



Beneficial Use Annual Report Statewide Summary for 2020

The Beneficial Use Program promotes the diversion of solid waste and industrial waste from landfill disposal in a manner that is protective of human health, safety, and the environment.

Introduction

The Beneficial Use Program includes various permitting mechanisms to authorize specific waste types and end uses. The most common beneficial use activities are land application for agronomic benefit, soil blending, and structural fill. The table below summarizes these mechanisms and issued permits for the reporting period.

Mechanism	Waste Type	End Use	New Permits	Total Permits
Beneficial Use (General Permits and Individual Permits)	Foundry Sand	Soil blends, structural fill	4	13
	Drinking Water Treatment Material	Land application (liming agent)	14	19
	Sewage Sludge Incinerator Ash	Soil blends, structural fill	0	2
	Dredge	Soil blends, structural fill	0	2
Land Application Management Plan ("LAMP")	Various solid wastes and industrial wastes	Land application	3	17
Integrated Alternative Waste Management Program ("IAWMP")	Various solid wastes and industrial wastes (site specific)	Various	3	5
Total			24	58

Table 1: Beneficial Use Permit Summary, Reporting Period January 1 through December 31, 2020

Permittees are required to maintain records and submit an annual report to Ohio EPA summarizing beneficial use activities. The Division of Materials and Waste Management has prepared this Beneficial Use Annual Report Statewide Summary to provide information on beneficial use trends, to identify areas where Ohio EPA should focus technical and compliance assistance efforts, and to provide data to support public education and outreach activities.

Statewide Summary

The total tonnage of material reported beneficially used in 2020 was 421,439 dry tons. Figure 1 summarizes the breakdown of material beneficially used by material type. Materials beneficially used in 2020 included: brewery waste, ground cast gypsum, cement kiln dust ("CKD"), clay spoils from porcelain manufacturing, composted yard

waste that did not meet product specifications (“compost overs”), dredge materials, drinking water treatment materials (“DWTM”), flue gas desulfurization gypsum (“FGD gypsum”), foundry sand, paper waste, shingle grit from shingle manufacturing and sewage sludge incinerator ash (“SSIA”). Figure 2 summarizes how materials were ultimately used 2020.

