

RAINFALL at Shotton Pumping StationCounty of DurhamObserver A. B. E. Blackburn Esq.River Basin Tees & C. 1.

Rain Gauge, by _____

Diameter ...										8		
Height										1.0		
Altitude ...										422		
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	
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.	Kelfield Junction	9607ds	S. W.	St. James, Earlestown	19907ds	S. E.

RAINFALL at Shotton Pumping Station ^{New Winning 1922.}County of DurhamObserver A. B. C. Blackburn Esq.River Basin Leas & C 1

Snowdon Rain Gauge, by
 measure funnel sound + correct
 correct bottom out of outer can. } 18.26.

Diameter ...	9								8		
Height	1 0								1 0		
Altitude ...	422								402		
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEANS.
January ...	(4.20)	4.32	2.97	1.20	1.90	1.64			3.14	2.85	4.12
February ...	(1.50)	.29	3.80	4.16	1.57	2.64			1.40	1.02	1.89
March	2.62	.77	1.61	1.62	.95	1.73			2.30	.14	2.91
April	4.07	1.12	1.50	2.08	2.03	2.05			.96	1.31	2.08
May	3.63	1.50	1.10	3.30	5.74	3.29			1.30	1.23	1.89
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	5.14	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	5.86
December...	4.04	1.58	4.36	2.95	2.79	3.65			1.85	2.94	2.10
TOTALS...	(33.61)	22.73	22.09	30.10	32.77	32.07	#	6.6 ¹	28.20	16.62	35.27
	2	2	2	2	2	2			2	2	2

1920 Jan. & Feb. from maps.

Inspected 9.8.18.26. ls. 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 Hts 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 from gauge	Parish Church.	Distance from gauge	Direction from gauge
1920	52° 44' 41"	1° 21' 42"	Welfield Junction	960 yds	SW	St James Castle Eden	1990 yds	SE
1928			- do -	250 yds	W	Wingate	1 m	SW

RAINFALL at Shotton (New Winning P.s.)County of DurhamObserver A.B.E. Blackburn, Esq., C.E.River Basin Tees & C. - 1Type of Gauge ShottonAnnual Average 29.4 in. based on 7 years obs. un-weighted. Period of average 1881-1915. Ref. S
68627/26

Diameter	8.											
Height	1.0.											
Altitude	402.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	Totals
January	2.01	1.22	2.01	1.36	2.19	4.01	2.83	1.85	4.82	2.28	24.58	
February	.99	1.10	2.18	.38	3.14	2.58	2.95	1.37	.81	2.45	18.95	
March	.92	2.61	1.89	2.76	.93	2.14	3.38	.24	2.79	2.06	19.72	
April	3.14	1.32	.86	3.96	2.56	1.46	2.24	.12	1.44	1.46	18.56	
May	2.58	4.63	1.65	1.14	.91	2.08	3.04	3.17	1.29	1.09	21.58	
June	3.60	1.49	1.72	2.24	2.86	3.51	1.27	3.25	2.33	1.15	22.42	
July	4.92	2.88	1.86	1.99	.98	3.82	2.25	3.08	2.39	5.79	29.96	
August	2.61	2.06	.46	3.02	1.61	2.06	1.21	1.84	2.24	1.47	19.58	
September	5.14	2.19	1.52	1.56	5.71	2.62	1.69	2.12	2.03	1.87	26.45	
October	1.21	3.51	3.64	3.12	4.29	1.60	2.23	3.77	6.62	3.52	33.51	
November	2.50	.96	4.13	2.79	4.66	3.26	2.53	2.56	3.32	4.09	30.80	
December	1.02	1.06	1.62	4.64	2.45	1.74	5.04	3.01	1.36	2.99	24.93	
TOTALS	30.64	26.03	23.54	28.96	32.29	31.83	30.66	26.38	31.44	30.22	292.04	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 from gauge	Parish Church.	Distance from gauge	Direction from gauge
1931.			Wellfield Junc.	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 DurhamObserver A.B.E. Blackburn Esq. C.E.River Basin Fees & C - 1A.G. McLELLAN Esq. C.E.Type of Gauge SnowdonAnnual Average 29.4 in. based on 7 years obs. un-weighted. Period of average 1881-1915 Ref SFile No. 68937/26

Diameter	8"		026	018							
Height	1'0"			1							
Altitude	402'			41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
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	.53	1.78	1.56	.36	(2.48)	1.24	.45	3.65	20.33
March	2.23	.74	.73	.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	3.67	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	3.53	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	31.69	19.91	35.06	274.54

1941: Engine house 40' high 150' W

1941: Feb. corrected for snow

1947 Feb. amended for snow. March part adj.

20004

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

BRITISH RAINFALL ORGANIZATION

Station No.

3530 T.F. 49A.

RAINFALL at *Shotton (New Wharfedale, Y.S.)*

51

County of *Durham*

Observer

*Dr. G. Mc Lellan Esq., C.E.*River Basin *Lee & C-1*

Sunderland & S. Shields W. Co.

(1957 BR.)

Type of Gauge *Snowdon*Annual Average *29.4* in. based on *7* years obs. *un*-weighted. Period of average *1881-1915* Ref. *S.*" " *29.24* " " *33* " " *within 1920-56.* " " " *1916-1950* " " " *Ref. S.*File No. *186271/26*

Diameter ...	8"	026	018	5 1/4								
Height ...	1' 0"		1									
Altitude ...	402'		51									
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	Total
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	.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	6.90	.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	27.72	
December ...	3.33	2.42	.96	2.15	3.11	2.18	1.18	3.82	3.46	2.63	25.44	
TOTALS ...	34.77	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	Direction	Parish Church.	Distance	Direction
1951			Wellfield	250 yd	W	Wingate	1 ml	SW
1955			"	133 mi.	SW.	"	.925 mi.	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	1920-25, 28-30	✓	✓	
	d 18.	d no. D 21-25, 29-30	✓	✓	