

Gross Beta Activity in Land Plants  
Collected at Rongelap Atoll, September 1959

(Islands listed in order proceeding  
counter clockwise from Rongelap Island)

Rongelap Island

Genus	Tissue	No. of samples	Ave. d/m/g dry	Ave. μc/kg wet
<u>Artocarpus</u>	Leaves*	6	174	.034
	Skin	3	134	.011
	Edible	3	76.3	.0079
	Seed	1	60	.0061
<u>Cassytha</u>	Whole plant	1	137	.012
<u>Cordia</u>	Leaves	1	281	
<u>Cucurbita</u>	Leaves*	6	436	.086
	Flesh	1	690	
	Skin	3	496	
	Seed	2	58	
<u>Fimbristylis</u>	Leaves	6	149	.022
<u>Guettarda</u>	Leaves*	12	127	.014
<u>Ipomoea</u>	Leaves*	2	297	.018
<u>Lepturus</u>		9	163	.037
<u>Messerschmidia</u>	Leaves*	4	424	.033
<u>Ochrosia</u>	Leaves (basal only)	1	148	.015
<u>Pemphis</u>	Leaves	1	151	.036
	Live bark	1	546	
<u>Scaevola</u>	Leaves*	12	145	.011
	Bark	4	83	

\*Includes both basal and terminal foliage.

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Rongelap Island - (cont.)

Genus	Tissue	No. of samples	Ave. d/m/g dry	Ave. µc/kg wet
<u>Suriana</u>	Leaves	2	193	
	Live wood	2	262	
<u>Triumfetta</u>	Leaves*	4	322	.029

Rochi Island

Genus	Tissue	No. of samples	Ave. d/m/g dry	Ave. µc/kg wet
<u>Cordia</u>	Leaves*	2	462	
<u>Guettarda</u>	Leaves*	2	94	.010
<u>Messerschmidia</u>	Leaves*	2	224	.018
<u>Scaevola</u>	Leaves*	2	56	.0044

Eniaetok Island

Genus	Tissue	No. of samples	Ave. d/m/g dry	Ave. µc/kg wet
<u>Cucurbita</u>	Flesh	1	217	
	Leaves*	2	1610	.32
	Skin	1	587	
<u>Fimbristylis</u>	Leaves	1	737	.11
<u>Guettarda</u>	Leaves*	4	184	.020
<u>Ipomea</u>	Leaves*	4	344	.021
<u>Scaevola</u>	Leaves*	6	192	.015
<u>Triumfetta</u>	Leaves*	4	371	.033

\*Includes both basal and terminal.

Gogan Island

Genus	Tissue	No. of samples	Ave. d/m/g dry	Ave. $\mu\text{c/kg}$ wet
<u>Guettarda</u>	Leaves (Lower basal only)	1	269	.030
<u>Lepturus</u>		2	394	.090
<u>Messerschmidia</u>	Leaves*	2	694	.055
<u>Pemphis</u>	Leaves	1	146	.035
	Live twigs	1	199	
	Live bark	1	596	
	Dead bark	1	609	
<u>Pisonia</u>	Leaves*	2	501	.047
	Bark	1	977	
<u>Scaevola</u>	Leaves*	2	390	.031

Mellu Island

Genus	Tissue	No. of samples	Ave. d/m/g dry	Ave. $\mu\text{c/kg}$ wet
<u>Cordia</u>	Leaves*	2	811	
	Live bark	1	278	
	Dead bark	1	1195	
<u>Lepturus</u>		1	709	.16
<u>Messerschmidia</u>	Leaves*	4	750	.059
	Bark	1	200	
<u>Scaevola</u>	Leaves*	4	281	.022
	Bark	1	61	

\*Includes both basal and terminal.