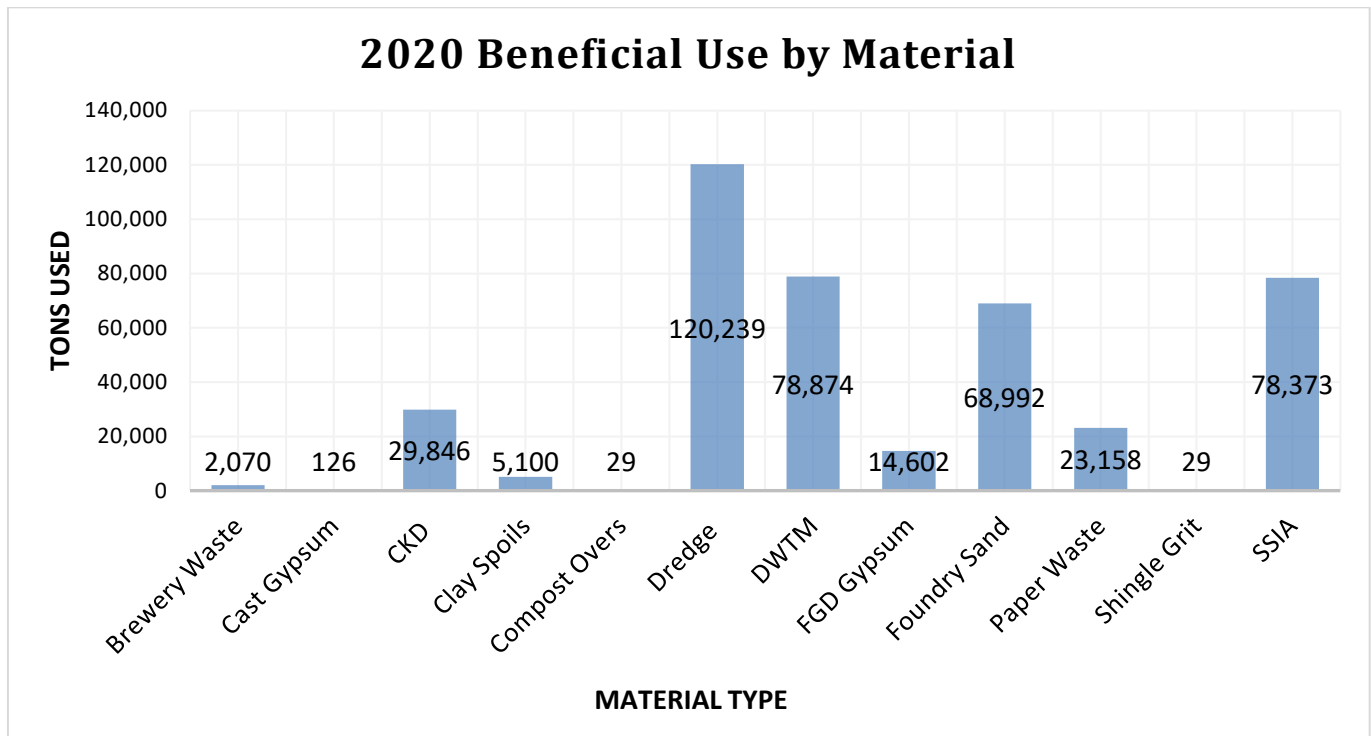


Figure 1: Statewide totals of each material, in dry tons, beneficially used in 2020.

