

RAINFALL AT *Loch Eck (Blennore)*

Lat.

Lon.

County of *Argyll*

Rain Gauge, by

Observer *J. Duncan Esq.*

Firth of Clyde - 12.

Diameter				6							
Height				1.							
Altitude				35							
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January....				14.63	13.92	7.63	10.39	10.50	8.23	(11.50)	
February....				10.26	6.56	8.14	4.70	6.56	3.00	(7.20)	
March				4.12	6.16	5.87	5.40	5.50	7.20	(4.60)	
April				5.28	2.82	4.78	3.00	2.30	3.40	(4.00)	
May				4.12	7.76	5.25	8.26	2.00	10.80	(4.30)	16.70
June				3.72	.82	3.45	1.30	4.00	4.35	(2.30)	
July				4.36	7.09	3.79	6.50	8.50	6.75	(1.50)	
August				7.35	5.40	6.00	5.00	10.40	7.90	(8.60)	
September....				4.55	1.30	13.95	5.50	7.00	2.40	(4.60)	
October				1.22	9.30	8.20	6.70	8.50	4.70	(7.50)	
November....				11.86	7.60	6.33	9.30	9.20	16.25	(5.60)	
December				15.48	14.58	5.40	8.20	8.75	9.10	(10.00)	
TOTALS				86.95	83.31	78.99	74.24	83.21	84.08	(71.70)	

*

1883. *Kilmuir Ch. 3 m. S*

Garden Wall 12 ft. high 80 ft. N.

* *Computed from Ardrishnie for average*

RAINFALL AT *Loch Eck Benmore*

Lat. _____

Lon. _____

 County of *Argyll*

Rain Gauge, by _____

 Observer *Sir A. Gardiner Bt*
H. J. Younger Esq
7th of Clyde - 12.

Diameter		5									
Height		10									
Altitude			40								
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	(17.20)	8.00	11.28	7.11	15.85	1.85	7.12	2.40	9.54	11.59	
February	(24.0)	2.62	5.08	10.34	16.82	1.27	6.46	7.29	10.71	6.18	
March	(9.00)	7.65	2.60	5.07	6.71	6.59	11.78	12.10	4.90	8.48	
April	(3.40)	2.94	2.47	3.36	3.30	5.23	4.76	5.92	7.71	7.77	
May	(3.90)	2.80	8.79	4.10	5.01	.73	1.27	4.60	3.15	4.68	
June	(9.60)	2.50	7.41	1.98	3.97	3.01	5.12	10.03	6.24	2.91	
July	(7.10)	2.24	4.55	8.32	5.03	6.04	6.78	6.94	4.00	6.27	
August	(5.60)	9.82	10.78	7.57	7.11	10.81	4.67	9.32	8.95	2.51	
September	(12.30)	11.82	10.44	6.58	.13	3.85	8.39	6.40	11.53	9.50	
October	(9.60)	10.02	7.19	11.86	3.81	6.09	5.95	5.49	6.38	7.46	
November	(17.80)	9.22	8.97	8.21	10.70	10.78	4.25	7.99	10.07	12.62	
December	(2.10)	14.55	5.51	11.68	8.69	9.59	13.19	11.59	15.14	9.82	
TOTALS	(100.00)	85.18	85.07	86.18	87.13	65.84	79.74	90.07	98.32	89.79	86.732

1891 Kilman Church 4 miles S

Hedge 8 ft high 15 yards E

1890 raised up from Benmore

* Computed from Observer's & Insurance

RAINFALL AT Loch Eck, Benmore

Lat.

Lon.

County of Angus

Rain Gauge, by

Observer, H. Younger Esq.

7th of Clyde - 12.

