

# RAINFALL AT

Palmoral Castle Royal Gardens

Lat. ....

Lon. ....

County of Aberdeen

No. 1.

Rain Gauge, by

Sent by

Glaeser

J. M. Troup

Diameter ....			8								
Height .....			0 10								
Altitude ....			927								
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	(.60)	2.16	3.42	4.52	2.70	4.21	2.11	2.81	.87		
February ....	(2.10)	1.40	5.91	4.95	3.43	.82	1.09	1.45	2.62		
March .....	(1.50)	3.11	4.46	3.04	1.75	2.72	2.24	3.51	1.33		
April .....	(1.00)	3.31	1.62	1.66	2.71	1.39	1.83	1.57	4.86		
May .....	(1.90)	2.55	1.20	1.69	4.06	5.84	1.06	1.36	.90		
June .....	(2.20)	4.04	2.12	.50	1.09	.63	.55	2.28	.65		
July .....	(2.60)	4.07	5.11	3.12	1.26	2.62	1.63	4.39	1.99		
August .....	(4.40)	1.80	3.96	1.80	3.24	1.14	2.04	1.54	7.62		
September....	(2.30)	2.88	4.11	1.96	4.46	2.64	3.37	1.25	.78		
October .....	(5.90)	2.39	2.73	4.23	3.06	4.91	2.11	3.16	3.20		
November....	(6.10)	4.84	1.72	4.10	3.09	3.43	4.63	5.92	1.75		
December ....	(2.40)	3.32	2.02	1.84	2.50	(3.13)	2.82	1.81	1.31		
TOTALS ...	(33.00)	35.87	38.38	33.45	33.65	33.48	25.58	31.05	27.88		

Received 15.1.09  
 Opical 22.2.09

1881 roughly computed from Borena

Hope Collection 3.24 %

Months for Borena 365:230

# RAINFALL AT *Balmoral Castle Royal Gardens*

Lat. ....

Lon. ....

County of *Aberdeen*

Rain Gauge, by .....

Observer *W. J. M. T. M. P.*

*See - 1.*

Diameter ..	8										
Height ....	0	10									
Altitude ..	927										
Year ....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January ..	5.41	1.13	3.19	.72	4.09	.50	1.12	3.00	1.58	3.45	2.419
February ..	1.20	.30	2.02	2.96	5.52	3.35	.52	2.72	3.84	2.75	2.518
March ....	2.68	2.63	.70	1.02	2.00	4.07	1.76	5.49	1.55	2.75	2.465
April .....	1.80	1.19	.13	.97	1.28	.88	.72	2.08	4.20	3.98	1.733
May .....	1.84	2.82	1.90	1.19	4.17	.75	.75	2.51	2.21	2.61	2.075
June .....	1.57	.52	1.49	1.97	.88	2.95	3.28	3.94	.99	.99	1.858
July .....	2.59	4.38	2.27	1.44	4.15	3.27	3.60	1.72	.76	2.73	2.701
August ....	3.29	4.15	4.02	2.21	5.66	3.98	1.39	2.72	3.06	1.13	3.161
September ..	2.78	3.70	2.97	3.70	.94	1.45	3.72	1.26	2.42	5.76	2.870
October ....	3.88	3.66	5.67	2.48	2.87	3.63	5.42	2.42	6.58	2.12	3.873
November ..	5.43	3.72	1.90	4.33	.88	3.82	1.55	1.70	4.72	4.05	3.210
December ..	1.31	2.47	2.45	2.68	2.00	3.88	4.67	5.16	3.45	3.75	2.182
TOTALS ..	33.78	30.67	28.81	25.67	34.44	32.53	26.50	34.72	35.36	36.07	32.055

*Received 15.1.09*  
*Copied 22.2.09*

# RAINFALL AT Balmoral Castle Gardens

Lat. .... Lon. .... County of Aberdeen  
 Gaisher. Rain Gauge, by N. B. Observer J. Mitchie Esq M.V.O.  
See - 1. John M. Brown

