

Balfour Castle
 3m NE of Kirkcudbright, Shipansay, Orkney
 Mps Return No 73

Diam 3 in + ground 6 in + Sea Level 70 feet

YEAR - -						1856	1857	1858	1859	MEANS.
January - -						0.0	3.10	2.20	2.80	
February - -						0.0	1.30	.30	2.00	
March - - -						0.0	1.50	2.50	3.50	
April - - -						0.0	.20	2.00	2.40	
May - - - -						0.0	.05	.40	.05	
June - - - -						0.0	.03	.80	1.90	
July - - - -						1.80	1.10	3.40	1.60	
August - - -						.05	1.90	2.20	1.50	
September -						1.60	1.40	2.40	1.70	
October - -						.00	.02	3.30	6.20	
November -						3.70	1.60	1.40	1.70	
December -						5.90	1.30	2.10	1.80	
TOTALS -						13.05	13.50	23.00	27.15	

1856 - Mr. Balfour says "there was no rain in the first 6 months of
 1856" - however at Sandwick they had 8.60 and at Bressay 8.30.

No rain first 6 mos of 56 - Letter

Hydro No 765745

RAINFALL AT *Shapinsay Balfour Castle*

Lat.....

Lon.....

County of.....

Orkney

Rain Gauge, by.....

Observer

C. D. Balfour Esq.

Diameter.....	.4										
Height.....	.6										
Altitude.....	50										
YEAR.....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....	2.30	3.30	5.30	2.10	5.00	5.60	2.50	3.40	2.00	1.10	3.260
February.....	2.10	3.30	3.10	1.0	1.20	1.20	2.20	3.40	.60	.40	1.760
March.....	1.00	1.50	1.60	1.90	2.70	5.0	4.60	2.00	1.90	1.50	1.920
April.....	3.00	1.30	3.10	.80	1.00	2.20	2.10	1.30	.10	1.30	1.620
May.....	1.70	.60	1.60	1.10	.60	1.00	1.20	1.80	1.90	2.40	1.390
June.....	1.00	.30	4.00	1.20	.80	1.00	1.00	2.60	1.20	.30	1.340
July.....	.40	2.30	2.10	2.00	1.90	2.50	2.10	1.60	1.20	1.90	1.800
August.....	.70	3.30	3.10	2.20	2.50	2.20	2.00	1.50	1.00	4.30	2.280
September.....	3.80	2.70	3.40	2.80	4.60	2.20	2.60	.40	4.60	2.20	2.930
October.....	2.30	2.30	6.20	6.20	3.70	2.20	5.10	3.40	4.30	3.80	3.940
November.....	3.00	1.90	5.10	4.70	3.50	4.10	6.00	4.90	4.10	3.20	4.130
December.....	7.30	3.60	6.20	4.20	3.20	2.10	4.30	2.80	4.20	2.20	4.010
TOTALS.....	29.60	26.40	44.80	29.30	30.70	26.80	35.70	29.10	27.10	24.60	30.410

