

RAINFALL AT *Pentland Hills, Loganlea*

Lat. _____

Lon. _____

County of _____

Edinburgh

Rain Gauge, by _____

Observer _____

N. G. Cameron, Esq.
Ex - 4.

Diameter		11										
Height		0.6										
Altitude	850											
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January	1.90	3.80	3.90	4.80	8.40	4.10	7.20	2.40	1.90	1.70		
February	3.20	4.10	4.30	3.00	2.60	4.20	3.90	3.00	5.20	3.90		
March	3.00	4.70	7.50	3.90	2.50	2.30	6.40	3.50	10.00	2.80		
April	5.80	1.00	4.20	1.70	1.40	3.50	2.90	2.10	2.80	4.40		
May	2.50	4.10	3.20	2.50	3.60	3.90	5.80	3.30	1.80	2.50		
June	3.20	3.20	4.50	2.80	1.10	.90	1.70	.70	3.30	1.50		
July	3.40	3.80	4.90	4.70	7.20	1.40	3.70	3.40	6.40	5.40		
August .....	.90	7.40	2.40	3.60	1.50	3.20	1.90	3.10	2.90	7.50		
September ..	4.60	4.30	3.20	3.30	3.40			5.40	1.20	2.20		
October	4.70	3.10	3.60	3.10	2.80	3.10	5.80	2.90	2.70	5.80		
November	7.50	4.30	4.70	4.00	2.80	1.70	3.90	6.20	10.00	1.00		
December	10.00	3.80	10.20	2.50	6.10	3.30	5.80	3.10	2.40	2.90		
TOTALS	50.70	47.60	56.69	39.90	43.40			39.10	50.60	41.60		

1882 March amount computed

1885 Sept gauge leaking

1886 Sept. gauge out of order

RAINFALL AT

Pentland Hills Loganlea

Lat. _____

Lon. _____

County of *Edinburgh*

Rain Gauge, by _____

Observer

W Anderson Esq.

82-44.

Diameter	11											
Height	0	6										
Altitude	850											
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January	7.60	2.50	2.55	2.20	5.30	2.35	1.24	1.45	1.74	5.77	2.270	
February	1.30	.80	5.95	4.00	10.90	1.15	1.30	2.52	2.71	2.31	2.294	
March	3.20	8.50 8.85	5.50	2.10	3.90	5.85	3.30	4.05	1.88	3.29	4.159	
April	1.20	8.90 8.89	1.80	1.55	1.65	2.10	1.95	2.30	2.36	4.09	2.790	
May	2.40	2.15	3.60	2.25	4.50	1.00	.79	2.00	1.95	4.64	2.525	
June	5.10	.80	3.70	5.10	3.40	2.30	4.20	4.64	2.70	1.61	2.355	
July	4.30	3.90	1.90	2.90	2.50	4.70	5.10	2.37	1.28	4.57	2.352	
August	5.70	9.30	5.80	4.15	5.20	5.55	1.70	3.45	3.81	.68	4.534	
September....	2.20	8.85	2.80	2.20	.80	1.20	5.73	2.86	2.93	2.63	2.220	
October	4.40	4.10	5.85	3.45	3.50	4.00	6.20	1.47	4.40	4.65	4.202	
November....	7.70	2.80	2.50	2.15	2.85	4.20	1.45	3.41	6.29	4.05	2.740	
December	3.40	8.85	3.25	4.60	3.35	4.05	5.60	5.76	5.53	2.71	4.710	
TOTALS	48.50	61.10 53.79	45.20	36.65	47.85	38.45	38.56	36.28	37.58	41.00	42.150	

1891 Cont. by original 89. VI. 10

RAINFALL AT Pentland Hills Loganlea

Lat. Lon. County of Edinburgh

Rain Gauge, by Observer W. Anderson Esq

Sk- 4.

