

HAZARDOUS WASTE MANAGEMENT IN IDAHO 2015

INTRODUCTION

This report covers the time period from January 1 through December 31, 2015. It describes the types and amounts of hazardous waste generated in Idaho, how this waste was managed, and any waste remaining on-site. The report also discusses the types and amounts of hazardous waste sent to Idaho. This information is compiled by the Idaho Department of Environmental Quality (DEQ) from the Idaho Hazardous Waste Generator Annual Reports submitted by Large and Small Quantity Hazardous Waste Generators (LQGs and SQGs), as required by Idaho Code Section 39-4411(4) of the Idaho Hazardous Waste Management Act (HWMA), and from reports submitted by commercial hazardous waste disposal facilities, as required by Idaho Code Section 39-4411(5). This report is distributed to the Governor, Legislature, and the public of Idaho to present an annual overview of Idaho hazardous waste management activities. Additional information regarding DEQ may be found at <http://www.deq.idaho.gov>.

The Idaho DEQ contributes to the national overview of hazardous waste management activities through federal biennial reporting and the Resource Conservation and Recovery Act Information System (RCRAInfo). The federal Biennial Report describes national hazardous waste activities as reported by LQGs and Treatment, Storage, and Disposal (TSD) facilities every other year. RCRAInfo assigns hazardous waste facility identification numbers and tracks hazardous waste permitting, enforcement, and corrective action at hazardous waste generation facilities. Biennial reporting and RCRAInfo are used by the U.S. Environmental Protection Agency (EPA) to track and report national hazardous waste activities to the President, U.S. Congress, and the public. This information may also be accessed through the Internet at either of the following sites: http://www.epa.gov/enviro/index_java.html; or <http://www.epa.gov/r10earth/>.

GENERATOR IMPROVEMENTS & PHARMACEUTICALS RULES

Two proposed rules of interest and potential impact to hazardous waste generators were published in the Federal Register on September 25, 2015. These two rules were the Hazardous Waste Generator Improvements Proposed Rule and the Management Standards for Hazardous Waste Pharmaceuticals Proposed Rule. Comments were due to EPA by December 24, 2015.

In the Generator Improvements Rule, EPA proposes to revise certain components of the hazardous waste generator regulatory program; address gaps in the regulations; provide greater flexibility for hazardous waste generators to manage their hazardous waste in a cost-effective and protective manner; reorganize the hazardous waste generator regulations to make them more user-friendly, and improve the usability and readability of the regulations.

The Pharmaceuticals Rule proposes to improve the management and disposal of hazardous waste pharmaceuticals with regulations tailored to specifically address the issues that hospitals, pharmacies, and other health-care related facilities face, including reverse distribution.

The proposed rules, related documents, and comments received can be viewed through the federal eRulemaking portal at <http://www.regulations.gov> under Docket No. EPA-HQ-RCRA-2012-0121 for the Generator Improvements Rule and Docket No. EPA-HQ-RCRA-2007-0932 for the Pharmaceuticals Rule.

EPA is working toward having final versions of these two rules issued before the end of 2016. It would likely be 2018 before the rules would be effective in Idaho.

THE REPORT

As reported by Idaho LQGs and SQGs, there was 7,985 tons of hazardous waste generated in Idaho during 2015. The wastes fall in the following categories:

OTHER WASTES – 2,031 Tons

This waste includes discarded commercial chemicals (15 tons), universal wastes (274 tons), and miscellaneous listed wastes (1,728 tons).

MIXED WASTES – 1,955 Tons

This waste is both hazardous and radioactive. For the year 2015, most mixed waste was generated and stored at the INL.

CHARACTERISTIC WASTES – 1,680 Tons

This waste is hazardous because it contains one or more characteristic of ignitability, corrosivity, reactivity, or toxicity.

TREATMENT, STORAGE, AND DISPOSAL (TSD)

WASTES – 1,451 Tons

This hazardous waste is generated from residuals and collection systems at permitted TSD facilities and hazardous waste landfills.

SOLVENT WASTES – 439 Tons

Spent solvents are generated by various industry and business activities, such as parts de-greasing, painting, various manufacturing processes, and dry cleaning.

REMEDIATION WASTES – 428 Tons

Most remediation wastes are generated from the cleanup of contaminated sites (Superfund and other sites), performing corrective action, and/or removing and upgrading underground storage tanks.

