

## **ADVOCATES FOR THE DOWNWINDERS:**

**Reputable Scientist:** Linus Pauling, John Gofman, Earnest Sternglass, A. Tamplin and Thomas Mancuso.

**Lawyer:** Stewart Udall

**Politicians:** Orin Hatch, Dan Marriott and Jim Matheson

**Activist:** Paul Jacobs, Carl Johnson, Harvey Wasserman, Norman Solomon, and Preston Truman

**Authors:** Wasserman and Solomon, John Fuller, Harold Ball, Richard Miller, P. L. Fradkin, Carole Gallagher, and Stewart Udall.

**Documentaries:** *Paul Jacobs and the Nuclear Gang* (1979), *Clouds of Doubt* (1979), *Downwinders* (1981), *Cover-up at Ground Zero* (1994), *DONT* (2004), *Best Evidence: John Wayne's Death* (2007).

**Transcripts:** St. George Special Town Meeting (1979), Allen et. al. versus United States.

**Publication of Declassified Material:** Health Effects of Low-Level Radiation, Joint Hearings, 96th Congress, April 1979 (US Government Printing Office).

## **EPIDEMIC?**

Stewart Udall, 1994: *The Myths of August*: "...sturdy Mormon families struggling with tragedies inflicted by a cancer epidemic foisted on them by the AEC."

Utah Gov. Mike Leavitt, Nov. 9, 2000, in a letter to the Minnesota PUC: "Utahns have experienced an epidemic of cancer and other radiation-related illnesses as a result of radioactive fallout from the AEC nuclear weapons testing in the Fifties and Sixties."

Fradkin, page 38 of *Fallout: An American Nuclear Tragedy*: "Udall was quoted often in local newspapers that fall. After interviewing 125 people during four-day period in October 1978, the Washington lawyer said the enormity of the situation was shocking, cancer rates were three or four times greater than normal."

U.S. Representative Dan Marriott, October 27, 1978: said he wanted an explanation from the Federal Government on why southern Utah cancer rates were twice that of the rest of Utah.

U.S. Rep. Jim Matheson, April 28 2002:  
"In the late 1970s my father, Utah Gov.  
Scott M. Matheson, puzzled over an  
alarming number of cancer deaths  
among our family and friends in southern  
Utah. His hometown of Parowan saw 85-  
90 cancer deaths a year---an  
extraordinary rate for this predominantly  
Mormon population."

Cecil Adams, 1984 in his column  
appearing in 46 newspapers nationwide:  
"Thirty years later, however, half the  
residents of St. George had contracted  
cancer."

Deseret News Editorial, Feb. 15, 2001:

"...the federal government literally sacrifice the health of thousands of unsuspecting Utahns and Nevadans."

Dr. Warren Stucki, 2002: "During those twelve years and for decades after the tests went underground, leukemia deaths more than doubled in southern Utah, as did deaths from solid tumors."

Spectrum Editorial, April 11, 2006:

"Thousands of downwinders---who have suffered and died from various cancers and other life-threatening illnesses caused by nuclear fallout from the 1950s and 1960s---can attest to the government's past falsehoods."

People Magazine, Oct. 1, 1979:

“Reputable scientists now suspect that the tests caused a phenomenally high rate of cancer and thyroid disease among residents of St. George.”