Messrs. Leslie & Reid Esq. (189)

Diameter ..	11							8			
Height	0 6							1 4			
Altitude ..	850										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	4.48	2.27	1.46	5.79	3.56	1.11	5.28	1.85	5.60	5.13	3.653
February ..	5.13	1.46	.90	5.75	3.49	1.88	2.00	2.54	1.87	2.35	2.737
March	1.95	3.21	2.19	6.71	1.63	4.57	3.36	2.93	5.35	6.06	3.796
April	2.37	2.42	1.81	1.40	3.34	2.09	1.26	1.52	2.41	2.74	2.136
May	1.99	3.21	3.22	2.78	4.58	1.34	5.50	3.80	2.26	2.16	3.084
June	3.65	2.21	3.11	1.84	3.27	.88	2.47	3.71	1.56	2.70	2.540
July	3.37	1.00	2.62	4.29	2.27	2.42	1.72	3.27	4.33	4.62	2.991
August	4.68	5.52	1.53	3.84	5.10	3.90	6.87	3.93	2.82	2.55	4.074
September ..	3.78	1.72	2.37	2.70	1.71	2.88	.74	1.50	3.62	2.82	2.384
October	4.27	2.53	2.56	8.28	1.69	2.53	8.81	10.85	1.11	5.99	4.862
November ..	6.25	3.85	.97	2.62	1.79	3.90	5.95	1.79	2.28	1.32	3.072
December ..	7.58	4.08	3.29	2.11	4.45	2.22	1.62	5.53	1.28	4.45	3.661
TOTALS ..	49.50	33.48	26.03	48.11	36.88	29.72	45.58	43.22	34.49	42.89	38.990

W. A.

RAINFALL at Pentland Hills, Loganlea DailyCounty of MidlothianObserver Messrs Leslie & Reid CE.River Basin Esk - 4

Rain Gauge, by _____

Diameter ...			5									
Height			1 0									
Altitude ...			850	811								
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	SUMS MEANS 1916-19	
January ...			2.01	2.44	2.79	2.58	5.78	4.05	2.64	3.44	15.9	
February ...			2.70	2.16	3.21	3.05	5.31	.63	4.59	2.38	12.91	
March			3.45	4.89	4.41	1.64	3.13	2.06	1.09	2.45	8.73	
April .....			.42	2.73	2.26	2.09	5.33	3.00	.99	4.98	14.30
May			1.60	2.05	2.81	1.63	5.35	2.05	3.06	1.00	11.46	
June			5.47	2.21	1.72	1.64	3.99	2.47	.93	2.42	9.81	
July			2.19	.50	3.73	5.25	5.91	2.13	3.85	1.36	13.25	
August			5.08	1.78	2.38	4.39	5.13	5.79	1.70	2.18	15.10	
September ..			4.04	2.23	1.03	2.61	1.84	2.18	5.38	3.62	13.02	
October ...			4.34	2.80	1.72	2.32	7.67	4.28	4.78	2.23	18.96	
November ..			2.62	3.33	5.23	1.97	5.86	3.62	2.14	5.14	16.76	
December...			6.00	2.32	5.36	6.19	4.27	2.16	2.53	3.90	12.86	
TOTALS ...			39.92	29.44	36.65	35.36	59.87	34.42	33.68	35.10	163.07	

D

D

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

RAINFALL at Pentland Hills. (Gogarba)County of MidlothianObserver Messrs. Lohia & Co. G.S.River Basin br - 4

