



## U.S. Atlas of Nuclear Fallout, 1951-1970, Vol. 5: Calculations

By *Richard L. Miller*

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The U.S. Atlas of Nuclear Fallout 1951-1970 (Volume 5 of the series) details the math behind the values found in volumes 1-4. Broadly, the total fallout values and radioisotope values were calculated from ratios associated with a set of documents known as the Hicks Tables. These tables, compiled by Dr. Harry Hicks and published by the Lawrence Livermore National Laboratory, discuss radioisotope values for each of the major aboveground nuclear tests. In 1997 the National Cancer Institute published the results of a 15-year study titled, "Estimated Exposures and Thyroid Doses Received by the American People from Iodine-131 in Fallout Following Nevada Atmospheric Nuclear Bomb Tests." While the data was limited only to a single radioisotope, iodine-131, the Hicks Tables allowed estimates to be calculated for both total fallout and over 60 radioisotopes. The mathematical procedures associated with these estimates are found in this volume. The volume also includes an error propagation analysis by Dr. Stelu Deaconu of the University of Alabama's Propulsion Laboratory.

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From the Author

The U.S. ATLAS OF NUCLEAR FALLOUT 1951-1970 volumes are based upon U.S. Atomic Energy Commission data and maps from 1951-1962, data from the National Cancer Institute's 1997 publication, "Estimated Exposures and Thyroid Doses Received by the American People from Iodine-131 in Fallout Following Nevada Atmospheric Nuclear Bomb Tests, and "Results of Calculations of External Gamma-Radiation Exposure Rates from Fallout and the Related Radionuclide Compositions, Parts 1-8" by Harry G. Hicks, Lawrence Livermore Laboratories 1981.

About the Author

The author is an environmental researcher, industrial hygienist and safety professional who has studied nuclear fallout since 1982. Formerly an investigator with the U.S. Labor Department, he is coauthor of a 1980 epidemiological study of cancer in petrochemical workers that appeared in the American Journal of Industrial Medicine. The author served as an expert witness in a 2007 federal case involving the detonation of the 700-ton ammonium-nitrate and fuel oil device, Divine Strake. Many of the maps in Volume I of U.S. Atlas of Nuclear Fallout: 1951-1970 were introduced into evidence during the hearing on June 27, 2007.

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