

Table 1. Summary of Estimated Radiation Dose Equivalents for [REDACTED], born [REDACTED], 1931

Location	Date	Test(s) with Potential of Causing Radiation Exposures at Location		Date	Postulated Thyroid Dose Equivalent from Inhalation (mrad) ^a	Postulated Thyroid Dose Equivalent from Milk Ingestion (rad)	Milk Shed Potentially Affected by Fallout
		Test Name	Operation or Series				
Las Vegas, NV	8/49-2/55	Fox	Tumbler-Snapper	5/25/52	--	0.66-2.7	Alamo, NV
		Ruth	Upshot-Knothole	3/31/53	<1	--	--
		Ray	Upshot-Knothole	4/11/53	1	--	--
		Badger	Upshot-Knothole	4/18/53	6.4	--	--
		Simon	Upshot-Knothole	4/25/53	--	17-67 ^b	Mesquite, NV
		Harry	Upshot-Knothole	5/19/53	<1	1.7-6.7 ^b	Mesquite, NV
		Climax	Upshot-Knothole	6/4/53	<1	0.68-2.7 ^b	Overton, NV
	8/55-3/56		NO TESTS		--	--	--
	1/57-8/62	Boltzman	Plumbbob	5/28/57	<1	--	--
		Franklin	Plumbbob	6/2/57	2.6	--	--
		Lassen	Plumbbob	6/5/57	<1	--	--
		Wilson	Plumbbob	6/18/57	<1	--	--

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		Test Name	Operation or Series				
		Priscilla	Plumbbob	6/24/57	<1	---	---
		Hood	Plumbbob	7/5/57	<1	---	---
		Diablo	Plumbbob	7/15/57	<1	---	---
		John	Plumbbob	7/19/57	<1	---	---
		Kepler	Plumbbob	7/24/57	<1	---	---
		Owens	Plumbbob	7/25/57	<1	---	---
		Stokes	Plumbbob	8/1/57	<1	---	---
		Shasta	Plumbbob	8/18/57	<1	---	---
		Doppler	Plumbbob	8/23/57	<1	---	---
		Franklin Prime	Plumbbob	8/30/57	<1	---	---
		Smoky	Plumbbob	8/31/57	1.2	---	---
		Galileo	Plumbbob	9/2/57	3.0	---	---
		Wheeler	Plumbbob	9/6/57	<1	---	---
		LaPlace	Plumbbob	9/8/57	<1	---	---
		Fizeau	Plumbbob	9/14/57	<1	---	---
		Newton	Plumbbob	9/16/57	<1	---	---
		Whitney	Plumbbob	9/23/57	<1	---	---

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		Test Name	Operation or Series				
		Charleston	Plumbbob	9/28/57	<1	--	
		Morgan	Plumbbob	10/7/57	<1	--	
		(19 Tests)	Hardtack II	10/18-10/30/58	6.8	--	
		Sanford	Hardtack II	10/26/58		0.17-0.67 ^b	Alamo, NV
Caliente, NV	8/62-8/69	(2 Tests)	Dominic II	7/11-7/14/62	--	0.011 ^c	Caliente, NV
		Bandicoot	Storax	10/19/62	<1	--	--
		Pin Stripe	Flintlock	4/25/66	<1	0.002 ^d	Caliente, NV
Las Vegas, NV	8/69-1/71		NONE				
Maximum Credible Dose Equivalent					<46	20-80	

^aAll dose equivalents calculated through August 1969 are based upon: (1) Gross beta radioactivity concentrations in air extrapolated to midpoint of collection or to peak of cloud passage; (2) maximum ratios of radioiodine to gross beta radioactivity derived from data in UCRL-50243, Fission Product Decay Chains, Vol. II, 3/31/67; (3) thyroid dose conversion factors in NERC-LV hand-out entitled, "Thyroid Dose Calculations," by D. E. Bernhardt, 4/4/71 (unpublished).

^bDose equivalents based upon open field gamma radiation levels, application of Knapp's correlation (TID-19266, Iodine in Fresh Milk and Human Thyroids Following a Single Deposition of Nuclear Fallout, USAEC, Washington, D.C., June 1963) of peak radioiodine concentrations in milk with open field gamma radiation readings at H+12 hours, and dose conversion factor of 1.6 mrad (for an adult) per 100 pCi/l peak ¹³¹I concentration in milk based upon FRC Report No. 5.

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^c Dose equivalent based upon: (1) time-integrated concentration of ¹³¹I summed from data reported in TID-18892, Off-Site Contamination from Nuclear Explosives at the Nevada Test Site, September 15, 1961-September 15, 1962, USAEC Division of Technical Information, Washington, D.C., and (2) ¹³¹I dose conversion factor derived by D. E. Bernhardt, op.cit.

^d D. E. Bernhardt, R. B. Evans, F. N. Buck, M. W. Carter, Hypothetical Thyroid Dose from NTS and NRDS Activities, 1963-1970, WERLV-539-5, Western Environmental Research Laboratory, Las Vegas, Nevada (unpublished).

DEPARTMENT OF THE ARMY