VII. Measurement of Progress Toward Waste Reduction Goals [ORC Section 3734.53(A)]

A. Compliance with Goal #2

The District annually conducts a comprehensive survey that has consistently provided high quality waste reduction data over the last several years. This data, coupled with District waste generation, has resulted in the District achieving in the reference year a 40% waste reduction rate in the residential/commercial sector and a 67% waste reduction rate in the industrial sector. Therefore, the District is choosing to show compliance with Goal #2 of the 1995 State Solid Waste Management Plan. Goal #2 requires solid waste districts to:

- Reduce or recycle at least 25% of the residential/commercial waste generated; and
- Reduce or recycle at least 50% of the industrial waste generated.

B. Compliance with Goal #2

Since the District's *Plan Update* is based on Goal #2, plan format tables VII-1 and VII-2 are not applicable and have been omitted. The District does meet Goal #2 of the 1995 State Plan.

C. Demonstration of Compliance with Goal #2

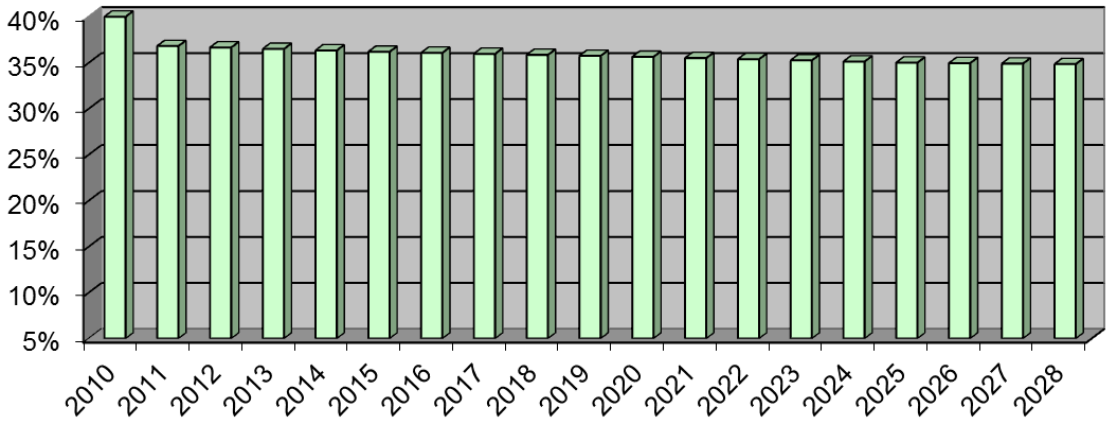
In 2010, 40% of the District's residential/commercial waste stream was recycled including yard waste (Table VII-3). This equates in a pounds per person per day (PPPD) rate of 2.07.

Approximately 40% of the solid waste recycled by the residential/commercial sector is residential. This includes the curbside and drop-off recycling programs, yard waste management and household hazardous waste collection programs. Solid waste recycled by the commercial businesses is approximately 53% of the waste recycled within the residential/commercial sector. Many commercial businesses have a commitment to recycling and have determined the economic benefits of recycling, in particular cardboard, paper, wood and metals.

The District is committed to maintaining or exceeding the state goals for recycling and waste reduction. The programs presented in Section V and included in Table VI-5 illustrate the District's plans to continue to increase the amount of recyclables and materials that are recycled.

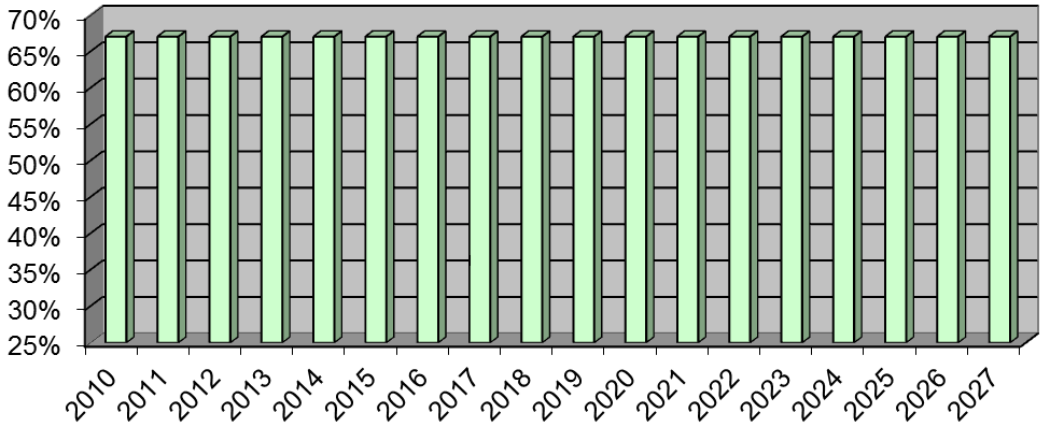
The District will continue to exceed the 25% waste reduction rate throughout the planning period based on the District's projections for successful recycling programs and waste generation within the District. In 2028, the final year of the planning period, the District anticipates a 35% waste reduction rate for the residential/commercial section. This equates in a pounds per person per day (PPPD) rate of 2.07. The following graph depicts the residential/commercial sector waste reduction rate throughout the planning period.

