

SEWAGE SLUDGE DISPOSAL IN OHIO FOR 2014

Publicly owned treatment works and semi-public treatment works (hereinafter collectively referred to as POTWs) in Ohio are required to have an effective National Pollutant Discharge Elimination System (NPDES) permit to discharge effluent to waters of the State. Part II of most NPDES permits requires the submittal of an annual sewage sludge report describing sewage sludge use or disposal activities for the previous year. The purpose of this requirement is to provide information on sewage sludge management trends, to identify areas where the Ohio Environmental Protection Agency should focus its technical and compliance assistance efforts and to provide data to support public education and outreach activities.

There are several means by which POTWs in Ohio use or dispose of sewage sludge. The most common are land application for agronomic benefit, incineration and disposal in a landfill. The following is a breakdown of sewage sludge beneficial use/disposal in Ohio and the number of facilities that reported for 2014.

Sewage Sludge Use/Disposal for 2014	Dry tons	Percent Use	# of facilities
Exceptional Quality (EQ) biosolids land applied or distributed for sale	30,927.49	9.8%	22
Class B biosolids land applied	91,861.58	29.1%	209
Sewage sludge disposed of in a landfill	93,506.05	29.6%	257
Sewage sludge incinerated	99,581.85	31.5%	7
Total sewage sludge disposed/beneficially used	315,876.97		495

1,873 facilities reported sewage sludge disposal to Ohio EPA in 2014. These facilities either land applied, landfilled, incinerated, transferred sludge to another permitted facility or did not remove any sludge during the year. The following table summarizes the number of facilities using each of these methods as reported by Ohio EPA district.

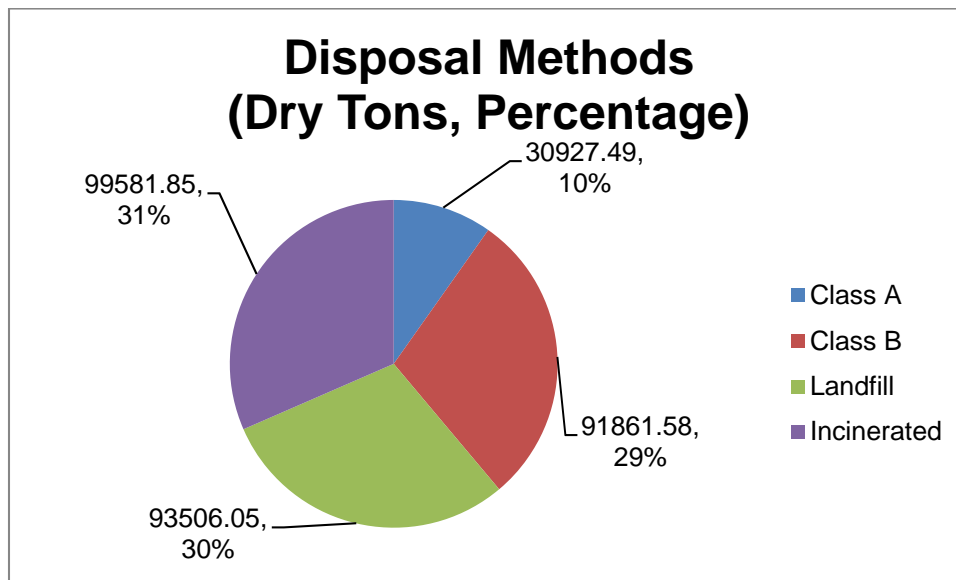
Number of Facilities Reporting in 2014 *							
District	Total	EQ Beneficial Use	Class B Beneficial Use	Landfill	Incineration	Transferred to Another Facility	No Sludge Removed
Central	198	3	32	26	1	99	56
Northeast	692	7	51	77	4	315	270
Northwest	424	6	47	46	0	183	175
Southwest	286	3	41	52	2	120	89
Southeast	267	1	37	52	0	108	74
Out of State	6	2	1	4	0	0	0
Total	1,873	22	209	257	7	825	664
* Some facilities utilize more than one sludge use/disposal method							