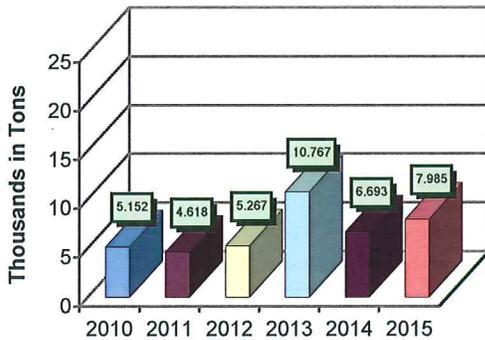
TRENDS IN IDAHO WASTE GENERATION

The amount of hazardous waste generated in Idaho, as reported by Idaho LQGs and SQGs, increased somewhat from 6,693 tons in 2014 to 7,985 tons in 2015, an increase of 19%. Four of the six hazardous waste categories listed on the front page show an increase from 2014 amounts.

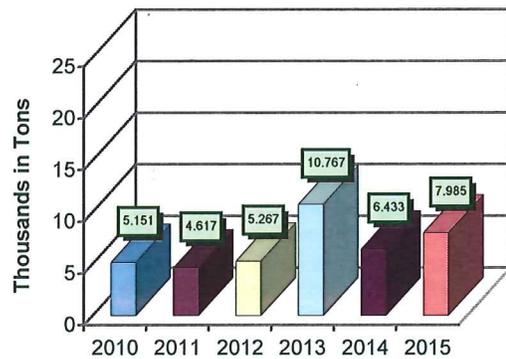
The four categories reflecting an increase are Other Wastes (partially due to increased Universal Waste Management), Mixed Wastes, Remediation Wastes, and Solvent Wastes. The two categories reflecting a decrease are Characteristic Wastes and TSD Waste.

It would appear that public health and the environment of Idaho continue to benefit from continued business waste minimization practices, such as recycling and distillation.

**Total Hazardous Waste Generation in Idaho
2010-2015**



**Non-wastewater Hazardous Waste Generation
Per Year in Idaho**



WASTE SENT TO IDAHO IN 2015

The only commercial hazardous waste landfill operating in Idaho is the US Ecology Idaho, Inc. site in Owyhee County near Grand View, Idaho. Traditionally, waste received at US Ecology Idaho has been reported in the following three (3) categories:

- RCRA - This waste is defined by the federal Resource Conservation & Recovery Act (RCRA) and HWMA as hazardous. It is regulated by Idaho and the federal government.
- PCB - This waste is defined as a toxic substance by the federal Toxic Substance Control Act (TSCA). Currently, this waste is regulated in Idaho only by the federal government.
- Non-Haz¹ - This category includes both non-hazardous waste and waste regulated as manifested state hazardous wastes by other states (including FUSRAP/NORM wastes) and must be disposed in a permitted RCRA hazardous waste disposal facility when shipped to Idaho.

During 2015, US Ecology Idaho received 280,474 tons of waste, an increase of 15% from the 243,911 tons received during 2014. Most of the waste (277,218 tons or >99%) received at US Ecology Idaho came from other states and some countries. The state from which the most waste was sent to US Ecology Idaho was Missouri, which sent 104,301 tons for disposal in 2015. Idaho generators sent 3,256 tons (<1%) of waste to US Ecology Idaho in 2015. The chart on the following page details the various states/countries and amounts of waste they shipped to US Ecology Idaho in 2015.

¹This category has previously been identified as the State Waste category. However, due to changes in waste disposal options, it has become apparent to Idaho DEQ this category should more appropriately be designated as the Non-Hazardous category. It does still contain small amounts of waste regulated as manifested state hazardous waste by other states.