Residential/Commercial Waste Reduction Percentage (2010 – 2028)



In 2010, 67% of industrial solid waste was recycled (Table VII-4). This equates in a pounds per person per day (PPPD) rate of 6.00. In 2028, the final year of the planning period, the District anticipates a 67% waste reduction rate for the industrial sector. This equates in a pounds per person per day (PPPD) rate of 5.67. The following graph depicts the industrial sector waste reduction rate throughout the planning period.

Industrial Waste Reduction Percentage (2010 – 2028)



In 2010, the District's total waste reduction rate (residential/commercial plus industrial) was 57% (Table VII-5). This equates in a pounds per person per day (PPPD) rate of 8.07. The District anticipates that the total waste reduction rate will slightly decrease to 54% by 2028, the final year of the planning period. This equates in a pounds per person per day (PPPD) rate of 7.73. The projected decrease is primarily based on the reduction from the industrial sector coupled with projected increases in waste generation from the residential sector. The following graph depicts all sectors waste reduction rate throughout the planning period.

Total District Waste Reduction Percentage (2010 – 2028)

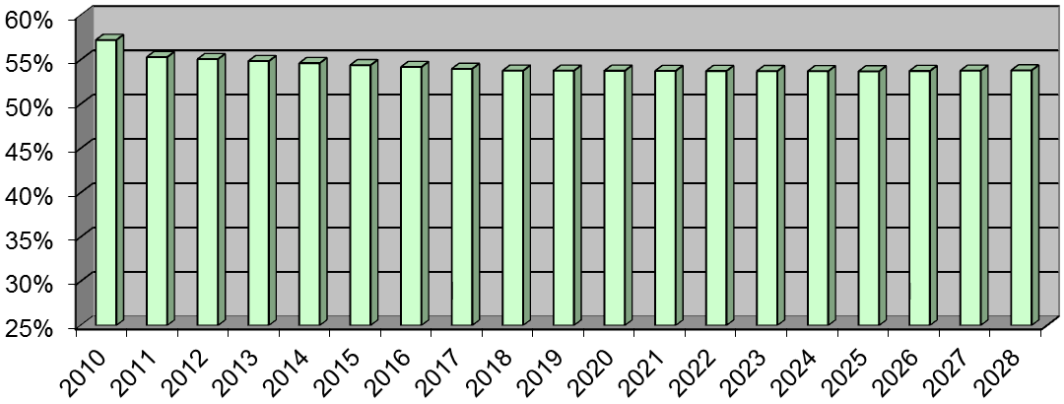


Table VII-3
Annual Rate of Waste Reduction: Residential/Commercial Waste

Year	Recycling	Composting	Landfill	Tons Waste Reduction	Population	Waste Reduction Rate (%)	Per Capita Waste Reduction Rate (lb/day)
2010	8,332	2,309	15,909	10,641	28,215	40%	2.07
2011	8,342	2,312	18,289	10,654	28,277	37%	2.06
2012	8,352	2,315	18,435	10,667	28,339	37%	2.06
2013	8,362	2,317	18,583	10,679	28,401	36%	2.06
2014	8,372	2,320	18,731	10,692	28,463	36%	2.06
2015	8,382	2,323	18,879	10,705	28,525	36%	2.06
2016	8,392	2,326	18,993	10,718	28,553	36%	2.06
2017	8,402	2,328	19,108	10,731	28,581	36%	2.06
2018	8,412	2,331	19,223	10,743	28,609	36%	2.06
2019	8,422	2,334	19,338	10,756	28,637	36%	2.06
2020	8,432	2,337	19,454	10,769	28,665	36%	2.06
2021	8,442	2,339	19,585	10,782	28,707	36%	2.06
2022	8,452	2,342	19,717	10,795	28,749	35%	2.06
2023	8,463	2,345	19,850	10,808	28,791	35%	2.06
2024	8,473	2,348	19,983	10,820	28,833	35%	2.06
2025	8,483	2,351	20,117	10,833	28,875	35%	2.06
2026	8,493	2,353	20,187	10,846	28,857	35%	2.06
2027	8,503	2,356	20,257	10,859	28,839	35%	2.06
2028	8,513	2,359	20,327	10,872	28,821	35%	2.07

Source(s) of information:
Recycling and Composting data - Table VI-2.
Landfill data - Table VI-2.
No other waste management methods are used.

