

APPENDIX H

Supporting Data Sources

Erie County
2009 Population Estimates For Cities, Villages, and Townships
Revised



Name	Population				Average Annual Rate of Change (b)
	Estimates				
	Census 4/1/00	Base 4/1/00 (a)	Estimate 7/1/08	Estimate 7/1/09	
Erie County	79,551	79,551	77,339	76,963	-0.4%
Bay View village	692	692	640	636	-1.0%
Bellevue city (pt.)	0	5	6	7	4.2%
Berlin Heights village	685	685	638	634	-0.9%
Castalia village	935	938	876	870	-0.9%
Huron city	7,958	7,943	7,359	7,327	-1.0%
Kelleys Island village	367	367	388	388	0.7%
Milan village (pt.)	1,025	1,025	941	935	-1.1%
Sandusky city	27,844	27,844	25,805	25,651	-1.0%
Vermilion city (pt.)	4,937	4,937	4,680	4,657	-0.7%
Balance of Erie County	35,108	35,115	36,006	35,858	0.3%
Bellevue city (pt.)	0	5	6	7	4.2%
Berlin township	3,702	3,702	3,648	3,625	-0.3%
Berlin Heights village	685	685	638	634	-0.9%
Balance of Berlin township	3,017	3,017	3,010	2,991	-0.1%
Florence township	2,500	2,500	2,533	2,522	0.1%
Groton township	1,384	1,377	1,379	1,370	-0.1%
Huron township	10,530	10,530	10,609	10,576	0.1%
Huron city	7,958	7,943	7,359	7,327	-1.0%
Balance of Huron township	2,572	2,587	3,250	3,249	2.8%
Kelleys Island village	367	367	388	388	0.7%
Margaretta township	6,289	6,282	6,097	6,070	-0.4%
Bay View village	692	692	640	636	-1.0%
Castalia village	935	938	876	870	-0.9%
Balance of Margaretta township	4,662	4,652	4,581	4,564	-0.2%
Milan township	3,686	3,686	3,610	3,590	-0.3%
Milan village (pt.)	1,025	1,025	941	935	-1.1%
Balance of Milan township	2,661	2,661	2,669	2,655	0.0%
Oxford township	1,096	1,105	1,082	1,076	-0.3%
Perkins township	12,578	12,578	12,814	12,760	0.2%
Sandusky city	27,844	27,844	25,805	25,651	-1.0%
Vermilion township	9,575	9,575	9,368	9,328	-0.3%
Vermilion city (pt.)	4,937	4,937	4,680	4,657	-0.7%
Balance of Vermilion township	4,638	4,638	4,688	4,671	0.1%

n.a. - Could not calculate. Division by zero.

--- Denotes that entity did not exist as currently structured as of April 1, 2000, Census Day.

(a) Used for calculating average annual rate of change.

(b) Average annual rate of change from April 1, 2000 to July 1, 2009.

Source: Population Estimates Division, U.S. Census Bureau.

Prepared by: Office of Policy, Research, and Strategic Planning, Ohio Department of Development.

Huron County
2009 Population Estimates For Cities, Villages, and Townships
Revised



Department of
Development

Name	Population				Average Annual Rate of Change (b)
	Estimates			Estimate 7/1/09	
	Census 4/1/00	Base 4/1/00 (a)	Estimate 7/1/08		
Huron County	59,487	59,487	60,067	59,849	0.1%
Bellevue city (pt.)	3,841	3,856	3,706	3,701	-0.5%
Greenwich village	1,525	1,525	1,516	1,505	-0.2%
Milan village (pt.)	420	420	407	404	-0.5%
Monroeville village	1,433	1,433	1,351	1,339	-0.8%
New London village	2,696	2,696	2,623	2,601	-0.4%
North Fairfield village	573	573	566	561	-0.3%
Norwalk city	16,238	16,602	16,823	16,855	0.2%
Plymouth village (pt.)	849	860	844	838	-0.3%
Wakeman village	951	933	937	931	0.0%
Willard city	6,806	6,814	6,648	6,592	-0.4%
Balance of Huron County	24,155	23,775	24,646	24,522	0.4%
Bellevue city (pt.)	3,841	3,856	3,706	3,701	-0.5%
Bronson township	1,780	1,780	1,941	1,939	1.0%
Clarksfield township	1,518	1,518	1,716	1,705	1.4%
Fairfield township	1,284	1,284	1,261	1,252	-0.3%
North Fairfield village	573	573	566	561	-0.3%
Balance of Fairfield township	711	711	695	691	-0.3%
Fitchville township	1,012	1,012	1,024	1,018	0.1%
Greenfield township	1,442	1,442	1,500	1,491	0.4%
Greenwich village	1,525	1,525	1,516	1,505	-0.2%
Greenwich township	954	954	1,024	1,017	0.8%
Hartland township	979	979	993	988	0.1%
Lyme township	968	953	1,017	1,014	0.8%
New Haven township	2,860	2,860	2,802	2,784	-0.3%
Plymouth village (pt.)	849	860	844	838	-0.3%
Balance of New Haven township	2,011	2,000	1,958	1,946	-0.3%
New London township	3,440	3,440	3,328	3,301	-0.5%
New London village	2,696	2,696	2,623	2,601	-0.4%
Balance of New London township	744	744	705	700	-0.7%
Norwalk city	16,238	16,602	16,823	16,855	0.2%
Norwalk township	3,685	3,321	3,328	3,305	-0.1%
Milan village (pt.)	420	420	407	404	-0.5%
Balance of Norwalk township	3,265	2,901	2,921	2,901	0.0%
Norwich township	1,072	1,072	1,144	1,141	0.8%
Peru township	1,043	1,043	1,050	1,045	0.0%
Richmond township	1,111	1,103	1,082	1,076	-0.3%
Ridgefield township	2,390	2,390	2,315	2,296	-0.5%
Monroeville village	1,433	1,433	1,351	1,339	-0.8%
Balance of Ridgefield township	957	957	964	957	0.0%
Ripley township	943	943	994	988	0.6%
Sherman township	501	501	531	537	0.8%
Townsend township	1,567	1,567	1,687	1,679	0.8%
Wakeman township	2,528	2,528	2,637	2,620	0.4%
Wakeman village	951	933	937	931	0.0%
Balance of Wakeman township	1,577	1,595	1,700	1,689	0.7%
Willard city	6,806	6,814	6,648	6,592	-0.4%

n.a. - Could not calculate. Division by zero.

... Denotes that entity did not exist as currently structured as of April 1, 2000, Census Day.

Lorain County
2009 Population Estimates For Cities, Villages, and Townships
Revised



Name	Population				Average Annual Rate of Change (b)
	Estimates		Estimate 7/1/08	Estimate 7/1/09	
	Census 4/1/00	Base 4/1/00 (a)			
Lorain County	284,664	284,668	304,639	305,707	0.9%
Amherst city	11,797	11,797	11,732	11,738	-0.1%
Avon city	11,446	11,446	17,098	17,427	5.2%
Avon Lake city	18,145	18,145	23,996	24,351	3.6%
Elyria city	55,953	56,039	55,007	54,947	-0.2%
Grafton village	2,302	6,015	6,715	6,374	0.7%
Kipton village	265	265	246	246	-0.9%
LaGrange village	1,815	1,851	2,010	2,021	1.1%
Lorain city	68,652	68,656	70,237	70,260	0.3%
North Ridgeville city	22,338	22,338	28,173	28,781	3.1%
Oberlin city	8,195	8,268	8,397	8,440	0.2%
Rochester village	190	190	182	181	-0.6%
Sheffield village	2,949	2,949	3,518	3,519	2.2%
Sheffield Lake city	9,371	9,371	8,911	8,912	-0.6%
South Amherst village	1,863	1,863	1,747	1,745	-0.8%
Vermilion city (pt.)	5,990	5,974	6,090	6,095	0.2%
Wellington village	4,511	4,525	4,709	4,731	0.5%
Balance of Lorain County	58,882	54,976	55,871	55,939	0.2%
Amherst city	11,797	11,797	11,732	11,738	-0.1%
Amherst township	7,598	7,598	7,600	7,584	0.0%
South Amherst village (pt.)	1,424	1,424	1,337	1,335	-0.8%
Balance of Amherst township	6,174	6,174	6,263	6,249	0.1%
Avon city	11,446	11,446	17,098	17,427	5.2%
Avon Lake city	18,145	18,145	23,996	24,351	3.6%
Brighton township	942	942	1,002	1,010	0.8%
Brownhelm township	7,782	7,782	8,037	8,066	0.4%
Vermilion city (pt.)	5,990	5,974	6,090	6,095	0.2%
Balance of Brownhelm township	1,792	1,808	1,947	1,971	1.1%
Camden township	1,530	1,534	1,560	1,568	0.3%
Kipton village	265	265	246	246	-0.9%
Balance of Camden township	1,265	1,269	1,314	1,322	0.5%
Carlisle township	7,339	7,283	7,158	7,149	-0.2%
Columbia township	6,912	6,912	6,990	7,001	0.2%
Eaton township	9,675	5,951	5,805	5,816	-0.3%
Elyria city	55,953	56,039	55,007	54,947	-0.2%
Elyria township	3,520	3,479	3,311	3,307	-0.6%
Grafton village	2,302	6,015	6,715	6,374	0.7%
Grafton township	2,722	2,728	2,905	2,923	0.8%
Henrietta township	1,873	1,873	1,873	1,883	0.1%
Huntington township	1,282	1,282	1,436	1,443	1.4%
LaGrange township	5,972	5,965	6,212	6,224	0.5%
LaGrange village	1,815	1,851	2,010	2,021	1.1%
Balance of LaGrange township	4,157	4,114	4,202	4,203	0.3%
Lorain city	68,652	68,656	70,237	70,260	0.3%
New Russia township	2,357	2,301	2,348	2,347	0.2%
South Amherst village (pt.)	439	439	410	410	-0.8%
Balance of New Russia township	1,918	1,862	1,938	1,937	0.5%
North Ridgeville city	22,338	22,338	28,173	28,781	3.1%
Oberlin city	8,195	8,268	8,397	8,440	0.2%

