

Sewage Sludge Disposal in Ohio for 2003

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 treated effluent to waters of the State. Included in Part II of most NPDES permits is a requirement that an annual sewage sludge report, describing sewage sludge use or disposal activities for the previous year, be submitted to the Ohio Environmental Protection Agency (EPA). The purpose of this requirement is to provide information on sewage sludge management trends, to identify areas where Ohio EPA 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 information is a breakdown of sewage sludge disposal/use in Ohio for 2003. After review of this data it is clear that there is a large decrease in the amount of dry tons reported to Ohio EPA for 2003 compared to other years that data has been collected. Ohio EPA has not been able to determine the cause of this large decrease.

238,790 total tons of sewage sludge disposed of in 2003.

3,695 tons of Class A Biosolids land applied or distributed for sale.

77,547 tons of Class B Biosolids land applied.

47,297 tons of sewage sludge disposed of in a landfill.

110,250 tons of sewage sludge incinerated.

34% of sludge was land applied/distributed for sale, 46% was incinerated, and 20% was landfilled.

1,700 total facilities reported sewage sludge disposal to Ohio EPA in 2003. These facilities either land applied, landfilled, incinerated, took

their sludge to another permitted facility, or they did not remove any sludge.

Of the 1,700 total facilities, 8 were out of state facilities, 192 facilities in Central District, 590 facilities in Northeast District, 355 facilities in Northwest District, 312 facilities in Southwest District, and 243 facilities in Southeast District.

3 facilities reported land application/distribution for sale of Class A sludge.

185 facilities reported land application of Class B sludge.

84 facilities reported sludge disposal via landfill.

11 facilities reported sludge disposal via incineration.

Out of State Facilities

3,427 dry tons of Class B sludge land applied.

5,970 dry tons of sludge disposed in a landfill.

9,397 total dry tons of sludge disposed of.

Southeast District Facilities

5,662 dry tons of Class B sludge land applied.

4,298 dry tons of sludge disposed in a landfill.

9,960 total dry tons of sludge disposed of.

Southwest District Facilities

2,801 dry tons of Class A sludge land applied.

31,275 dry tons of Class B sludge land applied.

7,139 dry tons of sludge disposed in a landfill.

41,000 dry tons incinerated.

82,215 total dry tons of sludge disposed of.

Northwest District Facilities

401 dry tons of Class A sludge land applied.
15,349 dry tons of Class B sludge land applied.
5,307 dry tons of sludge disposed in a landfill.
21,058 total dry tons of sludge disposed of.

Northeast District Facilities

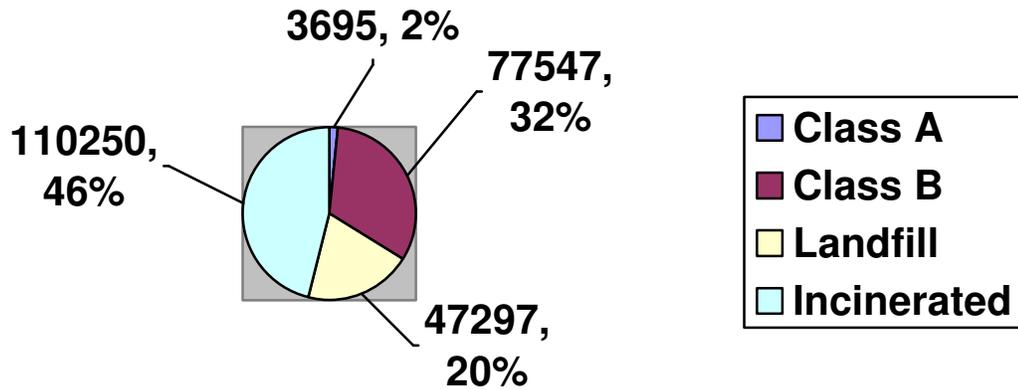
493 dry tons of Class A sludge land applied.
16,294 dry tons of Class B sludge land applied.
17,621 dry tons of sludge sent to landfill.
54,964 dry tons of sludge incinerated.
89,372 total dry tons of sludge disposed of.