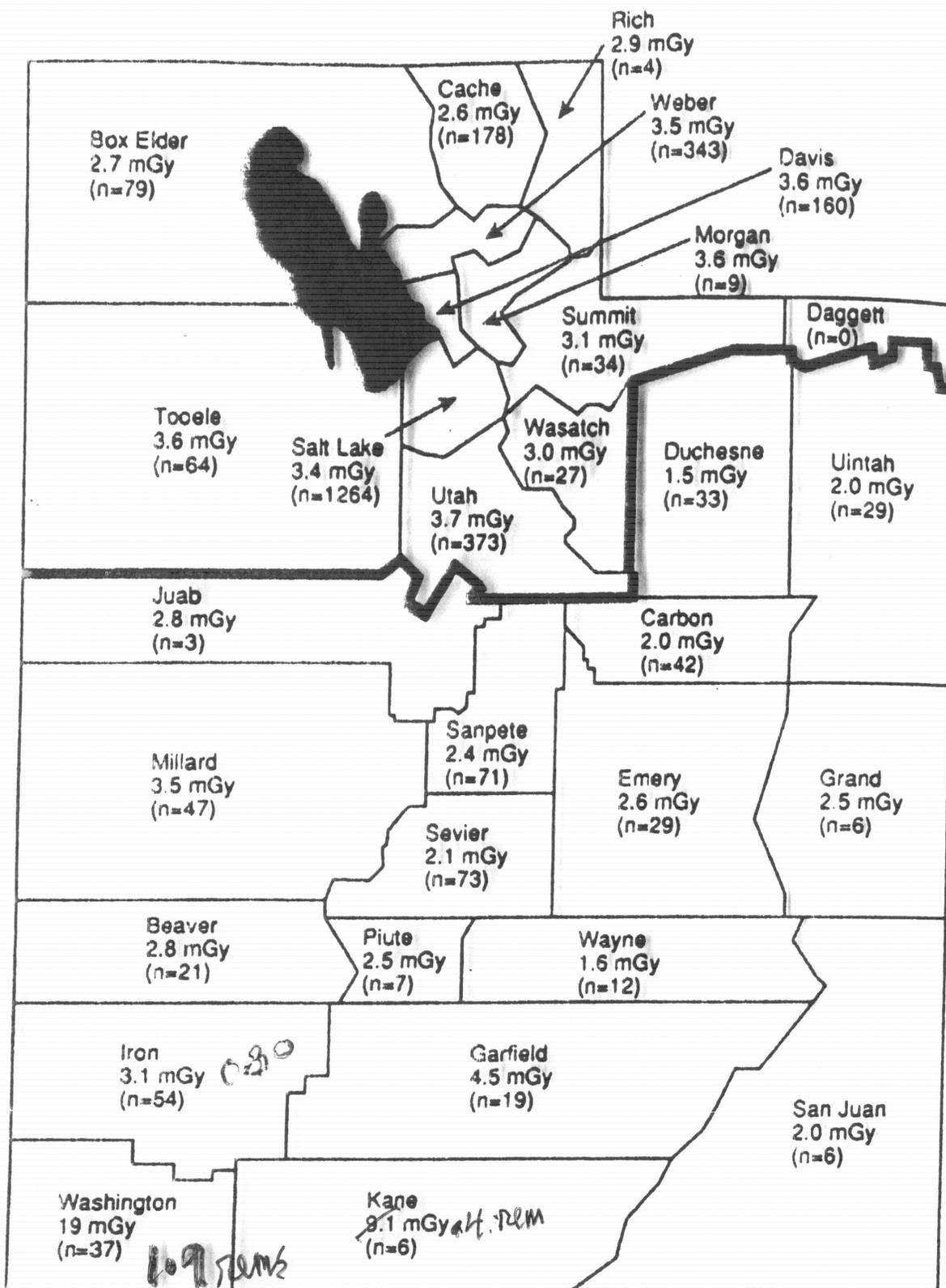
KUTV *Clouds of Doubt* documentary, 1979: “Twenty five year later an alarming number of people living in southwestern Utah are dead or dying from various forms of cancer. Now several scientists are accusing the government of leaving the American people with a terrible legacy that will affect the health of hundreds of thousands of Americans.”

Source: Dr. Ralph E. Lapp in *My Life With Radiation*, 1995:

*Cancer mortality other than leukemia for various dose intervals in rem.*

Dose	0	1-	10-19	20-49	50-99	100-199	200-299	300 +
Observed	2443	1665	416	537	330	221	78	54
Expected	2593	1688	414	520	290	156	42	40
Difference	-150	-23	+2	+17	+40	+65	+35	+14

The average dose for all the survivors is 16.2 rem. If we disregard those with zero dose, the mean is 29 rem. For the 6,671 survivors above 50 rem, the mean dose is 183 rem. It is in this population that radiation-induced cancers will concentrate.



**Figure 2.** Map of Utah counties, as divided by Lyon et al (N Engl J Med, 1979; 300:397-402) into northern, "low fallout" counties and southern, "high fallout" counties, which are separated by the heavy line. The entries below the name of each county give the average bone marrow doses in the later case-control study (Stevens et al, J Amer Med Assoc, 1990; 264:585-591), estimated for subjects who remained in a single county during the entire period of fallout (1952 to 1958). The absorbed dose estimates are based on an assumed shielding factor of 0.5.