Rain Gauge, by

Diameter ...	5											
Height	1.0											
Altitude ...	811											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS.	SVHS
January ...	3.68	4.78	2.47	2.21	3.37	4.95	4.04	3.37	7.71	1.23	4.09	41.90
February ...	2.53	.69	2.62	2.85	.85	5.65	3.13	1.39	3.24	1.01	.61	24.57
March	2.91	3.85	2.15	1.63	.93	2.59	2.31	3.23	1.94	.25	2.35	24.14
April	2.48	.78	2.30	2.39	1.66	4.82	1.91	1.86	.95	1.76	1.25	22.13
May	3.08	1.65	1.83	3.23	5.06	5.25	3.42	1.80	1.74	1.72	1.23	30.03
June	1.35	.29	1.69	1.41	2.58	.62	4.04	3.97	5.19	2.68	2.08	25.90
July	2.67	2.55	3.98	4.34	4.09	1.55	3.19	3.20	2.53	3.52	3.65	36.27
August	5.90	4.12	1.86	4.61	3.80	2.76	2.10	7.35	5.28	5.07	5.97	48.82
September...	1.33	1.48	1.95	3.28	4.16	4.65	3.43	9.46	2.97	.88	5.83	38.92
October .....	.72	3.12	2.16	3.43	3.75	2.35	4.80	4.22	3.88	3.73	3.73	35.89
November...	1.75	1.03	1.90	3.91	1.59	.69	4.40	3.17	4.01	4.93	4.91	32.29
December...	2.15	5.58	3.36	3.47	4.52	3.67	.98	1.58	3.04	5.53	1.89	35.77
TOTALS...	31.55	29.89	28.27	36.78	36.36	39.55	37.75	44.60	42.48	31.81	27.59	396.63

Site inspected by N. Mansford 16.9.29.

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 from gauge	Parish Church.	Distance from gauge	Direction from gauge

RAINFALL at Pentland Hills, Loganlea monthlyCounty of Midlothian ^{Dist. 4.} Observer Messrs Leslie & Reid C.E.River Basin North of Forth Riverbank ^{3.}

Rain Gauge, by _____

Diameter ...	8										
Height	14										
Altitude ...	850			813							
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	3.49	2.08	1.95	2.10	2.50	2.10	4.60	3.80	2.20	2.10	2692
February ...	3.85	3.61	2.60	2.00	2.80	2.50	4.30	1.80	4.40	1.90	2876
March	1.61	2.31	3.10	5.30	4.00	1.35	3.10	1.55	1.10	2.80	2622
April	4.43	2.43	.40	2.50	1.95	1.85	4.70	2.40	1.00	4.50	2616
May	2.27	1.44	1.60	1.85	2.50	1.60	5.10	1.80	2.80	1.10	2206
June	1.73	3.82	5.20	2.05	1.55	1.50	3.40	2.10	.90	2.05	2430
July	4.05	1.35	2.20	.50	3.20	4.70	5.20	2.00	3.80	1.10	2810
August	5.44	1.77	5.00	1.40	2.00	4.08	5.00	5.60	1.80	1.70	3379
September ..	.75	1.77	3.95	2.20	.85	2.60	1.70	1.95	5.20	3.15	2412
October ...	3.84	4.72	4.00	2.60	1.60	2.00	6.20	3.80	4.50	2.50	3576
November ..	3.08	7.54	2.40	3.10	4.30	1.85	6.80	3.00	2.10	5.50	3967
December ...	1.83	3.31	5.67	2.30	5.00	5.80	4.20	2.10	2.50	4.70	3741
TOTALS ...	36.37	36.15	38.07	27.90	32.25	31.93	54.30	30.90	32.30	33.10	35327

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

RAINFALL at *Portland Hills (Egonlea) i. M.*County of *Midlothian*Observer *Wm. Leslie Reid, C.E.*River Basin *22-4*

Rain Gauge, by _____

Diameter ...	8											
Height	1.4											
Altitude ...	813											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	
January ...	4.30	5.80	2.40	2.30	2.91	4.90	4.05	3.18	7.50	1.30	3.95	
February ...	3.80	90	2.40	2.60	.83	5.50	3.05	1.43	3.25	1.00	.65	
March	3.10	3.10	1.90	1.60	.90	2.40	2.20	3.35	2.05	.30	2.65	
April	4.10	.90	2.28	2.60	1.50	4.55	1.30	1.86	1.09	1.90	1.20	
May	3.60	1.80	1.70	3.20	4.80	5.20	3.55	1.75	1.85	1.75	1.15	
June	1.60	.25	1.74	1.50	2.45	.65	4.25	3.85	5.80	2.50	1.95	
July	3.90	2.60	4.35	4.50	3.90	1.65	3.00	3.85	2.60	2.60	3.75	
August	6.85	4.90	2.05	4.90	4.45	2.95	2.14	7.48	5.30	4.75	6.10	
September...	1.75	1.90	2.10	3.10	3.75	1.60	3.55	9.95	3.05	.45	5.55	
October .....	.90	4.40	2.31	3.20	3.45	2.30	4.40	4.25	3.95	3.90	3.80	
November...	2.80	1.50	2.00	3.80	1.45	.80	4.55	3.05	4.05	5.15	4.25	
December...	2.80	4.80	3.05	3.36	4.00	3.20	1.00	2.20	3.10	5.80	1.90	
TOTALS...	59.50	32.85	28.28	36.66	34.39	38.70	37.04	46.20	43.59	32.40	31.90	

