

## METEOROLOGICAL OFFICE.

## RAINFALL

Station South Shields, Bents Park

No. 462 - 020181

County DURHAM

(Old No. 3557)

Authority Dr. M. Mathieson, T. Yocom

Grid Ref. NZ (45) 374672

Dr. W. Campbell Lyons (1919)

Altitude 11m 36 ft.

File

TF / MWR / m / a

River Basin COASTAL

Tributary TYNE &amp; WEAR

YEAR	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	Means
January ...						2.19	.75	2.46	2.06	2.85	
February ...						2.77	1.93	.67	1.06	2.03	
March ...						2.20	2.50	2.75	.94	3.43	
April ...						.54	1.32	2.90	1.06	1.66	
May ...						1.70	1.83	2.16	1.72	.76	
June ...						# .40	1.86	.96	.56	.99	
July ...						3.61	2.43	2.93	2.32	3.32	1.39
August ...						1.79	1.76	2.62	6.41	.90	2.23
September ...						1.68	1.93	1.32	1.71	14.78	.81
October ...						1.47	1.83	2.45	2.82	2.11	5.88
November ...						2.59	1.84	2.85	1.05	.81	14.69
December ...						2.70	5.66	3.39	1.78	3.01	3.49
TOTAL ...						Jan.	25.25	25.75	27.99	22.30	30.21
Percentage ...											

## AVERAGE ANNUAL RAINFALL

Actual

Estimated from data for:-

1881-1915	in.	
1916-1950	in.	

in.

Type and capacity of gauge

\*NOTES on unorthodox equipment or exposure, inspections, changes of equipment, site or altitude:-

Gauge moved July 1st 1916 from South Shields, North Marine Park

Earliest year with complete data (D : W : M).

\*NOTES on years with incomplete or unsatisfactory data:-

\*Each note to be dated. Continue notes overleaf if necessary.

## RAINFALL at South Shields Beest's Park

County of Durham

Observer D<sup>r</sup>. W. Campbell Lyons

River Basin Tyne-Lower 3

(1923) Dr. W. Nicoll assisted M.O.H.  
Dr. W. Campbell Lyons M.O.H.

Snowdon Rain Gauge, by Casella

Diameter ...	5										
Height .....	100										
Altitude ...	36										
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	M <sup>1930.</sup> MEANS.
January .....	2.63	3.71	(2.04)	1.08	1.97	1.58	2.10	1.28	2.58	2.69	8.12
February .....	1.03	11	2.00	3.32	1.27	2.77	2.26	.79	1.17	.93	1.11
March .....	2.04	61	1.22	1.68	1.01	1.77	1.04	1.37	2.22	.48	1.90
April .....	2.86	74	1.38	1.67	1.30	2.38	.69	1.82	1.18	1.39	1.82
May .....	2.97	1.21	1.10	1.94	6.76	2.51	1.93	1.71	1.29	.86	1.25
June .....	.60	62	1.75	.91	2.07	.24	3.46	4.48	3.98	1.85	1.48
July .....	3.30	154	4.24	1.91	4.29	1.94	4.17	4.26	1.86	2.54	5.88
August .....	2.09	5.19	2.12	3.70	2.65	3.01	1.94	5.66	2.62	3.46	3.73
September .....	1.25	.80	3.40	1.32	2.55	3.25	2.09	3.57	0.98	1.15	.77
October .....	1.81	1.91	1.35	1.75	3.48	1.51	2.45	1.85	2.57	2.44	1.96
November .....	.97	2.34	.69	3.85	1.24	2.87	3.68	3.41	2.20	3.04	3.75
December .....	2.98	143	3.43	2.55	2.05	2.90	.65	4.44	1.64	3.37	2.78
TOTALS...	25.03	20.41	25.11	25.68	30.64	27.23	26.46	34.64	24.09	24.20	29.23
	\$	F	D	D	F	D	D	D	D	D	D

1920 Stevenson screen 5 ft high 13 ft N

1926 Inspected 24th March In garden facing new promenade running along coast ground level, grass covered, buttressing level except above (miles NW where it rises to the town. To exposure diagram all over.