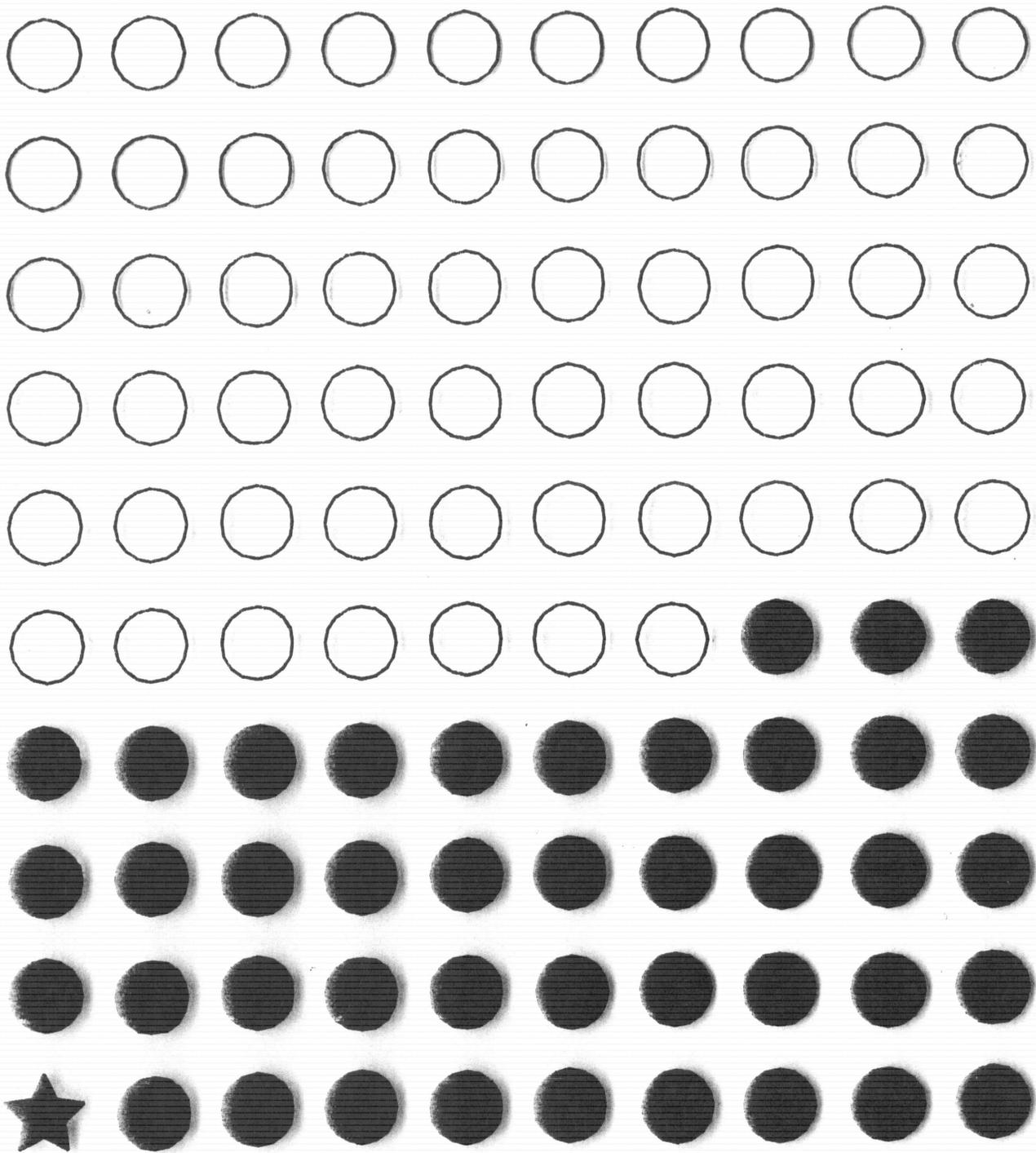


FIGURE PS-4 In a lifetime, approximately 42 (solid circles) of 100 people will be diagnosed with cancer (calculated from Table 12-4 of this report). Calculations in this report suggest that approximately one cancer (star) per 100 people could result from a single exposure to 0.1 Sv of low-LET radiation above background.

*10 REM = 10,000 MILLI REM*

\*\*D. West, L. Lyon, J. Gardner. "Cancer Risk Factors: An Analysis of Utah Mormons and Non-Mormons," J. Nat. Cancer Institute, Vol. 65, 1083-1095, 1980.

\*\*Utah Mormon Cancer Incidences from 1953 to 1978: 23 cases per 10,000 per year.

\*\*Expected Cancer Cases in Washington County Downwinders from 1953 to 1978:

$$23 \text{ cases (per year per 10,000 people)} \times 25 \text{ years} = 575$$

[1920, five of the leading causes of death were infectious diseases (67 deaths per 10,000 per year); cancer (6 deaths per 10,000 per year).]

[1980, Heart (34), Cancer (19), infectious diseases (2).] Wonder drugs discovered in the 1940s.

S. G. Machado, C.E. Land, and F. W.

McKay. Cancer Mortality and Radioactive Fallout in

Southwestern Utah. *Am. J. Epidemiol*, 1987; Vol 125, 44-61.

The exhaustive three-year study of three southwestern Utah counties, Iron, Kane, and Washington.

"The present study was conducted to see if the very high cancer risk reported by Johnson....,as ascertained from interviews of family members, could be confirmed from official mortality statistics. Our analysis indicates that it cannot...."

" Mortality from all cancer sites combined was significantly lower in southwestern Utah than in the remainder of the state.."

New York Times, November 8, 1982 in article titled *Cancer Rate Low, Fallout Trial Told*:

This article quoted part of the testimony given by Dr. Charles R. Smart who had been tracking the incidence of cancer since 1966 when he founded the Utah Cancer Registry. "The only way, I think, you can tell whether there are any cancers caused by radiation is if you find an excessive number, more than expected, and there aren't more than expected down there," he said, referring to southern Utah.

A common downwinders' claim is that X number of family members or Y number of people in their neighborhood have been afflicted with Cancer.

Such claims must be critically examined:

1. How many of these cancers are known to NOT be caused by radiation?

Examples: Cervic, Prostate, Pancreas, Kidney, Rectrum and Gall-Bladder Cancers.

2. How many of the cancer victims were born AFTER 1957?

3. How many of the cancer victims lived in Washington County during the period from 1953 to 1957?

4. What is the ratio of cancer victims relative to the rest of the sample?