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March 10, 1961

Dr. John N. Wolfe, Chief
Environmental Sciences Branch
Division of Biology and Medicine
U. S. Atomic Energy Commission
Washington 25, D. C.

Dear John:

Enclosed please find two copies each of results of strontium-90 and calcium analyses of Breadfruit and Squash collected at Rongelap Island.

Ralph Palumbo, Frank Lowman and I are leaving Seattle tomorrow enroute to Eniwetok and expect to arrive there on March 14. Art Welander, Stan Gessel and Dick Walker will join us at Eniwetok on the sixteenth or seventeenth.

Letters from Bob Hiatt indicate that all necessary arrangements for the trip have been made.

Sincerely,



Edward E. Held
Research Associate Professor

EEH

EEH:srl
Enclosures (2)

NMBZ

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Strontium-90 and Calcium in Squash Collected
at Rongelap Atoll, September 1959

Rongelap Island

Tissue	Sample no.	Sr ⁹⁰ d/m/g dry	Ca mg/gm dry	Strontium units
Flesh	1	22.0 ±1.1	8.24	1200± 60
Skin	1	14.7 ±0.39	1.37	4820±128
	2	15.8 ±0.75	3.04	2340±111
	3	4.14±0.17	2.09	892± 37
	Avg.	11.54	2.17	2684
Seed	1	1.85±0.14	1.84	453± 34
	2	3.39±0.15	0.958	1590± 71
	3	2.11±0.12	1.50	630± 36
	Avg.	2.45	1.43	891
Basal leaves	1	150±1	89.0	757± 48
	2	83.5 ±4.0	21.4	1761± 84
	3	87.3 ±3.4	27.2	1440± 56
	Avg.	106.9	45.9	1319
Terminal leaves	1	50.2 ±1.7	19.4	1160± 39
	2	30.2 ±0.1	10.2	1330± 42
	3	39.3 ±1.0	7.97	2220± 57
	Avg.	39.9	15.92	1570

Eniaetok Island

Flesh	27.5 ±0.68	3.18	3890± 96
Skin	64.4 ±8.6	13.9	2090
Basal leaves	848 ±53	109	3490±218
Terminal leaves	283 ±6.5	25.4	5010±115

Note: Errors given are based on the 95% counting error.

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Sr⁹⁰ and Calcium in Breadfruit (Artocarpus sp.)
 Samples Collected at Rongelap Island, September, 1959.

Tissue	Sample no.	Sr ⁹⁰ d/m/g dry	Ca mg/gm dry	Strontium units
Edible portion	1	0.53 ±0.07	0.711	340±44
	2	2.43 ±0.13	0.845	130±69
	3	3.00 ±0.24	1.523	890±71
	Avg.	1.98	1.026	453
Skin	1	0.58 ±0.07	1.34	190±24
	2	2.47 ±0.14	2.25	495±28
	3	6.63 ±0.40	2.65	1130±68
	Avg.	3.23	2.08	605
Basal leaves	1	28.1 ±0.67	40.1	309±7
	2	32.6 ±1.2	46.2	317±12
	3	79.8 ±3.4		
	Avg.	46.83	43.15	313
Terminal leaves	1	12.8 ±0.69	9.08	635±34
	2	11.9 ±0.48	6.55	821±33
	3	20.7 ±0.62	12.0	776±23
	Avg.	15.13	8.83	744
Seed	3	1.47 ±0.11	1.08	613±46

Note: Errors given are based on the 95% counting error.