Robert Greenlaw

Diameter ..	5											
Height	1	3										
Altitude ..	40											
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.	
January ..	13.07	6.95	9.37	14.72	10.57	8.46	12.33	8.04	11.41	11.51	10.643	
February ..	5.17	3.46	3.61	13.80	7.57	8.30	8.09	6.74	9.08	5.49	7.131	
March	1.08	5.61	7.82	14.34	4.45	9.81	7.92	9.02	9.92	3.34	7.331	
April	6.49	6.71	3.50	3.44	10.34	6.27	3.96	4.94	3.69	5.75	5.509	
May	8.57	2.67	3.70	4.22	5.84	8.10	7.62	8.14	4.62	5.45	5.343	
June	5.90	6.60	2.02	1.97	4.38	2.11	2.47	7.44	4.59	5.00	4.248	
July	4.52	2.40	5.76	6.84	6.48	4.67	5.23	3.55	6.37	7.18	5.100	
August	7.19	7.05	4.85	12.11	6.58	9.08	7.03	11.64	6.08	5.73	7.734	
September ..	8.82	7.06	8.35	6.37	10.04	6.84	4.30	3.37	13.23	3.27	7.165	
October	9.18	10.12	5.42	15.56	6.17	8.13	12.73	6.85	3.26	12.26	8.968	
November ..	11.58	8.67	8.77	8.06	5.72	11.52	8.44	8.83	6.99	6.83	8.541	
December ..	16.40	9.85	10.60	9.55	10.05	8.55	9.31	12.08	11.16	10.32	10.787	
TOTALS ..	97.97	77.15	73.77	110.98	85.69	86.84	89.43	90.64	90.40	82.13	88.500	✓

1903 Kilmin Church { 3 1/2 miles S
4 " NW (07)

" Pri

Hedge 9 ft high 30 ft E

1904 March 28 gauge moved 30 ft N

1909. Corrected for wrong day.

RAINFALL at Loch Eck, BenmoreCounty of ArgyllObserver H. J. Younger Esq.
per R. GreenlawRiver Basin Firth of Clyde & below 12.

Rain Gauge, by _____

Diameter ...	5										
Height	1	3									
Altitude ...	40										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	<u>1918</u> <u>MEANS</u> <u>18-19</u>
January ...	9.78	8.42	10.44	10.42	7.62	7.86	14.25	4.83	9.73	8.30	37.11
February ...	11.38	12.07	7.58	7.44	13.46	13.88	11.33	2.15	13.08	2.08	28.64
March	6.16	3.55	9.84	12.29	11.41	6.87	2.41	5.02	3.19	7.99	18.61
April	8.35	6.67	6.80	7.15	7.24	6.36	7.97	3.64	1.55	5.60	18.76
May	4.96	6.15	2.81	6.66	3.67	1.83	6.84	6.73	4.75	1.91	20.23
June	3.72	4.53	7.89	7.17	1.75	2.79	3.50	3.82	3.65	6.25	17.22
July	6.73	5.99	4.82	1.21	2.81	6.41	3.26	2.10	5.66	2.84	13.86
August	13.32	7.70	7.01	3.14	7.56	2.98	5.14	8.66	6.48	6.44	26.72
September ..	2.95	4.13	6.52	4.96	4.70	2.71	3.99	6.22	11.35	7.77	29.33
October ...	3.80	7.25	11.12	6.98	3.72	7.25	11.10	16.06	16.61	2.93	46.70
November ..	6.97	11.56	10.16	14.16	10.89	4.41	11.01	18.63	11.41	8.30	49.35
December ...	11.26	16.14	19.86	10.07	14.18	11.23	9.66	5.83	10.73	16.30	42.52
TOTALS ...	89.38	94.16	104.85	91.65	89.01	74.58	90.46	83.69	98.19	76.71	349.05

D D D

D D

1913 Hedge gph high 30 ft E

Date.	Lat. N.	Long. W.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911.			Kilmun Pier	4 mls.	E SE.	Kilmun	3 m.	SE.
1912	56.1.40	4.59.15			(1914) E			

RAINFALL at Loch Ech, BeaumontCounty of ArgyllObserver Mr. R. GreenlawRiver Basin Firth of Clyde & Govan 12.

