

Site (Data) : Hanford

Stock of waste as at December 2007

Country: UNITED STATES OF AMERICA

Reporting Year: 2007

Site Name: Hanford

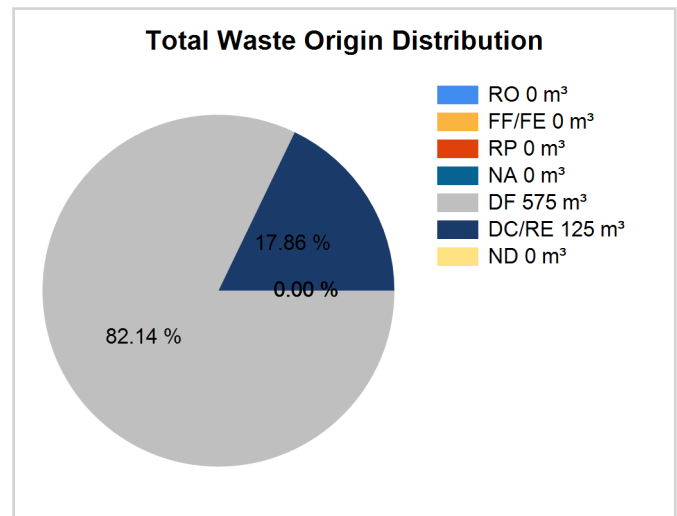
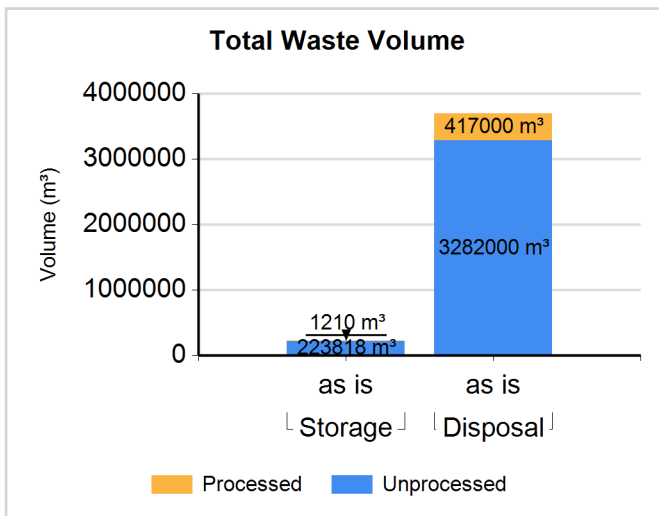
Full Name: Hanford Site

Inventory Reporting Date: December 2007

Waste Matrix Used: USDOE

Waste Inventory

Est=distribution is an estimate, Proc.=Is the waste processed (Yes/No)? RO=Reactor Operations, FF/FE=Fuel Fabrication/Fuel Enrichment, RP=Reprocessing, NA=Nuclear Applications,DF=Defence, DC/RE=Decommissioning/Remediation, ND=Not Determined



Note: where volume "as dispo" is provided, volume "as is" is used in the graph instead.

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Waste Class: HLW

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
HLW	Storage / TankFarms	N	N	207198.000	207198.000	0.00	0.00	0.00	0.00	100.00	0.00	0.00

Waste Class: TRU

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
TRU	Storage	N	N	15200.000	15200.000	0.00	0.00	0.00	0.00	100.00	0.00	0.00

Comment **# 5682: Required processing**

Legacy wastes stored in drums, boxes, and tanks. May have been processed prior to storage, but will require some processing, e.g. repackaging, prior to shipment.

Waste Class: LLW

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
LLW	Storage	N	N	1420.000	1420.000	0.00	0.00	0.00	0.00	100.00	0.00	0.00
LLW	Storage	Y	N	1210.000	1210.000	0.00	0.00	0.00	0.00	100.00	0.00	0.00
LLW	Disposal / ERDF	N	N	3282000.000	3282000.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00
LLW	Disposal / LLWdisp	Y	Y	310000.000	310000.000	0.00	0.00	0.00	0.00	80.00	20.00	0.00
LLW	Disposal / MLLWdisp	Y	Y	107000.000	107000.000	0.00	0.00	0.00	0.00	95.00	5.00	0.00

Comment **# 7412: LLW storage numbers**

The unprocessed inventory reported is mixed LLW; the processed inventory is non-mixed LLW.

Processing - Treatment method(s)

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Compaction	N	N	Same	N
Decontamination	N	N	Same	N
Evaporation	N	N	Same	N
Filtration	N	N	Same	N
Wastewater Treatment	N	N	Same	N

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Spent Sources <=30 years in Storage

Nuclide	Number of Sources/Total Activity of Sources (GBq)			c o n d	u n c o n d	c a t	Total Activity for all Groups (GBq)	Decay Date
	Group I less than or equal 4GBq	Group II more than 4GBq but less than or equal 4E+4GBq	Group III more than 4E+4GBq					
	num/activity	num/activity	num/activity					
Cs-137			1328	N	Y	Y	2.000E+009	1996.06
			2.000E+009					
Sr-90			601	N	Y	Y	8.500E+008	1996.06
			8.500E+008					

Comment **# 7358: Source description**

These sources contain separated cesium and strontium in large quantities and therefore category 1 was chosen to represent them.