

RAINFALL at Shotton Pumping StationCounty of Durham

Observer

A. J. E. Blackburn Esq.River Basin Tees & C. L.

Rain Gauge, by _____

Diameter ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
Height											1.0
Altitude ...											422
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	
January ...											1.63
February ...											1.36
March											1.32
April											1.14
May											1.36
June											21
July											3.81
August											1.62
September...											3.32
October ...											1.94
November...											52
December...											2.40
TOTALS ...											20.62 NO

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	54° 44' 41"	1° 21' 42" W.	Helpsfield Junction	960yds	S.W.	St James, Castle Eden	1990yds	S.E.

New Winning 1928.

RAINFALL at Shotton Pumping Station

County of Durham

Observer A. B. E. Blackburn Esq.

River Basin Tees & C. I.

Snowdon Rain Gauge, by
 measure funnel sound + correct }
 correct bottom out of outer can. } IX. 26.

Diameter ...	9								8		
Height	1	0							1	0	
Altitude ...	422								402		
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.
January ...	(4.20)	4.32	2.97	1.20	1.90	1.64			3.14	2.85	4.12
February ...	(1.80)	.29	3.80	4.16	1.57	2.64			1.40	1.02	1.89
March	2.62	.77	1.61	1.62	.96	1.73			2.30	.14	2.91
April	4.07	1.12	1.50	2.08	2.03	3.05			.96	1.31	2.08
May	3.63	1.50	1.10	3.30	5.74	3.29			1.30	1.23	1.39
June71	.71	1.46	1.05	2.72	.18			5.18	2.19	1.15
July	6.00	1.80	4.50	1.99	5.12	3.06			1.83	2.41	5.90
August	1.73	3.14	2.73	3.55	2.65	5.13			3.41	2.01	3.98
September...	1.45	.69	4.88	1.48	2.07	3.24			.81	.95	3.71
October.....	2.83	1.86	2.14	2.49	3.89	2.08			3.42	2.34	2.18
November...	.83	2.95	1.04	4.23	1.34	2.38			2.60	2.81	3.86
December...	4.04	1.58	4.36	2.95	2.79	3.65			1.85	2.94	2.10
TOTALS...	(33.61)	22.73	32.09	30.10	32.77	32.07	# Enc 6 ^a .	1456277/122.20	28.20	35.27	
	d	d	d	d	d	d		d	d	d	

1920 Jan. + Feb. from maps.

Inspired of S. 8 IX. 26. Is. in field adjoining pumping station (which is no longer used). Trees at considerable distance to W + S (say 100 - 200 yds) ground rises up slightly to N + E. Excellent exposure.

NEW SITE

1928 Engine Ho 40' high 150°W

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° 44' N	1° 21' 42"	Wyldefield Junction	960 yds	SW	St James Castle Eden	1990 yds	SE
1928			- do -	950 yds	W	Wingate	1m	SW.

RAINFALL at Shotton (New Winning P.S.)

62 6ay 8

County of Durham

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

River Basin Tees & C.-L.

Type of Gauge Standard

Annual Average 29.4 in. based on 7 years obs. un-weighted. Period of average 1881-1915 Ref. S

686271/26

Diameter	8.											Mean Total
Height	1.0.											
Altitude	402.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940		
January	2.01	1.22	2.01	1.36	2.19	4.01	2.83	1.85	4.82	2.28		2458
February	.99	1.10	2.18	.38	3.14	3.58	2.95	1.37	.81	2.45		1895
March	.92	2.61	1.89	2.76	.93	2.14	3.38	.24	2.79	2.06		1972
April	3.14	1.32	.86	3.96	2.56	1.46	2.24	.12	1.44	1.46		1856
May	2.58	4.63	1.65	1.14	.91	2.08	3.04	3.17	1.29	1.09		2158
June	3.60	1.49	1.72	2.24	2.86	3.51	1.27	3.25	2.33	1.15		2242
July	4.92	2.88	1.86	1.99	.98	3.82	2.25	3.08	2.39	5.79		2996
August	2.61	3.06	.46	3.02	1.61	2.06	1.21	1.84	2.24	1.47		1958
September	5.14	2.19	1.52	1.56	5.71	2.02	1.69	2.12	2.03	1.87		2645
October	1.21	3.61	3.64	3.12	4.29	1.60	2.23	3.77	6.62	3.52		3351
November	2.50	.96	4.13	2.79	4.66	3.26	2.53	2.56	3.32	4.09		3080
December	1.02	1.06	1.62	4.64	2.45	1.74	5.04	3.01	1.36	2.99		2493
TOTALS	30.64	26.03	23.54	28.96	32.29	31.88	30.66	26.38	31.44	30.22		29204
	D	D	D	D	D	D	D	D	D	D		116

1931. Engine house 40' high 150' W.

1937 + + + + +

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.			Wellfield Tunc.	250 yds	W.	Wingate	1 m	S.W.