Central District Facilities

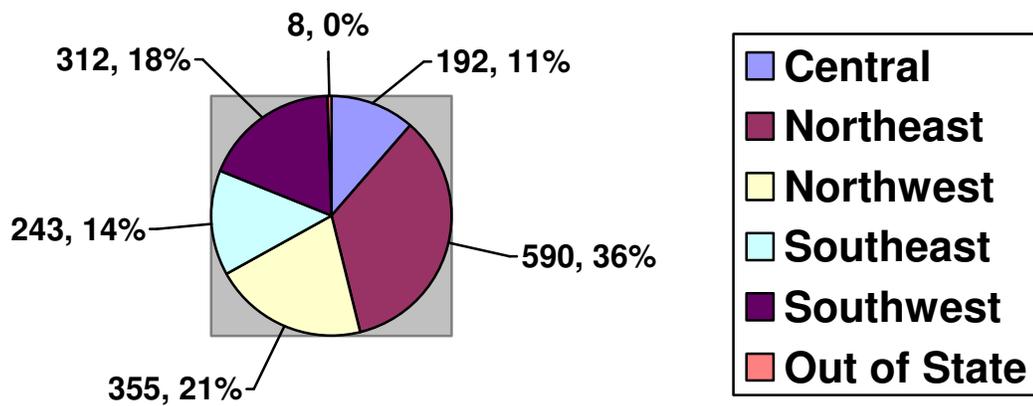
5,539 dry tons of Class B sludge land applied.
6,962 dry tons of sludge sent to landfill.
14,286 dry tons of sludge incinerated.
26,787 total dry tons of sludge disposed of.

***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.**

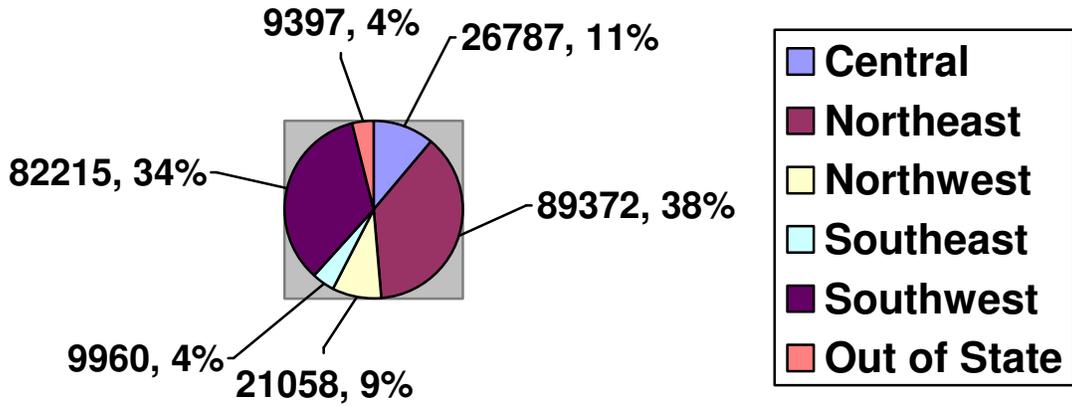
Disposal Methods (Dry Tons, Percentage)



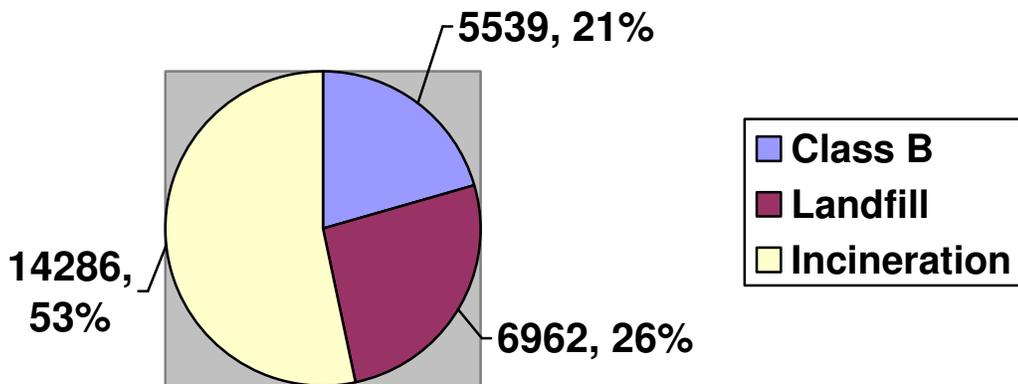
Number of Reporting Facilities (Number, Percentage)



