

SEWAGE SLUDGE DISPOSAL IN OHIO FOR 2012

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 2012.

Sewage Sludge Use/Disposal for 2012	Dry tons	Percent Use	# of facilities
Exceptional Quality (EQ) biosolids land applied or distributed for sale	34,448.70	11.6%	25
Class B biosolids land applied	83,462.01	28.0%	224
Sewage sludge disposed of in a landfill	79,575.83	26.8%	283
Sewage sludge incinerated	99,988.15	33.6%	9
Total sewage sludge disposed/beneficially used	297,504.69		541

1,876 facilities reported sewage sludge disposal to Ohio EPA in 2012. 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.

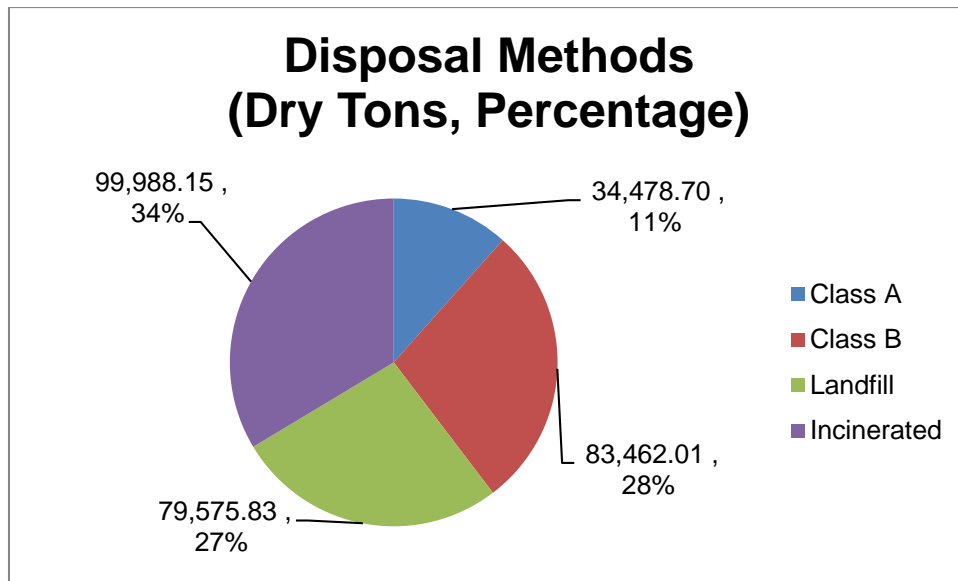
Number of Facilities Reporting in 2012 *							
District	Total	EQ Beneficial Use	Class B Beneficial Use	Landfill	Incineration	Transferred to Another Facility	No Sludge Removed
Central	197	4	29	35	2	92	54
Northeast	666	7	54	86	5	306	229
Northwest	438	7	60	48	0	146	215
Southwest	304	3	42	55	2	132	82
Southeast	262	2	38	56	0	109	73
Out of State	9	2	1	3	0	0	0
Total	1,876	25	224	283	9	785	653
* Some facilities utilize more than one sludge use/disposal method							

