.71	.60	2.35	18.31	
March	3.52	1.42	.05	1.28	1.53	.84	.97	3.56	.68	1.72	15.57	
April	1.18	1.52	2.39	.42	.94	.95	.42	1.48	1.52	.79	11.61	
May	4.52	1.71	2.21	2.24	1.83	.54	1.33	2.80	.47	1.86	19.51	
June	1.58	.92	2.36	2.07	2.67	3.03	2.40	2.57	2.64	.31	20.55	
July	1.43	1.03	3.40	1.93	1.19	2.49	2.88	2.54	1.91	3.70	22.50	
August	4.71	2.02	4.07	4.92	.76	6.73	3.28	2.39	.42	2.01	31.31	
September	.94	4.36	1.51	2.07	1.35	1.98	3.47	1.32	.59	1.85	19.44	
October	1.19	2.61	1.30	3.97	1.23	1.42	1.72	1.26	.95	7.12	22.77	
November	5.23	3.68	1.18	3.56	1.92	.92	1.20	.65	3.10	2.72	24.16	
December	3.08	2.34	.85	1.70	2.73	2.23	1.27	3.20	3.20	2.04	22.64	
TOTALS ...	31.27	24.37	21.67	28.63	19.78	25.53	22.33	27.14	19.05	31.29	251.05	
	D	D	D	D	D	D	D	D	D	D		

1951 Trees 15' (62' N):

713

(18th Average)

Position of Station on Ordnance One-Inch map :			No. of Map	National Grid Reference N.Z. (1:100,000)		
Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Parish Church.	Distance from gauge.
1951			"	2 mi	W.	N.
1955			"	1825 mi	W.	(Benton-le-Side)

Summary of Earlier Records from 10-year Sheets :

1916-1950, P - accepted

Record D, or d	C 1898	1910-19	1920-30	1931-40	1941-50	1951-60
		✓	✓	✓	✓	✓
		✓ but -10-16	✓	✓	✓	