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On the CDC public health emergency response Web site:
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Project Profiles - Hanford

Hanford

Spotlights

- ▶ [Hanford Thyroid Disease Study \(HTDS\) Final Report Released June 2002](#)
- ▶ [HTDS Summary in Spanish - El Resumen de HTDS en Español \(PDF\)](#)

Hanford Environmental Dose Reconstruction Project

CDC's work on the Hanford Environmental Dose Reconstruction (HEDR) Project represents the federal government's first comprehensive attempt to estimate the amount and type of radiation releases that people were exposed to during plant operations at the Hanford Nuclear Weapons Production facility in Washington State. The purpose of the study was to address community health concerns by estimating the amount and types of radioactive materials that were released to the environment (via air and river pathways) from the Hanford Site and by estimating radiation doses to representative individuals within the communities downwind from Hanford. CDC first became involved in the HEDR Project in 1992, when responsibility for the project was transferred from the Department of Energy to the Department of Health and Human Services.

CDC released the [first estimated dose results](#) in April 1994. Since then, CDC researchers have been using the mathematical computer model that was developed during the HEDR project to address remaining community and scientific concerns. The dose estimation methodology developed during the HEDR project also was used by investigators conducting the congressionally mandated Hanford Thyroid Disease Study (HTDS).

Hanford Thyroid Disease Study (HTDS)

[The Hanford Thyroid Disease Study](#) was mandated by Congress in 1988. It is the first epidemiologic study to examine whether rates of thyroid disease are higher than normal among people exposed to releases of radioactive iodine from the Hanford site during the period of highest releases, 1944 through 1957. The HTDS consists of 5,199 people identified from records of births during 1940-46 to mothers whose place of residence was in one of seven affected counties in the state of Washington, and the Final Report of the HTDS was released in 2002.

Other Hanford Research

Two additional reports related to Hanford radiation releases were completed in January 2003:

- [Methods For Estimating Radiation Doses From Short Lived Gaseous Radionuclides and Radioactive Particles Released To The Atmosphere During Early Hanford Operations](#) (PDF, 25.5 Mb)
- [A Risk-based Screening Analysis for Radionuclides Released to the Columbia](#)

[River from Past Activities at the U.S. Department of Energy Weapons Site in Hanford, Washington](#) (PDF, 9.3 Mb)

- o [Fact Sheet on the Columbia River Report](#) (PDF, 35 Kb)

Links to Related Websites and Resources

[Educational Videos to Help Physicians with Patients Exposed to I-131 at Hanford](#) (Agency for Toxic Substances and Disease Registry)

[Hanford Home Page](#) (Department of Energy)

[Hanford Advisory Board](#) (for environmental clean-up -- Superfund activities, DOE sponsored)

[Hanford Thyroid Disease Study \(HTDS\)](#) (at the Fred Hutchinson Cancer Research Center)

[American Thyroid Association](#)

[National Academy of Sciences Review of the Columbia River Dose report](#)

[Department of Energy Reading Room](#)

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