Dry Tons in 2014 *

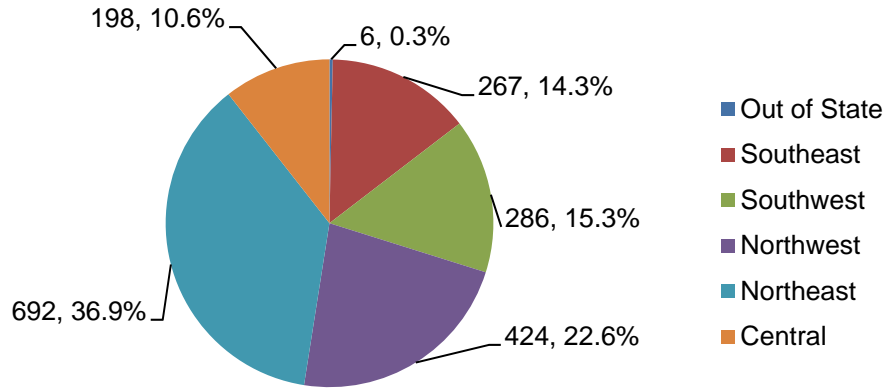
District	Total	EQ Beneficial Use	Class B Beneficial Use	Landfill	Incineration
Central	37,129.75	8,163.64	22,317.48	3,647.03	3,001.60
Northeast	105,371.23	10,031.62	19,726.51	19,881.07	55,732.03
Northwest	55,410.00	4,645.20	15,001.58	35,763.22	0.00
Southwest	86,277.02	1,861.97	23,507.95	20,058.88	40,848.22
Southeast	11,531.74	30.22	5,176.53	6,324.99	0.00
Out of State	20,157.22	6,194.84	6,131.53	7,830.85	0.00
Total	315,876.96	30,927.49	91,861.58	93,506.04	99,581.85

*For the pie charts below, Class A means sewage sludge treated to Class A pathogen levels distributed for sale or bulk land applied. Class B means sewage sludge treated to Class B pathogen levels and bulk land applied.

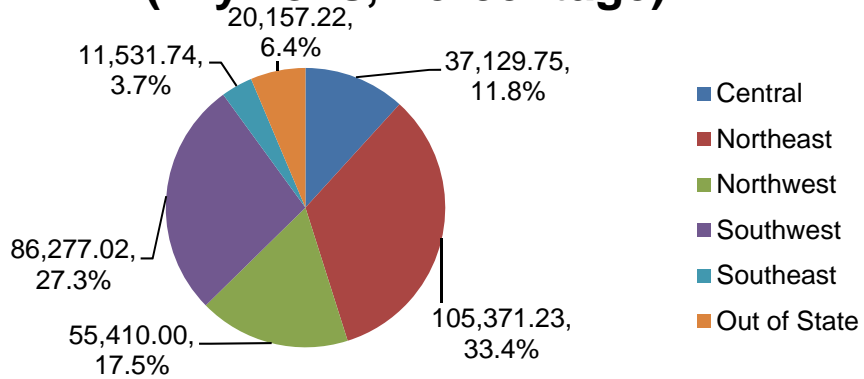
**It should be noted that colors for each data series may vary from chart to chart and district to district.



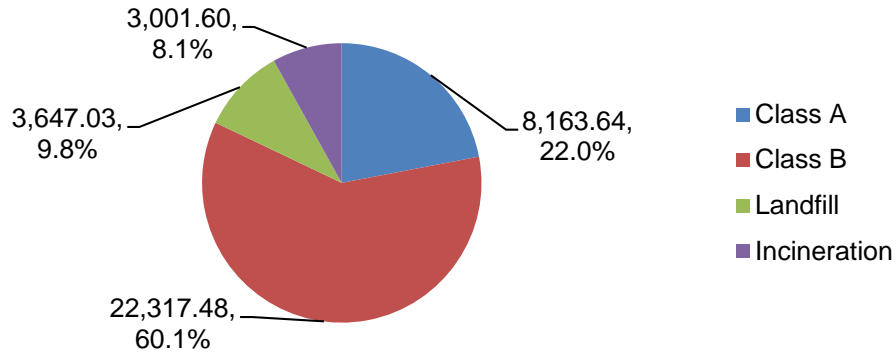
Number of Reporting Facilities (Number, Percentage)