Erie County
2014 Population Estimates For Cities, Villages, and Townships



Name	Population			Average Annual Rate of Change (b)
	Census 4/1/10	Estimates Base 4/1/10 (a)	Estimate 7/1/14	
Erie County	77,079	77,079	75,828	-0.4%
Bay View village	632	632	616	-0.6%
Bellevue city (pt.)	2	2	2	0.0%
Berlin Heights village	714	714	695	-0.6%
Castalia village	852	850	835	-0.4%
Huron city	7,149	7,148	7,045	-0.3%
Kelleys Island village	312	312	312	0.0%
Milan village (pt.)	1,004	1,004	988	-0.4%
Sandusky city	25,793	25,919	25,346	-0.5%
Vermilion city (pt.)	4,742	4,742	4,663	-0.4%
Balance of Erie County	35,879	35,756	35,326	-0.3%
Bellevue city (pt.)	2	2	2	0.0%
Berlin township	3,723	3,723	3,658	-0.4%
Berlin Heights village	714	714	695	-0.6%
Balance of Berlin township	3,009	3,009	2,963	-0.4%
Florence township	2,448	2,448	2,409	-0.4%
Groton township	1,427	1,427	1,399	-0.5%
Huron township	10,697	10,709	10,657	-0.1%
Huron city	7,149	7,148	7,045	-0.3%
Balance of Huron township	3,548	3,561	3,612	0.3%
Kelleys Island village	312	312	312	0.0%
Margaretta township	5,981	5,980	5,904	-0.3%
Bay View village	632	632	616	-0.6%
Castalia village	852	850	835	-0.4%
Balance of Margaretta township	4,497	4,498	4,453	-0.2%
Milan township	3,606	3,594	3,542	-0.3%
Milan village (pt.)	1,004	1,004	988	-0.4%
Balance of Milan township	2,602	2,590	2,554	-0.3%
Oxford township	1,201	1,201	1,188	-0.3%
Perkins township	12,202	12,077	11,911	-0.3%
Sandusky city	25,793	25,919	25,346	-0.5%
Vermilion city (pt.)	4,742	4,742	4,663	-0.4%
Vermilion township	4,945	4,945	4,837	-0.5%

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(a) Used for calculating average annual rate of change. (b) Average annual rate of change from April 1, 2010 to July 1, 2014.

Source: Population Estimates Division, U.S. Census Bureau. Prepared by: Office of Research, Ohio Development Services Agency.

Huron County
2014 Population Estimates For Cities, Villages, and Townships



Name	Population			Average Annual Rate of Change (b)
	Census 4/1/10	Estimates Base 4/1/10 (a)	Estimate 7/1/14	
Huron County	59,626	59,626	58,714	-0.4%
Bellevue city (pt.)	3,673	3,673	3,593	-0.5%
Greenwich village	1,476	1,476	1,439	-0.6%
Milan village (pt.)	363	363	358	-0.3%
Monroeville village	1,400	1,400	1,377	-0.4%
New London village	2,461	2,461	2,395	-0.6%
North Fairfield village	560	560	542	-0.8%
Norwalk city	17,012	17,013	16,898	-0.2%
Plymouth village (pt.)	909	909	888	-0.5%
Wakeman village	1,047	1,047	1,038	-0.2%
Willard city	6,236	6,236	6,094	-0.5%
Balance of Huron County	24,489	24,488	24,092	-0.4%
Bellevue city (pt.)	3,673	3,673	3,593	-0.5%
Bronson township	1,973	1,973	1,963	-0.1%
Clarksfield township	1,625	1,625	1,607	-0.3%
Fairfield township	1,218	1,218	1,181	-0.7%
North Fairfield village	560	560	542	-0.8%
Balance of Fairfield township	658	658	639	-0.7%
Fitchville township	1,056	1,056	1,033	-0.5%
Greenfield township	1,374	1,374	1,372	0.0%
Greenwich village	1,476	1,476	1,439	-0.6%
Greenwich township	1,044	1,044	1,033	-0.2%
Hartland township	1,112	1,112	1,088	-0.5%
Lyme township	853	853	842	-0.3%
New Haven township	2,621	2,621	2,558	-0.6%
Plymouth village (pt.)	909	909	888	-0.5%
Balance of New Haven township	1,712	1,712	1,670	-0.6%
New London township	3,268	3,268	3,184	-0.6%
New London village	2,461	2,461	2,395	-0.6%
Balance of New London township	807	807	789	-0.5%
Norwalk city	17,012	17,013	16,898	-0.2%
Norwalk township	3,591	3,590	3,513	-0.5%
Milan village (pt.)	363	363	358	-0.3%
Balance of Norwalk township	3,228	3,227	3,155	-0.5%
Norwich township	1,070	1,070	1,056	-0.3%
Peru township	1,105	1,105	1,086	-0.4%
Richmond township	1,102	1,102	1,081	-0.5%
Ridgefield township	2,329	2,329	2,304	-0.3%
Monroeville village	1,400	1,400	1,377	-0.4%
Balance of Ridgefield township	929	929	927	-0.1%
Ripley township	1,024	1,024	1,000	-0.6%
Sherman township	510	510	511	0.0%
Townsend township	1,623	1,623	1,602	-0.3%
Wakeman township	2,731	2,731	2,676	-0.5%
Wakeman village	1,047	1,047	1,038	-0.2%
Balance of Wakeman township	1,684	1,684	1,638	-0.6%
Willard city	6,236	6,236	6,094	-0.5%

n.a. - Could not calculate. Division by zero. *---* Denotes that entity did not exist as currently structured as of April 1, 2010, Census Day.

(a) Used for calculating average annual rate of change. (b) Average annual rate of change from April 1, 2010 to July 1, 2014.

Source: Population Estimates Division, U.S. Census Bureau. Prepared by: Office of Research, Ohio Development Services Agency.

