

Appendix 3-40

NEFCO Population Projections

Methodology of NEFCO Population Projections, 2000 - 2030

In 1995, the Northeast Ohio Four County Regional Planning and Development Organization (NEFCO) released a set of sub-county population projections for the four-county area for the years 1995 to 2020. The goal of the project was to provide a consistent set of figures to be used for planning purposes at the county and regional levels and to incorporate the county control totals calculated by the state's Office of Strategic Research. The 1995-2020 population projections were approved by each county's planning commission and the NEFCO General Policy Board. Sub-county projections are available to the public and private sectors as well as to the general public. Since NEFCO continues to receive numerous requests for these data, revised projections are expected to prove useful.

In 1999, the Akron Metropolitan Area Transportation Study (AMATS), the Metropolitan Planning Organization for Portage and Summit Counties and Chippewa Township in Wayne County, requested a revision in the sub-county projections covering its service area. AMATS will be using the projections to update its Regional Transportation Plan. NEFCO had planned to revise its 1995-2020 projections after the results of Census 2000 were published. However, AMATS' request prompted NEFCO staff to update its current set of projections. A revision reflecting the latest Census figures is planned within the next 2 years.

Staff used the 1995-2020 projections in order to forecast future populations for the years 2025 and 2030. For Portage, Stark, Summit and Wayne Counties, populations for the years 2010, 2015, and 2020 (from NEFCO's projections adopted in 1995) were used to calculate figures for 2025 and 2030. A statistical regression technique calculated by the Excel spreadsheet's "Forecast" function was used. County totals for the years 2000, 2010, 2015 and 2020 were developed by the Ohio Department of Development's Office of Strategic Research. County totals for the years 2025 and 2030 are the sum of the projected populations of the individual communities.

The Stark County methodology differs slightly. For NEFCO's 1995-2020 data set Stark County's projections for the years 2000, 2005, 2010, and 2015 were not prepared. In order to utilize the same straight-line forecasting methodology as used for Portage, Summit and Wayne Counties, staff prepared projections for these missing years as well as for 2025 and 2030. In order to generate numbers for 2000, 2005, 2010, and 2015 the difference between the 1990 Census populations and the approved 2020 figures was calculated for each community. Next, the assumption was made that growth rates for successive five-year increments would be equal over the 30 year span. This step allowed for the populations for each community to total the previously-approved 2020 data. However, the total of the individual entities did not conform to the County Control Total generated by the Ohio Department of Development's Office of Strategic Research. Staff calculated the amounts over or under the control total and then allocated the difference among each of Stark County's communities using that community's percentage of the total county population in 1990.

While a constant rate of growth in the population for each community is unlikely, this assumption was necessary because of the lack of information other than the (declining) population trend between 1980 and 1990. The 2025 and 2030 populations were generated in a way similar to those of Portage, Summit and Wayne Counties. The populations from the years 2010, 2015 and 2020 were entered into a regression equation found in the Microsoft Excel spreadsheet. This equation predicts the population along a linear trend using existing values.

Since this current set of projections includes populations previously released in 1995, a discussion of the methodology used in 1995 is necessary. Adopting county population projections developed by the Ohio Department of Development, Office of Strategic Research (OSR), the model, "Change in County Share-Moderate 1980-1990 Trends," was used to develop a preliminary set of projections for consideration by the NEFCO Planning Advisory Committee. This method used as its base a community's county share, or percent of the county population for 1980 and 1990. The model then calculated the change in a community's percent of county share from 1980 to 1990 and moderated this percentage change by a factor to determine a "trend" for 1995. This trend was applied to 1990 to estimate 1995's population. The process was repeated for the years 2000, 2005, 2010, 2015 and 2020. To determine the 2020 population projection for a county, an average growth rate between 1990 and 2015 was calculated and applied to the estimated county population for 2015.

These projections do not include recent annexations or reflect the building boom which is occurring in many of our communities. We recognize this as a weakness of these projections but it would have been difficult to consider these types of data and provide AMATS with the figures they needed in a timely manner. We will certainly use this information when new projections are prepared.

NEFCO staff is committed to coordinating with our Planning Advisory Committee a new set of population projections for our local governments once the 2000 Census information is available, and when the Ohio Department of Development has issued county control totals.