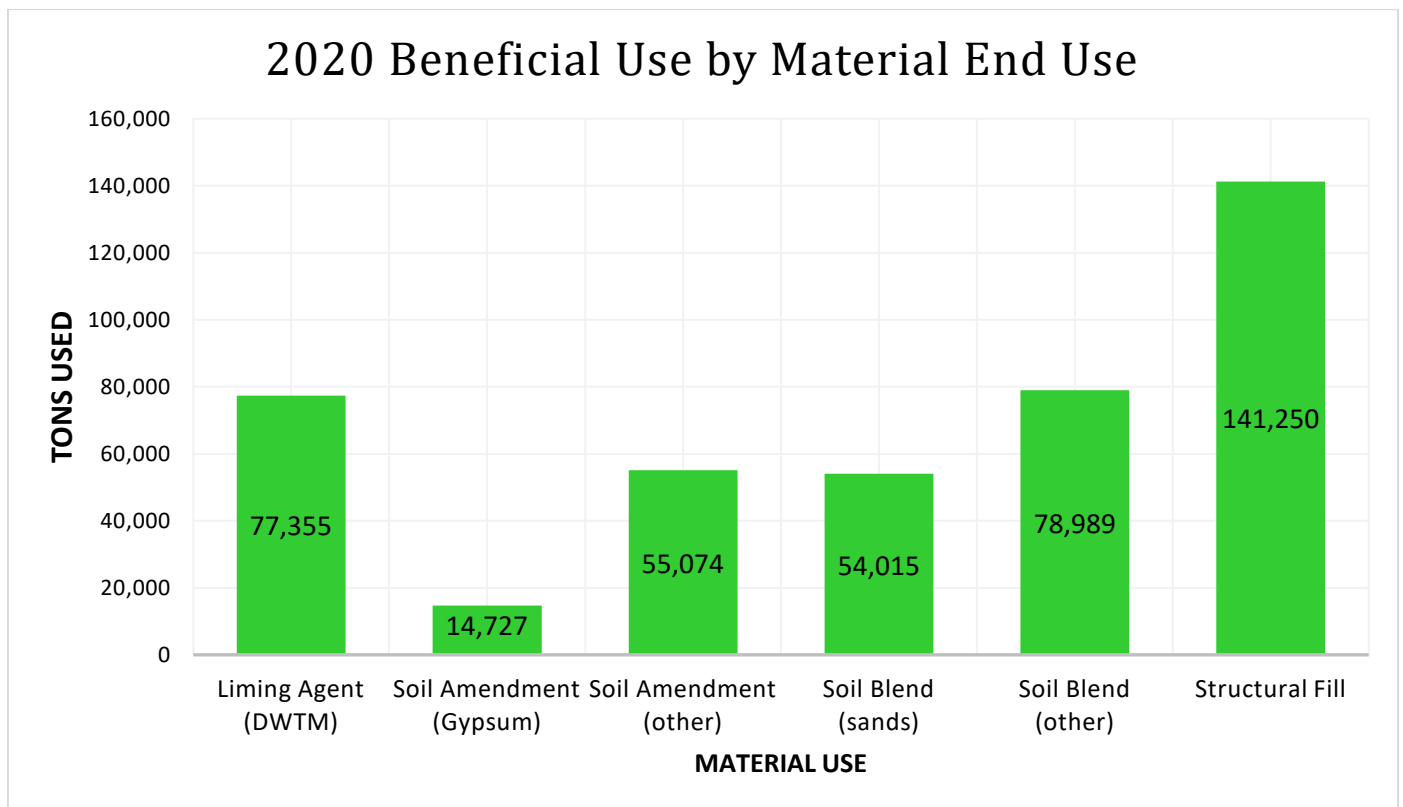


Figure 2: Statewide totals, in dry tons, of how materials were ultimately beneficially used in 2020.

Ohio EPA District Office Summary

In 2020 there were a total of 58 active permits for the beneficial use and land application of waste materials in Ohio. The various authorizations are issued to permittees throughout all five of Ohio EPA’s district offices which includes: Central District Office (“CDO”), Northeast District Office (“NEDO”), Northwest District Office (“NWDO”), Southeast District Office (“SEDO”), Southwest District Office (“SWDO”) and out-of-state (“OOS”). Figure 3 shows the statewide distribution of permits by materials permitted for beneficial use and in what Ohio EPA district office those permittees are located. Figure 4 depicts the total number of permits active in each district office.