1877 Balfour Castle is about 200 yards off & 79 ft high

Hydro No 765745

RAINFALL AT *Shapinsay, Balfour Castle*

Lat. _____

Lon. _____

County of *Orkney*

Rain Gauge, by _____

Observer *Col. Balfour*

Diameter	<i>4</i>										
Height	<i>0.6</i>										
Altitude	<i>50</i>										
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January	<i>2.30</i>	<i>.90</i>	<i>2.40</i>	<i>3.00</i>	<i>6.10</i>	<i>2.00</i>	<i>6.00</i>	<i>4.00</i>	<i>2.50</i>	<i>3.40</i>	<i>3.260</i>
February	<i>4.20</i>	<i>5.00</i>	<i>3.50</i>	<i>3.40</i>	<i>1.00</i>	<i>2.50</i>	<i>1.00</i>	<i>1.80</i>	<i>2.00</i>	<i>4.00</i>	<i>2.840</i>
March	<i>2.10</i>	<i>2.80</i>	<i>5.60</i>	<i>1.80</i>	<i>3.80</i>	<i>3.00</i>	<i>.80</i>	<i>1.30</i>	<i>2.60</i>	<i>3.50</i>	<i>2.730</i>
April	<i>1.30</i>	<i>1.00</i>	<i>2.00</i>	<i>1.90</i>	<i>.50</i>	<i>1.00</i>	<i>1.50</i>	<i>1.70</i>	<i>2.00</i>	<i>1.40</i>	<i>1.430</i>
May	<i>1.20</i>	<i>1.50</i>	<i>.80</i>	<i>2.80</i>	<i>1.80</i>	<i>1.60</i>	<i>2.40</i>	<i>.50</i>	<i>2.20</i>	<i>.40</i>	<i>1.520</i>
June	<i>1.50</i>	<i>1.80</i>	<i>2.80</i>	<i>.60</i>	<i>.80</i>	<i>3.00</i>	<i>1.50</i>	<i>1.20</i>	<i>.80</i>	<i>.30</i>	<i>1.430</i>
July	<i>2.00</i>	<i>4.50</i>	<i>2.20</i>	<i>1.60</i>	<i>1.60</i>	<i>1.50</i>	<i>3.50</i>	<i>3.00</i>	<i>1.90</i>	<i>.50</i>	<i>2.230</i>
August	<i>.20</i>	<i>1.80</i>	<i>1.40</i>	<i>3.60</i>	<i>2.60</i>	<i>1.10</i>	<i>1.60</i>	<i>1.40</i>	<i>2.50</i>	<i>5.80</i>	<i>2.200</i>
September	<i>4.60</i>	<i>.60</i>	<i>4.50</i>	<i>4.40</i>	<i>1.50</i>	<i>3.80</i>	<i>1.30</i>	<i>2.20</i>	<i>1.10</i>	<i>3.00</i>	<i>2.700</i>
October	<i>3.50</i>	<i>3.50</i>	<i>2.80</i>	<i>4.00</i>	<i>7.10</i>	<i>4.30</i>	<i>1.60</i>	<i>3.00</i>	<i>4.20</i>	<i>2.50</i>	<i>3.650</i>
November	<i>5.40</i>	<i>2.10</i>	<i>5.00</i>	<i>4.30</i>	<i>4.60</i>	<i>3.00</i>	<i>2.10</i>	<i>3.20</i>	<i>5.00</i>	<i>2.50</i>	<i>3.720</i>
December	<i>4.00</i>	<i>4.60</i>	<i>4.50</i>	<i>3.40</i>	<i>5.20</i>	<i>3.80</i>	<i>5.80</i>	<i>3.40</i>	<i>2.50</i>	<i>4.00</i>	<i>4.120</i>
TOTALS	<i>32.30</i>	<i>30.10</i>	<i>37.50</i>	<i>34.80</i>	<i>36.60</i>	<i>30.60</i>	<i>29.10</i>	<i>26.70</i>	<i>29.30</i>	<i>31.30</i>	<i>31.830</i>

*Shapinsay Church 2 miles E**Hydro No 765745*

RAINFALL AT *Shapinsay Balfour Castle*

Lat. _____

Lon. _____

County of *Orkney*

Rain Gauge, by _____

Observer *Mr Balfour*

Diameter	4	5									
Height	0	6	7	6							
Altitude	50										
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	4.00	2.60	^{5.76} 4.55	1.95	^{4.30} 3.35	4.35	3.21	2.50	3.81	^{4.03} 2.45	36.51
February	2.00	1.80	^{3.24} 2.46	2.84	^{4.20} 2.85	1.97	2.00	1.60	^{7.54} 4.36	^{1.50} 1.54	28.69
March	3.50	³ 3.30	^{1.53} 1.59	1.40	^{2.09} .65	2.45	2.48	3.40	^{4.33} 3.40	^{3.08} 2.84	27.56
April	1.00	.30	^{2.07} 1.70	.85	^{.22} .44	2.35	2.00	1.40	^{1.94} 2.72	^{2.21} 2.40	15.87
May	1.80	3.00	^{3.54} 3.36	.78	^{1.09} .88	.86	1.80	1.65	^{2.06} 2.85	^{2.40} 2.40	20.64
June	2.00	1.50	^{2.43} 1.85	.28	^{1.94} .89	1.82	2.25	.50	^{1.78} 1.00	^{1.53} .90	15.23
July	3.80	4.40	^{2.50} 2.16	3.25	^{3.65} 3.10	2.15	2.80	1.84	^{1.96} 2.00	^{2.08} 1.45	28.43
August	3.00	3.60	^{3.12} 2.50	2.26	^{3.45} 3.10	2.50	3.12	1.94	^{3.49} 2.80	^{1.22} 1.20	27.69
September...	3.60	2.95	^{3.63} 3.20	5.10	^{2.74} .00	2.40	5.00	4.50	^{4.40} 3.00	^{4.40} 4.12	34.57
October.....	6.00	2.52	^{4.30} 3.80	8.48	^{2.68} 2.83	4.80	5.54	3.20	^{3.60} 2.90	^{4.25} 3.60	45.37
November....	6.50	2.45	^{3.36} 2.72	4.48	^{1.78} 1.10	2.30	2.58	3.15	^{5.85} 4.40	^{4.37} 3.20	36.82
December ...	1.10	4.38	^{2.02} 2.61	4.15	^{3.64} .40	5.50	4.46	3.25	^{6.92} 5.42	^{4.56} 4.25	39.48
TOTALS	38.30	32.80	32.50	35.82	40.29	33.45	37.24	28.93	38.15	30.88	357.36

