

## RAINFALL AT Ryhope Camping Station

Lat. \_\_\_\_\_ Lon. \_\_\_\_\_ County of Durham

Rain Gauge, by \_\_\_\_\_

Observer Alfred. O. E. Blackburn Esq

Year 2

Diameter .....										8
Height .....										1.1
Altitude .....										2287
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899 MEANS.
January .....									1.11	2.82
February .....									.85	.76
March .....									1.54	2.30
April .....									2.59	2.27
May .....									2.23	2.76
June .....									2.19	2.53
July .....									.96	2.81
August .....									1.92	.90
September .....									.50	2.25
October .....									3.13	3.14
November .....									3.44	1.12
December .....									1.22	3.18
TOTALS .....									22.01	29.24

St. Paul's Ryhope  $\frac{3}{4}$  mile N.E.

Sunderland

RAINFALL AT Ryhope Pumping Station

Lat. .... Lon. .... County of Durham

Rain Gauge, by Observer a B E Blackburn Esq  
meas - 2.

Diameter ..	8										
Height ..	1	1									
Altitude ..	228										
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	2.63	1.48	.70	2.42	1.76	.21	2.17	.33	1.02	.58	1.330
February ..	5.23	2.02	1.42	1.04	2.19	.52	1.05	1.02	1.01	1.46	1.696
March ....	2.35	2.14	.69	1.16	1.85	1.23	1.02	.88	2.48	4.25	1.805
April .....	.69	.93	1.56	1.71	.83	2.75	1.64	2.21	2.61	2.40	1.733
May .....	1.44	2.05	2.29	2.59	2.81	.66	5.21	4.37	1.31	1.65	2.438
June .....	3.13	1.48	2.21	2.88	1.40	.82	1.00	2.53	.75	2.39	1.859
July .....	2.06	2.07	2.33	4.03	1.67	.90	1.01	1.24	2.55	2.55	2.041
August .....	5.31	2.32	1.60	2.33	3.30	2.63	2.24	1.69	1.36	3.38	2.616
September..	.62	.96	.80	2.64	.72	1.93	.42	.32	1.74	2.01	1.216
October....	6.75	1.61	1.99	2.11	.57	2.90	4.60	3.40	1.04	1.94	3.291
November ..	2.72	5.21	1.27	2.41	2.30	4.70	2.90	1.38	1.38	1.07	2.534
December ..	2.11	2.91	2.51	1.71	1.96	.89	1.70	2.79	.99	3.60	2.070
TOTALS ..	35.04	25.18	19.37	33.03	21.36	19.64	24.96	22.16	18.24	27.31	24620 534

1900 St Pauls Church  $\frac{3}{4}$  mile NE  
 Iron Railings 3' 6" high  $\frac{3}{4}$  ft NE  
 1905 Ryhope Station 1 mile E

## RAINFALL at Ryhope Pumping Station

County of Durham

Observer

A.B.E. Blackburn

River Basin

Wear

2

Rain Gauge, by

Diameter ...	8									
Height .....	1.0								11.1	
Altitude ...	228 ft									
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	MEANS.
January ...	2.11	1.30	2.63	3.99	1.70	2.52	.70	2.73	2.04	2.54
February ...	2.15	1.07	1.88	.49	.94	2.75	2.21	.69	.98	1.06
March .....	.60	2.18	1.98	2.46	1.77	1.87	3.06	2.22	1.04	2.39
April .....	2.24	1.27	.14	3.16	.53	.60	1.30	1.89	1.25	1.58
May .....	2.60	.77	2.64	2.57	1.50	1.93	2.08	2.35	1.71	.92
June .....	2.07	4.83	4.51	1.24	3.66	.47	2.63	.39	.32	1.01
July .....	2.21	.69	3.93	.82	3.78	2.37	2.58	.76	3.37	1.35
August .....	3.25	2.48	4.42	.92	1.99	1.97	2.50	6.43	.89	2.09
September ..	.61	2.02	1.83	2.62	1.50	2.04	1.79	1.34	4.51	.71
October ...	2.50	2.20	3.50	1.98	1.92	1.43	2.49	1.96	2.11	4.79
November ...	2.60	3.75	2.11	1.16	3.21	1.62	2.84	1.26	.88	3.35
December ...	2.04	3.02	1.42	1.34	2.91	5.81	2.48	2.27	2.94	2.47
TOTALS ...	25.11	25.58	30.99	22.76	25.41	25.38	26.64	24.29	21.99	25.08
										9800

1912 Immovable 3' 6" high 34° E

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911			Ryhope	1 mi	E	St Pauls	2/4 mi	NE
1918	54° 51' 54"	122° 11' W						

## **RAINFALL at Ryhope Pumping Station**

County of Durham

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

River Basin Near 2

Sunderland & S. Shields W Co.

