

RAINFALL AT Kilpatrick Hills Burncrooks Res
No. 1 gauge.

Lat.

Lon.

County of Dumbartonshire

Clyde - Leven - 3.

Standard Rain Gauge, by N. & Z. Observer G. D. Mackie Esq. C.I.

J. L. Rae Esq. B.Sc.(os)

Diameter ...										5
Height										10
Altitude ...										820 ft 825 ft
Year ...	1900	1901	1902	1903	1904	1905	1906	1907	1908	MEANS.
January ...										4.10 5.67
February ...										2.01 2.57
March										4.09 1.97
April										1.87 3.24
May										2.70 2.75
June.....										2.59 3.30
July										2.62 4.76
August.....										3.41 2.29
September ..										8.65 1.69
October ...										2.05 6.60
November ..										3.89 1.02
December...										3.83 4.40
TOTALS ...										41.81 40.26?

This station is in Stirlingshire
n.s. Edin Oct. 1934

RAINFALL AT Kilpatrick Hills, Burncrooks Res.

No. 2 Gauge.

Lat. _____

Lon. _____

County of Dumbarton

Snowdon Rain Gauge, by N. & J.

Observer

J. L. Rae Esq. B.C.

Clyde - Leven - 3.

Diameter ...										5	
Height										1 0	
Altitude ...										959 ft	
Year ...	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ...											
February ...											
March											
April											
May											
June											
July										546	
August										324	
September ..										1.88	
October ...										866	
November ..										1.45	
December ...										5.70	
TOTALS ...										26.39	

This station is in Stirlingshire
N. 0. 5dn. Oct. 1934

RAINFALL at Kilpatrick Hills, Burncrooks Res. No. 1.

County of Dumbarton Observer J. L. Rae Esq. B.Sc.
 River Basin Clyde - Leven No. 3.
 Snowdon Rain Gauge, by _____

Diameter ...	5									
Height	1 0									
Altitude ...	825 not 835 not									
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	MEANS.
January ...	6.66	4.65	3.38	3.31	4.10	4.45	9.12	2.75	5.50	3.15
February ...	3.88	7.23	4.72	2.75	5.50	4.55	4.00	1.15	6.15	<i>for Jan</i>
March	2.79	1.86	6.45	5.20	5.35	4.32	.85	2.15	1.62	9.34
April	4.90	3.49	3.02	3.96	3.15	2.80	4.00	1.21	.72	<i>0.00</i>
May	1.93	(2.59)	2.03	3.70	2.12	1.15	4.40	2.15	2.21	1.75
June	2.41	3.41	5.25	2.32	1.00	1.89	3.25	3.40	1.06	5.09
July	3.17	4.16	2.20	1.09	3.40	4.28	2.78	1.70	3.50	.68
August	9.15	2.71	1.26	1.35	5.90	1.95	{ 5.20	3.60	3.36	2.80
September ..	1.31	3.49	3.05	2.96	3.90	1.50	2.60	7.00	3.06	
October ...	1.19	4.17	6.60	2.63	1.85	4.00	6.80	5.40	6.50	2.93
November ..	4.19	6.06	{ 8.68	6.63	6.00	3.25	6.18	7.00	4.50	4.60
December ...	3.98	8.42		4.00	5.52	5.00	4.50	2.59	5.00	<i>for Jan</i>
TOTALS ...	45.56	(52.24)	46.64	39.90	47.79	39.14	51.08	35.70	47.12	

1911. May 1-8 estimated.

1919. not printed Jan & Dec too small.

average computed X/37 from records 1908 - 1918

register from Survey as 10" too low.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911.			Blantyre					

RAINFALL at Kilpatrick Hills, Burncrooks Res. No. 2.

County of Dumbarton.

Observer T. L. Rae Esq. B.E.

River Basin Clyde-Leven. X 3.