(37.50) ↑ (29.29)

(48.15) (35.88)

Months 1892, 4, 8, 9 allocated from Kirkwall gauge XI/36

1891 a New Gauge in July 5" diameter Height 7 inches
placed in same position as old

1894 Too small almost throughout, especially in March

May & December

Years struck out almost wrong. Decil figures
computed for anomaly VIII. 11

Hydro No 765745

RAINFALL AT *Shapinsay Balfour Castle*

Lat.

Lon.

County of *Orkney*

Rain Gauge, by

Observer *Mrs Balfour**Mr J. MacDonald**Mr W. Nichol*

Diameter ..	5										
Height	0 6										
Altitude ..	50										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	3.92	3.90	2.45	3.50	2.90	2.90	3.30	3.85	2.18	3.84	3.274
February ..	2.15	2.40	1.10	5.00	2.45	3.33	3.90	2.45	3.05	1.21	2.704
March	1.40	2.23	2.00	2.70	2.15	2.70	1.90	3.25	3.38	1.70	2.341
April	1.45	2.00	1.00	3.10	3.55	3.40	1.64	1.08	1.72	1.61	2.055
May	1.40	1.10	1.70	1.25	1.20	1.05	2.10	1.05	1.82	.85	1.352
June .....	.90	2.68	1.30	.92	1.50	.40	.30	2.29	1.59	2.31	1.419
July	2.96	1.20	2.15	2.80	.80	2.15	1.76	1.00	1.18	2.03	1.803
August	2.40	.40	1.60	5.10	2.65	3.15	2.40	2.89	1.55	2.25	2.439
September ..	2.73	1.45	2.38	2.65	2.40	2.61	2.68	.85	2.82	1.93	2.250
October	4.55	4.15	2.68	5.55	2.61	4.30	2.82	2.19	1.15	4.53	3.453
November ..	3.82	3.20	1.72	4.51	2.90	3.80	4.59	3.20	3.75	5.09	3.658
December ..	4.85	5.10	4.10	2.85	4.20	1.95	4.52	2.41	4.15	4.06	3.819
TOTALS ..	32.53	29.81	24.18	39.93	29.31	31.74	31.91	26.51	28.34	31.41	30.567

1907 *Shapinsay Ch 2 miles E*
Flag pole 20 ft high 20 yards W
Castle 100 " " 90 " N.W.
 1908 *2 small*

Hydro No. 765745

RAINFALL at

Shapinsay, Balfour Castle

5826

County of

Orkney

Observer

Mr. W. Liddell

River Basin

Rain Gauge, by

Diameter ...	5										
Height	0 6										
Altitude ...	50										16-19
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	4.05	2.95	2.02	1.65	2.75	3.75	5.20	4.00	1.90	2.75	1385
February ...	2.43	3.76	3.33	1.95	3.05	2.75	2.25	1.30	3.75	1.40	870
March	1.30	1.20	3.05	2.10	2.95	1.90	2.26	3.00	1.60	3.10	996
April	2.85	2.00	2.23	1.25	1.40	2.30	2.05	3.10	1.20	2.40	875
May .....	.95	1.40	3.13	1.47	1.85	.30	2.50	1.25	1.25	.30	530
June	1.52	1.75	1.04	2.20	1.05	.40	3.20	1.95	1.20	2.50	885
July	1.28	1.95	1.60	.50	2.00	1.61	1.20	.47	5.00	.80	747
August	3.03	3.02	3.72	.85	1.15	1.95	.80	2.05	4.50	7.00	1425
September ..	1.20	2.20	.90	1.77	2.25	2.95	1.85	3.75	3.80	3.50	1290
October ...	1.70	1.60	4.02	2.68	1.95	.80	5.22	6.85	2.60	2.30	1697
November ..	4.22	3.30	4.27	3.85	3.90	3.50	4.05	5.60	3.00	5.75	1930
December ..	2.55	3.35	4.02	4.05	3.40	7.15	11.20	2.50	5.05	5.50	1725
TOTALS ...	27.08	28.48	33.33	24.42	27.70	29.36	34.78	35.72	34.85	37.30	14265