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

Diameter ...	8										
Height .....	1	1									
Altitude ...	228										
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEAN
January .....	2.69	3.04	2.19	1.01	1.81	1.00	1.99	1.08	2.28	2.80	3.82
February .....	.98	1.12	1.81	3.43	1.27	2.81	1.99	0.75	.98	.77	1.84
March .....	3.20	.73	1.26	1.40	.87	1.65	1.66	1.86	2.33	.18	2.16
April .....	2.76	1.16	1.51	1.82	1.71	2.71	1.00	1.56	1.04	1.23	1.74
May .....	3.13	1.74	.69	2.69	6.79	2.58	1.63	1.74	1.11	1.04	1.18
June .....	.53	1.23	1.50	.95	2.87	10	2.51	3.95	4.64	1.81	1.43
July .....	4.83	1.80	4.66	1.49	5.53	2.73	2.70	3.71	1.59	2.53	6.02
August .....	1.36	4.92	2.31	3.49	2.52	2.82	2.15	6.14	3.12	2.54	4.00
September...	1.10	.71	4.37	1.41	2.09	2.93	2.03	3.63	.97	1.04	2.97
October.....	2.27	1.70	1.60	2.25	3.80	2.08	2.98	2.114	2.87	2.22	1.71
November...	.74	2.38	.75	4.20	1.02	2.39	3.92	5.07	2.27	2.74	3.23
December...	2.99	1.45	3.63	2.16	1.79	3.20	1.63	3.23	1.31	2.90	2.37
TOTALS...	26.58	21.31	26.28	26.30	32.09	27.21	24.19	32.86	24.51	21.80	31.46.
	1	2	3	4	5	6	7	8	9	10	11

1920 Iron Railings 3' 6" High 34° N.E.  
Inspected 9/3. 8.15.26. Is. on large flat open space near cooling tanks  
located at distance all round +400 yds from pumping station.  
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	54° 5' 15"	1° 22' 11"	Ryhope	1 mi	E	St. Pauls	3/4 mi	NB

## RAINFALL at Ryhope Pumping Stn.

County of Durham

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

River Basin Wear - 2

Type of Gauge Standard

Annual Average 5.5 in. based on 22 years obs. un-weighted. Period of average 1881-1915 Ref. S

686271/26.

Diameter	8.												
Height	1.1.												
Altitude	228.												
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940			
January	2.58	.72	2.01	1.33	2.28	3.71	2.33	1.85	3.32	1.88	22.01		
February	1.18	.77	2.43	1.48	2.58	2.46	3.06	.85	.51	2.26	16.58		
March	.83	2.78	1.15	2.23	.66	1.84	3.27	.21	1.99	1.84	16.80		
April	2.76	1.17	.94	3.56	2.65	1.38	2.41	.12	.71	1.42	17.12		
May	2.38	4.80	1.44	1.06	.92	1.87	2.99	2.78	1.20	1.05	19.99		
June	2.89	1.24	1.52	2.18	2.40	2.67	1.76	2.46	2.35	1.24	20.71		
July	3.88	2.64	2.30	1.67	.57	2.56	3.30	2.47	2.78	6.79	28.86		
August	2.95	2.68	1.02	3.18	1.70	2.56	1.64	1.44	1.87	1.42	20.36		
September	3.52	1.84	1.57	1.73	3.53	2.51	1.50	2.06	1.30	1.46	13.02		
October	1.38	3.56	4.32	2.57	3.88	1.27	1.83	3.06	4.74	2.78	29.49		
November	1.81	.85	4.26	2.07	3.47	2.59	1.96	2.45	2.46	3.86	25.26		
December	1.19	.70	1.77	3.53	2.16	1.71	4.98	2.93	1.11	2.81	22.29		
TOTALS	27.35	28.05	24.73	25.59	28.80	21.23	31.03	22.68	24.33	27.70	26249		
	D.												

1931. Iron railing 3' 6" high 34' N.E.

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
1931.			Ryhope	1m	E.	St. Paul.	3m N.E.

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

Station No. T.F. 3547

## RAINFALL at Ryhope Pumping Stn.

41

County of Durham

Observer

A.B.E. Blackburn Esq. C.E. (Ex-N.W.A.)

River Basin Wear-2

H.G.M. Lellan Esq. C.E.