NEFCO Population Projections

	2000 CENSUS	2005 NEFCO	2010 NEFCO	2015 NEFCO	2020 NEFCO	2025 NEFCO	2030 NEFCO
<u>Portage County</u>							
<u>Cities</u>							
Aurora	13,556	11,359	11,733	12,003	12,320	12,606	12,899
Kent	27,906	32,030	33,011	33,737	34,592	35,361	36,152
Ravenna	11,771	12,673	12,916	13,126	13,383	13,609	13,842
Streetsboro	12,311	11,552	11,900	12,158	12,462	12,735	13,016
Tallmadge*	210						
<u>Villages</u>							
Brady Lake	513	526	539	549	561	572	583
Garrettsville	2,262	2,279	2,357	2,412	2,478	2,537	2,597
Hiram	1,242	1,369	1,389	1,409	1,434	1,456	1,478
Mantua	1,046	1,328	1,373	1,405	1,443	1,477	1,512
Mogadore	942	1,026	1,031	1,041	1,054	1,065	1,077
Sugar Bush Knolls	227	228	233	238	243	248	253
Windham	2,806	2,526	2,455	2,434	2,419	2,400	2,382
<u>Townships</u>							
Atwater Twp.	2,762	2,764	2,810	2,852	2,904	2,949	2,996
Brimfield Twp.	7,963	8,180	8,389	8,552	8,747	8,921	9,100
Charlestown Twp.	2,003	2,138	2,208	2,259	2,319	2,373	2,429
Deerfield Twp.	3,211	2,927	2,989	3,040	3,102	3,157	3,213
Edinburg Twp.	2,344	2,092	2,136	2,172	2,216	2,255	2,295
Franklin Twp.	5,276	7,613	7,930	8,146	8,395	8,622	8,855
Freedom Twp.	2,751	2,738	2,807	2,862	2,927	2,985	3,045
Hiram Twp.	2,296	2,120	2,189	2,240	2,299	2,353	2,408
Mantua Twp.	4,661	4,647	4,738	4,815	4,911	4,994	5,081
Nelson Twp.	2,985	3,154	3,264	3,343	3,435	3,518	3,604
Palmyra Twp.	2,785	2,713	2,776	2,827	2,889	2,944	3,000
Paris Twp.	1,827	1,976	2,035	2,079	2,131	2,178	2,226
Randolph Twp.	5,504	5,108	5,182	5,255	5,345	5,424	5,505
Ravenna Twp.	9,270	9,201	9,333	9,462	9,625	9,765	9,911
Rootstown Twp.	7,212	6,930	7,060	7,174	7,313	7,435	7,562
Shalersville Twp.	5,976	5,510	5,610	5,699	5,808	5,904	6,003
Suffield Twp.	6,383	6,669	6,805	6,920	7,061	7,185	7,313
Windham Twp.	2,060	2,006	2,034	2,062	2,098	2,129	2,161
PORTAGE TOTAL	152,061	155,382	159,232	162,271	165,914	169,157	172,498

All projections were adopted by NEFCO's Board in 2000.

*See Summit County for projections.

Prepared by the Northeast Ohio Four County Regional Planning and Development Organization (NEFCO) and the Akron Metropolitan Area Transportation Study (AMATS), May 2000.