H. G. Younger, Esq. (1925)

Snowdon Rain Gauge, by

per J. White

Diameter ...	5'											
Height	1 3											
Altitude ...	40											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	30. MEAN:	
January ...	12.22	17.39	11.09	13.42	9.12	7.57	15.25	15.46	22.85	3.92	13.53	141.52
February ...	15.70	4.69	11.64	9.89	3.84	9.10	10.51	6.15	10.13	4.31	.81	86.47
March	9.59	12.70	3.67	5.47	1.83	4.81	9.48	9.81	12.26	2.16	6.28	78.16
April	4.01	2.32	6.01	6.22	6.32	12.30	3.88	8.22	5.74	2.56	4.09	61.67
May	10.53	6.60	7.87	3.68	6.59	9.06	4.79	4.73	2.47	6.41	4.68	67.41
June	3.69	2.01	4.97	4.05	4.80	2.39	5.15	7.19	7.97	5.85	5.06	53.13
July	7.68	8.06	5.97	9.23	8.12	2.97	5.37	5.33	5.58	6.36	5.76	70.43
August	7.65	10.59	5.57	10.28	6.61	6.76	7.40	6.27	7.61	11.06	11.40	91.20
September...	6.48	3.72	5.43	14.77	9.25	5.92	6.65	10.63	6.98	4.10	6.83	80.76
October	4.82	8.60	3.76	14.92	5.82	8.68	12.86	9.35	14.95	14.10	15.16	113.02
November...	9.00	7.43	7.09	10.62	8.45	2.44	11.93	10.88	15.45	14.41	14.11	111.81
December...	8.34	18.05	10.04	10.50	16.58	7.30	7.39	1.22	12.28	23.19	10.90	125.79
TOTALS...	99.71	102.46	83.11	113.05	87.33	79.30	100.66	95.24	123.97	98.43	98.71	1081.67

1920. 14edg 9 ft high 30 ft E

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	Parish Church.	Distance from gauge	Direction
1920	56° 1' 40"	4° 59' 15"	Kilmun Pier	4 mi	E	Kilmun	3 mi	S E

RAINFALL at Loch Eck (Benmore)County of ArgyllObserver H.C. YoungerRiver Basin 12-Mile of Clyde & CanalJohn White, Esq. 1939Type of Gauge SnowdonAnnual Averages in. based on 2 years obs. un-weighted. Period of average 1931-1940 Ref 12

Diameter	5.											
Height	1.3.											
Altitude	40.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	SUMS	Means
January	11.84	18.74	16.05	14.73	6.44	8.46	12.25	16.10	6.64	5.42	111.67	
February	10.90	.07	8.16	2.31	12.52	5.38	9.89	8.49	13.41	4.63	75.76	
March	2.43	6.15	5.62	5.09	3.89	6.13	3.68	11.77	8.17	7.70	60.83	
April	4.98	8.73	6.94	6.62	6.91	2.54	5.16	1.87	4.69	5.15	53.54	
May	7.48	3.28	5.82	6.76	1.35	3.16	3.56	5.67	1.67	1.47	40.22	
June	9.31	2.72	5.08	3.86	6.93	3.28	5.84	9.63	4.18	1.74	52.67	
July	6.28	6.72	6.04	5.13	4.51	8.03	4.10	7.41	9.38	5.47	66.07	
August	3.03	6.36	8.48	9.45	4.00	5.01	4.72	6.21	2.90	5.12	55.28	
September	4.05	7.98	12.1	12.53	11.02	7.12	0.29	9.62	6.46	7.31	73.59	
October	8.35	11.19	6.94	14.91	18.33	11.85	4.29	17.89	3.72	11.50	110.97	
November	15.71	9.59	5.55	3.73	9.61	7.82	2.00	18.83	16.08	13.87	102.79	
December	12.45	14.77	2.84	14.84	7.40	13.80	5.63	10.59	6.41	12.93	101.66	
TOTALS	97.41	96.30	71.23	102.96	92.91	82.58	71.31	123.98	83.71	82.31	904.70	
	D	D	D	D	D	D	D	D	D	D	D	

1932 Jan Ridge 7-8' high 12' E.

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			Kilmann Pier	3 1/2 m	S.E.	Kilmann	3 1/2 m	S.E.