Diameter ..				8							
Height ....				0. 10					1 0		
Altitude ..				920			927				
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS
January ..											
February ..	4.49	4.20	2.81	3.61	1.86	1.31	3.71	1.59	1.84	2.14	2.756
March ....	1.80	1.80	1.35	5.15	3.75	2.19	2.39	1.71	2.80	1.23	2.444
April .....	5.67	2.78	2.05	3.90	1.51	3.77	2.35	1.17	4.10	6.30	3.360
May .....	1.64	1.24	3.57	2.53	3.18	3.13	1.91	4.18	2.56	3.14	2.600
June .....	2.30	2.18	3.96	1.61	2.10	1.60	5.58	4.41	1.42	2.25	2.741
July .....	2.33	2.66	1.91	1.82	1.67	1.07	.57	3.10	.82	1.67	1.672
August ....	3.37	1.42	2.36	3.26	1.38	1.11	1.19	1.58	1.83	3.04	2.054
September ..	4.40	3.13	2.94	3.35	3.33	3.37	2.65	2.99	2.15	1.73	3.007
October ....	1.85	1.83	1.64	3.76	1.75	1.77	1.40	.95	3.01	1.44	1.940
November ..	2.71	2.40	3.19	5.78	.61	3.99	5.51	5.32	1.61	4.20	3.532
December ..	4.21	1.99	3.64	2.58	1.89	6.27	8.08	2.07	1.91	1.20	3.384
TOTALS ..	39.41	30.58	34.55	41.74	23.68	30.96	38.43	31.93	26.16	30.83	32.827

1900+1901 Recd. 15.1.09. Int. 22.11.09.

1903 Crathie Church 3/4 mile E  
 Ballater Station 8 . E  
 Hedge 7 feet high 58 ft N.W.  
 Fairhome 1/4 . 60 . N + NE

1906 1<sup>st</sup> Feb Gauge moved 500 yards E.  
 1907 Hummer Screen 6' 6" high 8' NE

1904-05. Corrected for wrong day 31. VIII. 10.

1901 Jan. Feb. apportioned for purpose of averages VI. 11.

+ Inspected



RAINFALL at Balmoral Castle Gardens

5630

County of Aberdeen Observer Mr. J. W. Group. M.V.ORiver Basin Dee 1 Mr. R. F. Chalmers (19)Rain Gauge, by N. & L.

Howard &amp; Co. (1919)

Diameter ...	8						5					
Height .....	1	0										
Altitude ...	927	T										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	
January ...	4.20	1.88	5.26	4.41	2.43	3.22	3.09	2.34	3.18	1.23	3.324	11.84
February ...	3.19	2.00	2.55	1.29	3.59	4.80	3.70	.59	2.74	1.45	2.590	8.48
March .....	2.49	2.07	2.51	5.45	3.76	1.85	3.38	2.49	.96	3.25	2.821	10.08
April .....	3.16	2.42	1.02	2.62	.88	1.86	2.49	1.85	.86	3.28	2.044	9.18
May .....	1.21	1.84	1.82	3.58	2.71	1.25	2.59	2.19	2.11	1.34	2.064	8.23
June .....	1.41	1.26	2.17	1.79	2.12	1.43	3.05	3.42	1.02	2.03	1.940	9.52
July .....	4.08	1.23	2.14	1.03	3.02	3.48	3.77	2.02	5.52	.34	2.663	11.66
August .....	4.67	.92	4.56	1.10	2.39	3.17	3.71	4.98	2.00	1.35	2.885	12.04
September ..	1.05	.42	3.11	3.06	1.15	3.42	1.57	1.48	4.59	3.50	2.235	11.14
October ...	3.11	2.63	5.41	1.96	2.14	4.93	6.13	3.85	3.03	2.76	3.595	15.77
November ..	4.85	6.24	3.99	1.94	6.35	4.36	5.01	3.70	2.98	5.88	4.529	17.54
December ...	4.12	7.01	3.73	2.97	9.16	4.82	3.76	1.65	2.34	4.08	4.364	11.83
TOTALS ...	37.54	29.92	38.27	31.20	39.70	38.59	42.25	30.56	31.33	32.46	35.182	136.60

1913. Rain 58 ft high 36 inches N  
Season 61. 10 SW

1919. Aberdeen 5 1/2 ft. 8 ft. E.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911.	57.2	3.12. W	Ballater	8 mls.	E.	Crathie Parish 1/2 mile	1/2 (1916)	E NE.