Station No. T.F. 3530

RAINFALL at Shotton (New Winning P.S.)

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County of Durham

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

River Basin Tees C-1

A.G. McLellan Esq C.E. / -ee

Type of Gauge Snowdon

Annual Average 29.4 in. based on 7 years obs. un-weighted. Period of average 1881-1915. Ref. S

File No. 68027/26

Diameter	8"	026	018								
Height	1' 0"			1							
Altitude	402'			41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means T.A.L.O.
January	3.41	2.42	3.54	.91	3.63	1.49	1.67	8.89	.73	2.02	28.71
February	6.33	1.89	.59	1.78	1.56	.36	(2.48)	1.24	.45	3.65	20.33
March	2.23	.74	.79	.69	.34	1.35	4.44	.89	1.04	.91	13.42
April	1.09	1.16	.83	2.36	1.67	2.02	2.98	1.88	1.84	2.10	17.43
May	2.00	1.34	2.55	1.63	2.40	2.34	2.02	1.19	.70	2.27	18.44
June	1.05	1.14	1.58	2.56	2.13	2.27	2.23	3.96	.62	1.15	18.69
July	.57	3.57	2.00	2.07	2.37	4.13	2.05	1.10	2.07	3.24	23.17
August	2.95	1.86	4.91	2.04	3.90	3.72	.21	5.23	2.31	5.19	32.32
September	.61	3.52	3.59	4.93	1.65	4.37	1.72	2.44	.75	3.61	27.19
October	3.77	2.80	1.80	2.81	3.78	1.73	.79	1.60	2.68	1.40	23.16
November	3.35	.74	2.85	4.57	1.17	5.53	1.99	1.54	4.14	6.67	32.55
December	.42	2.16	1.35	1.49	1.38	2.95	1.72	2.23	2.58	2.85	19.13
TOTALS	27.78	23.34	26.38	27.84	25.98	32.26	24.30	51.69	19.91	35.06	274.54

1941: Engine house 40' High 150' W

1941: Feb. barrel for snow

20000

1947 Feb. amended for snow. March part adj.

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			Wellfield Junction	250 yds	W	Wingate	1 mile S.W.

Station No. 3530

T.P. 49A.

RAINFALL at Shotton (New Mining P.S.)

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County of DurhamObserver Mr G. M. McCallan Esq., C.E.
(1957 BR)River Basin Tees & E-1Sunderland & S. Shields W.C.B.Type of Gauge SnowdonAnnual Average 29.4 in. based on 7 years obs. un-weighted. Period of average 1881-1915 Ref. S.
" 29.24 " 33 " 1881-1920-56. " " " File No. 684271/26

Diameter ...	8"	026	018	574								Means
Height ...	1' 0"			1								Total
Altitude ...	402'		51									
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960		
January	1.38	2.49	1.00	2.57	1.84	3.37	1.82	1.63	3.08	4.91	24.09	
February	2.78	1.58	1.78	2.21	2.44	1.97	2.51	4.34	.58	2.89	22.08	
March	4.25	1.74	.09	1.39	1.60	.82	1.18	3.46	.93	2.15	17.61	
April	1.33	1.46	2.57	.36	.84	.89	.42	1.77	1.82	.81	12.27	
May	5.29	1.69	2.17	2.66	1.44	.56	1.48	3.38	.41	1.81	20.89	
June	1.10	.63	2.83	1.73	2.85	3.74	2.02	3.24	1.63	.31	20.08	
July	1.53	.99	2.84	2.15	1.40	3.01	3.67	2.76	1.74	4.68	24.77	
August	5.26	2.37	3.93	5.90	.82	7.37	3.62	2.56	.24	3.00	35.07	
September	1.01	5.47	1.25	1.95	1.22	2.32	3.66	1.61	.99	2.00	21.48	
October	1.66	2.89	1.38	4.55	1.29	1.47	1.79	1.64	1.26	8.77	26.70	
November	5.85	3.59	1.45	4.16	1.99	1.07	1.99	.71	3.68	3.23	21.72	
December	3.33	2.42	.96	2.15	3.11	2.18	1.18	3.82	3.66	2.63	25.44	
TOTALS ...	3477	26.32	22.85	31.78	20.84	28.77	25.34	30.92	20.02	37.19	278.20	10
	D	D	D	D	D	D	D	D	D	D		

1951 Engine House 40°, 150' W:

Position of Station on Ordnance One-Inch map : No. of Map National Grid Reference 45/ 407383

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge
1951			Wellfield	250 yd 133 mi.	W SW.	Wingate	1 mi. 925 mi.
1955			"			"	SW.

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	C. 1918 d. 18.	1920-25, 28-30 d. 20. 21-25, 29-30	✓	✓	✓