

APPENDIX G Waste Generation

A. Historical Year Waste Generated

Table G-1 Reference Year and Historical Waste Generated

Year	Population	Residential/ Commercial				Industrial			Total (tons) Res/Com + Ind.
		Disposed (tons)	Recycled (tons)	Generated (tons)	Per Capita Generated (ppd)	Disposed (tons)	Recycled (tons)	Generated (tons)	
2014	52,363	34,830	10,341	45,171	4.73	955	17,307	18,262	63,433
2015	51,359	35,480	14,713	50,193	5.36	1,312	17,180	18,492	68,685
2016	50,968	38,482	11,486	49,968	5.37	1,387	15,734	17,121	67,089
2017	50,682	40,207	11,811	52,018	5.62	1,924	14,113	16,037	68,055
2018	50,469	42,784	10,515	53,299	5.79	2,719	14,695	17,415	70,714

Sources of Information: The residential/commercial and industrial tons disposed are from the OEPA Annual District Report Reviews, “Disposal, Recycling, and Generation Summary for the years 2014 through 2018. The residential/commercial recycling is the corrected total recycling as reported in APPENDIX E, Table E-7, “Historical Residential/Commercial Recovery by Program/Source” The data was originally compiled for the 2014 through 2018 Annual District Reports, but some errors were found in the calculation and have been corrected for this Plan. Industrial Recycling is as reported in APPENDIX F Table F-6.

Sample Calculations: The Generated Waste tonnage is the sum of disposed waste and recycled material.

Per capita generation rate = $((\text{tons generated} \times 2000) \div 365) \div \text{population}$

The calculation for 2014 Res/com: $(45,171 \times 2000) \div 365 \div 52,363 = 4.73$ ppd.

Total tons = Res/Com tons generated + industrial tons generated.

1. Residential/Commercial Waste

Table G-1 shows that although the estimated population of the District decreased slightly from 2014 through 2018, the amount of residential/commercial waste generated, and the amount of waste sent for disposal increased. Appendix D, Table D-5a, showed the disposal rate for selected rural and partly rural SWMDs and the average disposal rate for Ohio in 2018. Table G-1a That follows shows the waste generation rate in pounds per person per day (ppd) for the same SWMDs listed in Table D-5a and for Ohio.

Table G-1a Historic Data 2014 through 2018 showing Residential/Commercial Disposal Rates for Selected SWMDs and Ohio using ppd

Year	All Ohio	North Central SWD	Miami SWD	Mercer SWD	Preble SWD	Auglaize SWD	Darke SWD
2014	6.29	4.9	5.12	5.11	3.4	4.69	4.73
2015	6.35	5.4	5.73	5.17	3.6	4.01	5.36
2016	6.32	4.74	5.93	4.99	3.96	4.03	5.37
2017	6.64	5.05	5.9	4.99	4.02	5.00	5.62
2018	6.85	5.81	6.08	5.21	3.92	4.70	5.79

These Districts were selected because they are in the same part of the state and are primarily rural with some industrial activity. With the exception of the North Central District, which is a six county District, they are single county Districts. It should be noted that, with the exception of Mercer and Auglaize Counties where the per person disposal rate rose by less than .1 ppd from 2014 to 2018. The other Districts, including Darke County, and the State of Ohio show an increase in average per person disposal of between ½ pound to one pound per person per day. Although this trend is not unique to Darke County, it is a trend that concerns the District.

2. Industrial Waste

The total amount of residential/commercial waste generated in the District is a little more than double the amount of industrial waste generated. However, due to the high rate of industrial waste recovery, industrial waste disposal in the highest year, 2018, was only 6% of total waste disposal. The industrial recycling rate in 2018 was 84%. Although the District is always looking for ways that they can work with industry to reduce waste, the District believes that the majority of the District's resources should continue to be aimed at reducing the amount of residential/commercial materials that require disposal.

3. Excluded Waste

In the reference year, 2018, excluded waste was less than 4.2% of the waste sent for disposal and was only 2.8% of total waste generation. The District has chosen not to address excluded waste in detail in this Plan.

B. Generation Projections

The generation projections for the District are explained in Appendices D, E, and F. Table G-2 is a composite of the projections. Residential/commercial waste generation is expected to decrease slowly during the planning period. Disposal is expected to decrease as the percent of waste diverted through recycling participation increases. Industrial generation is expected to increase modestly over the planning period.

Table G-2: Generation Projections

Year	Pop.	Residential/ Commercial				Industrial			Total (tons)	Annual % Change
		Disposal (tons)	Recycle (tons)	Generation (tons)	Per Capita Generation (ppd)	Disposal (tons)	Recycle (tons)	Generation (tons)		
2018	50,469	42,784	10,515	53,299	5.79	2,719	14,696	17,415	70,714	-----
2019	50,603	37,956	8,922	46,878	5.08	2,883	14,200	17,083	63,961	-9.5%
2020	50,422	37,820	9,350	47,171	5.13	3,056	12,780	15,836	63,007	-1.5%
2021	50,107	37,584	11,832	49,416	5.40	3,239	14,200	17,439	66,855	6.1%
2022	49,793	37,348	11,757	49,106	5.40	3,433	14,700	18,133	67,239	0.6%
2023	49,478	37,112	11,825	48,937	5.42	3,639	14,700	18,339	67,277	0.1%
2024	49,163	36,876	11,930	48,806	5.44	3,858	14,700	18,558	67,364	0.1%
2025	48,848	36,640	12,032	48,672	5.46	4,089	14,700	18,789	67,461	0.1%
2026	48,575	36,435	12,143	48,578	5.48	4,334	14,700	19,034	67,612	0.2%
2027	48,301	36,229	12,075	48,304	5.48	4,595	14,700	19,295	67,599	0.0%
2028	48,028	36,025	12,007	48,032	5.48	4,870	14,700	19,570	67,602	0.0%
2029	47,754	35,819	11,939	47,758	5.48	4,870	14,700	19,570	67,329	-0.4%
2030	47,481	35,614	11,872	47,486	5.48	4,870	14,700	19,570	67,056	-0.4%
2031	47,207	35,409	11,804	47,212	5.48	4,870	14,700	19,570	66,783	-0.4%
2032	46,934	35,204	11,736	46,940	5.48	4,870	14,700	19,570	66,510	-0.4%
2033	46,661	34,999	11,668	46,667	5.48	4,870	14,700	19,570	66,238	-0.4%
2034	46,387	34,794	11,600	46,394	5.48	4,870	14,700	19,570	65,964	-0.4%
2035	46,114	34,589	11,532	46,121	5.48	4,870	14,700	19,570	65,692	-0.4%
2036	45,996	34,500	11,503	46,004	5.48	4,870	14,700	19,570	65,574	-0.2%

Planning period 2022 to 2036.