

**Populations of Workers at DOE Nuclear Facilities Included in Health Studies
(August, 1997)**

Site	Citation	Cohort Description	Date of VS Follow-Up	Number of Deaths	
				Males	Females
Oak Ridge Multi Site	Mortality Among Welders, Including a Group Exposed to Nickel Oxides (A Polednak, <i>Archives Envir Health</i> 1981)	1,059 white male welders employed between 1943 and 1973	Dec. 31, 1974	89 - all causes 15 - all cancers	-
	Poisson Regression of the Mortality Among a Cohort of World War II Nuclear Industry Workers (E Frome, DL Cragle, et al., 1990)	28,008 white males employed ≥ 1 month betw/ 1943 and 1947	Dec. 31, 1979	11,671 - all causes	-
Oak Ridge K-25 Facility	A Mortality Study of Employees of the Nuclear Industry in Oak Ridge, Tennessee (EL Frome, DL Cragle, JP Watkins, et al., unpublished 1995)	106,020 workers employed ≥ 30 days between 1943 and 1983 with no critical record errors	?	all causes: white - 22,724 non-white - 1,121 all cancers: white - 4,679 non-white - 202	all causes: white - 3,595 non-white - 542 all cancers: white - 1,124 non-white - 109
	Mortality Among Workers Employed Between 1945 and 1984 at a Uranium Gaseous Diffusion Facility (EA Deupree, SM Wells, JP Watkins, et al., unpublished 19XX)*	35,712 workers hired between 5/1/1943 and 12/31/1984 and worked ≥ 30 days	Dec. 31, 1989	white - 10,956 non-white - 370	white - 1,412 non-white - 110
Oak Ridge X-10 Facility	Job Factors, Radiation and Cancer Mortality at Oak Ridge National Laboratory: Follow-Up Thru 1984 (S Wing, CM Shy, JL Wood, et al., <i>Am J Indus Med</i> 1993)	8,318 white males hired between 1943 and 1972	Dec. 31, 1984	1,524 - all causes	-
Oak Ridge Y-12 Facility	Radiation Doses and Cause-Specific Mortality Among Workers at a Nuclear Materials Fabrication Plant (H Checkoway, N Pearce, DJ Crawford-Brown and DL Cragle, <i>Am J Epi</i> 1988)	6,781 white males who worked at the Y-12 Plant ≥ 30 days between May 4, 1947 and Dec. 31, 1974	Dec. 31, 1979 95.5% Follow-Up	862 - all causes 196 - all cancers	-

* Data taken from the Comprehensive Epidemiologic Data Resource (CEDR), May, 1995

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Linde Plant	Mortality Among Workers at a Uranium Processing Facility, the Linde Air Products Co. Ceramics Plant, 1943-1949 (EA Deupree, DL Cragle, RW McLain, et al., 1987)	995 white males employed \geq 30 days between 1943 and 1949	Dec. 31, 1979 Follow-Up: 94.3%	429 - all causes 74 - all cancers	-
		Mortality Through 1990 Among White Male Workers at the Los Alamos National Laboratory (LD Wiggs, EJ Johnson, CA Cox-DeVore, et al., <i>Health Physics</i> 1994)	15,727 white males hired < Jan. 1, 1978	Dec. 31, 1990	3,196 - all causes 732 - all cancers
Los Alamos National Laboratory	Mortality Among Females Employed by the Los Alamos National Lab. (L Wiggs, Ph.D. dissertation 1987)*	6,790 white females employed 1943 - 1978	Dec. 31, 1981	-	536 - all causes 182 - all cancers
Mallinckrodt Facility	Mortality Among Men Employed Between 1942 and 1946 at a Uranium Processing Plant*	2,542 white males employed for \geq 30 days between 1942 and 1946	Jan. 1, 1979	850 - all causes 233 - all cancers	-
Mound Plant	Mortality Among Workers Exposed to External Ionizing Radiation at a Nuclear Facility in Ohio (L Wiggs, C Cox-DeVore and GL Voelz, 1991)	3,229 white males employed between 1947 1979 and monitored for external radiation	Jan. 1, 1980	304 - all causes 66 - all cancers	-
		Mortality Among a Cohort of Workers Monitored for Po-210 Exposure: 1944-1972 (L Wiggs, D. Cragle, et al., 1991)	4,402 white males employed between 1942-1972	Jan. 1, 1984	All Employees 987 - all causes 213 - all cancers Po Exposed 566 - all causes 126 all cancers

