

Appendix A
Population Summary

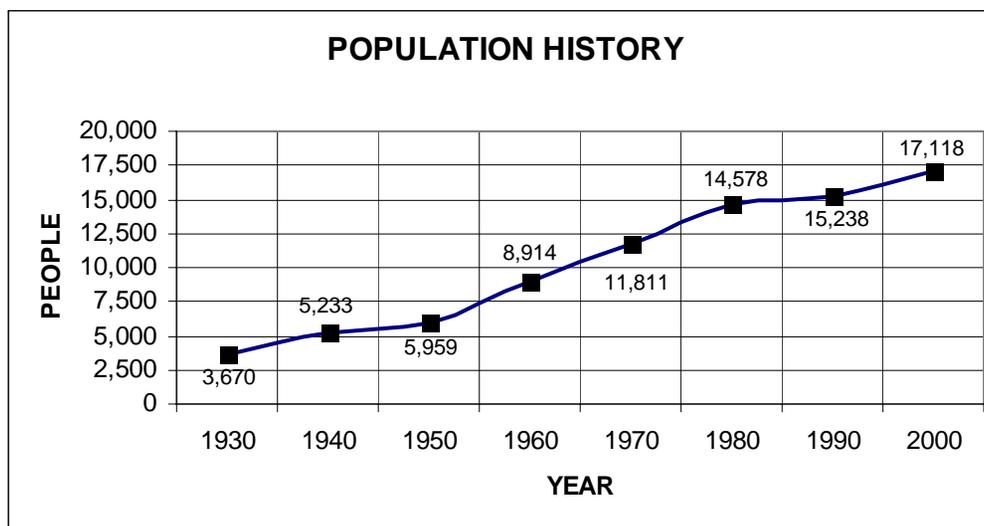
Heart of the Lakes Area Recreation Plan

The demographic composition of the Heart of the Lakes Area population will have an effect upon its recreational needs. For example:

- × **Population History & Projections** – establish the need for general recreational facilities (standards for which are based upon the size of the population).
- × **The Age & Sex of the Population** – further refine the need for general recreational facilities balanced among various age groups and gender interests.
- × **Household & Family Composition** – further refine the need for general recreational facilities balanced between family-oriented and individual activities.
- × **Racial & Ethnic Composition** – further refine the need for general recreational facilities balanced among the various interests of racial and ethnic groups.
- × **The Disabilities of Residents** – establish the need for special recreation facilities and disability accommodations to general recreation facilities.
- × **Income** – helps to illustrate the need for publicly-funded recreational facilities.

Population History & Projections

The population of The Heart of the Lakes Recreation Area was comprised of 17,118 people in the year 2000 according to the US Census. The chart above shows steady population increases in the Area between 1930 and 2000 although the greatest population increases occurred between 1950 and 1980. The table below shows population growth by jurisdiction.



POPULATION HISTORY

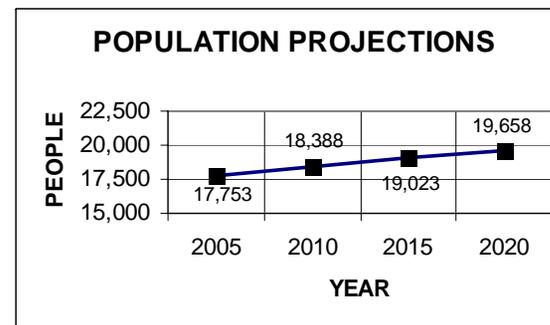
	1930	1940	1950	1960	1970	1980	1990	2000
VILLAGE OF BROOKLYN	733	749	862	1,028	1,154	1,148	1,055	1,206
COLUMBIA TOWNSHIP	1,097	1,159	1,744	2,360	3,369	4,871	5,253	6,028
NAPOLEON TOWNSHIP	1,204	2,577	2,549	4,350	5,500	6,141	6,273	6,962
NORVELL TOWNSHIP	636	748	804	1,176	1,788	2,418	2,657	2,922

Population projections are estimates, usually based on past trends of real growth. The period of time used in this study is 2000-2020 or 20 years from the official 2000 census data. Various factors play a role in the future population of a given area. Primary factors that affect growth are births, deaths, in-migration and out-migration. The above are interrelated so that they impact each other when there is a change in one. In the following chart, population has been projected at five year intervals. Five year projections can easily be changed as situations occur (nationally as well as locally) that will affect local in- and out-migration, such as a new industrial or housing development.

A simple projection model has been used to estimate population growth that might reasonably be expected in the future for the City. The *Linear Method* is based upon the following formulas.¹

$$P_n = P_o(1 + r) \quad r = \left(\frac{P_o - P_m}{P_m} / Y_1 \right) Y_2$$

This model describes a pattern of population growth in which the population level will continue to change at a given rate based upon changes in population over the last 20 years.² Based upon this information, it is reasonable to expect that the population of the Heart of the Lakes Area will continue to increase over the next 20 years. It is also reasonable to expect that the 2005 population for the Area will be around 17,753 and the 2010 population will be around 18,388.



¹ "Pn" is the future population level, "Po" is the base population level, and "r" is the growth rate.