Lorain County
2014 Population Estimates For Cities, Villages, and Townships



Name	Population			Average Annual Rate of Change (b)
	Census 4/1/10	Estimates Base 4/1/10 (a)	Estimate 7/1/14	
Lorain County	301,356	301,356	304,216	0.2%
Amherst city	12,021	12,021	12,143	0.2%
Avon city	21,193	21,191	22,302	1.2%
Avon Lake city	22,581	22,581	23,204	0.6%
Elyria city	54,533	54,533	53,972	-0.2%
Grafton village	6,636	6,636	6,077	-2.0%
Kipton village	243	243	242	-0.1%
LaGrange village	2,103	2,103	2,120	0.2%
Lorain city	64,097	64,097	63,776	-0.1%
North Ridgeville city	29,465	29,466	31,871	1.9%
Oberlin city	8,286	8,286	8,251	-0.1%
Rochester village	182	182	181	-0.1%
Sheffield village	3,982	3,983	4,038	0.3%
Sheffield Lake city	9,137	9,137	9,058	-0.2%
South Amherst village	1,688	1,688	1,674	-0.2%
Vermilion city (pt.)	5,852	5,844	5,815	-0.1%
Wellington village	4,802	4,807	4,846	0.2%
Balance of Lorain County	54,555	54,558	54,646	0.0%
Amherst city	12,021	12,021	12,143	0.2%
Amherst township	6,844	6,844	6,804	-0.1%
South Amherst village (pt.)	1,116	1,116	1,104	-0.3%
Balance of Amherst township	5,728	5,728	5,700	-0.1%
Avon city	21,193	21,191	22,302	1.2%
Avon Lake city	22,581	22,581	23,204	0.6%
Brighton township	915	915	905	-0.3%
Brownhelm township	7,618	7,618	7,652	0.1%
Vermilion city (pt.)	5,852	5,844	5,815	-0.1%
Balance of Brownhelm township	1,766	1,774	1,837	0.8%
Camden township	1,667	1,667	1,657	-0.1%
Kipton village	243	243	242	-0.1%
Balance of Camden township	1,424	1,424	1,415	-0.1%
Carlisle township	7,500	7,502	7,458	-0.1%
Columbia township	7,040	7,040	7,153	0.4%
Eaton township	5,750	5,748	5,813	0.3%
Elyria city	54,533	54,533	53,972	-0.2%
Elyria township	3,266	3,266	3,229	-0.3%
Grafton village	6,636	6,636	6,077	-2.0%
Grafton township	2,833	2,833	2,839	0.0%
Henrietta township	1,861	1,861	1,858	0.0%
Huntington township	1,341	1,341	1,330	-0.2%
LaGrange township	6,164	6,164	6,170	0.0%
LaGrange village	2,103	2,103	2,120	0.2%
Balance of LaGrange township	4,061	4,061	4,050	-0.1%
Lorain city	64,097	64,097	63,776	-0.1%
New Russia township	2,515	2,515	2,510	0.0%
South Amherst village (pt.)	572	572	570	-0.1%
Balance of New Russia township	1,943	1,943	1,940	0.0%

continued

Sandusky County
2014 Population Estimates For Cities, Villages, and Townships



Name	Population			Average Annual Rate of Change (b)
	Census 4/1/10	Estimates Base 4/1/10 (a)	Estimate 7/1/14	
Sandusky County	60,944	60,944	60,179	-0.3%
Bellevue city (pt.)	4,527	4,528	4,464	-0.3%
Burgoon village	172	172	171	-0.1%
Clyde city	6,325	6,404	6,312	-0.3%
Elmore village (pt.)	0	0	0	n.a.
Fremont city	16,734	16,734	16,448	-0.4%
Gibsonburg village	2,581	2,581	2,588	0.1%
Green Springs village (pt.)	738	738	725	-0.4%
Helena village	224	224	222	-0.2%
Lindsey village	446	446	435	-0.6%
Woodville village	2,135	2,135	2,102	-0.4%
Balance of Sandusky County	27,062	26,982	26,712	-0.2%
Ballville township	5,985	5,985	5,929	-0.2%
Bellevue city (pt.)	4,527	4,528	4,464	-0.3%
Clyde city	6,325	6,404	6,312	-0.3%
Fremont city	16,734	16,734	16,448	-0.4%
Green Creek township	3,646	3,567	3,519	-0.3%
Green Springs village (pt.)	738	738	725	-0.4%
Jackson township	1,608	1,608	1,595	-0.2%
Burgoon village	172	172	171	-0.1%
Helena village (pt.)	133	133	132	-0.2%
Balance of Jackson township	1,303	1,303	1,292	-0.2%
Madison township	3,850	3,850	3,839	-0.1%
Gibsonburg village (pt.)	2,577	2,577	2,584	0.1%
Balance of Madison township	1,273	1,273	1,255	-0.3%
Rice township	1,370	1,370	1,344	-0.4%
Riley township	1,226	1,226	1,214	-0.2%
Sandusky township	3,619	3,619	3,578	-0.3%
Scott township	1,437	1,437	1,462	0.4%
Townsend township	1,620	1,620	1,600	-0.3%
Washington township	2,332	2,332	2,286	-0.5%
Elmore village (pt.)	0	0	0	n.a.
Gibsonburg village (pt.)	0	0	0	n.a.
Helena village (pt.)	91	91	90	-0.3%
Lindsey village	446	446	435	-0.6%
Balance of Washington township	1,795	1,795	1,761	-0.4%
Woodville township	3,395	3,395	3,366	-0.2%
Gibsonburg village (pt.)	4	4	4	0.0%
Woodville village	2,135	2,135	2,102	-0.4%
Balance of Woodville township	1,256	1,256	1,260	0.1%
York township	2,532	2,531	2,498	-0.3%

n.a. - Could not calculate. Division by zero. *---* Denotes that entity did not exist as currently structured as of April 1, 2010, Census Day.

(a) Used for calculating average annual rate of change. (b) Average annual rate of change from April 1, 2010 to July 1, 2014.

Source: Population Estimates Division, U.S. Census Bureau. Prepared by: Office of Research, Ohio Development Services Agency.

**DEVELOPMENT SERVICES AGENCY
POPULATION PROJECTIONS: County Totals**

County Name	2010 Census	2015 Projection	2020 Projection	2025 Projection	2030 Projection	2035 Projection	2040 Projection
Ohio	11,536,504	11,549,120	11,574,870	11,598,670	11,615,100	11,635,110	11,679,010
Adams	28,550	28,410	28,380	28,210	28,100	27,780	27,520
Allen	106,331	104,790	103,560	102,420	101,450	100,850	100,650
Ashland	53,139	53,620	53,980	54,870	55,790	57,010	57,920
Ashtabula	101,497	101,430	101,230	100,880	100,130	99,290	98,610
Athens	64,757	64,180	64,700	64,500	63,960	63,100	61,960
Auglaize	45,949	45,780	45,590	45,150	44,690	44,270	44,430
Belmont	70,400	69,760	68,880	68,270	67,330	66,530	66,140
Brown	44,846	45,480	45,850	45,930	45,630	44,970	44,090
Butler	368,130	378,370	390,110	399,880	410,960	419,900	430,360
Carroll	28,836	28,810	28,770	28,750	28,720	28,790	29,040
Champaign	40,097	39,880	39,690	39,250	38,690	38,000	37,400
Clark	138,333	135,490	133,240	131,390	129,900	128,840	128,580
Clermont	197,363	203,650	208,330	212,110	214,090	215,560	216,190
Clinton	42,040	42,160	42,100	42,060	41,590	41,150	40,380
Columbiana	107,841	106,660	105,380	104,370	103,870	103,890	104,710
Coshocton	36,901	36,650	36,190	35,660	34,790	34,070	33,390
Crawford	43,784	42,300	40,890	39,500	38,150	36,840	35,530
Cuyahoga	1,280,122	1,242,380	1,209,550	1,179,030	1,154,210	1,131,380	1,113,950
Darke	52,959	52,190	51,270	49,670	48,280	46,890	46,280
Defiance	39,037	38,590	38,090	37,200	36,490	36,060	35,890
Delaware	174,214	192,990	210,630	227,930	246,000	264,100	282,160
Erie	77,079	75,070	72,900	70,350	67,740	64,910	62,300
Fairfield	146,156	156,220	165,850	176,850	187,820	199,450	210,910
Fayette	29,030	28,880	28,860	28,780	28,750	28,740	28,880
Franklin	1,163,414	1,198,370	1,237,960	1,272,320	1,302,110	1,332,360	1,366,200
Fulton	42,698	42,350	42,200	41,500	40,740	40,290	40,310
Gallia	30,934	30,860	30,600	30,520	30,250	30,210	30,280
Geauga	93,389	93,650	93,510	94,270	94,930	95,400	94,710
Greene	161,573	163,500	164,940	165,950	165,780	164,830	163,300
Guernsey	40,087	39,480	38,750	38,000	37,310	36,680	36,390
Hamilton	802,374	793,980	790,600	788,420	785,900	784,560	786,090
Hancock	74,782	75,130	75,330	75,620	75,140	74,670	73,500
Hardin	32,058	31,850	31,740	31,490	31,360	31,140	31,110
Harrison	15,864	15,660	15,300	15,210	15,100	15,050	15,100
Henry	28,215	27,690	27,230	26,760	26,360	26,010	25,810
Highland	43,589	44,040	44,320	44,700	44,720	44,480	44,030
Hocking	29,380	29,540	29,480	29,150	28,620	28,220	27,870
Holmes	42,366	43,610	44,620	45,230	45,700	45,620	45,280
Huron	59,626	59,360	58,740	57,860	56,950	56,090	55,500
Jackson	33,225	33,380	33,630	33,820	34,010	34,050	34,200
Jefferson	69,709	67,780	66,540	65,580	65,330	65,820	67,410
Knox	60,921	63,030	64,960	67,420	69,810	72,350	74,850
Lake	230,041	229,530	228,600	228,320	228,380	228,550	228,060
Lawrence	62,450	62,330	62,390	62,230	62,390	62,280	62,680
Licking	166,492	173,520	180,860	188,810	196,570	204,220	212,370
Logan	45,858	45,810	45,600	45,210	44,590	43,930	43,590
Lorain	301,356	306,400	310,230	315,760	320,430	325,550	328,190
Lucas	441,815	435,300	430,450	425,620	420,080	414,630	410,570
Madison	43,435	44,510	45,670	46,510	47,420	48,000	48,700
Mahoning	238,823	231,210	224,680	218,320	212,240	206,740	202,630
Marion	66,501	66,860	67,130	67,250	67,170	67,190	67,500
Medina	172,332	179,200	184,670	190,430	194,510	198,220	199,890
Meigs	23,770	23,610	23,630	23,300	23,170	22,670	22,340
Mercer	40,814	40,960	41,040	41,240	41,230	41,130	40,960
Miami	102,506	102,700	102,590	103,160	103,500	103,930	103,990