WASTE SENT TO IDAHO IN 2015 (TONS)

STATE	RANK	RCRA	TSCA	NON-HAZ	2015 TOTAL	% OF TOTAL	2014 TOTAL
MO	1	886.7	0.0	103,414.6	104,301.3	37.19	80,285.7
NJ	2	659.3	3,687.8	97,735.9	102,083.0	36.40	65,831.6
CA	3	2,164.5	4.2	14,931.2	17,099.9	6.10	25,606.2
WA	4	5,226.2	*92.9	5,355.2	10,674.4	3.81	14,603.0
OH	5	0.1	0.0	5,686.5	5,686.6	2.03	19.7
ND	6	0.0	35.4	5,303.8	5,339.2	1.90	9,017.4
PA	7	1,105.2	0.0	4,225.1	5,330.4	1.90	7,423.7
OR	8	2,475.8	11.5	2,716.4	5,203.7	1.86	9,976.6
UT	9	2,022.3	38.0	3,053.7	5,114.1	1.82	4,999.1
ID	10	2,157.8	125.4	973.0	3,256.2	1.16	2,997.1
NV	11	1,417.9	0.0	1,360.1	2,778.0	0.99	1,695.9
IL	12	0.0	0.0	1,772.7	1,772.7	0.63	2,050.9
NY	13	5.3	5.5	1,655.0	1,665.7	0.59	172.7
MA	14	66.3	3.0	1,509.7	1,578.9	0.56	1,444.2
TX	15	1,192.3	0.5	338.2	1,531.0	0.55	1,037.5
MI	16	1.4	0.0	1,082.0	1,083.4	0.39	3,827.7
CO	17	272.3	0.7	677.8	950.9	0.34	881.7
CAN ¹	18	0.0	0.0	902.3	902.3	0.32	1,195.9
WY	19	14.0	4.6	863.3	881.9	0.31	1,921.6
MT	20	383.7	26.9	399.4	809.9	0.29	5,688.8
AK	21	311.0	*25.6	442.6	779.3	0.28	955.1
SD	22	0.7	195.1	303.5	499.3	0.18	686.2
LA	23	106.0	0.0	52.9	158.9	0.06	262.4
MD	24	0.0	0.0	156.4	156.4	0.06	3.3
NE	25	141.8	0.0	0.0	141.8	0.05	81.4
NH	26	0.0	0.0	79.9	79.9	0.03	365.6
AZ	27	20.1	0.0	54.9	75.0	0.03	0.1
VA	28	73.8	0.0	0.0	73.8	0.03	222.0
FL	29	0.1	0.0	73.2	73.3	0.03	0.0
OK	30	37.4	0.0	16.7	54.1	0.02	27.7
AR	31	32.2	0.0	21.1	53.3	0.02	8.2
CT	32	0.0	28.6	19.0	47.6	0.02	2.8
IA	33	0.0	34.8	4.0	38.8	0.01	73.8
AL	34	0.0	0.0	34.4	34.4	0.01	49.1
TN	35	1.0	0.0	28.6	29.5	0.01	19.6
NC	36	0.0	0.0	27.4	27.5	0.01	84.2
MN	37	0.0	1.0	26.3	27.3	0.01	121.2
IN	38	21.8	0.0	0.0	21.8	0.01	62.0
KS	39	0.0	0.0	19.9	19.9	0.01	48.1
NM	40	0.2	0.0	10.9	11.2	0.00	28.0
ME	41	0.0	0.0	8.4	8.4	0.00	0.0
GU ²	42	0.0	0.0	8.3	8.3	0.00	0.0
JAP ³	43	0.0	0.0	7.5	7.5	0.00	0.0
HI	44	0.0	0.0	3.3	3.3	0.00	62.0
GA	45	0.3	0.0	0.1	0.3	0.00	4.0
WI	46	0.1	0.0	0.0	0.1	0.00	37.1
MS	47	0.0	0.0	0.0	0.0	0.00	0.0
AUS ⁴	48	0.0	0.0	0.1	0.0	0.00	0.0
KY	49	0.0	0.0	0.0	0.0	0.00	30.1
TOTAL	N/A	20,797.6	4,321.5	255,355.3	280,474.3	100%	243,911.2

* Combined TSCA/RCRA waste streams; ¹Canada; ²Guam; ³Japan; ⁴Australia



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HAZARDOUS WASTE MANAGEMENT METHODS

Using one of the methods listed below, a reported 10,764 tons of hazardous waste was managed in 2015. The amount of waste managed during 2015 includes most of the reported 7,985 tons generated in 2015 as well as waste generated in previous years but kept in permitted storage units awaiting further treatment and disposal.

MANAGEMENT METHOD	TOTAL TONS	MANAGED IN-STATE	MANAGED OUT-OF-STATE
Landfill	2,708	2,041	667
Treatment	6,440	4,991	1,449
Reuse/Recycle	320	5	315
Incineration	1,105	0	1,105
Other	190	0	190