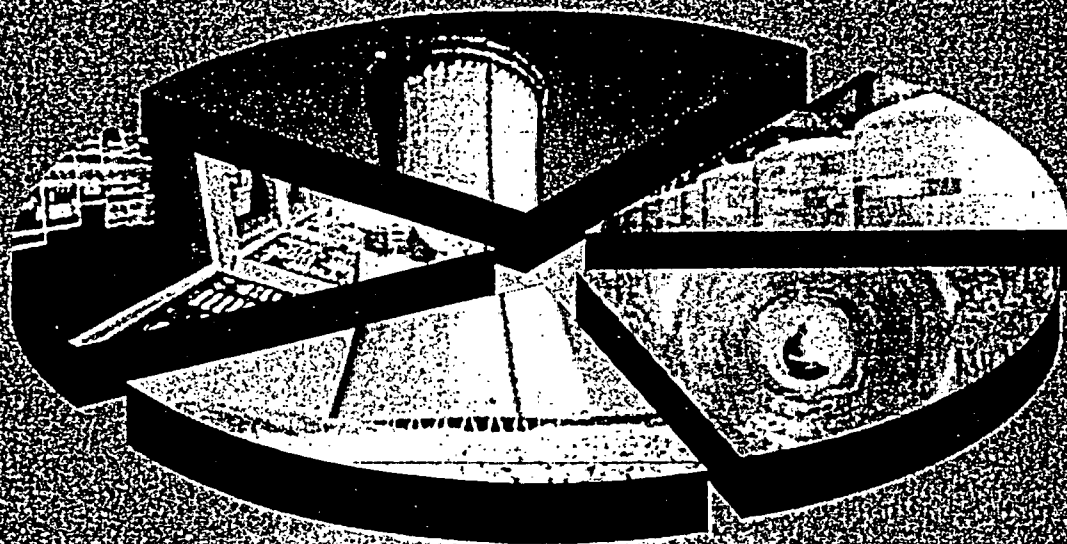


April 2001

*Summary Data on the*  
**RADIOACTIVE WASTE, SPENT NUCLEAR FUEL,  
AND CONTAMINATED MEDIA MANAGED BY  
THE U.S. DEPARTMENT OF ENERGY**

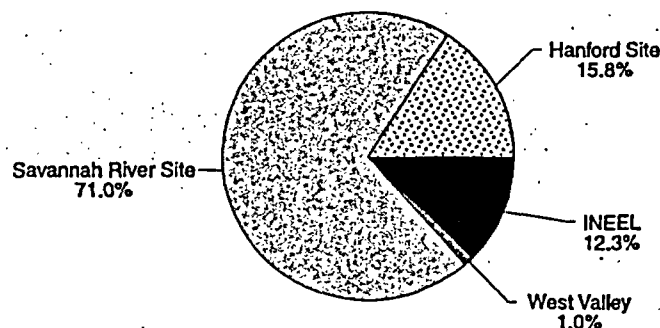


U.S. Department of Energy  
OFFICE OF ENVIRONMENTAL MANAGEMENT

## 4.6 HLW Radioactivity

Figure 4-16 and Table 4-16 provide data about the radioactivity (in number of curies) of HLW in inventory at the end of FY 1999. The curie data have been decayed to the end of FY 1999 and cover the inventory of both HLW and HLW-vitrified. Because no HLW has been permanently disposed of, these curie data provide a sound approximation of the total radioactivity of the HLW managed by the DOE.

**Figure 4-16**  
Sites' Relative Contributions to the Radioactivity of HLW in Inventory  
at the End of FY 1999



**Note:**

• At the end of FY 1999, the total reported amount of HLW in inventory was approximately 339,419 cubic meters and 960 canisters. The total radioactivity associated with this amount was approximately 2,133,934,875 curies. See Table 4-16 for further details.

**Table 4-16**  
Total Radioactivity of HLW and HLW-Vitrified in Inventory as of the End of FY 1999

State	Site	Site Code	HLW FY 1999 (cubic meters)	%1999 Total Volume	HLW-Vitrified FY 1999 (No. of canisters)	%1999 Total (No. of canisters)	Total Radioactivity* (curies)	% Total Radioactivity
ID	Idaho National Engineering and Environmental Laboratory	INEEL	9,357	2.8	-	-	300,123,817	12.3
NY	West Valley Demonstration Project	WVDP	109	<1	241	25.1	23,300,000	1.0
SC	Savannah River Site	SARS	130,051	38.3	719	74.9	1,727,162,799	71.0
WA	Hanford Site	HASI	199,902	58.9	-	-	383,472,076	15.8
<b>Total</b>			<b>339,419</b>	<b>100</b>	<b>960</b>	<b>100</b>	<b>2,434,058,692</b>	<b>100</b>

**Notes:**

- Hyphens indicate quantities of zero.
- Due to data rounding, the totals in this table may not equal the exact sum of the site-specific data.

\* Total radioactivity is based on both the volume (HLW) and number of canisters (HLW-vitrified) in inventory at the end of FY 1999 and is decayed to 1999.

Sources: 1) FY 2000 DOE EM Corporate Database; 2) U.S. Department of Energy, Office of Civilian Radioactive Waste Management, *Draft Environmental Impact Statement for a Geologic Repository for the Disposal of Spent Nuclear Fuel and High-Level Radioactive Waste at Yucca Mountain, Nye County, Nevada*, DOE/EIS-0250D (July 1999); 3) U.S. Department of Energy, Office of Environmental Management, *Integrated Data Base Report—1996: U.S. Spent Nuclear Fuel and Radioactive Waste Inventories, Projections, and Characteristics*, DOE/RW-0006, Rev. 13 (December 1997); and 4) Expert consultations, as necessary.