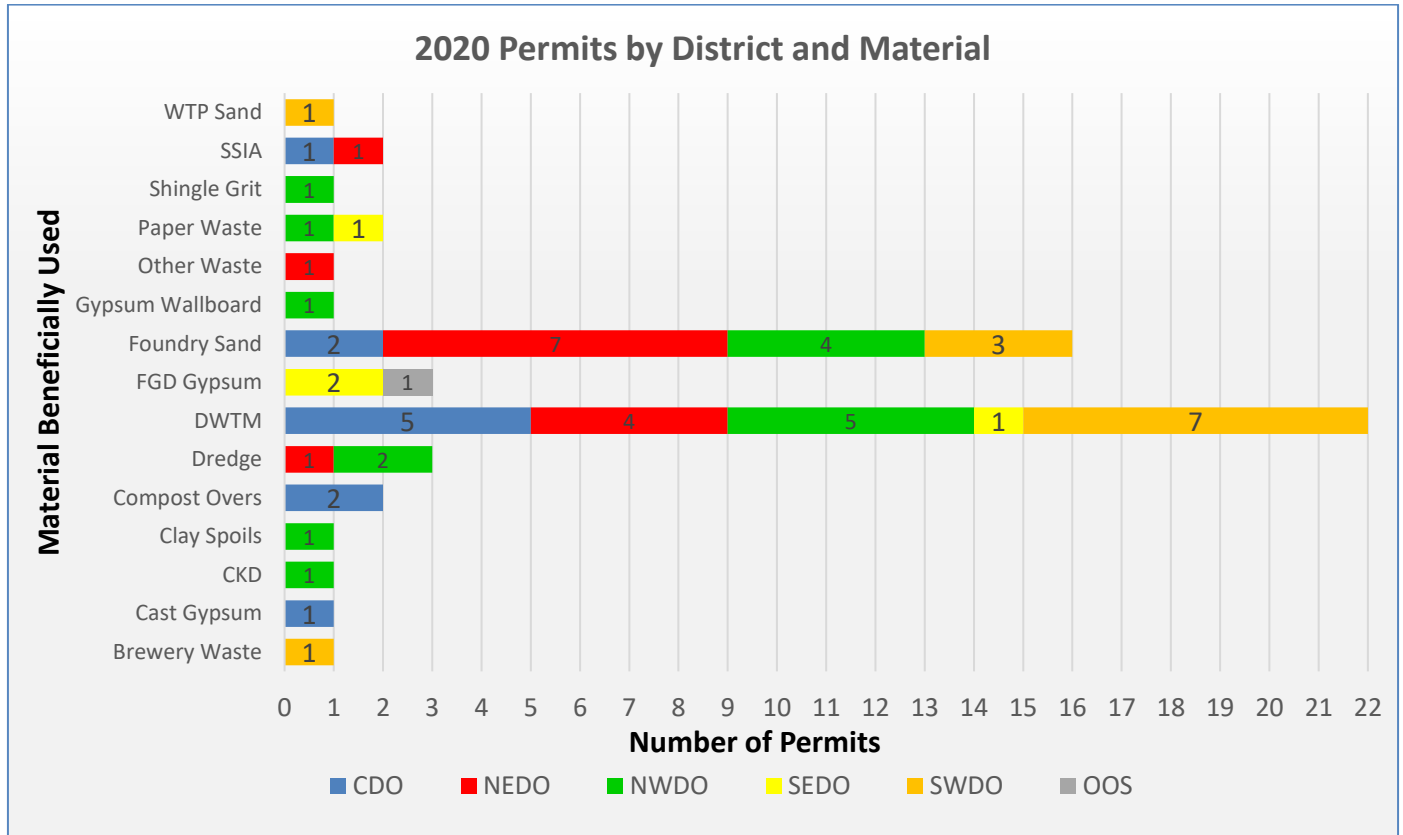


Figure 3: Breakdown of the number of permits active in 2020 by material and Ohio EPA District Office.

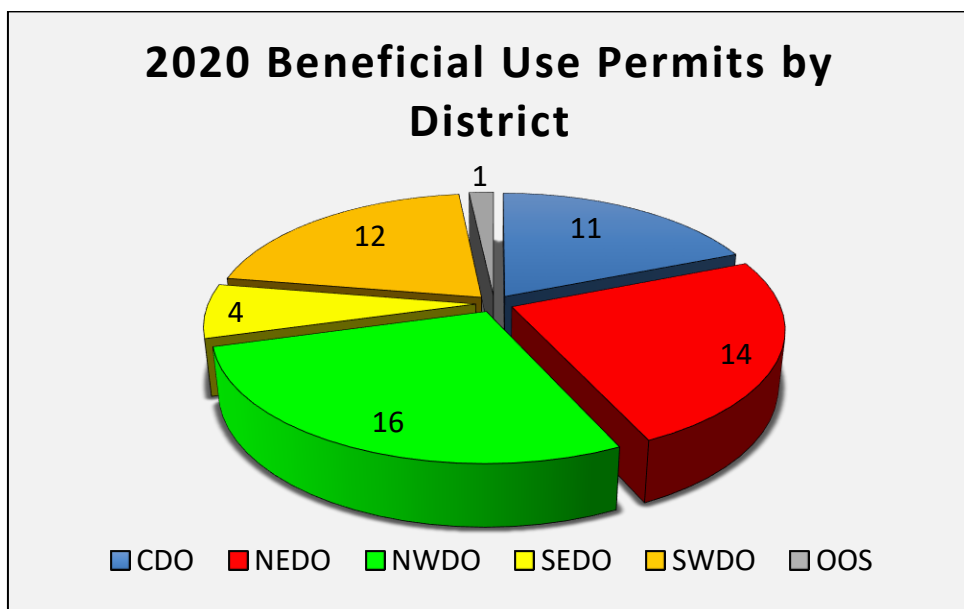


Figure 4: Total number of active permits in 2020 in each Ohio EPA District Offices.

Central District Office

In 2020 there were 11 active permits for permittees located in Ohio EPA’s Central District who beneficially used 11,497 dry tons of waste materials. Table 2 breaks down those active permits by permit type and Figure 5 depicts what materials were beneficially used in Central District.

Central District Office	
Permit Type	Number of Permits
Beneficial Use General Permits	5
Beneficial Use Individual Permits	2
Land Application Management Plan Permits	1
Integrated Alternative Waste Management Project Permits	3

Table 2: Total number of each permit type for permittees located in Ohio EPA’s Central District in 2020.