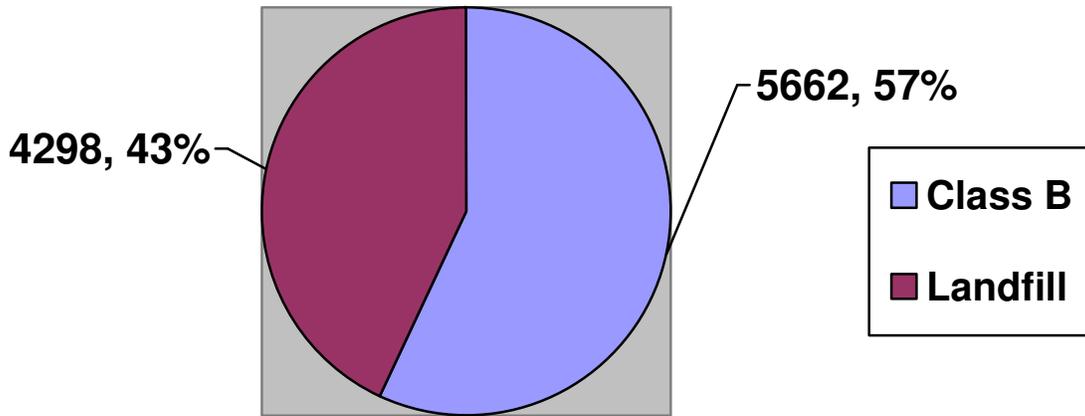
Total Sludge Disposal by Each District (Dry Tons, Percentage)



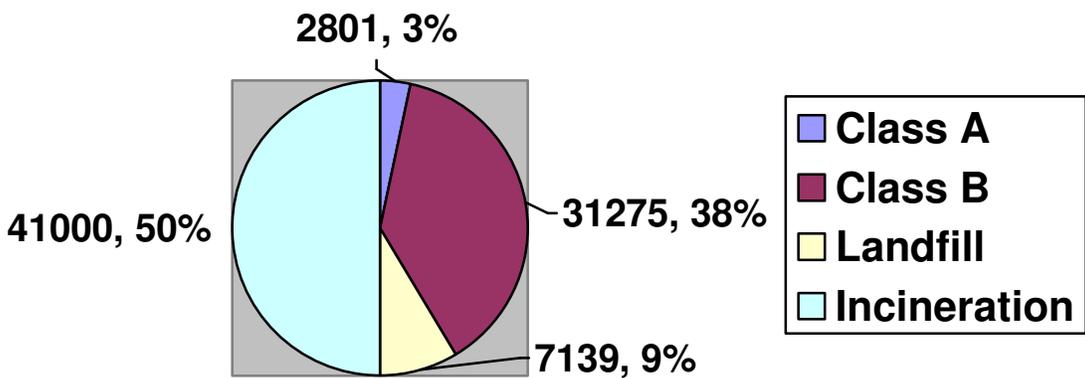
Sludge Disposal by Central District (Dry Tons)



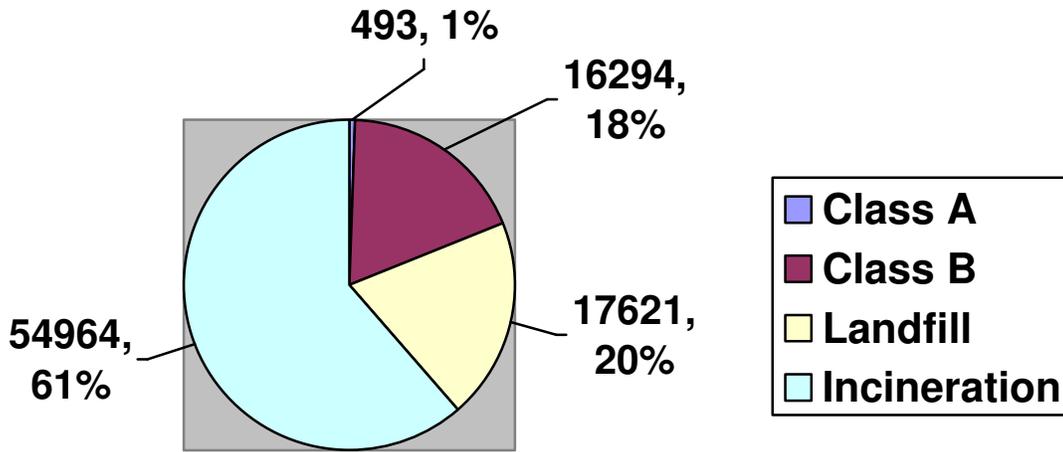
Sludge Disposal by Southeast District (Dry Tons)



Sludge Disposal by Southwest District (Dry Tons)



Sludge Disposal by Northeast District (Dry Tons)



Sludge Disposal by Northwest District (Dry Tons)