1927 Bushes 15' high, 87° N; and 10' high, 20° S, + 20° E

*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	55° 1'	1° 25'	S. Shields	1330 4000ft	NW	St. Andrews	2570ft NW

## RAINFALL at South Shields (Bent's Park)

County of Durham

Observer Dr. W. Campbell Lyons,  
(who is Medical Officer of Health)

River Basin Tyne-Lower-3

Type of Gauge Standard

Annual Average 24.2 in. based on 20 years obs. un-weighted. Period of average 1931-1935. Ref. S

667594/26

Diameter	S.											
Height	1.0.											
Altitude	36.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Mean	Total
January	2.27	.65	1.67	1.69	3.07	4.06	3.17	2.66	3.49	2.21	24.94	
February	1.92	1.20	2.88	.67	2.51	2.62	3.25	1.19	.88	2.06	19.18	
March	1.52	2.69	1.06	3.06	.77	2.27	3.54	.29	2.35	2.27	19.82	
April	3.23	1.50	1.08	4.42	2.55	1.37	2.44	.20	.64	1.20	18.63	
May	2.67	4.13	1.15	1.19	1.12	1.90	2.97	3.19	1.51	1.15	20.98	
June	2.92	.91	1.95	1.90	2.35	2.70	2.52	2.61	1.71	.74	20.31	
July	5.36	2.66	1.77	2.36	.46	2.69	3.42	2.84	2.84	6.86	31.26	
August	5.18	2.40	1.46	3.28	1.78	2.57	1.47	1.94	2.64	1.15	24.87	
September	2.95	1.88	1.92	1.35	3.81	3.08	1.49	1.73	1.56	1.87	21.64	
October	1.61	2.76	3.79	3.88	3.86	1.81	2.15	3.28	5.80	2.98	32.92	
November	3.11	1.26	5.07	3.16	3.35	3.41	1.76	2.40	2.67	3.49	29.68	
December	1.56	.60	1.74	4.24	2.26	1.85	5.40	4.45	1.35	2.48	25.63	
TOTALS	34.30	23.64	25.54	31.20	27.89	31.03	33.58	26.78	24.44	28.46	289.86	
		D	D	D	D	D	D	D	D	D	D	

1931. Bushes 15' high 87° N. Stevenson screen 5' high 11° N. Bushes 10' high 20° E.  
Bushes 10' high 20° E.

Ingested 26.3.26. Site slightly c. get are then. writing 1/25/31/43

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.			S. Shields.	1330 yds.	N.W.	St. Aidans	860 yds.	N.W.

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

Station No. 3557

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## RAINFALL at South Shields (Bent's Park)

County of Durham

Observer Dr. W. Campbell Lyons.

River Basin Tyne Lower 3

Type of Gauge Standard

Annual Average 24.2 in. based on 20 years obs. unweighted. Period of average 1881-1915 Ref. S

File No. 66 Y594/26

Diameter	5"		020	181							
Height	1' 0"			1							
Altitude	36'			41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means Total
January	3.70	4.63	3.15	6.5	4.22	1.47	1.70	7.98	1.99	1.79	30.28
February	6.48	4.00	1.77	1.91	1.29	.66	3.23	1.61	1.64	3.12	24.71
March	2.85	1.48	.67	.85	.27	1.38	4.18	.65	1.25	1.64	14.22
April	1.17	1.38	.77	2.38	1.40	1.61	2.48	1.51	1.72	1.74	16.16
May	1.66	2.03	2.37	1.67	2.98	1.66	2.50	1.65	.70	1.49	18.71
June	0.57	2.96	1.72	1.77	1.72	1.71	1.96	2.89	1.06	1.27	17.63
July	1.94	2.87	2.98	3.32	1.97	3.25	3.39	1.83	1.59	3.65	25.89
August	3.69	2.32	3.82	1.87	4.21	3.24	.15	5.43	1.60	5.22	31.55
September	0.88	3.17	3.30	6.09	1.96	3.37	1.69	2.55	.40	2.89	26.30
October	4.76	3.11	2.40	2.16	2.99	.86	.51	1.72	2.50	.89	21.90
November	3.72	1.50	3.00	4.78	1.00	3.80	2.60	1.67	2.27	5.01	29.25
December	0.59	2.85	1.02	1.25	1.69	2.87	2.14	2.22	2.19	3.29	20.11
TOTALS	32.01	32.30	26.17	28.70	25.70	25.88	26.53	31.64	16.91	31.00	276.71
D	D	mp	mp	D	D	D	D	D	D	D	10

