

SEWAGE SLUDGE DISPOSAL IN OHIO FOR 2013

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 2013.

Sewage Sludge Use/Disposal for 2013	Dry tons	Percent Use	# of facilities
Exceptional Quality (EQ) biosolids land applied or distributed for sale	27,650.08	9.7%	22
Class B biosolids land applied	73,889.97	25.9%	198
Sewage sludge disposed of in a landfill	82,905.98	29.0%	268
Sewage sludge incinerated	101,327.22	35.5%	7
Total sewage sludge disposed/beneficially used	285,773.25		495

1,819 facilities reported sewage sludge disposal to Ohio EPA in 2013. 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.

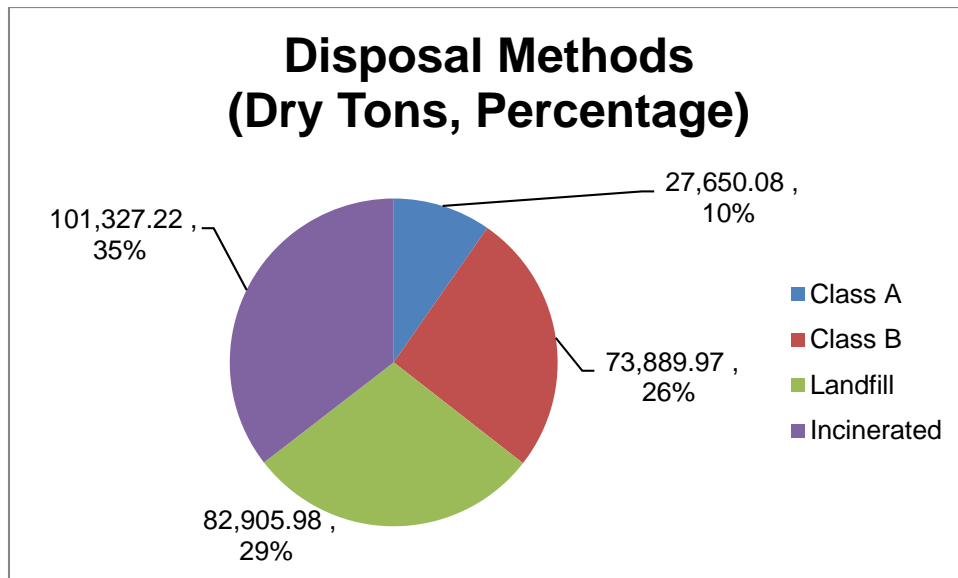
Number of Facilities Reporting in 2013 *							
District	Total	EQ Beneficial Use	Class B Beneficial Use	Landfill	Incineration	Transferred to Another Facility	No Sludge Removed
Central	193	3	28	31	1	99	53
Northeast	648	6	52	77	4	308	230
Northwest	421	7	46	49	0	180	169
Southwest	264	3	34	58	2	122	83
Southeast	284	1	37	50	0	119	65
Out of State	9	2	1	3	0	0	0
Total	1,819	22	198	268	7	828	600
* Some facilities utilize more than one sludge use/disposal method							

Dry Tons in 2013 *

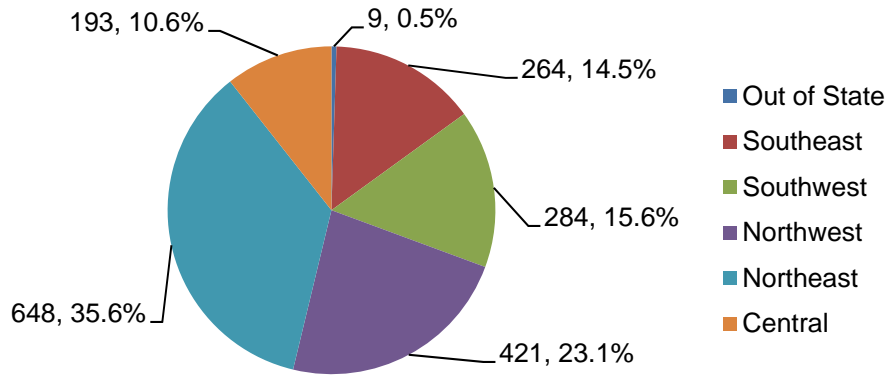
District	Total	EQ Beneficial Use	Class B Beneficial Use	Landfill	Incineration
Central	33,070.85	6,189.41	15,681.76	5,000.18	6,199.50
Northeast	102,034.89	9,000.02	17,452.22	26,600.87	48,981.78
Northwest	41,240.02	6,629.05	13,146.99	21,463.98	0.00
Southwest	82,688.76	1,493.91	20,541.50	14,507.41	46,145.94
Southeast	10,867.03	10.69	3,908.49	6,947.85	0.00
Out of State	15,871.70	4,327.00	3,159.01	8,385.69	0.00
Total	285,773.25	27,650.08	73,889.97	82,905.98	101,327.22

*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.

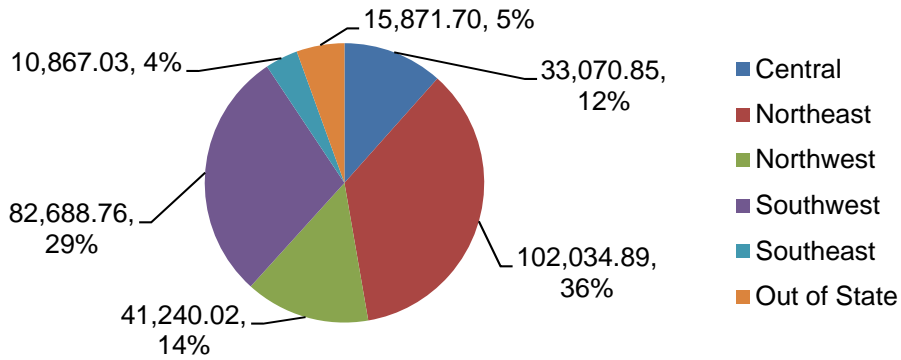
**It should be noted that colors for each data series may vary from chart to chart and district to district.



