

## RAINFALL AT Newcastle Leazes Park

Lat.

Long.

County of Northumberland

Rain Gauge, by

Observer The Boro Engineer

Tyne 3

W.G. Lawrence Ch.

Diameter .....							5				
Height .....							10				
Altitude .....							250 ft				
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January .....							1.31	1.73	1.00	2.66	
February .....							.44	1.77	1.13	.89	
March .....							2.79	3.02	1.89	1.20	
April .....							.73	1.42	2.20	2.53	
May .....							.76	1.36	2.06	3.70	
June .....							2.24	2.54	2.25	1.43	
July .....							2.78	1.33	.82	2.55	
August .....							2.11	2.93	1.58	.87	
September ...							2.41	2.91	.53	2.43	
October .....							5.78	1.31	4.87	2.23	
November ...							1.68	1.69	3.49	1.13	
December ...							4.78	2.25	1.33	3.35	
TOTALS .....							27.81	24.26	23.15	24.97	

St Andrews ch 730 yards SE  
 Tues 10 ft high 33 ft NNE

## RAINFALL AT Newcastle Leazes Park

Lat.

Lon.

County of Northumberland

Rain Gauge, by H. C. Hilton, Newcastle

Observer W.G. Rawnsley Esq. CL.

J. J. Edge Esq. CL.

C.R. S. Kirkpatrick Esq. CL.

H.C. Hilton Esq. CL.

Tyne, lower - 3.

Diameter ..	5												
Height ..	10												
Altitude ..	255 ft												
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.		
January	2.84	1.20	1.14	2.19	1.29	.19	1.94	2.62	1.37	1.84	146.2		
February	7.02	(2.20)	1.64	1.26	2.80	.78	.57	.88	.36	1.68	19.14		
March	1.78	1.86	.86	1.14	1.32	1.10	1.26	.68	4.70	5.60	20.25		
April	1.34	2.01	1.24	1.37	1.50	3.18	1.35	2.45	3.06	2.59	20.09		
May	1.47	2.11	2.39	2.28	2.44	.41	4.56	3.91	1.79	1.76	23.12		
June	5.00	1.19	1.88	2.94	2.05	1.19	2.01	1.82	.27	2.56	20.91		
July	1.61	3.62	3.23	5.03	1.29	1.94	2.02	1.32	3.58	2.92	26.56		
August	6.06	1.97	2.60	1.87	2.22	2.41	3.11	2.09	.63	3.50	26.46		
September	.90	.76	.38	2.12	.81	1.00	.41	.35	1.96	1.48	10.17		
October	6.74	2.38	2.43	8.14	.65	2.57	3.75	5.09	1.60	1.73	34.98		
November	2.81	5.36	.98	1.86	2.23	4.00	3.00	1.04	1.43	.64	23.35		
December	1.82	3.08	2.95	2.75	1.70	.45	(3.21)	2.88	.45	4.18	23.47		
TOTALS ..	39.39	(27.74)	21.72	22.95	20.30	19.17	(27.19)	23.08	21.10	30.48	26.312		

D D D D D D D D D D D D D

1900 St Andrews Church 730 yards S.E.

Trees 10 ft high 33.21 NNE

1901 February Yield of 5 excesses, amount estimated

1903 Central Station 1 mile S

1907 Not printed January owing Presumably high

## RAINFALL at Newcastle Leagues Park

County of Northumberland

Observer

W. J. Steele Esq C.E.

R.M. of Royal Engineers

River Basin Tyne Lower 3

H. Laws Esq (1916) T. Morgan (1917)

Rain Gauge, by Winterton Newcastle

Diameter ...	5										
Height .....	10										
Altitude ...	255 ft										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS. Totals
January ...	2.59	1.70	3.32	3.04	2.58	1.92	1.07	2.36	2.30	2.29	8.02
February ...	2.73	.53	3.08	.37	1.31	2.81	2.96	1.15	.95	1.47	7.03
March .....	.47	2.10	1.75	2.69	2.01	1.91	3.65	2.07	1.11	2.53	9.36
April .....	2.60	1.51	.20	2.74	.82	.62	1.34	3.09	1.20	1.33	6.96
May .....	2.77	.52	2.61	2.00	1.39	1.86	3.04	2.31	1.46	.79	7.60
June .....	1.77	4.65	4.53	.95	3.70	.51	1.96	1.34	.61	(1.35)	5.26
July .....	2.66	1.40	2.70	.64	3.04	3.48	2.43	1.03	4.13	9.61	9.20
August .....	2.71	2.66	4.36	1.33	1.63	2.18	3.06	7.49	1.28	1.95	13.78
September ..	.62	2.77	2.09	6.01	1.86	1.41	1.49	1.59	5.04	.67	8.79
October ...	2.86	2.38	3.20	1.85	2.41	.98	2.85	2.26	2.38	4.66	12.15
November ...	3.29	3.75	1.44	1.36	3.47	1.63	3.39	1.15	1.34	3.42	9.30
December ...	2.07	3.21	1.57	.63	4.00	6.36	4.26	2.61	3.11	3.09	13.07
TOTALS ...	27.14	27.17	30.95	23.91	28.22	25.67	31.50	28.45	24.91	(25.66)	110.52
	avg d	d	d	d	d	d	d	d	d	d	

1912 Trees 10 yd high 33 ft NNE

1919. June partly estimated.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911 1917	1. 58.	1.37	Central	1 mi	S E	St Andrews	730 yds	SE

## RAINFALL at Newcastle-Leazes Park

County of Northumberland. Observer W. J. Steele Esq.

