

Sept 27, 1982 MT
Calculations

COLUMN WRITE @

	1	2	3	4	5
	1980 Stoll (population)	Highest dose to individual in 1 year (mrem)	30 year whole body dose mrem	30 year bone marrow dose (mrem)	30 year cancer 30 year incidence 30 year incidence Birth Defects
1	Ujelang (100)	20	130	150	0.002 - 0.01 0.0002 - 0.002
2	Wotho (76)	30	200	230	0.002 - 0.01 0.00002 - 0.003
3	Delingmae (100*)	230	1800	1800	0.02 - 0.2 0.002 - 0.03
4	Rongelap (233)	400	2500	3400	0.1 - 0.7 0.007 - 0.1
5	Rongerik (100*)	450	1800	3800	0.05 - 0.3 0.002 - 0.03
6	Fikiep (487)	80	560	600	0.04 - 0.3 0.003 - 0.05
7	Taka (100*)	20	140	190	0.002 - 0.02 0.0002 - 0.003
8	Jemo (100*)	60	440	500	0.006 - 0.04 0.0005 - 0.008
9	Utrik (328)	80	530	680	0.03 - 0.2 0.002 - 0.03
10	Bikar (100*)	170	520	690	0.02 - 0.1 0.0006 - 0.009
11	Ailuk (420)	90	660	690	0.04 - 0.2 0.003 - 0.05
12	Bigen, Ailuk A. (420)	280	660	1300	0.06 - 0.4 0.003 - 0.05
13	Mejd (329)	100	700	730	0.03 - 0.2 0.003 - 0.04

* For uninhabited islands, calculations were based on possibility of
100 people living there in the future

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Cancer Rate

COLUMN WRITE ®

	1	2	3	4	5
Atoll (1)	Initial Population (2)	30-year Bone Marrow dose (rem) (3)	30-year person rem (col 1 x col 2) (3)	No. of Births Expected in 30 years (3)	30-year dose (2.36 x col 2) (rem) (3)
30					
Rongelap (Rongelap)	200	3.4	680	400	1.22
(Mabua)		20.	4000.	"	7.2
(Rongelap)	130	3.4	442.	300	1.22
Likiep (Likiep)	600	.60	360.	1400	.216
Mejit	300	.73	219.	700	.263
Utirik (Am)	250	.72	180	580	.259
(Utirik)		.68	170		.2448
Ujilang	100	.15	15	230	.054
Ailuk (Kapeh)	400	2.5	1000	930	.9
(Bigen)	400	1.3	520	930	.468
(Berogao)	400	.82	320	930	.295
(Ailuk)	400	.69	276	930	.248
Wotho (Wotho)	100	.23	23	230	.0828
(Medjiron)	100	.33	33	230	.1188
(Kapten)	100	.20	20	230	.072
Taka (Taka)	100	.19	19	230	.068
Jemo	100	.50	50	"	.18
Bikan	100	1.5	150	"	.54
Rongrik (Rongrik)	100	3.8	380	"	1.368
Ailinginae (Kary)	100	1.8	180	"	.648

* Highest dose values were used. These were based on BNL

COLUMN WRITE

	6	7	8	9	10	11
	30-year additions Between years (Col. 4 X Col 5)	Total Person years (Col 3 + Col 6)	Number of Cancer Deaths			
			BEIR-I absolute (Col 8 X 10^{-6} per year)	BEIR-I relative (Col 9 X 10^{-6} per year)	BEIR-II absolute (Col 10 X 10^{-6} per year)	BEIR-II relative (Col 11 X 10^{-6} per year)
1	563	1243	.708	.569	.082	.534
2	3312	7312	.636	3.35	.49	3.14
3	366	808	.070	.370	.054	.347
4						
5						
6	302.4	662	.0576	.303	.044	.285
7						
8						
9						
10						
11	183.96	403	.035	.185	.027	.173
12						
13						
14						
15						
16	150.3	330	.0287	.151	.022	.142
17	141.98	312	.0271	.143	.021	.134
18						
19						
20						
21	12.4	27	.00235	.012	.0018	.012
22						
23						
24						
25						
26	837	1837	.1598	.841	.123	.79
27	435.24	955	.0831	.437	.064	.41
28	274.5	595	.0518	.273	.04	.256
29	231.	507	.0441	.232	.034	.218
30						
31	19	42	.00365	.019	.0028	.018
32	27.3	60	.00522	.027	.0040	.026
33	16.6	37	.00322	.017	.0025	.016
34						
35						
36	15.7	35	.00305	.016	.0023	.015
37	41.4	91	.00792	.042	.0061	.039
38	124.2	274	.0238	.125	.018	.118
39	314.6	695	.0665	.318	.047	.299
40	149.	329	.0286	.151	.022	.141

24																				24
25																				25
26		120		18		4.4														26
27		120		18		2.3														27
28		120		18		1.4														28
29		120		18		1.2														29
30																				30
31		30		4.5		.4														31
32		30		4.5		.58														32
33		30		4.5		.36														33
34																				34
35																				35
36		30		4.5		.33														36
37		30		4.5		.87														37
38		30		4.5		2.6														38
39		30		4.5		6.6														39
40		30		4.5		3.1														40

EXHIBIT NO. _____
FOLDER Calculations

DOCUMENT DOES NOT CONTAIN ECI

Reviewed by DJ Krowko Date 4/30/97