**DEVELOPMENT SERVICES AGENCY
POPULATION PROJECTIONS: County Totals**

County Name	2010 Census	2015 Projection	2020 Projection	2025 Projection	2030 Projection	2035 Projection	2040 Projection
Monroe	14,642	14,420	14,160	13,900	13,590	13,290	13,120
Montgomery	535,153	524,370	513,830	504,770	496,650	491,080	489,390
Morgan	15,054	14,880	14,770	14,600	14,360	14,100	13,820
Morrow	34,827	36,180	37,380	38,490	39,400	40,290	41,170
Muskingum	86,074	85,790	85,420	84,870	83,900	82,810	81,900
Noble	14,645	14,762	14,898	15,076	15,283	15,478	15,703
Ottawa	41,428	40,860	40,100	39,420	38,720	37,780	36,880
Paulding	19,614	19,270	19,050	18,570	18,220	17,950	18,100
Perry	36,058	36,850	37,610	38,710	39,690	40,770	41,710
Pickaway	55,698	56,690	58,010	59,120	60,560	61,740	63,100
Pike	28,709	28,610	29,000	29,010	29,420	29,420	29,970
Portage	161,419	161,500	161,410	160,780	158,930	155,740	151,720
Preble	42,270	42,260	42,060	41,860	41,460	40,930	40,260
Putnam	34,499	34,550	34,430	34,180	33,860	33,700	33,860
Richland	124,475	122,180	120,200	118,190	116,640	115,410	115,160
Ross	78,064	78,990	79,850	80,740	81,510	82,200	82,920
Sandusky	60,944	59,960	58,670	57,040	55,440	53,910	52,640
Scioto	79,499	78,530	77,430	76,260	75,520	76,020	77,660
Seneca	56,745	56,030	55,050	54,030	53,040	52,190	51,560
Shelby	49,423	49,450	49,290	48,780	48,240	47,570	47,160
Stark	375,586	371,650	368,210	364,650	361,130	357,820	355,500
Summit	541,781	537,220	534,150	532,080	528,990	525,600	523,190
Trumbull	210,312	205,150	200,840	197,080	193,360	189,810	187,250
Tuscarawas	92,582	92,520	92,310	92,060	91,890	92,190	92,840
Union	52,300	55,990	59,760	63,900	68,230	72,810	77,360
Van Wert	28,744	28,180	27,620	26,810	26,190	25,830	25,900
Vinton	13,435	13,570	13,620	13,860	13,920	14,120	14,160
Warren	212,693	220,430	225,770	231,230	235,640	239,040	239,060
Washington	61,778	60,410	59,000	57,620	56,220	54,930	53,720
Wayne	114,520	114,530	114,390	113,920	113,400	113,000	113,240
Williams	37,642	36,890	36,070	35,040	34,150	33,450	33,280
Wood	125,488	125,220	126,540	127,530	127,600	126,400	124,910
Wyandot	22,615	22,330	21,960	21,530	21,000	20,490	20,080

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Figure ES-1. MSW Generation Rates, 1960 to 2013

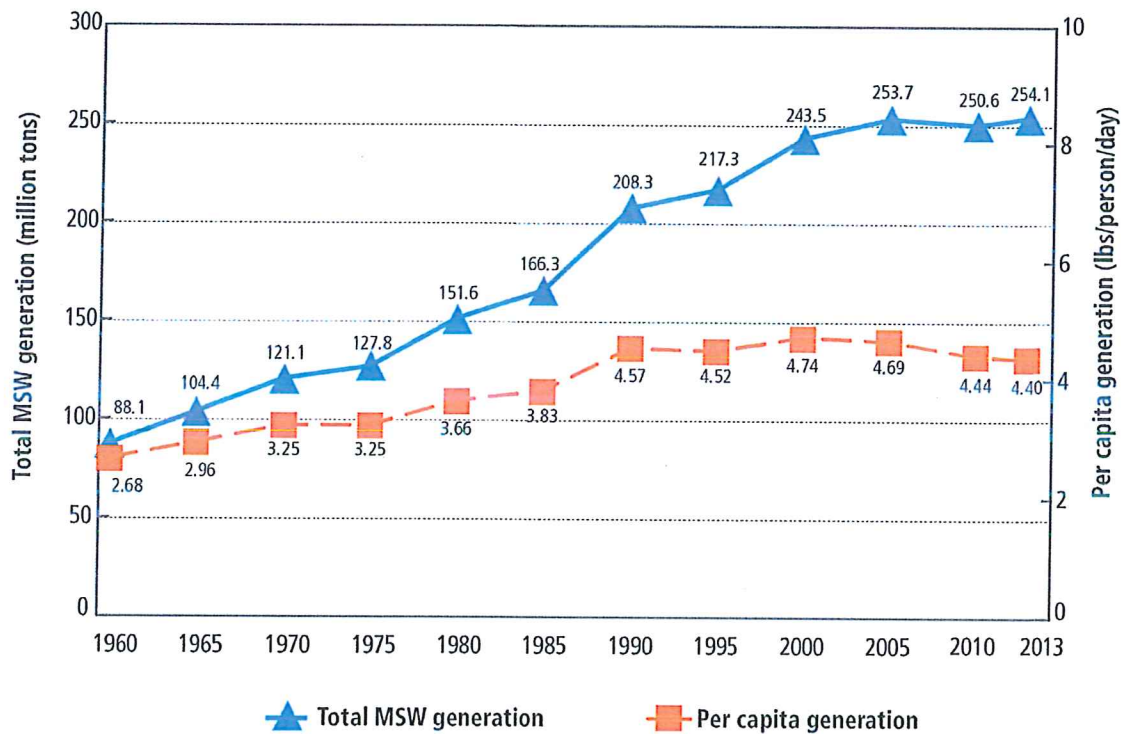
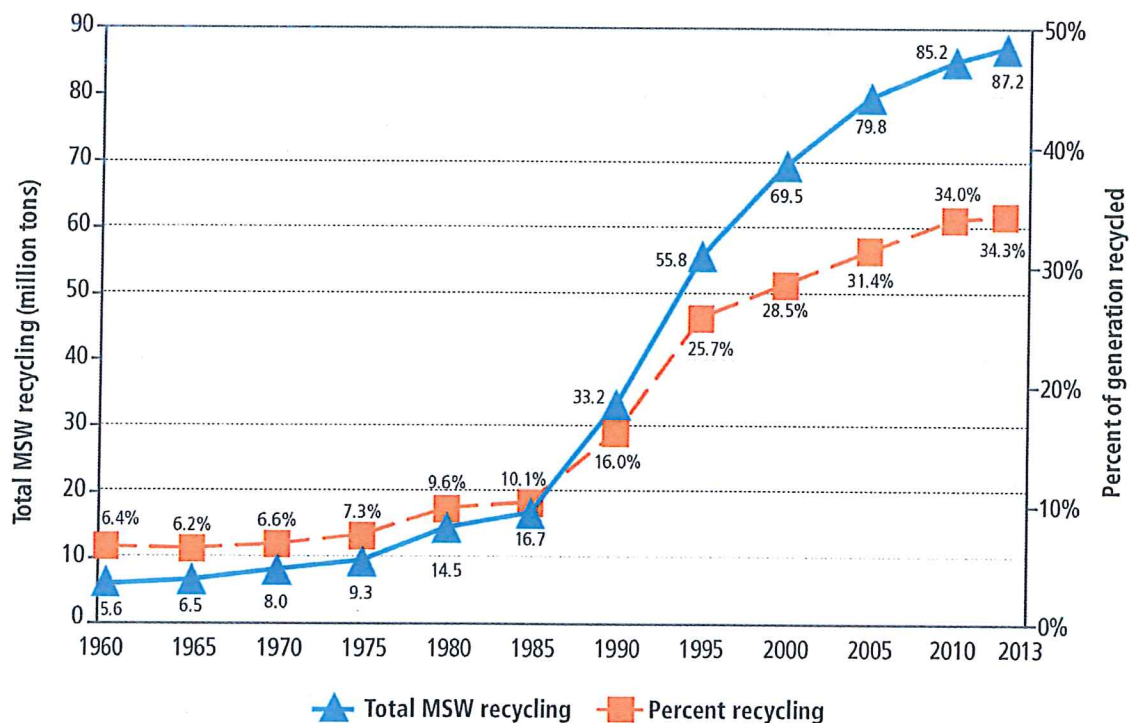