Snowdon Rain Gauge, by

Diameter ...	5										
Height	1 0										
Altitude ...	959 ft								920	959	
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	M.EANS.
January ...	10.52	5.25	3.50	6.15	5.85	6.30	9.10	3.54	8.20	0.00	
February ...	6.57	9.51	4.80	3.59	8.40	7.00	4.10	1.48	8.20	Freeze	
March	4.35	2.73	8.10	7.03	7.20	5.02	1.10	2.70	2.55	9.50	
April	6.55	4.49	4.25	4.85	4.20	3.20	4.20	1.50	1.02	3.09	
May	2.44	(2.84)	2.21	6.22	2.50	1.47	10.60	2.98	2.62	1.83	
June	2.81	4.20	6.44	3.60	1.40	1.98	3.60	4.00	2.10	4.92	
July	4.00	4.75	3.58	.81	4.40	5.56	3.30	1.80	4.15	0.00	
August	13.46	3.55	4.98	2.12	7.70	1.70	{ 6.70	6.10	4.40	3.76	
September ..	2.00	4.84	3.00	3.20	4.60	1.25		4.30	7.90	3.17	
October ...	1.94	4.92	7.86	3.50	2.55	4.85	8.80	8.48	8.40	3.32	
November ..	5.34	7.62	{ 11.14	9.53	7.70	4.20	8.00	10.60	6.30	5.06	
December ...	6.63	11.73		5.00	6.00	6.12	6.14	2.69	7.70	Freeze	
TOTALS ...	66.61	(66.43)	59.86	55.60	62.50	48.65	65.9	50.07	63.54	31.71	

1911. May 1-8. estimated

1919. Not printed Dec. & Jan too small.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911			Blanefield.					

RAINFALL at Gilpatrick Hills, Burncrooks Res. No. 1

County of Dumfriesshire
River Basin Glyde - LuneObserver T. L. Rae Esq. C.E.E. T. Collins (1925)

Snowdon Rain Gauge, by _____

Water Sufpt Clydesdale

Diameter ...	5"										
Height	100										
Altitude ...	835										
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.
January ...	5.64	9.86	10.50	7.12	6.95	5.24	9.25	5.97	11.00	3.00	7.50
February ...	4.32	2.42	6.50	6.58	1.40	4.00	7.50	3.25	5.50	(2.85)	.50
March	6.64	8.60	3.20	2.05	1.45	2.50	4.16	5.10	7.50	(1.25)	3.65
April	3.40	1.93	3.27	5.25		6.14	5.25	3.90	3.20	4.14	1.90
May	5.32	2.87	5.80	2.50		7.60	3.70	3.00	2.40	1.26	2.85
June	2.96	2.00	1.97	1.58		1.25	4.05	5.30	7.50	4.30	3.45
July	(6.00)	1.78	(3.00)	6.30		2.55	2.75	5.12	3.40	3.40	3.60
August	6.50	10.00	3.64	8.00		5.00	4.09	7.40	7.00	4.00	5.01
September...	4.16	2.40	(3.50)	10.00		4.60	5.00	5.75	4.65	8.20	3.89
October.....	1.03	5.56	3.00	10.37		5.50	7.50	7.40	8.20	1.50	5.96
November...	6.32	4.20	5.39	4.50		1.00	7.50	4.75	7.30	(6.80)	5.12
December...	6.07	10.09	5.32	6.20		3.80	3.03	(1.50)	(4.50)	11.20	5.60
TOTALS...	(58.36)	61.71	(55.09)	70.45	int:	49.18	63.78	(58.44)	(J2.15)	56.56	48.53

1922. July & Sept: Interpolated, accepted by G.O.B.
 1924. Oct. unrecd.: - Unauthorised persons interfering with gauge, + have been unable to get any records
 since March

1928. Dec. gauge frozen. Interpretation by M.O. Edinburgh

1929. Feb. - Values interpolated. Jan. cont by next stations.

1930. Mar. Gauge stolen 3/24. New gauge set up ½ mi. N.E. of old site 1/25.
 9.VIII.37. Gauge stolen 3/24. New gauge set up ½ mi. N.E. of old site 1/25.

2nd f. 009762/37 over 24/9.

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	Direction	Parish Church.	Distance from gauge
1911			Blanefield				

RAINFALL at Kilpatrick Hills, Burncrooks Res. No. 2.

County of Dumbarton Stirling Observer T. L. Rae Esq. C.E.
Rbank - 5.
 River Basin Glyde - Lower 3.