RAINFALL at Balmoral, Castle GardensCounty of AberdeenObserver Mr R. F. ChalmersRiver Basin Dee 1Rain Gauge, by Howard Wilson

Diameter ...	5"			5"								
Height .....	1 0			1 0								
Altitude ...	927			927								
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS.	
January ...	3.69	2.67	4.32	2.77	1.49	3.49	4.20	3.79	5.40	1.24	3.08	36.14
February ...	2.07	.32	1.81	7.69	1.99	6.69	1.93	.87	1.99	1.10	1.74	28.20
March .....	3.61	2.31	1.97	1.14	.94	3.01	2.00	2.29	6.12	.23	1.84	25.46
April .....	2.72	1.09	3.81	2.21	1.48	2.93	3.00	2.85	1.52	1.85	3.02	26.48
May .....	2.57	2.20	1.01	4.65	3.81	3.47	1.70	3.21	2.17	2.02	1.44	28.25
June .....	.47	.80	1.03	.92	1.30	.56	3.47	3.42	2.88	1.57	1.68	18.15
July .....	2.77	2.12	3.40	1.83	4.00	3.48	1.96	3.46	2.46	4.58	3.10	33.22
August .....	3.44	2.88	1.95	4.26	4.24	1.46	1.04	4.40	5.01	2.32	5.46	36.46
September...	2.29	1.01	2.06	2.34	4.51	3.54	3.11	4.36	3.55	1.01	5.62	33.42
October .....	4.64	1.49	1.25	3.71	3.12	2.46	5.87	4.53	4.26	3.15	4.36	38.84
November...	2.57	1.98	1.44	3.44	1.99	2.06	5.50	2.77	3.12	3.22	3.91	32.00
December...	3.86	3.09	2.92	2.88	4.83	3.95	1.27	2.85	2.49	7.05	3.84	38.93
TOTALS...	34.70	21.96	26.87	37.84	33.80	37.10	35.05	38.82	40.97	29.34	39.09	37.554

1920. Thermometer Rose 5 ft high 6 ft E.

1924 Insects. 30 &gt; 120 &gt; N.

1922. Jan. &amp; Dec. probably short.

Position of Station on reduced Ordnance Survey } No. of Map

Map, 2 miles to 1 inch Series

Reference No.

Date.	Lat. N.	Long. W.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1920	57° 2'	3° 12'	Ballater	8 mi	E	Grathic	1/2 mi	E

RAINFALL at Balmoral Castle Gardens M.W.R.County of AberdeenObserver R. H. ChalmersRiver Basin 1- DecIn 1854 change to Mr. Alex. Stewart (1937)Type of Gauge Snowdon (+A)name of Capt H. O. RossAnnual Average 33.0 in. based on 34 years obs. un-weighted. Period of average 1891-1925 Ref. B.M.

Diameter	5.											
Height	1.0.											
Altitude	927											
Year	1931	1932	1933	1934	1935	1936	1927	1938	1939	1940	SOMS Means	
January	3.29	4.16	3.66	2.50	2.23	4.25	11.80	4.62	3.50	1.31	40.72	
February	1.39	4.1	2.90	1.08	2.81	2.30	3.01	1.36	2.76	1.20	19.22	
March	1.33	2.42	1.10	2.84	1.65	1.30	5.31	.47	2.68	2.26	21.36	
April	3.17	4.07	2.01	5.11	5.14	1.25	.96	.40	1.21	1.62	24.94	
May	3.16	4.40	1.19	3.48	1.41	1.64	1.73	2.44	.95	1.11	21.51	
June	3.02	.88	1.41	1.69	3.01	1.10	.73	3.29	1.80	.36	17.29	
July	3.76	3.24	2.06	8.79	.63	3.44	3.32	4.72	4.70	6.42	37.07	
August	3.82	.91	0.87	4.11	2.14	1.19	1.74	1.36	2.82	1.78	20.74	
September	1.56	2.62	2.30	2.11	3.64	2.93	.99	2.81	2.30	1.13	22.39	
October	2.29	8.22	7.14	4.38	5.59	2.60	3.05	4.21	6.38	4.32	48.18	
November	5.19	2.22	4.34	2.54	4.92	2.74	.79	4.46	3.60	5.68	36.48	
December	2.76	3.49	1.19	6.32	1.56	3.59	3.64	3.11	1.56	2.53	29.75	
TOTALS	34.74	37.04	30.56	39.95	34.73	28.33	37.07	23.25	34.26	29.72	339.65	
	D.	D	D	P.	D	D	D	D	D	D		

1931. Thermometer box 4' high 9'E.

1937 Aug. - Sept. corrected by Nye's charts.

1938. Mean 2.0 p.m. wind 100 p.m. till 3.0 p.m. W.

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
1931.			Ballate	8m	E.	Grathie	1/2m	E.