Figure ES-2. MSW Recycling Rates, 1960 to 2013



2008 Annual District Report

Recycled Materials

Materials	Residential/Commercial	Industrial	Total Tons
Appliances	10.73		10.73
All Other Paper	1,015.49	3,022.67	4,038.16
Ash (recycled ash only)			
Commingled Recyclables	1,518.00		1,518.00
Corrugated Cardboard	1,998.09	5,682.50	7,680.59
Dry Cell Batteries	2.50	0.34	2.84
Electronics	12.83		12.83
Emmission Control Dust		56.28	56.28
Ferrous Metals	1,721.62	69,057.79	70,779.41
Food	712.00	0.05	712.05
Glass	36.64		36.64
HHW	23.76		
Lead Acid Batteries	203.83	67.82	271.65
Non-Exempt Foundry Sand		725.00	725.00
Non-Ferrous Beverage Containers	1,741.33	2,029.32	3,770.65
Oil Filters		10.23	10.23
Plastics	156.94	948.40	1,105.34
Scrap Tires (tons)	92.50	0.83	93.33
Stack Solids	0.00	122,170.00	122,170.00
Textiles			0.00
Used Motor Oil	4.50		4.50
Wood/Sawdust/Pallets	127.00	413.61	540.61
Yard Waste	7,696.00		7,696.00
Totals	17,073.76	204,184.83	221,234.83
2008 Total Waste	71,310.67	19,481.06	90,791.73
Total Recycling/Waste	88,384.43	223,665.89	312,026.56
Percentage Diverted	19%	91%	71%
			N/A
			Extras

2009 Annual District Report

Recycled Materials

Materials	Residential/Commercial	Industrial	Total Tons
Appliances	12.14	0.00	12.14
All Other Paper	3,373.34	3,070.08	6,443.42
Ash (recycled ash only)	625.00	431.00	1,056.00
Commingled Recyclables	1,442.73		1,442.73
Corrugated Cardboard	5,459.73	4,574.63	10,034.36
Dry Cell Batteries	4.60	701.08	705.69
Electronics	13.16		13.16
Emmission Control Dust	900.46	44.15	944.61
Ferrous Metals	255.31	47,125.95	47,381.26
Food	549.93	0.25	550.18
Glass	629.57		629.57
HHW	0.00		
Lead Acid Batteries	12.63		12.63
Non-Exempt Foundry Sand		203.00	203.00
Non-Ferrous Beverage Containers	60.27	2,653.26	2,713.53
Oil Filters	0.26	7.19	7.45
Plastics	315.28	1,030.55	1,345.83
Scrap Tires (tons)	70.99	2.95	73.94
Stack Solids	0.00	103,744.00	103,744.00
Textiles	1,000.00	3.00	1,003.00
Used Motor Oil	0.53		0.53
Wood/Sawdust/Pallets	0.00	3,864.65	3,864.65
Yard Waste	8,249.00	0.00	8,249.00
2009 Total Recycling	22,974.92	167,455.74	190,430.66
2009 Total Waste	56,770.66	13,426.00	70,196.66
Total Recycling/Waste	79,745.58	180,881.74	260,627.32
Percentage Diverted	29%	93%	73%
OEPA Goal Percentage	25%	66%	
		N/A	
		Extras	

2010 Annual District Report

Recycled Materials

Materials	Residential/Commercial	Industrial	Total Tons
Appliances	13.55	0.18	13.73
All Other Paper	2,285.20	457.71	2,742.91
Ash (recycled ash only)	0.00	422.00	
Commingled Recyclables	0.00		0.00
Corrugated Cardboard	8,436.81	888.85	9,325.66
Dry Cell Batteries	6.12		6.12
Electronics	14.13		14.13
Emmission Control Dust	0.00	58.29	58.29
Ferrous Metals	447.77	50,663.80	51,111.57
Food	1,977.21	0.00	1,977.21
Glass	777.25	50.00	827.25
HHW	0.00		
Lead Acid Batteries	2.32		2.32
Non-Exempt Foundry Sand		280.00	280.00
Non-Ferrous Beverage Containers	47.65	345.52	393.17
Oil Filters	0.00	250.85	250.85
Plastics	1,038.85	1,035.95	2,074.80
Scrap Tires (tons)	620.86	44.04	664.90
Stack Solids	0.00	89,150.00	89,150.00
Textiles	0.00	53.50	53.50
Used Motor Oil	0.00		0.00
Wood/Sawdust/Pallets	7.79	784.80	792.59
Yard Waste	6,473.50	0.00	6,473.50
Totals	22,149.01	144,485.49	166,212.50
2010 Total Waste	61,133.59	12,831.11	73,964.70
Total Recycling/Waste	83,282.60	157,316.60	240,177.20
Percentage Diverted	27%	92%	69%
			N/A
			Extras

2011 Annual District Report

Recycled Materials

Materials	Residential/Commercial	Industrial	Total Tons
Appliances	6.11	0.00	6.11
All Other Paper	2,662.28	3,230.60	5,892.88
Ash (recycled ash only)	300.00	0.00	
Commingled Recyclables	0.00		0.00
Corrugated Cardboard	8,233.82	4,116.45	12,350.27
Dry Cell Batteries	4.60		4.60
Electronics	2.00		2.00
Emmission Control Dust	0.00	78.38	78.38
Ferrous Metals	960.50	47,489.03	48,449.53
Food	3,081.00	0.25	3,081.25
Glass	1,048.67	50.00	1,098.67
HHW	2,835.46		
Lead Acid Batteries	269.00		269.00
Non-Exempt Foundry Sand		5.00	5.00
Non-Ferrous Beverage Containers	982.73	2,084.45	3,067.18
Plastics	1,952.87	2,373.17	4,326.04
Scrap Tires (tons)	77.83	3.46	81.29
Stack Solids	0.00	50,001.00	50,001.00
Textiles	0.00	4.50	4.50
Used Motor Oil	1,108.00		1,108.00
Wood/Sawdust/Pallets	220.70	607.25	827.95
Yard Waste	6,932.00	0.00	6,932.00
Totals	30,677.56	110,043.54	137,585.64
2011 Total Waste	74,087.01	11,575.65	85,662.66
Total Recycling/Waste	104,764.57	121,619.19	223,248.30
Percentage Diverted	29%	90%	62%
			N/A
			Extras

2012 Annual District Report

Recycled Materials

Materials	Residential/Commercial	Industrial	Total Tons
Appliances	0.00	0.00	0.00
All Other Paper	5,576.75	3,295.60	8,872.35
Ash (recycled ash only)	300.00	0.00	
Commingled Recyclables	0.00		0.00
Corrugated Cardboard	7,701.79	4,054.70	11,756.49
Dry Cell Batteries	4.30		4.30
Electronics	17,596.00		17,596.00
Emmission Control Dust	0.00	78.38	78.38
Ferrous Metals	1,528.71	46,043.89	47,572.60
Food	2,745.17	200.00	2,945.17
Glass	675.36	50.00	725.36
HHW	28.39		
Lead Acid Batteries	10.00		10.00
Non-Exempt Foundry Sand		5.00	5.00
Non-Ferrous Beverage Containers	123.76	2,071.85	2,195.61
Plastics	1,821.37	2,216.08	4,037.45
Scrap Tires (tons)	91.29	33.00	124.29
Stack Solids	0.00	50,001.00	50,001.00
Textiles	0.00	4.50	4.50
Used Motor Oil	1,230.74		1,230.74
Wood/Sawdust/Pallets	153.30	526.90	680.20
Yard Waste	5,151.11	0.00	5,151.11
Totals	44,738.04	108,580.90	152,990.55
2012 Total Waste	73,218.20	11,360.75	84,578.95
Total Recycling/Waste	117,956.24	119,941.65	237,569.50
Percentage Diverted	38%	91%	64%
Required	25%	66%	50%
			N/A
			Extras

