

ME

POPULATION DATA

September 10, 1980

People who returned - 140

409915

Deaths in 30 years  $\frac{164}{550} = \frac{x}{140}$ ,  $x = \underline{\underline{41.7}} \approx 40$

Births in 30 years  $\frac{1277}{550} = \frac{x}{140}$ ,  $x = \underline{\underline{325.}} \approx 300$

R

Population of 550

Deaths in 30 years = 164  $\approx$  160  
Births in 30 years = 1277  $\approx$  1300

Population of 235

Deaths in 30 years,  $\frac{164}{550} = \frac{x}{235}$ ,  $x = 70.07 \approx 70$

Births in 30 years,  $\frac{1277}{550} = \frac{x}{235}$ ,  $x = 545.62 \approx 550$

Population of 350

Deaths in 30 years,  $\frac{164}{550} = \frac{x}{350}$ ,  $x = 104.36 \approx 100$

Births in 30 years,  $\frac{1277}{550} = \frac{x}{350}$ ,  $x = 812.63 \approx 800$

REPOSITORY P. N. N. L.  
COLLECTION Marshall Islands  
BOX No. 5687  
FOLDER Trip to Majuro & Kili

Sept. 10, 1980

BIRTH DEFECTS

1	2	3	4	5	6	7	8
<u>Living Conditions</u>	<u>Initial Population</u>	<u># of Births in 30 Yr</u>	<u>Spontaneous Birth Defects (10.7%)</u>	<u>30-Yr Whole Body Dose (rem)</u>	<u>% Increase 0.2%/rem</u>	<u>No. of Increased Birth Defects</u>	<u>Value Us In Boo</u>
1	550	1300	139.1→140	2.8	.56	.78	.8
2	550	1300	139.1→140	5.4	1.08	1.51	2.
3	550	1300	140	24	4.8	6.72	7.
4	550	1300	140	44	8.8	12.32	12.
5	550	1300	140	3.2	.64	.896	1.
6	550	1300	140	5.9	1.18	1.65	2.
7	350	800	85.6→90	1.4	.28	.252	.3
8	350	800	85.6→90	2.8	.56	.50	.5
9	350	800	90	1.6	.32	.288	.3
10	350	800	90	3.0	.6	.54	.5
11	235	550	58.85→60	.96	.192	.1152	.1
12	235	550	58.85→60	1.9	.38	.228	.2
13	235	550	60	1.1	.22	.132	.1
14	235	550	60	2.0	.4	.24	.2

CANCER RISKS

1	2	3	4	5	6	7	8	9	10
Living Conditions	Initial Population	30-Yr Bone Marrow Dose (rem)	30-Yr Person (rem)	# of Births Expected in 30 Yr	30-Yr Dose (0.36 x Col. 3) (rem)	30-Yr Additional Person (rem)	Total Person (rem)	# Cancer Deaths $87 \times 10^{-6}$	Cancer Deaths $458 \times 10^{-6}$
ENEU-100%									
1. Imported food	550	3.0	1650	1300	1.08	1404	3054	.266	1.399
2. No imported food	550	6.0	3300	1300	2.16	2808	6108	.531	2.797
BIKINI-100%									
3. Imported food	550	25.	13750	1300	9.0	11700	25450	2.214	11.66
4. No imported food	550	47.	25850	1300	16.92	21996	47846	4.16	21.92
ENEU-330 days									
BIKINI-35 days									
5. Imported food	550	3.4	1870	1300	1.224	1591	3461	.301	1.585
6. No imported food	550	6.5	3575	1300	2.340	3042	6617	.576	3.03
ENEU-1 year on and 1 year off									
7. Imported food	350	1.5	525	800	.54	432	957	.083	.438
8. No imported food	350	3.1	1085	800	1.116	892.8	1978	.172	.906
ENEU-330 days									
BIKINI-35 days									
1 year on and 1 year off									
9. Imported food	350	1.7	595	800	.612	489.6	1085	.094	.497
10. No imported food	350	3.3	1155	800	1.188	950.4	2105	.183	.964
ENEU-1 year on and 2 years off									
11. Imported food	235	1.03	242	550	.371	203.9	446	.0388	0.204
12. No imported food	235	2.1	494	550	.756	415.8	909.8	.0792	.417
ENEU-330 days									
BIKINI-35 days									
1 year on and 2 years off									
13. Imported food	235	1.2	282	550	.432	237.6	520	.045	.238
14. No imported food	235	2.2	517	550	.792	435.6	952.6	.083	.436