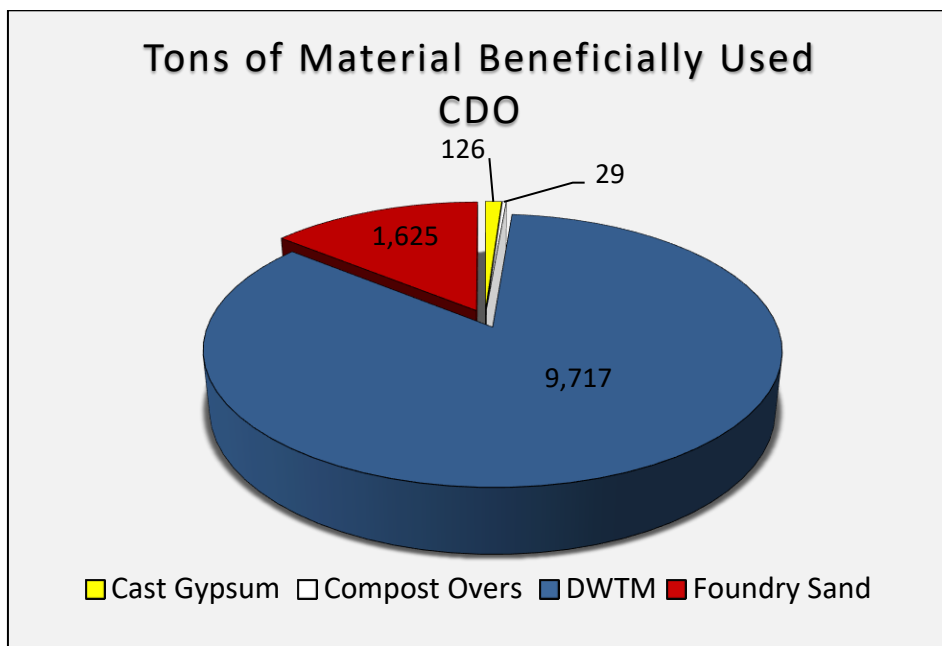


Figure 5: Totals of each material, in dry tons, beneficially used in 2020 in Central District.

Northeast District Office

In 2020 there were 14 active permits for permittees located in Ohio EPA's Northeast District who beneficially used 267,300 dry tons of waste materials. Table 3 breaks down those active permits by permit type and Figure 6 depicts what materials were beneficially used in Northeast District.

Northeast District Office	
Permit Type	Number of Permits
Beneficial Use General Permits	10
Beneficial Use Individual Permits	0
Land Application Management Plan Permits	3
Integrated Alternative Waste Management Project Permits	1

Table 3: Total number of each permit type for permittees located in Ohio EPA's Northeast District in 2020.

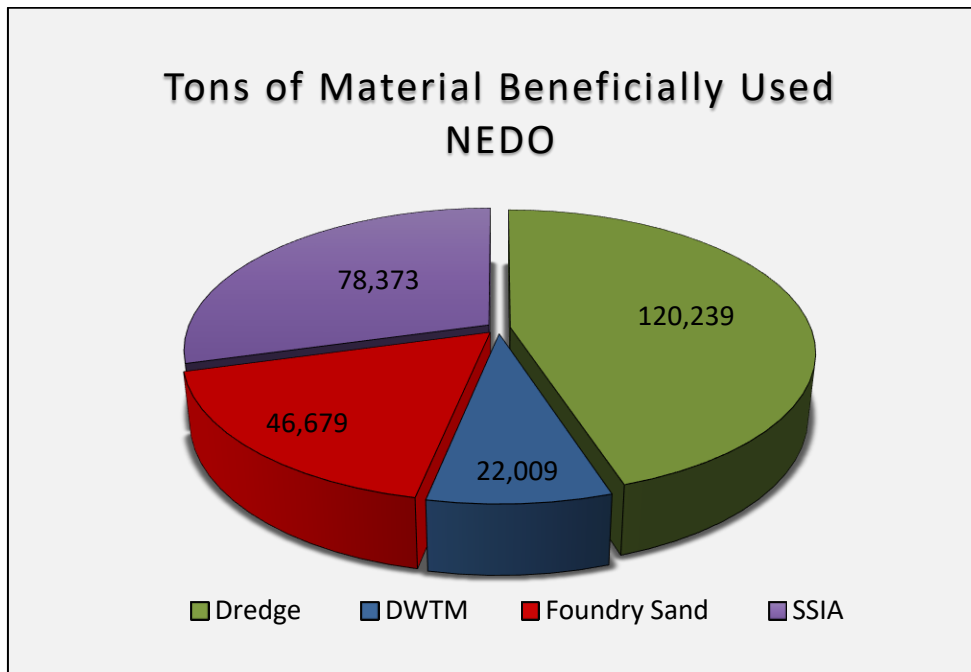


Figure 6: Totals of each material, in dry tons, beneficially used in 2020 in Northeast District.