River Basin Tyne Lower 3 City Engt Newcastle on Tyne.

Snowdon Rain Gauge, by Wm. L. S. in  
sound and correct ix. 26 newcastle

Diameter ...	5"	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.	1920-30 Total
Height .....	10												
Altitude ...	2537												
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929			
January ...	2.72	4.92	2.84	1.11	1.99	1.85	2.10	1.68	2.56	2.71	3.91	28.39	
February ...	.99	1.13	1.78	2.97	.95	1.99	2.24	.72	1.16	.62	1.94	15.49	
March .....	2.98	6.5	1.46	1.67	1.10	1.96	1.28	2.08	2.78	.50	1.98	18.47	
April .....	2.92	1.18	1.59	1.43	1.51	3.08	1.07	2.22	.93	1.57	1.68	19.23	
May .....	4.54	1.58	.93	2.58	6.04	2.71	3.12	1.67	1.15	1.09	1.88	26.74	
June .....	.86	.71	1.26	1.07	2.43	.08	3.14	3.79	3.87	1.78	.92	19.91	
July .....	3.64	1.29	4.82	3.29	6.01	1.84	3.85	3.40	1.56	2.46	4.20	36.36	
August .....	1.35	5.75	2.28	3.89	3.15	2.83	2.53	5.59	4.47	3.25	5.35	40.44	
September...	1.58	.83	3.61	1.45	2.81	3.23	2.47	4.43	.98	.89	2.60	24.87	
October.....	1.65	1.89	1.53	2.07	4.03	1.91	3.23	1.47	2.84	2.22	1.69	24.43	
November...	.67	2.42	.80	3.79	1.16	2.57	3.95	3.18	2.49	2.99	1.76	25.77	
December...	3.80	1.30	3.39	2.43	2.47	4.33	.75	4.52	1.56	2.97	2.01	29.53	
TOTALS...	27.60	22.69	26.29	27.80	33.65	28.38	29.73	34.75	26.35	23.05	29.36	309.63	

1920 Precip 10 ft. high 33° NNE

Inspected 9.6.1926. G. in large enclosure behind terrace in park.  
with hedges, trees etc at unequal distance all round.  
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.	Railway Station.	Distance from gauge	Parish Church.	Distance from gauge
1920	1° 58'	1° 37'	Central	1 mi S	St Andrews	73076 312

## RAINFALL at Newcastle (Leazes Park)

County of Northumberland

Observer W. J. Steele, Esq., C.B.E.

River Basin Tyne-Lower-3

The City Engineer (1941)

Type of Gauge

Annual Average 26.4 in. based on 21 years obs. un-weighted. Period of average 1881-1915 Ref. S

716371/20.

Diameter	5'	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means Total
Height	1.0.											
Altitude	255											
Year												
January	2.76	.84 (1.44)	1.71	2.91	3.39	2.97	1.95	4.16	2.60	2.403		
February	.96	.88	3.27	3.36	2.64	3.19	3.68	.98	.80	2.19	1.895	
March	.75	2.08	1.70	3.00	.55	2.19	2.57	.37	3.16	1.91	1.828	
April	2.23	1.85	.82	4.64	3.42	1.52	2.68	.13	.99	.76	1.854	
May	2.90	3.89	1.65	1.25	1.18	1.70	2.68	3.68	1.20	.88	2.051	
June	3.55	.72	2.03	2.29	2.91	3.20	2.85	2.83	2.07	.90	2.335	
July	3.65	3.36	1.77	2.49	.53	2.77	2.64	2.29	3.09	7.32	2.991	
August	4.29	2.42	1.18	3.19	2.51	2.32	2.55	2.08	2.45	1.23	2.422	
September	1.89	(2.36)	1.92	1.23	3.70	2.65	1.64	2.48	1.06	1.87	2.083	
October	.97	4.21	4.05	3.77	4.58	1.63	2.10	3.58	4.79	3.59	3.327	
November	2.25	.88	3.48	3.56	3.85	3.35	1.91	2.71	2.37	3.37	2.773	
December	1.71	.67	2.17	3.72	2.16	1.36	6.25	3.62	1.47	2.72	2.585	
TOTALS		.91	27.46	23.16 (25.48)	31.21	30.84	29.27	34.55	26.70	27.61	28.74	28547
	d.	d.	d.	d.	d.	d.	d.	d.	d.	d.	d.	d.

