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Median radionuclide concentration in coconuts at Bikini Island

Concentration, pCi/g

Island	Type	$^{239+240}\text{Pu}$			^{241}Am		
		Number	Meat	Fluid	Number	meat	fluid
Bikini	Drinking	3	1.7×10^{-5}	3.4×10^{-5}	2	1.8×10^{-5}	--
	Copra	14	1.5×10^{-5}	--	6	9.6×10^{-6}	--
Eneu	Drinking	10	1.4×10^{-5}	8.6×10^{-6}	7	1.1×10^{-5}	3.7×10^{-5}
	Copra	12	3.0×10^{-5}	--	7	1.1×10^{-5}	--

Pu intake from food consumption ^a

g/d Intake of food	Pu intake in fCi/d
2000	80
3000	120
4000	160

^a Assume coconut meat/fluid concentration of 4×10^{-5} pCi/g applies to entire diet.

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Concentration, pCi/g

Island	Type	Number	239+240p _u		241Am		
			Meat	Fluid	Number	Meat	Fluid
Bikini	Drinking	3	2.4x10 ⁻⁵	3.4x10 ⁻⁵	2	1.8x10 ⁻⁵	--
	Copra	14	1.6x10 ⁻⁵	--	6	1.3x10 ⁻⁵	--
Eneu	Drinking	10	3.8x10 ⁻⁵	1.0x10 ⁻⁵	7	1.6x10 ⁻⁵	4.2x10 ⁻⁵
	Copra	12	5.9x10 ⁻⁵	--	6	3.3x10 ⁻⁵	--

Transuranic concentrations in soil at Bikini Island

239+240 Pu concentration, pCi/g				
	239+240Pu		241Am	
	0-5 cm	5-10 cm	0-5 cm	5-10 cm
No. of Samples	67	67	118	115
Median	5.4	5.3	3.8	7.5
Mean	10	10	3.9	6.2

Pu intake from soil consumption

Pu intake in fCi/d		
Intake of soil g/d	Median	Mean
1	5,400	10,000
5	27,000	50,000
10	54,000	100,000
20	108,000	200,000

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Bikini	Drinking	3	1.7×10^{-5}	3.4×10^{-5}	2	1.8×10^{-5}	--
	Copra	14	1.5×10^{-5}	--	6	9.6×10^{-6}	--
Eneu	Drinking	10	1.4×10^{-5}	8.6×10^{-6}	7	1.1×10^{-5}	3.7×10^{-5}
	Copra	12	3.0×10^{-5}	8.6×10^{-6}	7	1.1×10^{-5}	3.7×10^{-5}

REPOSITORY PNNL
COLLECTION Marshall Islands
BOX No. 5690
FOLDER Enewetak

DOCUMENT DOES NOT CONTAIN ECI

Reviewed by D. Pruske Date 5/1/97