Snowdon Rain Gauge, by _____

Diameter ...	57									
Height	1	0								
Altitude ...	920									
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	MEANS.
January	5.78	9.94	10.07	7.06						
February	4.60	2.58	6.72	6.72						
March	6.70	8.87	3.16	2.03						
April	3.62	1.97	3.38	5.20						
May	5.47	2.96	8.75	2.49						
June	3.07	2.03	2.15	1.57						
July	(6.00)	1.96?	(3.00)	6.29						
August	6.62	10.46	3.58	8.01						
September...	3.72	2.26	(3.50)	10.01						
October....	1.07	5.67	2.86	10.29						
November...	6.45	4.26	5.40	4.30						
December...	6.32	10.00	5.27	6.00						
TOTALS...	(59.42)	62.96	(52.84)	69.97	#					

1920 July 1st.

1922. Interpolated. July & Sept. accepted by G.B.R.

9. VIII. 37. Gauge abandoned 12/23. see p. 608762/37 Line. 24 P.

Position of Station on reduced Ordnance Survey } No. of Map _____
 Map, 2 miles to 1 inch Series }

Reference No. _____

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1921			Blanefield					

RAINFALL at Muthwaikie Hills (Bunnscoote Reservoir)

County of Skirling

Observer E.T. Colhoun

River Basin H = Clyde - Inverness

Type of Gauge

Annual Average 51.9 in. based on 12 years obs. un-weighted. Period of average 1881-1915 Ref. S
Computed X/37

Diameter						5"					
Height						1'0					
Altitude						835"					
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January						6.05	6.83	8.50	(5.40)	(2.90)	
February						3.40			3.51	0.07	(2.00)
March						3.20	7.85		4.12	4.21	5.57
April						1.45	2.76	.71	3.19	3.65	
May						2.15	2.05	4.00	1.80	1.61	
June						3.45	4.70	5.78	2.50	1.05	
July						5.13	4.25	5.64	6.40	5.04	
August						2.65	5.25	2.75	3.80	2.41	
September						6.15	3.30	5.87	2.00	4.71	
October						7.62	4.60	9.15	3.41	7.16	
November						5.23	1.20	10.82	9.67	6.85	
December						7.31	3.54	(3.47)	(3.00)	5.41	
TOTALS						52.79	46.33	64.32	(52.05)	(48.36)	

1937 Gauge could not be read in Feb owing to snow. March total is sum for 2 months.
 1940 Jan & Feb read. for snow

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 from gauge	Parish Church.	Distance from gauge	Direction from gauge

RAINFALL at Kepnock Field (Burncrooks Reservoir)County of Stirling Observer E.T.CollinsRiver Basin 5-Clyde - Right Bank

Type of Gauge

Annual Average 51.9 in. based on 12 years obs. un-weighted. Period of average 1881-1915 Ref. S
computed X/37

Diameter	5.										
Height	1.0										
Altitude	835.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	4.05	9.65	4.86	7.04	2.92						
February	6.10	0.4	3.65	.68	5.12						
March	2.15	2.65	3.08	2.45	2.75						
April	2.56	4.93	3.20	3.90	2.80						
May	5.15	4.08	2.35	3.20	1.45						
June	5.91	1.95	2.05	2.40	5.41						
July	4.87	2.50	4.05	3.05	2.58						
August	3.80	4.25	3.30	5.55	3.43						
September	1.68	5.90	.55	6.10	7.05						
October	4.65	7.85	3.08	8.30	11.15						
November	8.05	4.25	2.05	2.46	4.90						
December	3.85	8.35	1.30	7.80	3.86						
TOTALS	52.82	55.80	33.52	52.93	53.41						

*Transferred**Stirling
(5372/2)*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 from gauge	Parish Church.	Distance from gauge	Direction from gauge

Station No.

5372/8

RAINFALL at Kilpatrick Hills (Burncrook Res.) 41

County of ...
County of ...
County of ...

Observer ... E. T. Collins Esq.

River Basin ... 4 - Clyde - Leven

J. E. McWilliam Esq., 1948

Type of Gauge

Annual Average 61.9 in. based on 12 years obs. un-weighted. Period of average 1881-1915 Ref. S

File No.