2013 Annual District Report

Recycled Materials

Materials	Residential/Commercial	Industrial	Total Tons
Appliances	1.00	0.55	1.55
All Other Paper	3,423.76	108.30	3,532.06
Ash (recycled ash only)	250.00	72.00	322.00
Commingled Recyclables	18.63		18.63
Corrugated Cardboard	3,664.24	22,714.85	26,379.09
Dry Cell Batteries	4.28		4.28
Electronics	100.88		100.88
Emmission Control Dust	0.00	77.31	77.31
Ferrous Metals	6,392.61	12,235.92	18,628.53
Food	1,276.46	0.00	1,276.46
Glass	1,224.17	0.80	1,224.97
HHW	14.55		14.55
Lead Acid Batteries	0.10		0.10
Non-Exempt Foundry Sand		179.74	179.74
Non-Ferrous Beverage Containers	1,097.43	192.02	1,289.45
Plastics	1,092.16	147.17	1,239.33
Scrap Tires (tons)	1,203.35	32.88	1,236.23
Stack Solids	0.00	76,122.00	76,122.00
Textiles	737.00	0.00	737.00
Used Motor Oil	4.17		4.17
Wood/Sawdust/Pallets	90.33	316.25	406.58
Yard Waste	5,226.06	0.00	5,226.06
Totals	25,821.18	112,199.79	138,020.97
2013 Total Waste	78,151.13	10,373.96	88,525.09
Total Recycling/Waste	103,972.31	122,573.75	226,546.06
Percentage Diverted	25%	92%	61%
Required	25%	66%	50%
			N/A
			Extras

2014 Annual District Report

Recycled Materials

Materials	Residential/Commercial	Industrial	Total Tons
Appliances	3.50	0.00	3.50
All Other Paper	1,710.14	4.95	1,715.09
Ash (recycled ash only)	0.00	0.00	0.00
Commingled Recyclables	1,385.53		1,385.53
Corrugated Cardboard	5,706.50	401.75	6,108.25
Dry Cell Batteries	20.59		20.59
Electronics	121.01		121.01
Emmission Control Dust	0.00	83.77	83.77
Ferrous Metals	415.47	9,416.62	9,832.09
Food	5,115.64	0.00	5,115.64
Glass	512.41	0.00	512.41
HHW	23.19		23.19
Lead Acid Batteries	0.00		0.00
Non-Exempt Foundry Sand		18.72	18.72
Non-Ferrous Beverage Containers	1,567.23	183.69	1,750.92
Plastics	1,944.89	54.30	1,999.19
Scrap Tires (tons)	1,374.38	3.00	1,377.38
Stack Solids	0.00	76,122.00	76,122.00
Textiles	769.91	0.00	769.91
Used Motor Oil	0.35		0.35
Wood/Sawdust/Pallets	2,849.10	2.10	2,851.20
Yard Waste	9,103.06	0.00	9,103.06
Totals	32,622.89	86,290.90	118,913.79
2014 Total Waste	59,232.64	11,395.58	70,628.22
Total Recycling/Waste	91,855.53	97,686.48	189,542.01
Percentage Diverted	36%	88%	63%
Required	25%	66%	50%
			N/A
			Extras

Table 2. Recovery* of Municipal Solid Waste, 1960 to 2013
(In thousands of tons and percent of generation of each material)

Materials	Thousands of Tons									
	1960	1970	1980	1990	2000	2005	2009	2011	2012	2013
Paper and Paperboard	5,080	6,770	11,740	20,230	37,560	41,960	42,500	45,900	44,360	43,400
Glass	100	160	750	2,630	2,880	2,590	3,000	3,180	3,210	3,150
Metals										
Ferrous	50	150	370	2,230	4,680	5,020	5,330	5,450	5,530	5,800
Aluminum	Neg.	10	310	1,010	860	690	690	720	710	700
Other Nonferrous	Neg.	320	540	730	1,060	1,280	1,380	1,430	1,390	1,370
Total Metals	50	480	1,220	3,970	6,600	6,990	7,400	7,600	7,630	7,870
Plastics	Neg.	Neg.	20	370	1,480	1,780	2,130	2,660	2,800	3,000
Rubber and Leather	330	250	130	370	820	1,050	1,370	1,330	1,270	1,240
Textiles	50	60	160	660	1,320	1,830	1,980	2,010	2,230	2,300
Wood	Neg.	Neg.	Neg.	130	1,370	1,830	2,200	2,350	2,410	2,470
Other **	Neg.	300	500	680	980	1,210	1,310	1,370	1,330	1,310
Total Materials in Products	5,610	8,020	14,520	29,040	53,010	59,240	61,890	66,400	65,240	64,740
Other Wastes										
Food	Neg.	Neg.	Neg.	Neg.	680	690	850	1,270	1,740	1,840
Yard Trimmings	Neg.	Neg.	Neg.	4,200	15,770	19,860	19,900	19,300	19,590	20,600
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Other Wastes	Neg.	Neg.	Neg.	4,200	16,450	20,550	20,750	20,570	21,330	22,440
Total MSW Recovered - Weight	5,610	8,020	14,520	33,240	69,460	79,790	82,640	86,970	86,570	87,180
Materials	Percent of Generation of Each Material									
	1960	1970	1980	1990	2000	2005	2009	2011	2012	2013
Paper and Paperboard	16.9%	15.3%	21.3%	27.8%	42.8%	49.5%	62.1%	65.6%	64.6%	63.3%
Glass	1.5%	1.3%	5.0%	20.1%	22.6%	20.7%	25.5%	27.7%	27.7%	27.3%
Metals										
Ferrous	0.5%	1.2%	2.9%	17.6%	33.1%	33.0%	33.5%	33.0%	32.9%	33.0%
Aluminum	Neg.	1.3%	17.9%	35.9%	27.0%	20.7%	20.1%	20.5%	20.2%	20.0%
Other Nonferrous	Neg.	47.8%	46.6%	66.4%	66.3%	68.8%	71.5%	70.8%	70.2%	68.2%
Total Metals	0.5%	3.5%	7.9%	24.0%	34.8%	34.3%	34.8%	34.4%	34.2%	34.1%
Plastics	Neg.	Neg.	0.3%	2.2%	5.8%	6.1%	7.1%	8.3%	8.8%	9.2%
Rubber and Leather	17.9%	8.4%	3.1%	6.4%	12.3%	14.4%	18.3%	17.5%	16.8%	16.1%
Textiles	2.8%	2.9%	6.3%	11.4%	13.9%	15.9%	15.2%	15.3%	15.6%	15.2%
Wood	Neg.	Neg.	Neg.	1.1%	10.1%	12.4%	14.1%	14.9%	15.2%	15.7%
Other **	Neg.	39.0%	19.8%	21.3%	24.5%	28.2%	28.0%	29.5%	29.0%	28.6%
Total Materials in Products	10.3%	9.6%	13.3%	19.8%	29.7%	32.0%	35.9%	37.6%	36.9%	36.2%
Other Wastes										
Food, Other^	Neg.	Neg.	Neg.	Neg.	2.2%	2.1%	2.4%	3.5%	4.8%	5.0%
Yard Trimmings	Neg.	Neg.	Neg.	12.0%	51.7%	61.9%	59.9%	57.3%	57.7%	60.2%
Miscellaneous Inorganic Wastes	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
Total Other Wastes	Neg.	Neg.	Neg.	6.8%	25.4%	29.9%	28.7%	27.8%	28.7%	29.8%
Total MSW Recovered - %	6.4%	6.6%	9.6%	16.0%	28.5%	31.4%	33.8%	34.7%	34.5%	34.3%

* Recovery of postconsumer wastes; does not include converting/fabrication scrap.

** Recovery of electrolytes in batteries; probably not recycled.

Neg = Less than 5,000 tons or 0.05 percent.

^ Includes recovery of paper and mixed MSW for composting.
Details may not add to totals due to rounding.