1941:- Buelio 15' high 87° N. Stevenson Screen 5' high 11° N. Buelio 10' high 20° S. Buelio 10' high 20° E.  
Read December in 1941 & 1942

1942. mp. high.

1945. Prop. q. 45° with S. screen in glass end. 30° q. wind & iron railing 6' 6" high. Hedges 20/25' to NE & SE.  
all to 7'. Surface impossible, careful observed.

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			South Shields	1330 yds	N.W.	St. Aidans	860 yds N.W.

Station No. 3557

## RAINFALL at South Shields (Bents Park)

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County of Durham

Observer Dr. M. Campbell Lyons,

River Basin Tyne-Lower - 3

Medical Officer of Health (1952)  
(or 10. Last Fall)

Type of Gauge Snowden

Annual Average 24.2 in. based on 20 years obs. un-weighted. Period of average 1881-1915 Ref. 5  
 " " 26.57 " " 12 " with 1944-56 " " 1916-50 File No. 6875947261

Diameter ...	5"	020	181								
Height ...	1' 6"			1							
Altitude ...	36'			51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means 1951-60
January	1.60	2.12	1.09	2.73	1.98	4.07	1.54	1.66	2.50	4.93	24.22
February	2.13	.75	1.56	1.98	2.24	1.75	1.96	3.86	.51	1.98	18.72
March	3.50	1.34	.02	1.05	1.87	.69	1.16	3.45	.66	1.55	15.29
April	1.46	1.54	2.11	.38	.89	1.10	1.46	1.90	1.54	.74	12.12
May	3.30	2.01	2.18	2.91	1.45	.47	1.60	2.73	.49	2.06	19.20
June	1.92	2.32	1.69	2.31	2.48	2.61	1.99	2.18	2.51	.53	20.45
July	1.28	.84	2.60	1.73	.88	2.77	2.78	3.09	1.96	3.30	21.23
August	4.32	1.69	4.22	4.78	.99	6.54	3.51	3.42	.80	3.50	33.77
September	.84	3.25	.99	2.33	.99	2.28	3.79	1.97	.74	1.95	19.13
October	1.05	1.93	1.19	4.02	1.95	2.03	1.74	1.04	1.45	5.50	21.90
November	5.37	3.51	1.02	3.44	1.39	.96	1.02	.84	3.04	2.43	23.02
December	2.26	3.19	.84	1.62	3.13	2.33	1.60	3.19	3.17	1.89	23.22
TOTALS ...	28.94	24.49	19.51	29.28	20.24	27.60	23.15	29.33	19.37	30.36	252.27
	D	D	D	D	D	D	D	D	D	D	10

1952 Stevenson Screen 5'0" 10' N. Bushes 10', 10', 15' @ 20' S., 20' E., 87' N.

Position of Station on Ordnance One-Inch map : No. of Map ..... National Grid Reference ..... 45/372672

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge
1952			S. Shields	1330'	NW	St. Aidans	860'

Summary of Earlier Records from 10-year Sheets :

Record D. or d	1910-19	1920-30	1931-40	1941-50	1951-60
C 1952	✓	✓	✓	✓ np 41-43	