

Rainfall at House of Tongue, Sutherland S 4

Observer R Horsburg X

Authority Mpt Dist No 67

John Crawford

Diam 3 in Gauge + Ground $1\frac{1}{2}$ in above Sea Level 330 ft

N. cont. 4.

YEAR - -	1850	1851	1852	1853	1854	1855	1856	1857	1858	1859	MEANS
January - -								4.80	5.90	4.40	
February - -								1.00	1.60	3.30	
March - - -								4.10	2.60	5.20	
April - - -								.90	3.00	3.90	
May - - -								.60	2.40	7.00	
June - - -								.50	2.50	1.60	
July - - -								3.20	6.50	3.00	
August - -							#	1.20	1.80	3.60	2.60
September -								5.60	3.40	2.00	3.50
October - -								.70	3.30	6.50	8.30
November -								8.50	2.00	3.30	1.90
December -								5.50	4.60	2.00	6.50
TOTALS -								50.20	11.90	46.20	

✓ ✓ ✓ ✓

John Crawford

X Rain fell on 9 days but none registered

+ Mr W Matheson for J Crawford Esq. Fording for Duke of Sutherland 1860

House of Tongue

E. 2 60

Sutherland.

John Crawford

Mt. Ket 11-67

1864

30 66 67

40 65

33 63 66 64

Drain 3 in. + Ground 1 1/2 in. + Sea Level 330 ft 62

N. Coast - 4.

Level 65-67

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	2.60	2.50	2.40	7.50	1.70	5.70	4.60	3.50	2.40	3.00	
February - -	2.50	2.00	1.20	3.30	12.70	1.90	7.50	4.00	6.50	6.50	
March - - -	3.80	5.40	8.80	2.50	4.30	6.20	3.40	5.00	2.80	2.30	
April - - -	1.00	1.40	2.80	4.80	.50	1.20	1.40	2.90	2.70	4.00	
May - - - -	3.40	1.00	2.50	2.50	2.00	.70	.90	.40	1.80	1.50	
June - - - -	2.80	.60	2.10	2.80	2.20	.30	2.00	3.00	1.20	.70	
July - - - -	1.40	6.00	3.00	.70	2.20	2.00	2.20	2.80	.30	2.00	
August - - -	5.30	5.40	1.60	3.20	1.20	1.70	2.80	1.80	8.00	1.30	
September -	4.30	5.20	.90	7.20	3.90	1.10	3.00	4.40	1.50	6.00	
October - -	6.70	2.20	5.90	2.70	4.60	3.50	3.50	5.20	4.50	4.90	
November -	2.50		3.30	3.60	4.80	2.40	10.00	2.00	3.50	0.40	
December -	5.00		3.00	.00	3.60	2.20	6.80	3.80	3.50	3.20	
TOTALS -	42.10		37.50	41.60	43.70	28.90	48.10	38.00	38.70	43.80	

see E. 2 C C C C C C C C

5 inches of rain and sleet fell in see hours on the 13th of Sept 1864 -

RAINFALL AT *Tongue House*

Lat.....

Lon.....

County of.....

Sutherland

Rain Gauge, by.....

Observer.....

J. Crawford Esq.

N. Coast - 14.

Diameter.....	4											3	
Height.....	1											5	
Altitude.....	33			40								45	
YEAR.....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.		
January.....	3.00	(1.90)	5.20	3.10						3.30			
February.....	2.80	2.00	.40	2.20						.60			
March.....	1.90	1.80	1.30	1.90	2.50					3.00			
April.....	2.50	1.70	1.70	1.40						.62			
May.....	1.40	.60	2.20	1.40	1.50					1.70			
June.....	1.20	.20	5.20	1.40	1.75					.90			
July.....	2.00	3.40	3.00	3.00						3.10			
August.....	.90	2.10	2.80	4.20						4.90			
September.....	0.10	2.60	3.00	5.70						1.00			
October.....	3.50	1.60	8.00	6.50						2.75			
November.....	3.20	2.50	3.40	-						2.52			
December.....	4.00	2.50	3.20	-						2.72			
TOTALS.....	35.10	(22.90)	39.40							27.11			

c c c

RAINFALL AT *Tongue, Talmine Melness*

Lat. _____

Lon. _____

County of *Sutherland*

Rain Gauge, by _____

Observer *Rev. Cathel Kerr*

N. Cont - 14.

Diameter									5			
Height										10		
Altitude										95		
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January									4.33	4.59		
February									8.58	1.25		
March									4.77	3.83		
April									2.73	2.54		
May									4.75	2.71		
June									2.31	1.43		
July									2.61	2.91		
August									3.56	1.79		
September . . .									3.62	6.45		
October									3.61	4.79		
November									4.44	6.30		
December									4.37	8.59		
TOTALS									55.79			

*Tongue Church 5 miles S
wall 4 ft high 20 ft S.W.*

RAINFALL AT Tongue, Melness Manse

Lat. _____

Lon. _____

County of Sutherland

Rain Gauge, by _____

Observer Rev. W. MacLeodNorth Coast Streams - 4.