Table 3. Materials Discarded* in the Municipal Waste Stream, 1960 to 2013
(In thousands of tons and percent of total discards)

Materials	Thousands of Tons									
	1960	1970	1980	1990	2000	2005	2009	2011	2012	2013
Paper and Paperboard	24,910	37,540	43,420	52,500	50,180	42,880	25,930	24,050	24,260	25,200
Glass	6,620	12,580	14,380	10,470	9,890	9,950	8,780	8,310	8,380	8,390
Metals										
Ferrous	10,250	12,210	12,250	10,410	9,470	10,190	10,570	11,090	11,270	11,750
Aluminum	340	790	1,420	1,800	2,330	2,640	2,750	2,800	2,800	2,800
Other Nonferrous	180	350	620	370	540	580	550	590	590	640
Total Metals	10,770	13,350	14,290	12,580	12,340	13,410	13,870	14,480	14,660	15,190
Plastics	390	2,900	6,810	16,760	24,070	27,600	27,940	29,310	29,140	29,520
Rubber and Leather	1,510	2,720	4,070	5,420	5,850	6,240	6,130	6,270	6,300	6,480
Textiles	1,710	1,980	2,370	5,150	8,160	9,680	11,010	11,120	12,110	12,830
Wood	3,030	3,720	7,010	12,080	12,200	12,960	13,390	13,430	13,410	13,300
Other **	70	470	2,020	2,510	3,020	3,080	3,370	3,280	3,250	3,270
Total Materials in Products	49,010	75,260	94,370	117,470	125,710	125,800	110,420	110,250	111,510	114,180
Other Wastes										
Food	12,200	12,800	13,000	23,860	30,020	32,240	34,420	35,040	34,690	35,220
Yard Trimmings	20,000	23,200	27,500	30,800	14,760	12,210	13,300	14,410	14,370	13,600
Miscellaneous Inorganic Wastes	1,300	1,780	2,250	2,900	3,500	3,690	3,820	3,870	3,900	3,930
Total Other Wastes	33,500	37,780	42,750	57,560	48,280	48,140	51,540	53,320	52,960	52,750
Total MSW Discarded - Weight	82,510	113,040	137,120	175,030	173,990	173,940	161,960	163,570	164,470	166,930
Materials	Percent of Total Discards									
	1960	1970	1980	1990	2000	2005	2009	2011	2012	2013
Paper and Paperboard	30.2%	33.2%	31.7%	30.0%	28.8%	24.7%	16.0%	14.7%	14.8%	15.1%
Glass	8.0%	11.1%	10.5%	6.0%	5.7%	5.7%	5.4%	5.1%	5.1%	5.0%
Metals										
Ferrous	12.4%	10.8%	8.9%	5.9%	5.4%	5.9%	6.5%	6.8%	6.9%	7.0%
Aluminum	0.4%	0.7%	1.0%	1.0%	1.3%	1.5%	1.7%	1.7%	1.7%	1.7%
Other Nonferrous	0.2%	0.3%	0.5%	0.2%	0.3%	0.3%	0.3%	0.4%	0.4%	0.4%
Total Metals	13.1%	11.8%	10.4%	7.2%	7.1%	7.7%	8.6%	8.9%	8.9%	9.1%
Plastics	0.5%	2.6%	5.0%	9.6%	13.8%	15.9%	17.3%	17.9%	17.7%	17.7%
Rubber and Leather	1.8%	2.4%	3.0%	3.1%	3.4%	3.6%	3.8%	3.8%	3.8%	3.9%
Textiles	2.1%	1.8%	1.7%	2.9%	4.7%	5.6%	6.8%	6.8%	7.4%	7.7%
Wood	3.7%	3.3%	5.1%	6.9%	7.0%	7.5%	8.3%	8.2%	8.2%	8.0%
Other **	0.1%	0.4%	1.5%	1.4%	1.7%	1.8%	2.1%	2.0%	2.0%	2.0%
Total Materials in Products	59.4%	66.6%	68.8%	67.1%	72.3%	72.3%	68.2%	67.4%	67.8%	68.4%
Other Wastes										
Food	14.8%	11.3%	9.5%	13.6%	17.3%	18.5%	21.3%	21.4%	21.1%	21.1%
Yard Trimmings	24.2%	20.5%	20.1%	17.6%	8.5%	7.0%	8.2%	8.8%	8.7%	8.1%
Miscellaneous Inorganic Wastes	1.6%	1.6%	1.6%	1.7%	2.0%	2.1%	2.4%	2.4%	2.4%	2.4%
Total Other Wastes	40.6%	33.4%	31.2%	32.9%	27.7%	27.7%	31.8%	32.6%	32.2%	31.6%
Total MSW Discarded - %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

* Discards after materials and compost recovery. In this table, discards include combustion with energy recovery. Does not include construction & demolition debris, industrial process wastes, or certain other wastes.

** Includes electrolytes in batteries and fluff pulp, feces, and urine in disposable diapers.
Details may not add to totals due to rounding.

Table 12. Products Generated* in the Municipal Waste Stream, 1960 to 2013
(With Detail On Durable Goods)
(In thousands of tons and percent of total generation)

Products	Thousands of Tons									
	1960	1970	1980	1990	2000	2005	2009	2011	2012	2013
Durable Goods										
Major Appliances	1,630	2,170	2,950	3,310	3,640	3,610	3,760	4,080	4,190	4,470
Small Appliances**				460	1,040	1,180	1,630	1,900	1,950	1,950
Furniture and Furnishings	2,150	2,830	4,760	6,790	8,120	9,340	10,500	11,130	11,500	11,620
Carpets and Rugs**				1,660	2,460	2,960	3,550	3,830	3,860	3,820
Rubber Tires	1,120	1,890	2,720	3,610	4,930	4,910	4,780	4,740	4,710	4,770
Batteries, Lead-Acid	Neg.	820	1,490	1,510	2,280	2,750	2,890	3,000	2,920	2,880
Miscellaneous Durables										
Selected Consumer Electronics***					1,900	2,630	3,190	3,300	3,270	3,140
Other Miscellaneous Durables					14,500	17,680	17,210	17,740	17,690	18,900
Total Miscellaneous Durables	5,020	6,950	9,880	12,470	16,400	20,310	20,400	21,040	20,960	22,040
Total Durable Goods	9,920	14,660	21,800	29,810	38,870	45,060	47,510	49,720	50,090	51,550
Nondurable Goods	17,330	25,060	34,420	52,170	64,010	63,650	53,480	51,590	51,430	51,600
(Detail in Table 15)										
Containers and Packaging	27,370	43,560	52,670	64,530	75,840	76,330	71,320	75,340	75,230	75,770
(Detail in Table 18)										
Total Product Wastes†	54,620	83,280	108,890	146,510	178,720	185,040	172,310	176,650	176,750	178,920
Other Wastes										
Food	12,200	12,800	13,000	23,860	30,700	32,930	35,270	36,310	36,430	37,060
Yard Trimmings	20,000	23,200	27,500	35,000	30,530	32,070	33,200	33,710	33,960	34,200
Miscellaneous Inorganic Wastes	1,300	1,780	2,250	2,900	3,500	3,690	3,820	3,870	3,900	3,930
Total Other Wastes	33,500	37,780	42,750	61,760	64,730	68,690	72,290	73,890	74,290	75,190
Total MSW Generated - Weight	88,120	121,060	151,640	208,270	243,450	253,730	244,600	250,540	251,040	254,110
Products	Percent of Total Generation									
	1960	1970	1980	1990	2000	2005	2009	2011	2012	2013
Durable Goods										
Major Appliances	1.8%	1.8%	1.9%	1.6%	1.5%	1.4%	1.5%	1.6%	1.7%	1.8%
Small Appliances**				0.2%	0.4%	0.5%	0.7%	0.8%	0.8%	0.8%
Furniture and Furnishings	2.4%	2.3%	3.1%	3.3%	3.3%	3.7%	4.3%	4.4%	4.6%	4.6%
Carpets and Rugs**				0.8%	1.0%	1.2%	1.5%	1.5%	1.5%	1.5%
Rubber Tires	1.3%	1.6%	1.8%	1.7%	2.0%	1.9%	2.0%	1.9%	1.9%	1.9%
Batteries, Lead-Acid	Neg.	0.7%	1.0%	0.7%	0.9%	1.1%	1.2%	1.2%	1.2%	1.1%
Miscellaneous Durables										
Selected Consumer Electronics***					0.8%	1.0%	1.3%	1.3%	1.3%	1.2%
Other Miscellaneous Durables					6.0%	7.0%	7.0%	7.1%	7.0%	7.4%
Total Miscellaneous Durables	5.7%	5.7%	6.5%	6.0%	6.7%	8.0%	8.3%	8.4%	8.3%	8.7%
Total Durable Goods	11.3%	12.1%	14.4%	14.3%	16.0%	17.8%	19.4%	19.8%	20.0%	20.3%
Nondurable Goods	19.7%	20.7%	22.7%	25.0%	26.3%	25.1%	21.9%	20.6%	20.5%	20.3%
(Detail in Table 15)										
Containers and Packaging	31.1%	36.0%	34.7%	31.0%	31.2%	30.1%	29.2%	30.1%	30.0%	29.8%
(Detail in Table 19)										
Total Product Wastes†	62.0%	68.8%	71.8%	70.3%	73.4%	72.9%	70.4%	70.5%	70.4%	70.4%
Other Wastes										
Food	13.8%	10.6%	8.6%	11.5%	12.6%	13.0%	14.4%	14.5%	14.5%	14.6%
Yard Trimmings	22.7%	19.2%	18.1%	16.8%	12.5%	12.6%	13.6%	13.5%	13.5%	13.5%
Miscellaneous Inorganic Wastes	1.5%	1.5%	1.5%	1.4%	1.4%	1.5%	1.6%	1.5%	1.6%	1.5%
Total Other Wastes	38.0%	31.2%	28.2%	29.7%	26.6%	27.1%	29.6%	29.5%	29.6%	29.6%
Total MSW Generated - %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

* Generation before materials recovery or combustion. Does not include C&D debris, industrial process wastes, or certain other wastes.