16-19

Hydro No. 765 745

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

RAINFALL at *Shapinsay, Balfour Castle*County of *Orkney*Observer *Mr. W. Liddell*

River Basin _____

Rain Gauge, by _____

Diameter ...	5"			5"		5"						
Height	0 6			0 6		5"	0 6					
Altitude ...	50			50		50'						
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEAN:	
January ...	3.60	4.50	2.90	4.03	3.05	2.25	3.05	3.74	4.61	1.43	3.675	36.91
February ...	3.80	1.50	2.10	3.75	2.85	3.35	2.20	2.05	3.40	.90	.85	26.45
March	3.60	2.65	1.85	7.75	1.30	1.75	3.50	1.60	1.63	.47	2.45	21.25
April	2.00	1.30	2.70	2.40	1.75	2.50	2.20	5.10	1.30	1.67	1.45	24.37
May	3.05	1.80	2.60	3.70	1.73	2.05	1.25	1.25	1.30	.95	2.07	21.75
June	28	1.55	1.50	1.20	1.33	.90	1.40	2.13	1.60	1.90	2.20	15.99
July	2.45	1.70	2.75	2.05	2.20	1.50	1.10	1.35	2.35	1.03	1.80	26.28
August .....	.55	2.15	2.80	4.30	3.10	1.70	2.05	.75	.87	4.03	6.03	29.33
September...	2.60	2.50	2.70	3.76	4.20	4.02	3.70	2.45	1.90	5.65	4.20	37.48
October .....	.80	3.20	1.60	5.50	3.30	3.16	7.53	5.03	3.50	6.85	4.55	45.02
November...	5.00	2.75	2.90	6.35	2.40	2.18	3.60	3.55	3.50	3.95	3.85	40.03
December...	3.60	6.00	4.03	3.41	2.20	2.65	3.60	.72	3.73	7.03	4.30	41.27
TOTALS...	31.33	31.60	30.13	41.20	29.11	28.01	35.18	29.72	29.69	35.86	37.50	359.33

1921. *Balfour Castle* 150 yds. N.W.

Hydro No. 765745

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

RAINFALL at Shapinsay (Balfour Castle.)County of Kilbride Observer W. Siddle Dec 1938River Basin..... 9 W. SiddleType of Gauge Snowdon (1938)Annual Average 32.0 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. A.W. Sheet.

Diameter	5.										
Height	0.6								5		
Altitude	50.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	4.04	3.75	2.75	3.43	4.03	2.65	4.80	5.20	3.28	1.89	3582
February	4.94	5.4	4.45	2.92	3.03	2.03	3.40	2.50	2.20	1.90	2891
March	3.80	3.80	3.10	2.58	2.30	1.51	2.20	3.45	2.13	3.49	2826
April	1.60	4.12	2.50	4.84	3.33	1.01	1.60	1.25	1.04	2.74	2203
May	3.50	1.06	1.00	2.10	.57	1.12	.25	2.60	.60	1.45	1425
June	2.40	.38	0.98	1.05	.72	.89	2.60	4.10	1.16	.90	1517
July	2.05	2.48	1.67	3.05	2.60	3.50	1.51	1.60	4.00	4.27	2673
August .....	.40	2.40	1.30	3.10	3.03	2.02	1.52	1.15	1.48	4.10	2050
September .....	.55	3.46	1.00	3.10	4.50	2.77	2.60	1.90	1.30	3.81	2499
October	4.40	4.02	2.70	5.80	6.65	3.70	3.30	5.03	1.50	2.50	3960
November	3.40	3.98	3.30	3.10	6.03	2.50	2.00	5.37	4.70	4.49	3887
December	4.13	2.62	1.75	3.25	4.02	3.42	1.80	4.55	3.50	4.63	3367
TOTALS	35.21	52.61	26.50	38.32	40.81	28.12	26.58	38.70	26.88	36.17	32490
	M.		X								

1934. Balfour Castle 50 yds. N.W.

1936 Balfour Castle about 100' high 100 yds. N.W.

1938 Flag Pole 25 ft. high 27 yds. S.W.

10763

Hydro No. 765745

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
			Thurso			Shapinsay	2 1/2 m	E.

Station No.

5826

RAINFALL at Shapinsay (Bayan Castle)

41

County of OrkneyObserver Mr. J. W. Liddell

River Basin

Type of Gauge SnowdonAnnual Average 32.0 in. based on 35 years obs. ~~un~~-weighted. Period of average 1881-1915 Ref A.W. 201

File No.