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Site	Citation	Cohort Description	Date of VS Follow-Up	Number of		Deaths Females
				Males	Deaths Males	
Portsmouth Naval Shipyard	Cancer Mortality at a Naval Nuclear Shipyard (RA Rinsky, RD Zumwalde, RJ Waxweiler, et al., <i>Lancet</i> 1981)	24,545 white males employed betw/Jan. 1, 1952 & Aug. 15, 1977	Aug. 15, 1977	833 - all causes 201 - all cancers	-	-
Rock Flats Facility	Mortality Among Plutonium and Other Radiation Workers at a Plutonium Weapons Facility (GS Wilkinson, GL Tefjen, LD Wiggs, et al., <i>Am J Epi</i> 1987)	5,413 white males employed \geq 2 yrs between 1952 and 1979	Dec. 31, 1979	409 - all causes 95 - all cancers	-	-
Savannah River Facility	Mortality Among Workers at a Nuclear Fuels Production Facility: the Savannah River Site, 1952-1986 (DL Cragle, K Robertson-DeMers and JP Watkins, unpublished 19XX)*	9,860 white males employed \geq 90 days between 1952 and 1974	Dec. 31, 1986	1,722 - all causes 413 - all cancers	-	-
Zia Company	Mortality in an Ethnically Diverse Radiation Exposed Occupational Cohort (W Galke and E Johnson, unpublished)*	5,424 workers, including women and minorities hired before 1979	Dec. 31, 1984	1,430 - all causes 282 - all cancers	31 - all causes 11 - all cancers	

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Site	Citation	Cohort Description	Date of VS Follow-Up	Number of Males	Deaths Females
Fernald Site	CEDR B-1* An Epidemiologic Investigation of Nonmalignant Respiratory Disease Among Workers at a Uranium Mill. (Unpublished dissertation, 1983)*	4,014 white males employed betw/ 1951 and 1989 4,101 white males employed at least 3 mos. between 1/1/1952 and 12/31/1972	January 1, 1990	1,216 all causes 141 all cancers	

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**Summary of Years of Latency and Percent Dead By Year of Vital Status Follow-up
Among Health Studies Conducted at DOE Facilities**

Date of Vital Status Follow-Up	Site	Cohort Years of Employment	Range of Latency in Years	Percent Dead
1970 - 1975	Oak Ridge Multi Site	1943 - 1973	1-31	8
1976 - 1980	Linde Plant	1943 - 1949	30-36	43
	Mallinckrodt*	1942 - 1946	33-37	33
	Mound Plant	1947 - 1979	1-33	9
	Oak Ridge Multi Site	1943 - 1947	32-36	42
	Oak Ridge Y-12	1947 - 1974	5-32	13
	Portsmouth Naval	1952 - 1977	0-25	3
	Rocky Flats Facility	1952 - 1979	0-27	8
1981 - 1985	LANL*	1943 - 1978	3-38	8
	Mound Plant	1944 - 1972	12-40	22
	Oak Ridge X-10	1943 - 1972	12-41	18
	Zia Company*	?	?	27
1985 - 1990	LANL	hired < 1978	12-47	20
	Oak Ridge K-25*	1943 - 1984	5-46	36
	Savannah River*	1952 - 1974	12-34	17
	Fernald*	1951-1989	1-39	30

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