Northwest District Office

In 2020 there were 16 active permits for permittees located in Ohio EPA’s Northwest District who beneficially used 61,526 dry tons of waste materials. Table 4 breaks down those active permits by permit type and Figure 7 depicts what materials were beneficially used in Northwest District.

Northwest District Office	
Beneficial Use General Permits	Number of Permits
Beneficial Use Individual Permits	5
Land Application Management Plan Permits	4
Integrated Alternative Waste Management Project Permits	7
Beneficial Use General Permits	0

Table 4: Total number of each permit type for permittees located in Ohio EPA’s Northwest District in 2020.

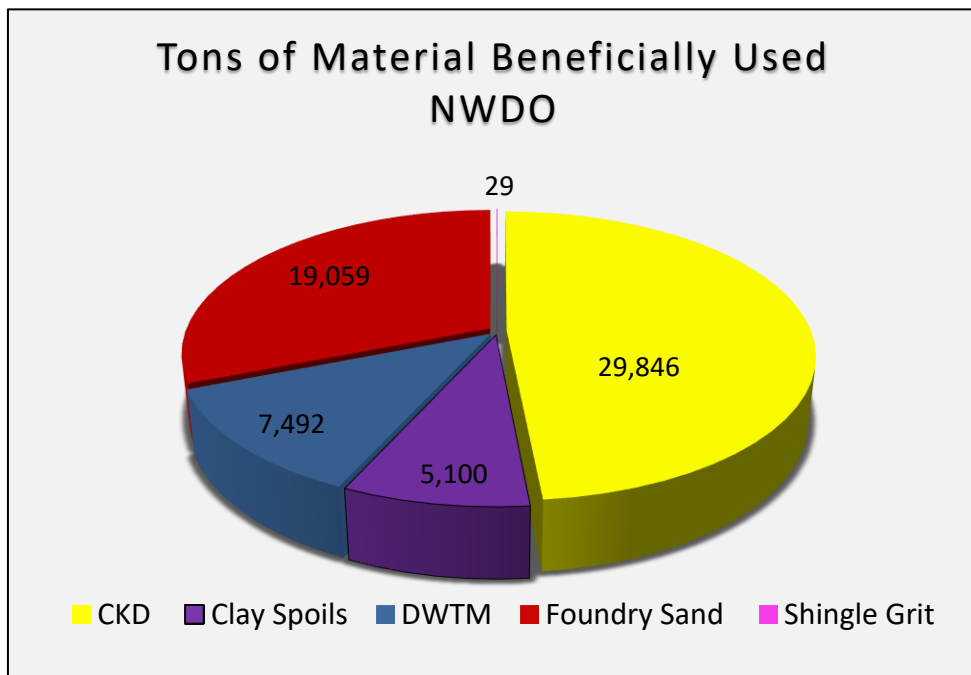


Figure 7: Totals of each material, in dry tons, beneficially used in 2020 in Northwest District.

Southeast District Office

In 2020 there were 4 active permits for permittees located in Ohio EPA’s Southeast District who beneficially used 32,685 dry tons of waste materials. Table 5 breaks down those active permits by permit type and Figure 8 depicts what materials were beneficially used in Southeast District.

Southeast District Office	
Permit Type	Number of Permits
Beneficial Use General Permits	1
Beneficial Use Individual Permits	0
Land Application Management Plan Permits	3
Integrated Alternative Waste Management Project Permits	0

Table 5: Total number of each permit type for permittees located in Ohio EPA’s Southeast District in 2020.