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



Station No. 5630

RAINFALL at Balmoral Castle Gars. M.W.R. 41County of Aberdeen Observer Mr. Alex StuartRiver Basin 1-Dee Mr. A. StuartType of Gauge Standard (+A)Annual Average 32.0 in. based on 34 years obs. un-weighted. Period of average 1881-1915 Ref. B of N.

File No.

Diameter	5"				844	215					
Height	1'0"					1					
Altitude	927'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	4.17	3.54	3.22	2.48	5.67	2.74	3.38	3.71	2.07	1.61	32.59
February	2.69	1.47	1.99	2.06	1.29	1.99	2.42	3.03	1.40	2.95	21.29
March	0.95	(1.47)	1.07	.81	.61	1.31	2.32	1.99	1.55	1.94	15.05
April	1.59	1.40	1.66	1.03	1.38	.62	3.91	1.55	1.83	3.40	18.37
May	2.79	3.21	3.58	3.03	3.75	2.20	3.06	3.46	1.88	1.22	28.18
June	.27	1.30	1.40	2.38	2.47	2.49	2.00	5.34	1.21	.82	19.68
July	3.18	1.74	1.25	1.87	1.76	4.55	2.46	2.53	1.71	2.92	23.97
August	3.27	2.35	3.09	2.06	3.18	5.14	.81	5.73	3.37	2.81	31.81
September	1.34	2.81	3.06	4.21	3.49	4.57	2.60	1.80	1.87	5.97	31.72
October	3.76	3.82	3.30	4.45	3.49	.27	2.00	1.90	3.14	.84	26.97
November	5.15	.67	3.02	4.73	.95	5.79	3.28	.82	3.03	3.41	30.85
December	1.84	3.21	1.09	3.24	6.74	2.88	2.08	4.62	3.30	2.51	31.51
TOTALS	31.00	26.99	27.73	32.35	34.78	34.55	31.32	36.48	26.36	30.43	311.99

1941 Feb. cond. by hygro. charts.

1942 March cond. for snow.

10004

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

BRITISH RAINFALL ORGANIZATION

Station No. 5630  
**RAINFALL** at Balmoral Castle Edna M.W.R.  
 County of Aberdeen Observer Mr. E. Stuart  
 River Basin See - 1  
 Type of Gauge Snowdon (+P)

51

Annual Average 33.0 in. based on 34 years obs. un-weighted. Period of average 1881-1915 Ref. Bif N.  
33.25 " " 35 " " 1916-1950 1916-1950 P  
 File No.

Diameter ...	5"				844	215						
Height ...	1' 0"					1						
Altitude ...	927'					51						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	
January ...	2.80	2.67	1.06	2.23	1.36	3.52	3.63	2.59	2.80	5.11		
February ...	3.98	1.90	1.13	2.17	3.67	2.11	2.97	3.78	0.37	3.91		
March ...	2.63	2.39	.50	2.35	1.07	1.68	1.97	3.32	1.48	1.65		
April ...	3.46	1.02	2.61	1.08	.46	1.67	1.19	1.73	2.53	2.86		
May ...	1.50	2.27	2.10	5.44	2.63	.80	1.77	3.38	1.21	0.87		
June ...	1.19	2.15	4.18	1.69	.62	2.46	1.95	3.35	1.77	1.49		
July ...	3.05	1.72	4.08	2.41	.77	3.81	4.57	4.91	2.78	2.52		
August ...	3.68	3.59	1.53	2.92	.60	4.89	4.15	2.90	1.12	5.70		
September ...	1.17	1.53	2.20	2.04	1.47	4.52	2.53	3.14	0.91	3.07		
October ...	1.23	4.69	1.80	4.94	3.38	2.95	1.39	2.16	5.17	8.56		
November ...	7.22	3.59	2.28	5.40	1.79	1.42	1.91	.65	6.05	3.79		
December ...	2.98	4.56	3.31	5.64	5.90	5.09	3.84	5.26	5.19	2.32		
TOTALS ...	34.89	32.08	27.78	38.31	23.62	34.92	21.87	37.17	31.36	41.85		
	D	D	D	D	D	D	D	D	D	D		

Map: 11" Thomson 16.4.52. Signal location in ground. Reported 18.5.52.

Map 11" Thomson 25.4.53. g + ate satisfactory except that g. is 1½' from window 1½' high. to be moved to 5' away.

Position of Station on Ordnance One-Inch map: No. of Map..... National Grid Reference No(37)253.949

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

Summary of Earlier Records from 10-year Sheets:

1916-1950, P-accepted

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	✓	✓	✓	
	✓	✓	✓	D42-50	