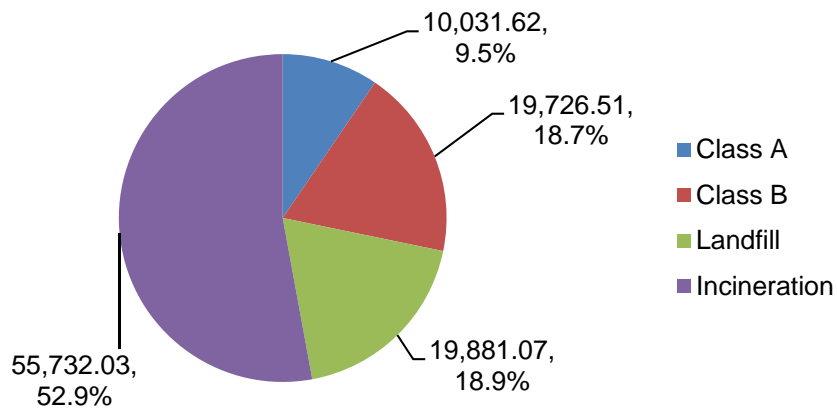
Total Sludge Disposal in Each District (Dry Tons, Percentage)



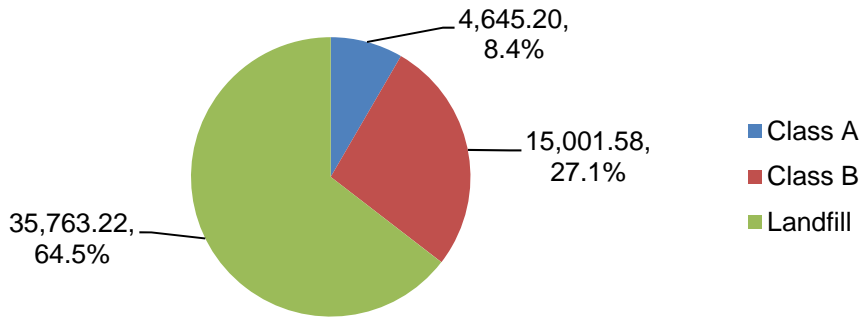
Sludge Disposal in Central District (Dry Tons, Percentage)



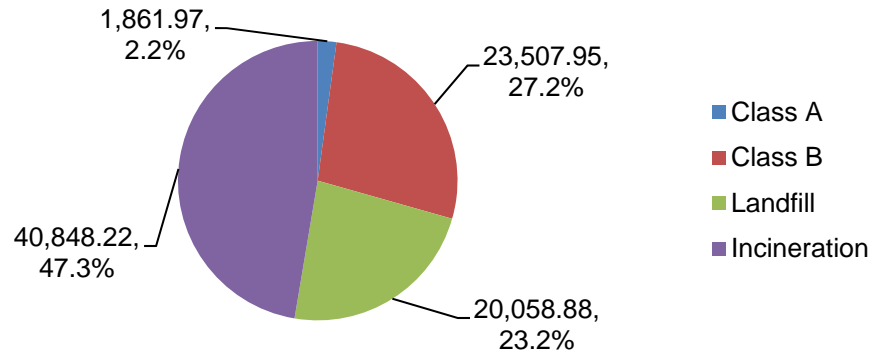
Sludge Disposal in Northeast District



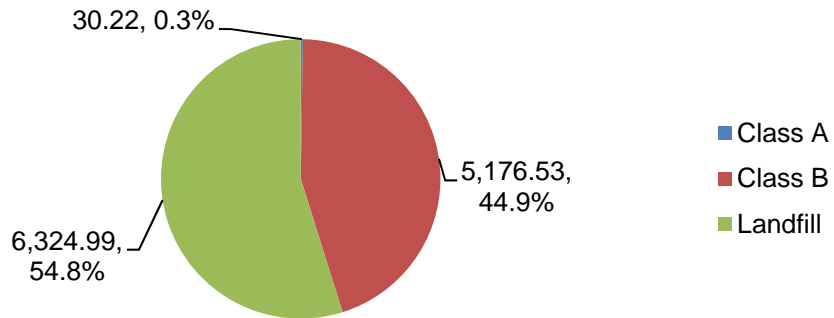
Sludge Disposal in Northwest District (Dry Tons, Percentage)



Sludge Disposal in Southwest District (Dry Tons, Percentage)



Sludge Disposal in Southeast District (Dry Tons, Percentage)



Sludge Disposal for Out of State (Dry Tons, Percentage)