Type of Gauge Smowader

Annual Average 25.4 in. based on 2 years obs. un-weighted. Period of average 1881-1915 Ref. S

File No. 686271/26

Diameter	8"		025	767								
Height	1' 1'			1								
Altitude	228'			41								
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means	Total
January	3.27	2.92	2.84	7.9	4.00	1.07	1.39	7.74	1.59	1.70	27.31	64.9
February	5.97	1.98	1.54	1.56	1.15	1.32	1.48	1.03	1.44	2.97	16.44	
March	2.42	1.51	1.51	1.74	1.38	1.99	3.80	1.64	1.13	1.59	12.11	
April	1.73	1.76	1.81	1.96	1.57	1.48	2.58	1.43	1.31	1.86	14.49	
May	1.49	1.03	2.31	1.98	3.24	1.73	2.81	1.41	1.58	2.10	18.68	
June	1.40	1.18	1.02	2.41	1.74	2.77	1.89	3.62	1.85	1.03	16.91	
July	1.64	2.52	2.04	2.26	1.76	3.45	2.74	1.18	1.64	2.71	21.94	
August	2.35	1.50	4.16	1.73	3.80	3.03	1.39	4.87	2.12	5.60	29.55	
September	1.54	3.36	3.30	4.84	1.78	3.48	1.61	1.62	1.45	3.25	24.23	
October	4.08	2.45	1.60	2.45	3.04	1.95	1.47	1.17	2.28	1.09	19.58	
November	2.88	1.78	2.80	4.30	1.90	3.64	1.99	1.60	2.65	5.76	27.33	
December	2.23	2.13	1.25	1.36	1.08	2.72	1.88	2.17	2.26	3.24	18.32	
TOTALS	25.00	21.12	23.58	26.38	24.44	25.63	23.03	28.48	16.33	32.90	246.89	10

1941:- Iron railing 3.6" high, 34° N.E. Deb. cond. for snow.

1000  
71.3

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	Direction
1941			Ryhope	1 mile	E	St. Paul	1/2 mile	N.E.

Station No. 3547

T. 496

## RAINFALL at Ryhope Pumping Station

51

County of Durham

Observer A. G. McMillan Esq. C.E.

River Basin Wear - 2

Sunderland &amp; S. Shields W.C.

Type of Gauge Standard

Annual Average 25.4 in. based on 2 years obs. un-weighted. Period of average 1881-1915 Ref. S.  
 " 25.93 " 35 " Within 1920-56 " " 1916-1950 686271/26 S.  
 File No.

Diameter	8"	025	767	5"								
Height	1' 1"		1									
Altitude	228'		51									
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	Total
January	1.47	2.12	.90	2.78	1.58	3.04	1.27	1.48	2.89	4.46	21.99	
February	2.18	.53	1.71	2.20	2.41	1.93	1.80	3.89	.61	1.82	18.48	
March	3.57	1.28	.05	1.31	1.37	.99	1.08	3.55	.50	1.64	15.34	
April	1.27	1.52	2.38	.41	.81	1.00	.38	1.48	1.49	.78	11.52	
May	4.90	1.78	2.02	2.30	1.59	.47	1.26	2.65	.40	1.90	19.27	
June	1.49	.95	2.10	1.91	2.43	3.04	1.87	2.44	1.83	.17	18.23	
July	1.48	.81	3.14	1.57	1.01	2.82	2.45	2.79	.74	3.62	20.43	
August	4.32	1.76	3.79	4.58	.72	8.02	3.38	2.37	.21	2.09	31.24	
September	.80	4.31	1.24	1.96	.88	1.77	3.41	1.64	.51	1.77	18.29	
October	1.08	2.45	1.40	3.73	1.33	1.52	1.59	1.12	.99	6.28	21.49	
November	5.15	3.17	1.21	3.25	1.79	.98	1.18	.63	3.22	2.50	23.08	
December	2.55	2.47	.93	1.76	2.72	2.22	1.29	3.30	2.78	1.80	21.82	
TOTALS	30.26	23.15	20.87	27.76	18.64	27.20	20.96	27.34	16.17	28.83	241.18	
	D	D	D	D	D	D	D	D	D	D		

1951 Iron Railings 3 $\frac{1}{2}$ , 34° NE:  
 1956

10

Position of Station on Ordnance One-Inch map : No. of Map ..... National Grid Reference N(63)40+624

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Parish Church.	Distance from gauge.
1951			Ryhope	1N E	St Paulo	3/4 mi. NE
1958			"	.667 mi. ENE.	" (Ryhope)	.512 mi. NE.

Summary of Earlier Records from 10-year Sheets :

1916-1950 P - Rejected

		1910-19 30	1920-30 31	1931-40 31	1941-50 31	1951-60
Record D, or d	C 1958	✓	✓	✓	✓	