Station No.

5433

RAINFALL at Loch Eck (Benmore)

County of

Argyll

Observer

John White, Esq.

River Basin

12 - Fifth of Clyde - Canal

Type of Gauge

SnaddonMrs Helen MacLean
The Head Gardener (from 11/43)Annual Average 86.6 in. based on 33 years obs. un-weighted. Period of average 1881-1915 Ref. A.W.S.

File No.

Diameter	5"			666	483					5	
Height	1'3"				1		1'7"		1'3"	1-3	
Altitude	40'				41		65'		40'	640	
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.56	12.37	11.41	14.32	6.00	14.67	10.76	16.62	13.53	9.00	
February	7.43	3.12	12.60	4.37	14.92	7.95	.67	11.01	11.31	10.27	
March	4.30	7.93	6.05	3.02	6.39	5.81	5.44	11.48	6.44	6.58	
April	4.70	4.82	8.59	5.70	3.22	4.11	11.16	8.28	14.02	7.03	
May	3.12	5.49	6.08	7.31	5.16	2.38	5.25	3.83	4.20	2.51	
June	1.74	4.64	6.36	8.40	7.98	5.57	6.19	8.47	2.34	3.80	
July	4.84	7.95	5.41	6.05	4.76	5.95	6.80	7.93	4.47	8.98	
August	8.54	10.25	13.79	5.33	3.32	4.87	.06	12.68	8.62	8.92	
September	4.41	6.89	8.31	9.44	9.63	12.47	10.44	14.91	4.10	19.08	
October	8.69	14.06	16.81	9.97	11.81	1.20	4.64	16.65	14.13	12.37	
November	10.87	3.23	6.75	13.87	1.36	11.12	14.04	6.90	12.62	5.94	
December	8.21	14.70	6.35	12.02	9.53	10.80	5.46	13.73	19.67	4.10	
TOTALS	68.41	99.45	108.71	99.80	84.08	86.90	80.91	132.19	115.45	98.58	

1947 fruit trees 10ft soft N, Hedge 6', soft S. Tree 8ft. 25ft E, Hedge 6ft. 25ft W.
 1949 u.p. high, 5433/1 printed inside. 110.8 in. high to top of tree 7/10

1950 terminated

876.20

Position of Station on reduced Ordnance Survey Map,
1 mile to 1 inch Series

No. of Map.....

Reference No. 26 141856

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge.	Direction from gauge.
1947			Gourock	10 1/2	S	Kilmou	3 1/2	S.E

BRITISH RAINFALL ORGANIZATION

(4180-90) W1.4 555-4478 12,000 2/40 T.S. 700

10-19	20-30	31-40	41-50	51-60
✓	✓	✓	✓	✓

RAINFALL at Loch Eck. (Benmore), near Gauge. Station No. 5433/1

41

County of Argyll Observer The Head Gardener
River Basin 12' Firth of Clyde + lower
Type of Gauge M. O.Annual Average 8.66 in. based on 1941-1948 years obs. un-weighted. Period of average Ref

Adapted for 5433

File No.

Diameter	666	484									
Height											
Altitude											
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.56	12.37	11.41	14.32	6.00	14.67	10.76	16.62	(12.00)	8.63	108.84
February	7.43	3.12	12.80	4.37	14.92	7.95	67	11.01	(10.00)	9.55	81.82
March	4.30	7.93	6.05	3.02	6.39	5.81	5.44	11.48	5.99	6.19	62.60
April	4.70	4.82	8.59	5.70	3.22	4.11	11.16	8.28	13.03	6.55	70.16
May	3.12	5.49	6.08	7.31	5.16	2.38	5.25	3.83	3.97	2.47	45.06
June	1.74	4.64	6.36	8.40	7.98	5.57	6.19	8.47	2.23	3.85	55.43
July	4.84	7.95	5.41	6.05	4.76	5.95	6.80	7.93	4.27	9.09	63.05
August	8.54	10.25	13.79	5.33	3.32	4.87	0.6	12.68	8.19	9.02	76.05
September	4.41	10.89	8.31	9.44	9.63	12.47	10.44	14.91	3.86	19.07	103.43
October	8.69	14.06	16.81	9.97	11.81	1.20	4.64	16.65	13.43	12.36	109.62
November	10.87	3.23	6.75	13.87	1.36	11.12	14.04	6.90	11.98	5.99	86.11
December	8.21	14.70	6.35	12.02	9.53	10.80	5.46	13.73	17.98	4.18	102.96
TOTALS	68.41	99.45	108.71	99.80	84.08	86.90	80.91	132.49	106.93	96.95	964.63