Dry Tons in 2012 *

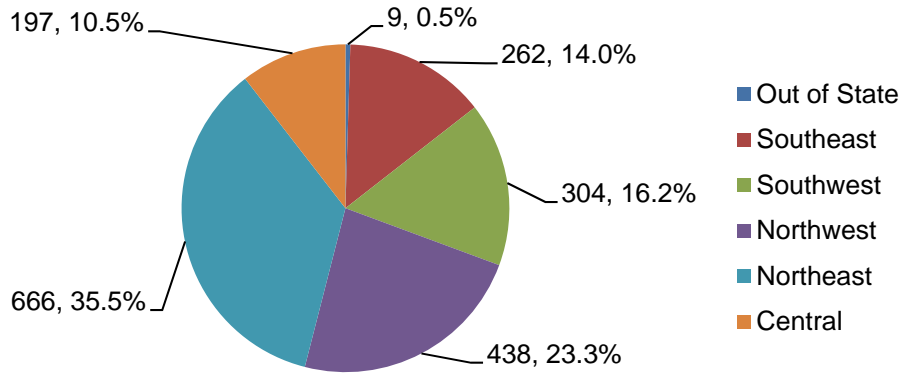
District	Total	EQ Beneficial Use	Class B Beneficial Use	Landfill	Incineration
Central	33,262.19	8,303.62	10,977.08	5,243.39	8,738.10
Northeast	103,979.08	12,929.76	21,220.53	19,918.46	49,910.33
Northwest	52,051.45	5,693.91	15,852.59	30,504.95	0.00
Southwest	81,280.91	1,715.95	26,698.26	11,526.99	41,339.71
Southeast	11,941.04	18.16	3,786.05	8,136.83	0.00
Out of State	14,990.01	5,817.30	4,927.50	4,245.21	0.00
Total	297,504.67	34,478.70	83,462.01	79,575.83	99,988.14

*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.

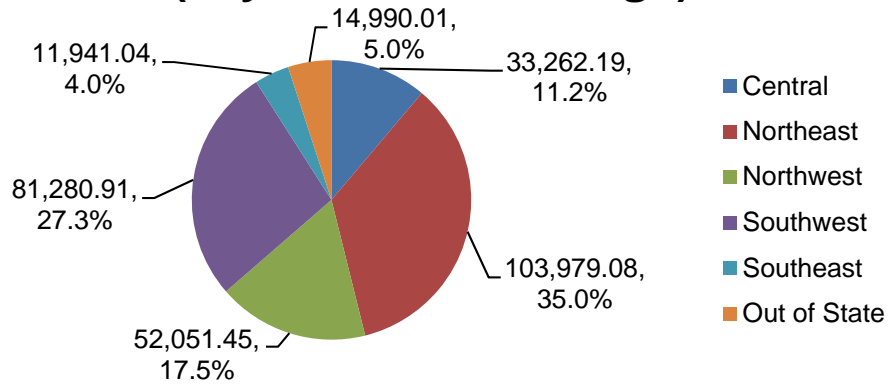
**It should be noted that colors for each data series may vary from chart to chart and district to district.



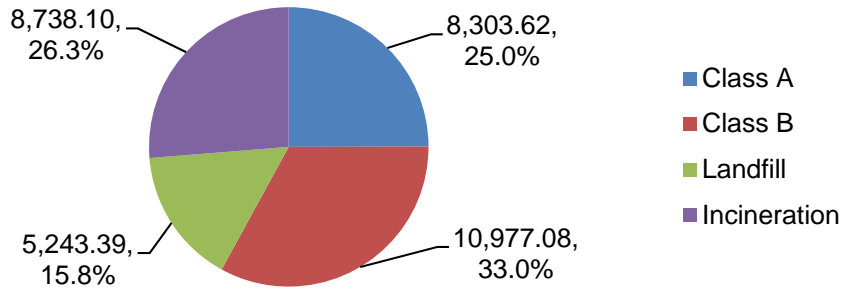
Number of Reporting Facilities (Number, Percentage)



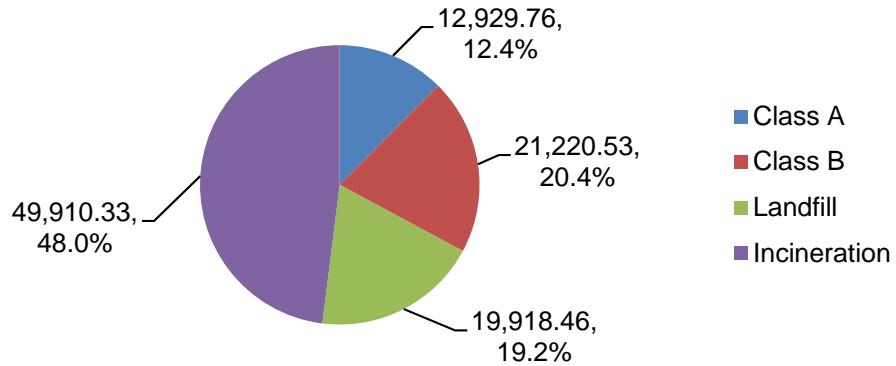
Total Sludge Disposal in Each District (Dry Tons, Percentage)