Diameter	5"				663	921					
Height	1' 0"					1					
Altitude	835'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.65	(4.50)	6.43	7.16	(3.00)	6.30	6.32	7.40	6.20	4.50	
February	5.19	(2.10)	4.25	2.15	(8.15)	3.50	(1.00)	5.60	5.65	5.45	
March	3.50	5.10	3.26	0.60	3.35	2.20	3.67	4.80	3.00	4.43	
April	2.40	3.94	3.65	3.10	3.50	1.90	6.36	3.87	6.00	4.07	
May	2.94	2.93	3.70	3.26	4.95	1.76	5.15	2.20	3.30	2.05	
June	1.30	2.54	4.95	5.20	4.36	3.15	4.65	6.75	1.17	4.55	
July	2.76	3.56	2.55	3.82	4.50	3.95	4.62	4.45	3.11	8.62	
August	4.85	7.15	8.90	3.85	2.25	3.70	0.00	8.15	6.10	6.25	
September	2.50	6.78	3.50	5.46	5.95	8.20	5.54	7.25	3.15	9.43	
October	5.85	7.34	9.15	5.65	7.15	.71	2.47	8.42	7.97	5.43	
November	4.00	1.30	3.90	7.65	.97	9.19	7.12	4.50	4.06	3.51	
December	4.20	6.75	3.90	6.50	(4.75)	5.53	3.50	7.15	8.55	1.91	
TOTALS	41.17	53.99	58.14	54.38	52.88	50.09	50.40	70.54	58.26	60.22	

1942 Jan. Feb. est. totl.

60004

20004

1945 Jan. Feb. approximated

Dec. est'd.

1947 Feb. est. for show

1950 Jan./Feb. att. gauge frozen.

60004

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

Station No. 5372/8

RAINFALL at Kilpatrick Hills (Burncrooks Hts.)

51

County of Stirling

Observer J. E. MacWilliam Esq.

River Basin Clyde - Leven - +

Clydebank and District

Type of Gauge. Standard (cm. mm.)

Water Gauge

Annual Average 57.9 in. based on 12 years obs. un-weighted. Period of average 1891-1915. Ref. S.
b 54.66 - - 3 - - within 1958-59. 1916-1950. S. (new?)

File No.

Diameter ...	5"			663	931						
Height ...	10"					1					
Altitude ...	835'					51				822	
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	5.82	6.21	2.94	(5.40)	3.56	1.45	7.10	5.10	2.25	4.78	
February	3.46	(2.80)	2.90	(5.27)	2.00	1.82	3.75	2.60	2.20	5.14	
March	4.00	4.71	1.71	4.06	1.20	3.23	6.15	2.14	3.85	2.75	
April	2.91	2.68	2.39	2.62	2.93	1.75	2.25	2.10	4.10	5.30	
May	1.87	2.96	1.82	5.48	4.83	3.66	3.10	4.00	1.10	3.00	
June	2.44	3.72	1.80	4.28	3.31	3.35	2.40	3.80	3.20	3.50	
July	5.16	3.18	7.53	3.81	1.44	6.40	5.55	5.05	6.65	4.95	
August	7.62	4.83	5.10	5.31	0.95	6.15	6.35	6.30	1.26	3.95	
September	3.70	3.22	5.24	8.15	4.13	6.90	4.15	4.15	1.87	3.60	
October	1.74	5.56	2.58	9.53	4.16	4.50	6.10	5.10	5.40	4.05	
November	7.95	(3.00)	8.30	7.57	3.18	1.70	2.35	2.00	6.68	6.55	
December	8.64	5.65	5.75	6.23	7.00	6.35	5.30	5.25	4.65	5.68	
TOTALS ...	55.31	48.52	48.06	67.51	38.69	50.25	53.55	47.59	46.21	53.25	
	M	M	M	M	M	M	M	M	M	M	

1855. Top 10' - bottom 28' 9" above sea level. on hillside. Had no record of rainfall from 1855-1875. 12' 6" 5' 6" high 1' wide, 5' apart. Ground falls steeply S., 200-300' to Rio. Rounder snow site 500' W. top of spillway in hollow sand is sheltered winds etc. More snow at passes since site is liable to antifreeze.

20024

60004

Position of Station on Ordnance One-Inch map : No. of Map National Grid Reference 26487486.

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

Summary of Earlier Records from 10-year Sheets :

Sums

Record D. or d		1910-19	1920-30	1931-40	1941-50	1951-60
			✓ 29 imp.	✓	✓	-