Kabelle Island

Genus	Tissue	No. of samples	Ave. d/m/g dry	Ave. $\mu\text{c}/\text{kg}$ wet
<u>Boerhaavia</u>		5	795	.063
<u>Cordia</u>	Leaves*	2	708	.063
	Bark	1	225	
<u>Fimbristylis</u>	Leaves	1	429	.063
<u>Guettarda</u>	Leaves*	17	301	.033
<u>Lepturus</u>		9	809	.18
<u>Messerschmidia</u>	Leaves*	28	687	.054
	Bark	3	424	
<u>Pisonia</u>	Leaves*	16	826	.078
	Bark**	4	922	
<u>Scaevola</u>	Leaves*	26	491	.039
	Bark	5	310	
	Fruit	2	208	
<u>Triumfetta</u>	Leaves*	5	558	.050

Island 48

Genus	Tissue	No. of samples	Ave. d/m/g dry	Ave. $\mu\text{c}/\text{kg}$ wet
<u>Scaevola</u>	Leaves*	4	74	.0058

Gejen Island

Genus	Tissue	No. of samples	Ave. d/m/g dry	Ave. $\mu\text{c}/\text{kg}$ wet
<u>Cordia</u>	Leaves*	2	1076	
	Live bark	1	614	

\* Includes both basal and terminal

\*\*Bark samples were from "Hottest" specimens only. Leaf d/m/g (dry) average for same 4 specimens was 953.

## Gejen Island - (cont.)

Genus	Tissue	No. of samples	Ave. d/m/g dry	Ave. $\mu\text{c}/\text{kg}$ wet
<u>Guettarda</u>	Leaves (Upper only)	1	261	.029
<u>Lepturus</u>		1	1144	.26
<u>Pisonia</u>	Leaves (Terminal only)	1	700	.066
<u>Scaevola</u>	Leaves*	2	346	.027

Lomuilal Island

Genus	Tissue	No. of samples	Ave. d/m/g dry	Ave. $\mu\text{c}/\text{kg}$ wet
<u>Guettarda</u>	Leaves (Upper only)	1	391	.043
<u>Lepturus</u>		1	1640	.37
<u>Messerschmidia</u>	Leaves*	2	1220	.096
	Live bark	1	1627	
	Dead bark	1	1729	
<u>Scaevola</u>	Leaves*	2	489	.038
	Bark	1	394	
	Dead bark	1	342	
<u>Suriana</u>	Leaves	1	1156	
	Live wood	1	658	

Aerik Island

Genus	Tissue	No. of samples	Ave. d/m/g dry	Ave. $\mu\text{c}/\text{kg}$ wet
<u>Guettarda</u>	Leaves*	2	665	.074
<u>Scaevola</u>	Leaves*	2	668	.052

\*Includes both terminal and basal.

Naen Island

Genus	Tissue	No. of samples	Ave. d/m/g dry	Ave. µc/kg wet
<u>Guettarda</u>	Leaves*	3	524	.058
<u>Lepturus</u>		2	968	.22
<u>Messerschmidia</u>	Leaves*	4	1400	.11
<u>Scaevola</u>	Leaves*	4	556	.044
<u>Suriana</u>	Leaves	1	1922	
	Live wood	1	1059	

Burok Island

Genus	Tissue	No. of samples	Ave. d/m/g dry	Ave. µc/kg wet
<u>Fimbristylis</u>	Leaves	1	208	.031
<u>Guettarda</u>	Leaves*	2	124	.014
<u>Scaevola</u>	Leaves*	2	231	.018

Tufa Island

Genus	Tissue	No. of samples	Ave. d/m/g dry	Ave. µc/kg wet
<u>Lepturus</u>		1	193	.044
<u>Messerschmidia</u>	Leaves*	2	586	.046
<u>Pemphis</u>	Leaves	1	139	.033
	Live twigs	1	203	

\*Includes both basal and terminal.

Tufa Island - (cont.)

Genus	Tissue	No. of samples	Ave. d/m/g dry	Ave. $\mu\text{c}/\text{kg}$ wet
<u>Scaevola</u>	Leaves*	4	118	.0092
<u>Suriana</u>	Leaves	1	270	
	Live wood	1	120	
	Dead wood	1	133	

Arbar Island

Genus	Tissue	No. of samples	Ave. d/m/g dry	Ave. $\mu\text{c}/\text{kg}$ wet
<u>Messerschmidia</u>	Leaves*	2	206	.016
<u>Pisonia</u>	Leaves*	2	367	.035
<u>Scaevola</u>	Leaves*	2	124	.0097
<u>Suriana</u>	Leaves	1	223	
	Live wood	1	156	
	Dead wood	1	259	

\*Includes both basal and terminal.