Example calculation (2010):
Recycling + Composting = Tons Waste Reduction

8,332 tons + 2,309 = 10,641 tons

Tons Waste Reduction / (Tons Waste Reduction + Landfill) x 100 = Waste Reduction Rate

10,641 tons / (10,641 tons + 15,909 tons) x 100 = 40%

Tons Waste Reduction x 2,000 lbs/ton / (District Population x 365 days/year) = Per Capita Waste Reduction Rate

(10,641 tons x 2,000) / (28,215 x 365) = 2.07 lb/day

Table VII-4
Annual Rate of Waste Reduction: Industrial Waste

Year	Total Waste Reduction	Landfill	Population	Waste Reduction Rate (%)	Per Capita Waste Reduction Rate (lb/day)
2010	30,917	15,177	28,215	67%	6.00
2011	30,395	14,921	28,277	67%	5.89
2012	29,881	14,668	28,339	67%	5.78
2013	29,376	14,420	28,401	67%	5.67
2014	28,879	14,177	28,463	67%	5.56
2015	28,391	13,937	28,525	67%	5.45
2016	27,912	13,702	28,553	67%	5.36
2017	27,440	13,470	28,581	67%	5.26
2018	26,976	13,242	28,609	67%	5.17
2019	27,246	13,375	28,637	67%	5.21
2020	27,518	13,509	28,665	67%	5.26
2021	27,794	13,644	28,707	67%	5.31
2022	28,071	13,780	28,749	67%	5.35
2023	28,352	13,918	28,791	67%	5.40
2024	28,636	14,057	28,833	67%	5.44
2025	28,922	14,198	28,875	67%	5.49
2026	29,211	14,340	28,857	67%	5.55
2027	29,503	14,483	28,839	67%	5.61
2028	29,798	14,628	28,821	67%	5.67

Source(s) of information:
Waste reduction data - Table VI-3.
Landfill data - Table VI-3.
No other waste management methods are used.

Example calculation (2010):

Tons Waste Reduction / (Tons Waste Reduction + Landfill) *100 = Waste Reduction Rate
30,917 tons / (30,917 tons + 15,177 tons) * 100 = 67 %

Tons Waste Reduction * 2000 lbs/ton / (District Population * 365 days/year) = Per Capita Waste Reduction Rate
(30,917 tons * 2000) / (28,215 * 365) = 6.00 lb/day

Table VII-5
Annual Rate of Waste Reduction: Total District Solid Waste

Year	Recycling and Source Reduction	Composting	Landfill	Tons Waste Reduction	Population	Waste Reduction Rate (%)	Per Capita Waste Reduction Rate (lb/day)
2010	39,249	2,309	31,086	41,558	28,215	57%	8.07
2011	38,737	2,312	33,209	41,049	28,277	55%	7.95
2012	38,233	2,315	33,104	40,548	28,339	55%	7.84
2013	37,738	2,317	33,003	40,055	28,401	55%	7.73
2014	37,252	2,320	32,907	39,572	28,463	55%	7.62
2015	36,774	2,323	32,816	39,096	28,525	54%	7.51
2016	36,304	2,326	32,695	38,629	28,553	54%	7.41
2017	35,842	2,328	32,578	38,170	28,581	54%	7.32
2018	35,388	2,331	32,465	37,719	28,609	54%	7.22
2019	35,668	2,334	32,713	38,002	28,637	54%	7.27
2020	35,951	2,337	32,963	38,287	28,665	54%	7.32
2021	36,236	2,339	33,229	38,575	28,707	54%	7.36
2022	36,524	2,342	33,497	38,866	28,749	54%	7.41
2023	36,815	2,345	33,768	39,160	28,791	54%	7.45
2024	37,108	2,348	34,040	39,456	28,833	54%	7.50
2025	37,405	2,351	34,314	39,755	28,875	54%	7.54
2026	37,704	2,353	34,526	40,058	28,857	54%	7.61
2027	38,006	2,356	34,740	40,363	28,839	54%	7.67
2028	38,312	2,359	34,955	40,671	28,821	54%	7.73

Source(s) of information:
Recycling and composting data from Table VI-2 and VI-3
Landfill data from Table VI-3 and VI-4.
No other waste management methods are used.

Example calculations (2010):
Recycling/Source Reduction + Composting = Tons Waste Reduction
39,249 tons + 2,309 tons = 41,558 tons

Tons Waste Reduction / (Tons Waste Reduction + Landfill) x 100 = Waste Reduction Rate
41,558 tons / (41,558 tons + 31,086 tons) x 100 = 57%

Tons Waste Reduction x 2,000 lbs/ton / (District Population x 365 days/year) = Per Capita Waste Reduction Rate
(41,558 tons x 2,000) / (28,215 x 365) = 8.07 lb/day