1920 no data - check
 1924 N.P. - check gauge
 1925 N.P. - check g.
 1926 " " " "
 1927 " " " "
 1928 " " " "
 1929 " " " "
 1930 " " " "

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	Parish Church.	Distance from gauge	Direction

RAINFALL at Pentlands Hills (Loganlea)County of MidlothianObserver Messrs. Sealy & Reid, G.E.River Basin H - Esk.Edinburgh Water Engineering (1937)Type of Gauge StandardAnnual Average 38.5 in. based on 50 years obs. un-weighted. Period of average 1881-1915 Ref. Summary.computed x1/36.

Diameter	5"										
Height	1' 0"										
Altitude	811'										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	54HS Mean
January	2.00	4.98	4.43	4.31	1.35	3.07	3.38	5.75	5.69	1.00	37.96
February	2.60	.32	1.95	.16	3.53	3.65	5.22	1.50	3.17	1.08	28.18
March	.81	3.27	1.32	3.94	1.52	2.08	4.33	1.46	3.84	4.19	26.76
April	2.50	4.24	2.96	5.12	4.29	1.73	1.42	.29	1.87	2.87	27.29
May	2.91	4.20	1.84	1.96	.92	.89	2.92	4.11	1.07	2.01	22.83
June	5.04	1.27	2.27	3.31	2.49	2.31	1.44	5.61	2.04	.83	26.61
July	3.77	2.22	4.01	1.91	.98	5.60	5.30	3.72	2.68	7.06	37.25
August	5.56	.69	1.11	4.18	2.69	1.90	4.39	1.76	1.87	.89	25.04
September	1.83	3.71	2.06	2.74	4.30	3.20	2.80	3.14	2.10	3.07	28.95
October	2.53	7.30	2.56	4.82	7.83	3.25	4.43	7.08	2.78	3.01	45.59
November	4.74	3.08	1.38	2.63	5.36	3.69	.48	7.14	5.15	5.28	38.93
December	1.71	7.71	.91	4.40	1.26	2.66	4.01	3.85	1.60	3.25	31.36
TOTALS	36.00	42.99	26.80	39.48	36.52	36.03	40.12	45.41	33.86	34.54	37.75
	D.	D.	D.	D.	D.	D.	D.	D.	D.	D.	

1936. Hill 1900 ft. high 3070 S.E.
 Embankment 60 " 100 " S.W.
 Hill & House 100 " 30 " N.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
1936.			Glencorse	5 mi.	S.W.	Glencorse	5 mi.	W.

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

Station No. 5120
RAINFALL at Pentland Hills (Loganlea) **41**
 County of Midlothian Observer Edinburgh Water Engineer
 River Basin 4 - Esk
 Type of Gauge Snowdon

Annual Average 28.5 in. based on 50 years obs. un-weighted. Period of average 1881-1915 Ref. Survey

File No.