Diameter ...											
Height											
Altitude ...											
Year ...	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ...											
February ...								3.74			
March								3.19			
April								1.98			
May								1.84			
June								5.01			
July								2.17			
August											
September ..											
October ...											
November ..											
December ...											
TOTALS ...											

W. M.

RAINFALL at Tongue ManseCounty of SutherlandObserver Scot. Meteorological Soc.River Basin North Coast Streams 4. Rev. David Lundie (1911)Snowdon Rain Gauge, by _____

Diameter ...	5										
Height	1	0									
Altitude ...	180	T									
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	4.15	2.35	3.00	1.65	3.71	3.63	5.25	5.08	4.17	2.49	
February ...	2.84	3.72	3.54	2.37	3.16	3.70	3.20	1.61	2.86	1.94	
March	2.15	2.80	4.14	3.16	3.83	3.32	2.56	2.20	1.96	3.99	
April	7.94	3.09	3.54	1.88	1.85	3.18	2.70	3.67	2.26	4.32	
May	1.98	1.77	2.53	2.37	3.22	1.48	3.86	1.61	1.75	.89	
June	1.35	3.66	3.27	2.81	1.40	.87	11.80	3.40	3.00	3.56	
July	3.23	3.03	2.31	.90	4.97	4.38	2.21	2.01	5.67	.77	
August	6.20	1.62	6.86	.86	2.92	3.08	.99	4.11	5.28	7.42	
September ..	1.64	3.61	2.09	2.99	3.67	6.06	2.01	4.59	4.91	4.77	
October ...	2.82	3.25	3.42	3.01	1.75	1.27	11.20	7.75	2.66	3.85	
November ..	6.79	5.50	5.10	5.26	5.91	4.15	11.90	7.42	2.47	6.56	
December ...	3.98	3.00	4.32	5.46	6.63	7.32	3.94	3.07	4.64	3.98	
TOTALS ...	4507	3740	4412	3275	43.02	4244	11062	46.52	41.63	44.52	44.809

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1913 trees 20 ft high 27 ft all directions

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911	58° 28'	4° 25' W	Lairg	39 mls.	S.	Tongue	200 yds. 150 yds.	NNW.

RAINFALL at Tongue HouseCounty of SutherlandObserver Rev David LundieRiver Basin North Coast Streams 4.my a Sargent (1920)Snowdon Rain Gauge, byRev W. J. Lundie (1929)

Diameter ...	5"			5							
Height	10			10							
Altitude ...	180			180							
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEANS.
January ...	3.66	5.29	3.78	4.44	2.49	4.35	2.67	4.51	7.61	2.08	3.73
February ...	4.68	1.34	1.65	2.59	3.21	5.21	2.33	1.25	4.39	.91	1.48
March	2.41	3.50	2.86	0.99	2.37	2.82	3.81	2.15	2.71	.58	2.48
April	3.10	1.39	4.41	4.22	2.51	3.09	1.91	4.97	1.81	2.14	.96
May	2.15	3.29	2.92	5.56	3.13	3.97	2.08	2.10	1.86	2.34	2.12
June	1.32	1.77	3.50	2.84	2.38	1.68	3.36	4.49	3.56	3.75	2.33
July	2.16	2.55	2.20	3.52	3.42	2.74	2.32	1.77	2.14	1.78	2.01
August	2.43	3.24	2.75	6.87	5.87	2.67	2.55	2.88	3.28	5.08	5.86
September...	3.85	4.59	2.35	3.35	6.32	5.25	3.50	5.71	2.57	4.77	2.63
October78	3.97	2.39	6.45	2.78	4.35	7.14	6.22	3.43	7.04	5.29
November...	4.08	2.14	3.03	4.67	2.00	3.22	3.04	4.83	5.42	3.21	7.41
December...	2.24	6.47	3.33	4.92	3.28	4.54	4.67	.90	3.44	6.20	2.78
TOTALS...	32.86	39.54	35.17	50.42	40.06	43.89	39.38	41.78	42.22	39.88	41.03.
	D	D	D	D	D	D	D	D	D	D	D

1920. Trees 12 ft high 27 ft W. others lower all round

1926. Gauge moved 11th Nov. to Tongue House 1 1/4 miles N.

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	58° 28'	4° 25'	Lairg	39 mi	S	Tongue	150 yds	NW

RAINFALL at LingueCounty of SutherlandObserver Rev. W. T. DundieRiver Basin W. North Coast StreamsRev. W. T. DundieType of Gauge M. O.Annual Average 41.0 in. based on 10 years obs. ~~un~~-weighted. Period of average 1881-1915 Ref. A.W. Shet.

Diameter	5.										
Height	1. 0.										
Altitude	180.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	6.61	5.91	3.11	3.17	3.63	5.62	3.28				
February	4.65	1.23	5.58	3.00	3.23	2.46	4.70				
March	2.10	4.11	1.83	3.13	3.29	1.33					
April	2.51	4.23	1.97	6.61	2.55	2.80					
May	3.71	2.34	1.40	2.56	1.61	1.26					
June	3.07	.63	1.93	1.78	2.95	1.03					
July	3.51	4.84	2.70	4.65	2.10	4.63					
August	1.08	3.24	4.76	4.95	4.81	3.08					
September	1.78	5.19	.92	2.26	6.40	3.65					
October	3.61	5.07	5.23	6.30	6.70	4.70					
November	2.04	4.34	3.00	2.89	2.42	2.75					
December	4.41	2.61	.84	2.95	4.17	3.90					
TOTALS	39.08	43.74	33.27	44.25	43.86	37.11					
	D.	D.	D.	D.	D.	D.					