** Not estimated separately prior to 1990. † Other than food products. Neg. = Less than 5,000 tons or 0.05 percent.

*** Not estimated separately prior to 1999. For more information on consumer electronics see Electronics Management in the U.S. Through 2009.

This 2009 electronics report examines a smaller selection of types of electronics. www.epa.gov/waste/conserve/materials/ecycling/manage.htm

Towels, Sheets, and Pillowcases. An estimated 1.3 million tons of towels, sheets, and pillowcases were generated in 2013. Generation was estimated using a methodology similar to that for clothing. An estimated 230,000 tons of these textiles were recovered for export or recycling in 2013 (18.0 percent).

Other Miscellaneous Nondurables. Generation of other miscellaneous nondurables was estimated to be 3.6 million tons in 2013 (1.4 percent of MSW). The primary material component of miscellaneous nondurables is plastics, although some aluminum, rubber, and textiles also are present. Typical products in miscellaneous nondurables include shower curtains and other household items, disposable medical supplies, novelty items, and the like.

Generation of plastic products in miscellaneous nondurables is taken from resin sales data published annually by the American Chemistry Council. Generation of other materials in these nondurable products is estimated based on information in past reports in this series.

**Table 15. Products Generated* in the Municipal Waste Stream, 1960 to 2013
(With Detail on Nondurable Goods)
(In thousands of tons and percent of total generation)**

Products	Thousands of Tons									
	1960	1970	1980	1990	2000	2005	2009	2011	2012	2013
Durable Goods	9,920	14,660	21,800	29,810	38,870	45,060	47,510	49,720	50,090	51,550
<i>(Detail in Table 12)</i>										
Nondurable Goods										
Newspapers/Mechanical Paperst	7,110	9,510	11,050	13,430	14,790	12,790	7,760	9,150	8,380	8,050
Directories†††				610	680	660	650	-	-	-
Other Paper Nondurable Goods										
Books and Magazines	1,920	2,470	3,390							
Books**				970	1,240	1,100	960	930	860	850
Magazines**				2,830	2,230	2,580	1,450	1,510	1,470	1,410
Office-Type Papers***	1,520	2,650	4,000	6,410	7,420	6,620	5,380	5,100	4,750	4,770
Standard Mail§				3,820	5,570	5,830	4,650	4,380	4,150	4,150
Other Commercial Printing†	1,260	2,130	3,120	4,460	7,380	6,440	3,490	2,010	2,130	1,870
Tissue Paper and Towels	1,090	2,080	2,300	2,960	3,220	3,460	3,490	3,510	3,510	3,620
Paper Plates and Cups	270	420	630	650	960	1,160	1,170	1,340	1,290	1,320
Other Nonpackaging Paper	2,700	3,630	4,230	3,840	4,250	4,490	4,420	3,940	4,010	3,940
Total Other Paper Nondurable Goods								22,720	22,170	21,930
Disposable Diapers	Neg.	350	1,930	2,700	3,230	3,410	3,810	3,630	3,590	3,600
Plastic Plates and Cups§			190	650	870	930	900	1,030	1,060	1,010
Trash Bags**				780	850	1,060	1,000	1,010	1,020	980
Clothing and Footwear	1,360	1,620	2,170	4,010	6,470	7,890	9,120	9,070	10,310	11,120
Towels, Sheets and Pillowcases**				710	820	980	1,230	1,310	1,290	1,280
Other Miscellaneous Nondurables	100	200	1,410	3,340	4,030	4,250	4,000	3,670	3,610	3,630
Total Nondurable Goods	17,330	25,060	34,420	52,170	64,010	63,650	53,480	51,590	51,430	51,600
Containers and Packaging	27,370	43,560	52,670	64,530	75,840	76,330	71,320	75,340	75,230	75,770
<i>(Detail in Table 18)</i>										
Total Product Wastes‡	54,620	83,280	108,890	146,510	178,720	185,040	172,310	176,650	176,750	178,920
Other Wastes	33,500	37,780	42,750	61,760	64,730	68,690	72,290	73,890	74,290	75,190
Total MSW Generated - Weight	88,120	121,060	151,640	208,270	243,450	253,730	244,600	250,540	251,040	254,110

Table 15. Products Generated* in the Municipal Waste Stream, 1960 to 2013
(With Detail on Nondurable Goods)
(In thousands of tons and percent of total generation)

Products	Percent of Total Generation									
	1960	1970	1980	1990	2000	2005	2009	2011	2012	2013
Durable Goods	11.3%	12.1%	14.4%	14.3%	16.0%	17.8%	19.4%	19.8%	20.0%	20.3%
<i>(Detail in Table 12)</i>										
Nondurable Goods										
Newspapers/Mechanical Papers†	8.1%	7.9%	7.3%	6.4%	6.1%	5.0%	3.2%	3.7%	3.3%	3.2%
Directories†**				0.3%	0.3%	0.3%	0.3%	-	-	-
Other Paper Nondurable Goods										
Books and Magazines	2.2%	2.0%	2.2%							
Books**				0.5%	0.5%	0.4%	0.4%	0.4%	0.3%	0.3%
Magazines**				1.4%	0.9%	1.0%	0.6%	0.6%	0.6%	0.6%
Office-Type Papers***	1.7%	2.2%	2.6%	3.1%	3.0%	2.6%	2.2%	2.0%	1.9%	1.9%
Standard Mail§				1.8%	2.3%	2.3%	1.9%	1.7%	1.7%	1.6%
Other Commercial Printing†	1.4%	1.8%	2.1%	2.1%	3.0%	2.5%	1.4%	0.8%	0.8%	0.7%
Tissue Paper and Towels	1.2%	1.7%	1.5%	1.4%	1.3%	1.4%	1.4%	1.4%	1.4%	1.4%
Paper Plates and Cups	0.3%	0.3%	0.4%	0.3%	0.4%	0.5%	0.5%	0.5%	0.5%	0.5%
Other Nonpackaging Paper	3.1%	3.0%	2.8%	1.8%	1.7%	1.8%	1.8%	1.6%	1.6%	1.6%
Total Other Paper Nondurable Goods								9.1%	8.8%	8.6%
Disposable Diapers	Neg.	0.3%	1.3%	1.3%	1.3%	1.3%	1.6%	1.4%	1.4%	1.4%
Plastic Plates and Cups§			0.1%	0.3%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%
Trash Bags**				0.4%	0.3%	0.4%	0.4%	0.4%	0.4%	0.4%
Clothing and Footwear	1.5%	1.3%	1.4%	1.9%	2.7%	3.1%	3.7%	3.6%	4.1%	4.4%
Towels, Sheets and Pillowcases**				0.3%	0.3%	0.4%	0.5%	0.5%	0.5%	0.5%
Other Miscellaneous Nondurables	0.1%	0.2%	0.9%	1.6%	1.7%	1.7%	1.6%	1.5%	1.4%	1.4%
Total Nondurables	19.7%	20.7%	22.7%	25.0%	26.3%	25.1%	21.9%	20.6%	20.5%	20.3%
Containers and Packaging	31.1%	36.0%	34.7%	31.0%	31.2%	30.1%	29.2%	30.1%	30.0%	29.8%
<i>(Detail in Table 19)</i>										
Total Product Wastes‡	62.0%	68.8%	71.8%	70.3%	73.4%	72.9%	70.4%	70.5%	70.4%	70.4%
Other Wastes	38.0%	31.2%	28.2%	29.7%	26.6%	27.1%	29.6%	29.5%	29.6%	29.6%
Total MSW Generated - %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

* Generation before materials recovery or combustion. Does not include construction & demolition debris, industrial process wastes, or certain other wastes. Details may not add to totals due to rounding.

† Starting in 2010, newsprint and groundwood inserts expanded to include directories and other mechanical papers previously counted as Other Commercial Printing.

** Not estimated separately prior to 1990.

*** High-grade paper such as printer paper; generated in both commercial and residential sources.

§ Standard Mail: Not estimated separately prior to 1990. Formerly called Third Class Mail and Standard (A) Mail by the U.S. Postal Service.

§ Plastic Plates and Cups: Not estimated separately prior to 1980.

‡ Other than food products.

- Detailed data not available.

Neg. = Less than 5,000 tons or 0.05 percent.