1949 New M.O. Gauge. 12' distance from other gauge 5433

1949. Jan. est. and Feb. part est. 20.36 in. order that record may be pitted instead of 5433.

H.O. Edin. hope to report soon 713

1941-48 figures from old gauge.

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

RAINFALL at BELMORE (YOUNGER BOTANIC GARDEN) Station No. 5433/ **51**
East Lothian, Berriedale, near Inverkeithing (from 1954)

County of Argyll Observer The Hon. Lord Macdonald
 River Basin South of Clyde & Govan - 12 Royal Botanic Garden, Edinburgh
 Type of Gauge H.O.

Annual Average 36.6 in. based on 33 years obs. un-weighted. Period of average 1881-1915 Ref. AW5
Adapted from 5433 (C. G. G. G.) 1916-1950 P
94.29 in. based on 35 years obs. 1916-1950 File No.

Diameter ...	5"				666	484						
Height ...	1'0"											
Altitude ...	40'						51					
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	
January ...	10.12	10.28	7.14	10.87	6.14	7.01	14.07	11.42	3.45	7.31		
February ...	5.66	4.46	5.43	8.87	6.43	2.71	7.74	5.49	3.90	9.50		
March ...	5.45	8.54	3.33	7.29	3.01	5.05	10.72	1.44	6.57	3.88		
April ...	5.62	3.68	5.08	4.85	6.18	3.02	3.52	3.44	8.52	9.63		
May ...	2.64	2.80	4.10	6.27	6.57	5.54	3.89	5.70	2.81	4.45		
June ...	2.48	5.15	1.97	6.43	6.76	5.40	3.65	3.78	4.81	4.52		
July ...	6.21	5.32	10.28	6.81	1.26	8.65	7.79	5.60	9.34	8.40		
August ...	6.63	9.36	8.16	7.89	1.98	7.71	8.01	8.61	2.56	5.31		
September ...	6.74	5.93	13.03	13.96	9.70	6.72	6.36	7.37	2.67	4.57		
October ...	3.24	10.25	6.63	16.23	6.67	7.27	10.69	8.71	9.57	5.46		
November ...	12.98	4.34	18.86	15.41	4.98	5.88	3.39	3.20	9.06	9.44		
December ...	16.88	11.01	9.73	17.05	14.57	15.04	10.09	9.41	15.14	10.46		
TOTALS ...	85.15	81.12	93.74	121.93	74.25	80.00	89.92	75.72	78.40	82.95		
	D	D	D	D	D	D	D	D	D	D		

Map. H. Thomson 13.4.55. Gauge round but house in ground at 14 1/2". Site in level garden enclosed by 6'6" hedge. Gauge is in fine hedge. 50' high, 150' high, 180' high. Valley bottom rather. Site somewhat level but better than that of long weather obs. 250' x 5' glassing g. which read 10-15% more now discontinued. (Absolute after H. Watson visit in 1950 & to be used finally.)

4.9.58. Spirit missing ~~at present~~ ~~the~~ rain may miss bottle. New g. required. Exp. sat. 1959 - name changed. J. W. 12/5/60 H. A. B. Thompson. The site is in an enclosed walled garden with trees & hills all round is an excellent one.

26/10/1956

Position of Station on Ordnance One-Inch map : No. of Map..... National Grid Reference NS261388954

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

Summary of Earlier Records from 10-year Sheets : Old gauge to 1948 1916-1950, P - accepted

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	✓	✓	C 919	
	✓	✓	✓	D 50	
				219	