NEFCO Population Projections

	2000 CENSUS	2005 NEFCO	2010 NEFCO	2015 NEFCO	2020 NEFCO	2025 NEFCO	2030 NEFCO
<u>Stark County</u>							
<u>Cities</u>							
Alliance	23,195	24,332	24,523	24,846	25,210	25,547	25,891
Canton	80,806	85,067	84,819	85,051	85,430	85,711	86,017
Louisville	8,904	7,859	7,730	7,648	7,579	7,501	7,425
Massillon	31,325	31,224	31,093	31,140	31,240	31,304	31,378
North Canton	16,369	15,352	15,456	15,645	15,860	16,058	16,259
<u>Villages</u>							
Beach City	1,137	1,045	1,037	1,034	1,033	1,031	1,029
Brewster	2,324	2,328	2,321	2,326	2,335	2,342	2,349
Canal Fulton	5,061	4,153	4,125	4,120	4,123	4,121	4,120
East Canton	1,629	1,787	1,790	1,804	1,820	1,834	1,849
East Sparta	806	770	765	764	764	763	763
Hartville	2,174	2,112	2,125	2,150	2,179	2,205	2,232
Hill & Dales	260	304	305	307	310	312	315
Limaville	193	149	148	147	146	145	144
Magnolia*	617	592	589	589	590	590	291
Meyers Lake	565	544	558	575	592	609	626
Minerva*	2,031	2,200	2,176	2,166	2,159	2,150	2,141
Navarre	1,440	1,620	1,604	1,598	1,594	1,589	1,584
Waynesburg	1,003	1,062	1,054	1,051	1,050	1,048	1,046
Wilmot	335	252	247	244	241	238	235
<u>Townships</u>							
Bethlehem Twp.	4,210	4,182	4,160	4,161	4,170	4,174	4,179
Canton Twp.	13,402	13,084	12,798	12,591	12,407	12,207	12,012
Jackson Twp.	37,484	35,605	36,674	37,924	39,230	40,499	41,777
Lake Twp.	23,718	22,489	23,082	23,791	24,535	25,256	25,982
Lawrence Twp.	8,321	8,488	8,636	8,828	9,035	9,232	9,432
Lexington Twp.	5,390	4,429	4,158	3,917	3,685	3,447	3,210
Marlboro Twp.	4,227	3,689	3,665	3,663	3,667	3,667	3,668
Nimishillen Twp.	9,098	9,316	9,195	9,129	9,079	9,018	8,960
Osnaburg Twp.	4,257	4,335	4,407	4,503	4,605	4,703	4,802
Paris Twp.	3,938	3,708	3,693	3,700	3,712	3,720	3,729
Perry Twp.	29,167	29,517	29,056	28,768	28,532	28,261	27,999
Pike Twp.	3,282	3,210	3,206	3,220	3,240	3,256	3,273
Plain Twp.	35,543	35,133	35,180	35,423	35,726	35,989	36,262
Sandy Twp.	2,059	1,952	1,933	1,925	1,920	1,913	1,907
Sugar Creek Twp.	2,944	2,818	2,782	2,762	2,747	2,729	2,712
Tuscarawas Twp.	6,093	7,377	7,711	8,081	8,462	8,836	9,211
Washington Twp.	4,791	4,514	4,400	4,312	4,233	4,148	4,065
STARK TOTAL	378,098	376,598	377,201	379,903	383,240	386,153	389,174

All projections were adopted by the NEFCO General Policy Board in 2000.

*Stark County portion only.

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NEFCO Population Projections

	2000 CENSUS	2005 NEFCO	2010 NEFCO	2015 NEFCO	2020 NEFCO	2025 NEFCO	2030 NEFCO
<u>Summit County</u>							
<u>Cities</u>							
Akron	217,074	222,130	222,190	222,850	223,450	224,090	224,720
Barberton	27,899	27,100	27,110	27,180	27,400	27,520	27,665
Cuyahoga Falls	49,374	50,320	50,370	50,760	51,170	51,567	51,967
Fairlawn	7,307	6,370	6,420	6,610	7,040	7,310	7,620
Green	22,817	21,830	21,930	23,260	23,920	25,027	26,022
Hudson	22,439	22,540	22,950	24,870	25,510	27,003	28,283
Macedonia	9,224	8,180	8,210	8,340	8,580	8,747	8,932
Munroe Falls	5,314	5,960	6,040	6,200	6,390	6,560	6,735
Norton	11,512	11,910	12,150	12,850	13,160	13,730	14,235
Stow	32,139	31,150	31,600	33,420	34,090	35,527	36,772
Tallmadge	16,180	15,340	15,380	15,510	15,770	15,943	16,138
Twinsburg	17,006	16,090	16,390	16,530	16,890	17,103	17,353
<u>Villages</u>							
Boston Heights	1,186	800	870	910	1,140	1,243	1,378
Clinton	1,337	1,270	1,300	1,370	1,430	1,497	1,562
Lakemore	2,561	2,650	2,680	2,750	2,820	2,890	2,960
Mogadore	2,951	3,100	3,110	3,220	3,310	3,413	3,513
New Franklin (1998)*	2,191	2,376	2,414	2,477	2,528	2,587	2,644
Northfield	3,827	3,790	3,840	4,030	4,180	4,357	4,527
Peninsula	602	530	550	590	610	643	673
Reminderville	2,347	2,360	2,370	2,480	2,500	2,580	2,645
Richfield	3,286	3,340	3,530	3,800	4,140	4,433	4,738
Silver Lake	3,019	3,110	3,160	3,250	3,270	3,337	3,392
<u>Townships</u>							
Bath Twp.	9,635	9,480	9,740	10,250	10,550	10,990	11,395
Boston Twp.	1,062	1,210	1,200	1,220	1,190	1,193	1,188
Copley Twp.	13,641	12,640	13,260	14,070	14,610	15,330	16,005
Coventry Twp.	10,900	11,220	11,270	11,330	11,460	11,543	11,638
Franklin Twp.*	12,339	13,074	13,216	13,563	13,842	14,166	14,479
Northfield Center Twp	4,931	4,360	4,410	4,500	4,680	4,800	4,935
Richfield Twp.	2,138	2,290	2,380	2,580	2,700	2,873	3,033
Sagamore Hills Twp.	9,340	7,870	8,050	8,510	8,730	9,110	9,450
Springfield Twp.	15,168	15,430	15,520	15,950	16,340	16,757	17,167
Twinsburg Twp.	2,153	2,180	2,190	2,370	2,720	2,957	3,222
SUMMIT TOTAL	542,899	542,000	545,800	557,600	566,120	576,826	586,986