1931. No near objects.

1932. Sept. losses abounded by near stations.

1933 Jan part estimated by near stations.

1940. Return adjusted for leaking gauge.

1931 Sept 4th cor'd for misplaced decimal (ref nearby stns.). BR = not cor'd.

by S. G. 12.60.

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.			Central	1m	S.	St. Andrews.	750yds.	S.E.

Station No. M. 3561

41

## RAINFALL at Newcastle (Leazes Park)

County of Northumberland. Observer The City Engineer.

River Basin Tyne - Lower 3

Type of Gauge

Annual Average 26. Min. based on 21 years obs. un-weighted. Period of average 1881-1915 Ref. S

File No. 714371/26

Diameter	5'		019	121							
Height	1' 0"			1							
Altitude	255'			41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1941-50 Means T-Scale
January	(4.19)	2.85	2.76	6.5	4.06	1.44	1.48	8.01	.58	1.45	27.47
February	5.81	1.49	.98	2.01	1.39	.35	2.64	1.42	.52	3.58	20.19
March	2.45	.99	.75	.69	.49	1.43	3.49	.65	.69	.53	12.16
April	1.46	.75	.68	2.35	1.75	1.35	3.16	1.72	1.36	1.95	16.53
May	1.63	.97	2.88	1.78	3.28	1.74	1.80	1.76	.54	1.81	18.19
June	2.79	1.25	2.02	2.23	2.12	2.08	2.61	3.18	1.49	1.35	21.12
July	1.53	3.13	1.90	2.68	2.16	3.95	2.86	.84	1.99	3.28	24.32
August	2.82	1.92	3.86	2.01	3.44	3.19	.04	4.65	2.03	5.32	29.28
September	.45	3.01	3.03	6.53	2.21	3.54	1.68	3.66	.72	3.08	27.91
October	4.07	2.24	2.47	2.78	3.11	.80	.77	1.58	2.18	1.89	20.89
November	2.96	.82	2.67	4.92	1.21	4.18	2.51	1.28	3.12	4.77	28.44
December	.21	2.06	1.09	1.84	1.44	2.24	2.44	1.89	2.40	2.02	17.63
TOTALS	30.37	21.48	25.09	30.47	26.66	26.29	25.48	30.64	17.62	30.03	264.13

1941: Jan (and Feb) last cold.

40004

23 4 - 1 0 6

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

BRITISH RAINFALL ORGANIZATION

Station No. 3561 m

RAINFALL at Newcastle (Leagues Park)

County of Northumberland

Observer

River Basin Lower - 3

THE DIRECTOR OF PARKS &

#### Type of Growth

~~THE DIRECTOR OF PARKS & CEMETERIES,~~

Annual Average 26.4 in. based on 31 years obs. un-weighted. Period of average 1881-1915 Ref S  
27.69 " " 35 " 1916-1950 1916-1950 P  
File No. 716371/26

Diameter	5"	019	121								
Height	1' 0"			1							
Altitude	255'			51							
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	
										Means Totals	
January	1.03	1.54	.78	2.87	1.99	3.67	1.03	1.67	1.77	4.69	21.04
February	2.11	.65	1.73	1.65	2.74	2.50	1.91	3.47	.57	1.97	19.30
March	3.58	1.05	.09	1.23	1.91	1.03	1.15	3.21	.56	1.68	15.49
April	1.45	.94	2.45	.52	.67	1.36	.43	1.23	1.66	0.73	11.44
May	3.59	1.58	2.00	3.33	1.78	.37	1.53	3.08	.51	1.87	19.64
June	2.21	1.71	2.05	2.06	3.00	2.63	2.08	2.58	1.77	0.22	20.31
July	1.55	.92	3.13	1.99	1.01	2.56	3.48	3.49	1.24	4.51	23.88
August	4.87	2.46	4.20	5.62	1.14	7.30	3.29	2.54	.26	3.51	35.19
September	.98	3.51	1.82	2.84	1.13	3.05	3.69	1.63	.76	2.08	21.49
October	.77	2.77	1.29	4.40	1.40	1.86	1.75	1.25	1.90	6.27	23.66
November	5.26	3.23	.79	3.19	1.51	.65	1.43	.48	4.68	2.64	23.86
December	1.21	3.71	.79	1.80	2.82	1.64	1.71	3.74	2.94	2.09	22.75
TOTALS	28.91	24.07	21.12	31.50	21.10	28.62	23.48	28.37	18.62	32.26	258.05

10

*Position of Station on Ordnance One-Inch map:*

No. of Map.

National Grid Reference NZ 45 237 651

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Parish Church.	Distance from gauge.

*Summary of Earlier Records from 10-year Sheets:*

1916-1950, P- accepted

	1910-19	1920-30	1931-40	1941-50	1951-60
Record D, or d	C 189b ✓ ✓ bnd 19, - 13-15 ✓ bnd 20-24		✓ bnd 31, 40	✓ ✓	