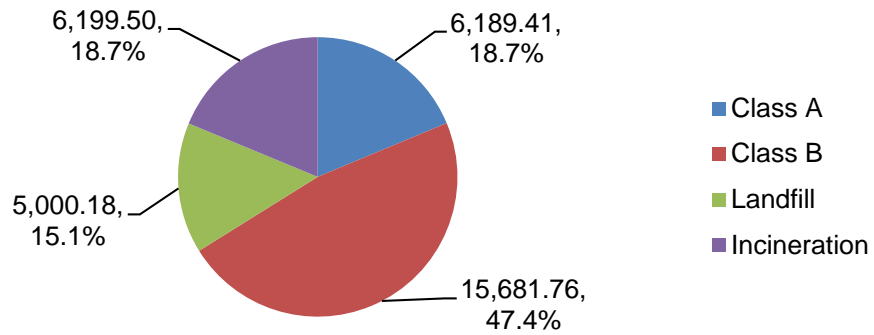
Number of Reporting Facilities (Number, Percentage)



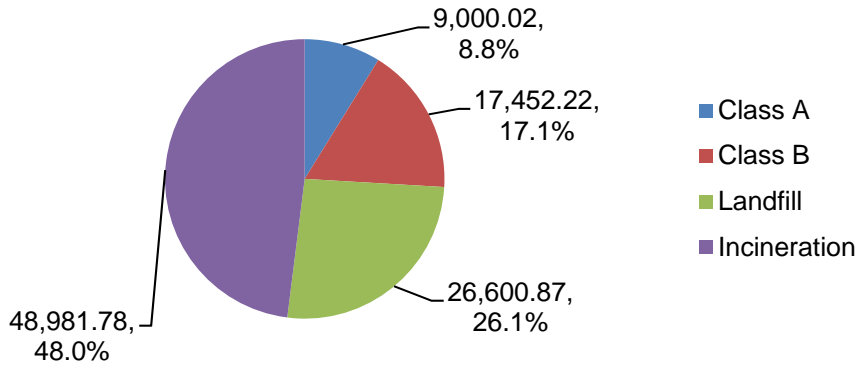
Total Sludge Disposal in Each District (Dry Tons, Percentage)



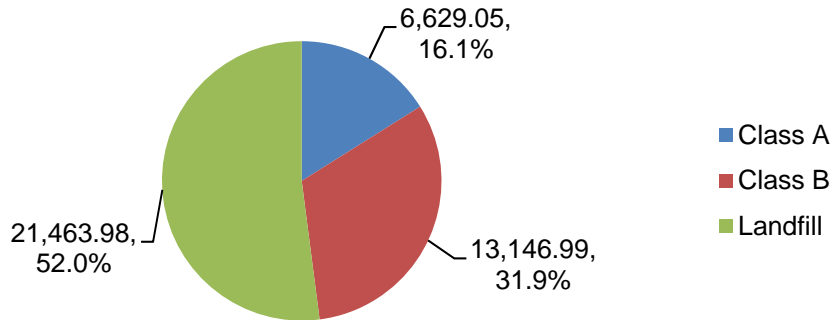
Sludge Disposal for Central District (Dry Tons, Percentage)



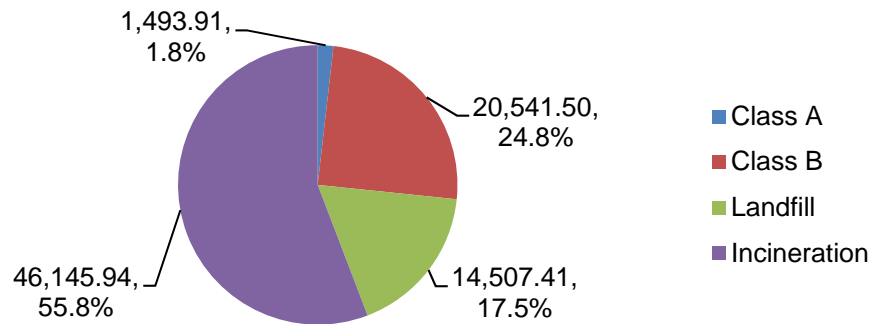
Sludge Disposal for Northeast District (Dry Tons, Percentage)



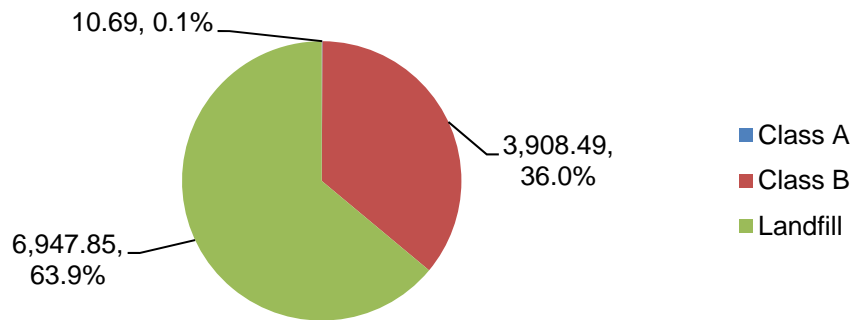
Sludge Disposal for Northwest District (Dry Tons, Percentage)



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)