All projections were adopted by NEFCO's Board in 2000.

* Populations for the Village of New Franklin were derived by decreasing the population of Franklin Twp

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NEFCO Population Projections

	2000 CENSUS	2005 NEFCO	2010 NEFCO	2015 NEFCO	2020 NEFCO	2025 NEFCO*	2030 NEFCO*
<u>Wayne County</u>							
<u>Cities</u>							
Norton*	11						
Orrville	8,551	8,346	8,586	8,909	9,158	9,456	9,742
Rittman	6,208	6,449	6,617	6,857	7,039	7,260	7,471
Wooster	24,811	25,666	26,749	27,934	28,899	30,011	31,086
<u>Villages</u>							
Apple Creek	999	999	1,042	1,089	1,127	1,171	1,214
Burbank	279	253	248	251	252	254	256
Congress	192	161	163	167	170	174	177
Creston	2,126	1,980	2,033	2,107	2,164	2,232	2,293
Dalton	1,605	1,479	1,519	1,575	1,618	1,670	1,719
Doylestown	2,799	2,962	3,063	3,186	3,284	3,399	3,509
Fredericksburg	487	528	540	558	572	589	604
Marshallville	826	785	800	826	846	870	893
Mount Eaton	246	213	211	214	215	217	219
Shreve	1,582	1,668	1,706	1,765	1,809	1,863	1,915
Smithsville	1,333	1,360	1,377	1,418	1,445	1,481	1,515
West Salem	1,501	1,757	1,828	1,908	1,972	2,047	2,119
<u>Townships</u>							
Baughman Twp.	2,873	2,639	2,706	2,803	2,877	2,966	3,045
Canaan Twp.	2,392	2,036	2,076	2,145	2,195	2,258	2,317
Chester Twp.	2,845	2,675	2,727	2,817	2,883	2,965	3,043
Chippewa Twp.	7,078	6,829	6,982	7,221	7,400	7,619	7,828
Clinton Twp.	1,614	1,635	1,697	1,768	1,826	1,893	1,957
Congress Twp.	2,681	2,727	2,842	2,968	3,071	3,189	3,297
East Union Twp.	5,528	5,167	5,271	5,445	5,574	5,733	5,872
Franklin Twp.	3,485	2,873	2,936	3,035	3,109	3,200	3,279
Green Twp.	3,511	3,970	4,099	4,261	4,388	4,538	4,683
Milton Twp.	3,053	3,289	3,392	3,524	3,626	3,748	3,865
Paint Twp.	2,577	2,736	2,873	3,011	3,126	3,256	3,383
Plain Twp.	2,894	2,774	2,868	2,984	3,075	3,183	3,286
Salt Creek Twp.	3,296	3,113	3,258	3,408	3,533	3,675	3,812
Sugar Creek Twp.	4,897	4,832	4,983	5,176	5,327	5,506	5,678
Wayne Twp.	4,034	3,087	2,927	2,907	2,855	2,824	2,788
Wooster Twp.	5,250	5,812	6,081	6,363	6,595	6,860	7,117
WAYNE TOTAL	111,553	110,800	114,200	118,600	122,030	126,107	129,982

All projections were adopted by NEFCO's Board in 2000.

*See Summit County for Norton's projections