1933. Tree 20' high 27' N.W. Record T. Feb 1937. See Encl. 1861 in F. 6087
 1936 Tree 24' high 27' 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	Parish Church.	Distance from gauge	Direction
			Lingue	39m	S.	Lingue	150yds.	N.W.

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

Station No. 5803

RAINFALL at Tongue

41

County of Sutherland

Observer Rev. H. A. M. Maclean.

River Basin 4- North Coast Streams

M. J. Campbell

Type of Gauge M.O. (anem.)

D. Murray Esq.

Annual Average 41.5 in. based on 4 years obs. un-weighted. Period of average against Kilmorack, Forres & Melnich. Ref.

File No.

Diameter	5"										
Height	1' 0"										
Altitude	40'										
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January						4.02	3.33	5.60	6.95	5.75	
February						5.36	1.88	4.02	4.29	3.70	
March						2.28	2.68	2.56	3.12	2.98	
April						3.13	3.30	2.45	3.70	5.51	
May						2.00	0.90	1.77	3.63	1.48	
June						2.76	3.76	2.79	1.13	2.86	
July						5.24	2.04	1.98	1.79	3.53	
August						3.68	0.27	4.16	4.85	1.88	
September						6.10	7.44	5.05	2.63	10.43	
October						2.80	5.57	3.67	3.77		
November						4.97	8.30	4.06	3.67	5.35	
December						3.31	4.82	4.58	8.56	5.70	
TOTALS						43.68	41.52	44.59	47.89	52.94	

1945 Wall 4' high 4" N Trees 15' high 18" E Wall 6' high 20" S Trees 25' high 25" W

Gauge moved 1st April 1947 1 mile N. In garden. No trees. Wall 12' high all round garden. N. Wall 2 1/2 yds. S. Wall 8 yds. E. Wall 40 yds. W. Wall 20 yds from 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	Parish Church.	Distance from gauge.	Direction
1945			Lairg	37m	S	Tongue	200'	NW
1947			Lairg	39m	N.W.?	Tongue	1m	N.

BRITISH RAINFALL ORGANIZATION

Station No. 5803

RAINFALL at Tongue

51

County of Sutherland Observer D Murray Esq.

River Basin 4 - North Coast Streams

Type of Gauge M.O. (on loan)

Annual Average 41.5 in. based on 11 years obs. un-weighted. Period of average 1881-1915 Ref. P.C. 543

63.3

against Rubra, Borpie
+ Melvich

File No.

Diameter ...	5"				750	432						
Height ...	1' 0"					1						
Altitude ...	40'					51						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	
January ...	3.87	5.97	3.13	3.01	2.67	5.63	4.77	4.59	7.59	4.04		
February ...	3.27	3.44	2.84	2.85	2.84	2.53	2.46	3.34	1.09	3.14		
March ...	3.71	3.42	2.23	2.17	2.48	1.68	4.56	1.56	1.24	1.16		
April ...	4.45	0.73	3.31	1.59	1.37	2.39	1.35	2.59	3.59	2.34		
May ...	0.63	2.48	2.56	3.55	3.59	2.15	1.84	6.03	1.97	1.59		
June ...	2.56	2.88	2.25	3.57	1.23	2.17	3.25	1.48	1.98	2.73		
July ...	2.64	1.87	3.70	4.13	0.60	7.42	5.48	1.50	6.05	1.90		
August ...	3.89	4.10	2.53	2.94	0.61	6.36	6.03	3.21	2.64	4.56		
September ...	1.57	3.96	3.42	3.71	4.54	1.65	2.99	1.30	1.62	1.63		
October ...	2.00	3.88	1.88	7.69	6.08	4.05	3.89	4.54	5.10	2.78		
November ...	6.56	5.85	4.73	4.30	2.94	3.95	3.18	2.11	5.15	1.61		
December ...	6.41	4.20	2.98	8.88	6.70	4.73	6.96	4.32	3.16	3.07		
TOTALS ...	41.56	42.78	35.56	47.89	35.45	44.71	46.76	36.94	41.16	30.55		
	D	D	D	D	D	0	D	D	D	D		

10

1947 Wall 12' high round garden No 28 yds. S wall 14 yds. W wall 20 yds. E wall 40 yds. from gauge
 In July 1957. G. not level. 3 1/2" wire fence runs E-W 4' South of gauge
 Nov 1957. G. moved 19' South of fence. 15
 225 wet days.

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference 29/586555

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.
1947			hairq	39W	Tongue	1W N

Summary of Earlier Records from 10-year Sheets :

S 826

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	1910-19	1920-30	1931-36	1945 map 1946 W 1947 W 1948-50 D	