Diameter	5"					765	745				
Height	0' 5"						1				
Altitude	50'						41				
Year	1941	X 1942	X 1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.90	5.09	2.70	5.02	(8.60)	(2.65)	2.78	3.79	6.87	4.55	38.95
February	2.83	2.45	5.34	2.74	(3.55)	(4.00)	.94	2.49	2.93	3.18	30.45
March	1.12	1.45	2.96	1.60	(2.50)	(2.00)	1.30	2.10	3.45	3.22	21.70
April	1.55	0.88	2.08	2.27	(3.05)	(2.00)	2.90	1.40	2.63	2.36	19.62
May	1.04	1.75	1.78	2.03	(2.00)	.80	.68	1.94	1.97	.75	14.74
June	0.40	1.18	1.50	3.20	(2.30)	(2.30)	1.56	1.60	1.07	3.14	18.25
July	2.52	2.10	2.61	1.05	(1.95)	(3.30)	1.20	1.28	1.14	2.94	19.99
August	2.80	2.50	2.28	1.37	(2.25)	(1.90)	.04	2.37	2.54	2.97	21.02
September	1.75	4.15	3.12	2.78	(2.25)	(3.40)	4.47	3.30	2.40	4.85	32.47
October	2.95	6.22	2.78	3.61	(3.70)	(.45)	2.14	5.46	3.40	3.05	33.75
November	4.10	2.12	4.30	4.45	(1.85)	(4.10)	4.30	2.44	3.80	4.37	35.83
December	5.45	4.66	4.25	4.40	(2.70)	(4.00)	4.21	4.50	4.56	3.93	45.66
TOTALS	28.41	34.05	35.70	34.52	30.60	30.90	26.52	32.66	36.76	39.31	332.43

1941 Flag pole 30' high 29 yds SW. Castle 70' high 100 yds NW.

1945 n.p. low gauge tested & found sound - interference suspected.

1946 n.p. low. Still subject to interference.

11114 11114

ENT 1000

for work in accy 1910-19

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.
						Shapinsay	2 1/2 mi	ENE.

BRITISH RAINFALL ORGANIZATION

Station No.

5826

RAINFALL at

Shapinsay (Balfour Castle)

51

County of

Orkney

Observer

H. J. W. Liddell

River Basin

Type of Gauge

Snowdon

Annual Average 32.0 in. based on 35 years obs. unweighted. Period of average 1881-1915 Ref. A.W.S.

33.27 - - - - 1916-1950

1916-1950

File No.

P

Diameter ...	5"				765	745					
Height ...	0'5"					1					
Altitude ...	50'					51					
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	3.25	4.28	4.80	2.80	2.55	3.52	3.82	6.25	4.62	2.01	
February ...	3.32	2.74	2.64	3.15	2.36	1.21	2.95	3.48	0.82	2.20	
March ...	3.95	3.01	1.30	2.25	1.24	2.08	4.15	2.64	0.68	1.72	
April ...	3.52	1.25	2.88	1.70	1.18	1.12	1.48	1.50	2.43	2.01	
May ...	1.20	2.48	2.04	2.30	1.36	2.52	1.95	2.56	1.66	1.40	
June ...	1.19	2.65	1.29	4.33	0.67	2.04	1.65	0.63	2.45	2.28	
July ...	2.59	1.87	1.59	2.03	0.18	3.52	3.33	1.90	2.40	1.34	
August ...	3.95	6.05	2.10	2.85	0.80	3.45	3.03	2.36	1.45	1.48	
September ...	1.14	3.54	2.89	4.08	4.18	2.75	4.37	1.17	0.79	1.19	
October ...	2.16	3.85	2.20	8.19	4.05	2.50	7.56	4.12	3.29	3.09	
November ...	7.20	3.80	5.64	6.48	1.45	2.55	2.26	2.02	3.60	2.25	
December ...	7.08	4.12	2.90	6.25	6.80	5.63	5.25	6.05	3.61	3.30	
TOTALS ...	39.55	39.64	32.27	46.41	26.82	33.89	41.80	34.70	27.40	24.27	
	M	M				ap. low		M	n.p.	n.p.	34.51

1941 Flagpole 30' high 29 yds SW. Castle 70' high 100 yds NW.

101 Sept 1959. g. moved 116' W'N

1959. n.p. low.

1960 n.p. low.

Position of Station on Ordnance One-Inch map :

No. of Map

National Grid Reference 310474165

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.
					Shapinsay	2 1/2 W ENE

Summary of Earlier Records from 10-year Sheets :

1916-1950, P- (8) accepted

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	✓	✓	1941-44 ✓ 1945-46 NP 1947-50 M	