

Strontium-90 and Total Calcium in Tacca  
Collected at Rongelap Atoll



			Date of analysis	Sr <sup>90</sup> (1) d/m/g dried	Sr <sup>90</sup> (1) μuc/g wet	Ca mg/g dried	Strontium units
<b>March 1958</b>							
corms	R 10a	Rongelap	Jan. 60	7.9±1.0	0.51±0.61	1.2	2600
	R 93a	Kabelle	Jan. 60	11.5±1.1	1.75±0.17	1.4	3600
	R122a	Eniaetok	Jan. 60	6.2±1.3	0.63±0.13	9.1	350
peels	R 10b	Rongelap	Jan. 60	11.5±1.6	0.46±0.24	4.3	1100
	R 93b	Kabelle	Jan. 60	67.5±19	2.8 ±0.4	7.1	1900
	R122b	Eniaetok	Jan. 60			4.9	
	R122b	"	Jan. 59	21 ±2	1.8 ±0.2	5.3	1800
centers	R 10c	Rongelap	Jan. 60	1.1±0.3	0.21±0.06	0.40	1200
	R 10c	"	Jan. 59	1.0±0.4	0.20±0.08	0.37	1200
	R 93c	Kabelle	Jan. 60			2.4	
	R 93c	"	Jan. 59	2.6±0.4	0.55±0.09	4.2	260
	R122c	Eniaetok	Jan. 60	2.0±0.8	0.25±0.10	0.4	2504
	R122c	"	Jan. 59	9.3±0.6	0.19±0.07	1.8	173
leaves	R 11	Rongelap	Jan. 60	1		20.1	
			Jan. 59	13 ±1	1.09±0.09	18.5	293
(native prep.)	R132	Rongelap	Jan. 59	0.3±0.3	0.13±0.23 <sup>(3)</sup>	0.6	0 <sup>(4)</sup>

(1) Errors given were obtained from counting error.  
 (2) Starch extracted by repeated washing.  
 (3) For this determination 7g dried sample were used.  
 (4) μuc/g dried; wet weight not available.

BEST COPY AVAILABLE

*See attached note*

Where samples were analyzed at two different times results from both analyses are given.

Total calcium was determined by  $\text{KMnO}_4$  titration of calcium oxalate in Dec. 59 and by EDTA titration using murexide indicator in Jan. 59. Calcium values are being rechecked where the discrepancy between the two analyses is greater than 10%.