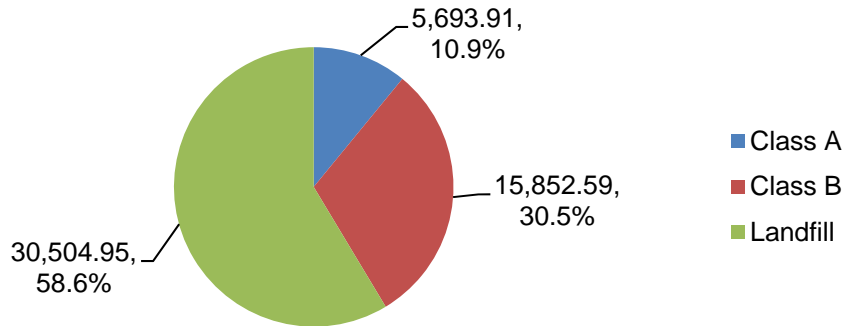
Sludge Disposal for Central District (Dry Tons, Percentage)



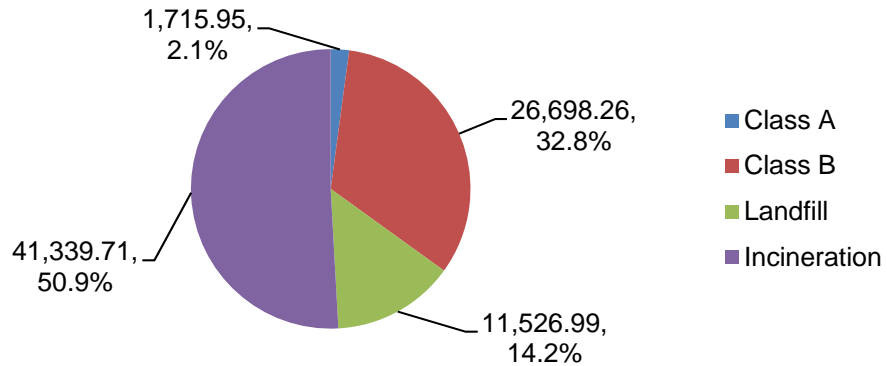
Sludge Disposal for Northeast District (Dry Tons, Percentage)



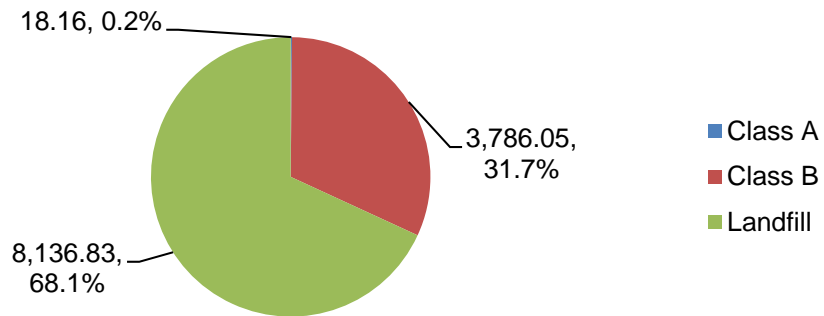
Sludge Disposal for Northwest District (Dry Tons, Percentage)



Sludge Disposal for Southwest District (Dry Tons, Percentage)



Sludge Disposal in Southeast District (Dry Tons, Percentage)



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