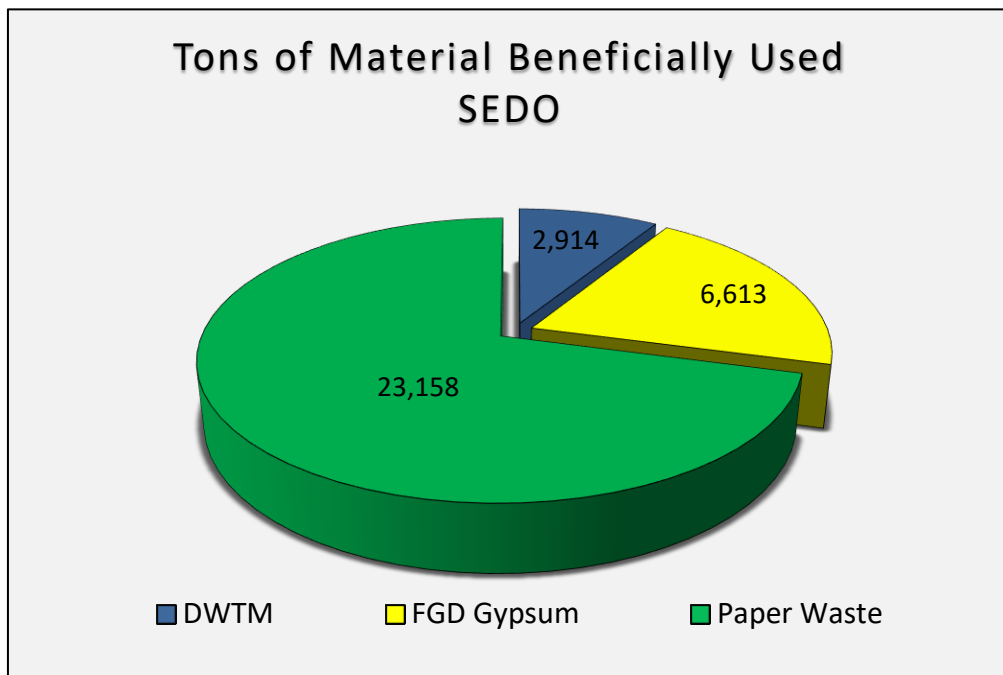


Figure 8: Totals of each material, in dry tons, beneficially used in 2020 in Southeast District.

Southwest District Office

In 2020 there were 4 active permits for permittees located in Ohio EPA's Southwest District who beneficially used 40,442 dry tons of waste materials. Table 6 breaks down those active permits by permit type and Figure 9 depicts what materials were beneficially used in Southwest District.

Southwest District Office	
Permit Type	Number of Permits
Beneficial Use General Permits	6
Beneficial Use Individual Permits	3
Land Application Management Plan Permits	2
Integrated Alternative Waste Management Project Permits	1

Table 6: Total number of each permit type for permittees located in Ohio EPA's Southwest District in 2020.

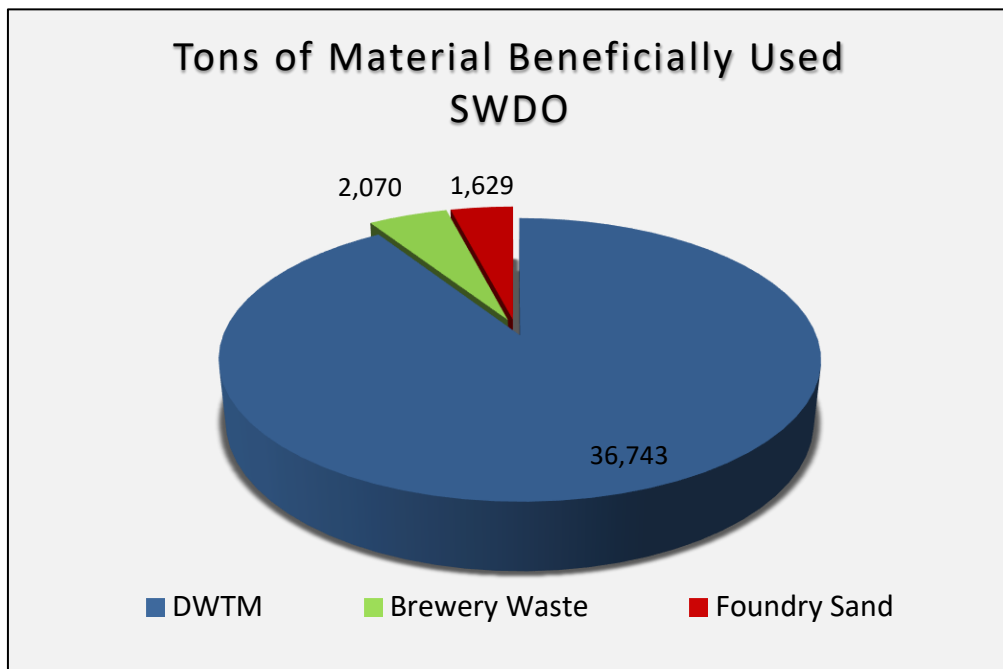


Figure 9: Totals of each material, in dry tons, beneficially used in 2020 in Southwest District.

Contact

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