Diameter	5"				900	613					
Height	1'0"					1					
Altitude	811					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	5 yrs Means
January	2.36	5.00	3.25	2.30	3.60	3.17	3.11	7.28	3.74	2.04	36.45
February	7.04	1.79	2.65	1.52	4.25	1.92	(1.85)	3.63	2.83	4.84	32.32
March	3.26	1.45	2.14	.52	1.92	2.77	(5.19)	2.29	1.12	3.31	23.97
April	2.28	1.99	1.38	2.65	1.85	.91	5.39	2.79	2.40	3.48	25.12
May	3.80	2.17	2.95	3.26	4.72	2.09	3.10	2.03	2.68	1.95	29.75
June	0.67	1.34	2.47	3.56	2.41	2.41	2.48	4.92	1.21	1.50	22.97
July	3.51	3.81	3.18	2.63	2.66	4.52	2.66	2.63	2.10	3.37	31.13
August	4.12	3.55	4.82	2.73	4.34	4.78	.26	10.66	3.26	3.80	42.38
September	.98	3.99	2.41	5.71	4.40	4.87	2.35	3.49	2.48	6.68	37.36
October	4.13	4.25	4.82	3.16	4.36	.83	1.66	1.88	5.96	3.66	34.71
November	2.69	.91	1.47	7.61	.56	4.66	4.95	3.14	4.19	5.43	35.61
December	1.81	2.56	1.46	3.71	2.11	3.58	3.10	4.05	7.66	2.10	32.14
TOTALS	36.65 D	32.81 D	34.00 D	40.08 D	37.18 D	36.51 D	36.10 D	48.79 D	39.63 D	42.16 D	383.91

Gauge tested Aug. 1945 & found to have a slight leak - repaired immediately.

1947 Feb + Mar. adj for snow

30094

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. 5120

RAINFALL at Pentland Hills (Loganlea)

51

County of Midlothian

Observer Edinburgh Water Engineer

River Basin 4 Esk

Type of Gauge Snowdon

Annual Average 38.5 in. based on 50 years obs. un-weighted. Period of average 1881-1915 Ref. Survey
 " " 38.59 " " 41 " " within 1916-58. " " 1916-50 " " File No.

Diameter ...	5"				900	613					
Height ...	1' 0"					1				7"	
Altitude ...	811'					51					
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	4.35	3.35	0.66	3.89	2.22	2.08	5.18	2.42	1.35	3.82	
February ...	3.02	.46	1.18	2.28	2.01	2.76	3.33	2.98	.76	2.95	
March ...	3.93	1.52	.74	2.13	1.78	1.53	2.35	1.99	.90	1.66	
April ...	4.13	1.75	3.59	1.32	1.60	.82	1.12	2.43	2.43	1.52	
May ...	3.34	1.79	2.20	5.27	2.81	1.61	1.95	2.98	.88	.95	
June ...	2.30	2.93	1.82	2.77	.92	2.82	2.23	3.80	2.11	1.49	
July ...	3.23	2.49	4.76	2.22	2.61	5.74	5.53	6.50	3.49	3.18	
August ...	6.51	3.68	2.05	6.58	1.41	8.04	5.50	4.09	.63	4.03	
September ...	1.68	2.94	3.23	3.66	1.86	4.13	2.42	4.53	^{6.3} 3.62	1.88	
October ...	0.75	1.92	1.69	6.90	1.97	2.24	3.32	1.89	^{2.8} 6.39	3.50	
November ...	6.01	3.10	5.11	4.62	1.04	1.07	2.11	1.32	^{6.3} 4.21	3.69	
December ...	3.87	4.73	4.05	4.93	8.04	4.43	4.23	5.37	4.21	4.46	
TOTALS ...	43.12	30.66	31.08	46.57	27.67	37.27	39.27	40.30	26.80	33.13	
	D	D	D	D	D	D	D	D	D	D	

Ins. 27.7.69 Site on level ground at bottom of deep valley running ENE-WSW
 100' WSW of reservoir dam - risk of spray from res. with winds from SSW
 Best site available. Daily g. fair - slight leak at junction of funnel
 + vertical wall. 14. of run only?

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference NT(36)192626

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

Summary of Earlier Records from 10-year Sheets :

1916-1950, P- **Rejected**

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	C 1912	✓	✓	✓	✓
	- but D 14-19	✓	✓	✓	✓