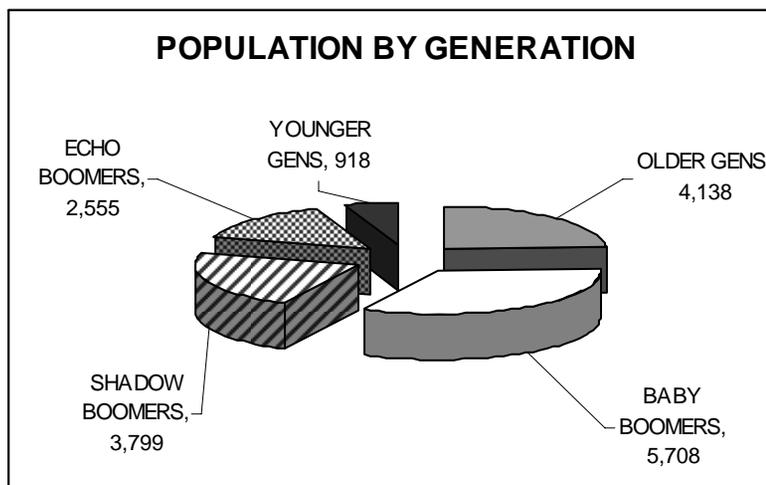
² "r" is the growth rate, "Po" is the base population level, "Pm" is the past population, "Y1" is the historic time period (20 years), and "Y2" is the future time period (5 years).

AGE OF THE POPULATION

	MALE	FEMALE	TOTAL
TOTAL	8,574	8,544	17,118
UNDER 5 YEARS	494	424	918
5 TO 9 YEARS	635	586	1,221
10 TO 14 YEARS	673	661	1,334
15 TO 19 YEARS	634	536	1,170
20 TO 24 YEARS	372	352	724
25 TO 29 YEARS	425	415	840
30 TO 34 YEARS	513	552	1,065
35 TO 39 YEARS	700	688	1,388
40 TO 44 YEARS	737	762	1,499
45 TO 49 YEARS	765	732	1,497
50 TO 54 YEARS	652	672	1,324
55 TO 59 YEARS	533	511	1,044
60 TO 64 YEARS	418	388	806
65 TO 69 YEARS	344	320	664
70 TO 74 YEARS	278	332	610
75 TO 79 YEARS	217	295	512
80 TO 84 YEARS	129	169	298
85 TO 89 YEARS	40	109	149
90 + YEARS	15	40	55
16 + YEARS	6,627	6,745	13,372
18 + YEARS	6,350	6,506	12,856
21 + YEARS	6,061	6,265	12,326
60 + YEARS	1,441	1,653	3,094
62 + YEARS	1,262	1,491	2,753
67 + YEARS	878	1,137	2,015
75 + YEARS	401	613	1,014

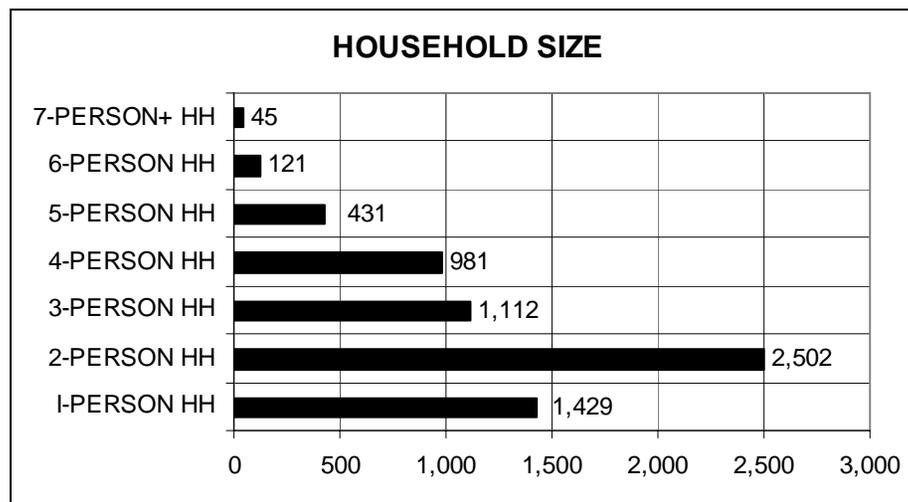
Age & Sex of the Population

The median age in each jurisdiction that comprises the Heart of the Lakes Area is higher than the 35.3 years for the average American in 2000. Brooklyn had the youngest median age (39.6) and Columbia Township (41.5) had the highest.



As the above figure illustrates, baby boomers –people between 35 and 54 years of age in 2000– accounted for a third (33.3%) of the population. Shadow boomers –people between 15 and 34 years of age in 2000– accounted for less than ¼ (22.2%) of the population. Echo boomers –people between 5 and 15 years of age in 2000– accounted for less than 15% of residents (14.9%). Older generations

–people at least 55 years of age in 2000– accounted for approximately ¼ (24.2%) of the population. Younger generations –people less than 5 years of age in 2000– accounted for approximately 5.0% of the population (5.4%). Just over ½ (50.1%) of the Area’s population was male in 2000. However, it is interesting to note that the older the generation in 2000, the greater the percentage of females.



Household & Family Composition

There were 6,624 households in the Heart of the Lakes Area in 2000. Well over ½ (59.4%) of households were comprised of one (21.6%) or two (37.8%) people. Less than one-third of households were comprised of three (16.8%) or four (14.8%) people. Households with five or more people comprised only 9% of the total. Although the overwhelming majority of households were comprised of families, more than ¼ (26.2%) were not. The average household and family size for each jurisdiction in 2000 is shown in the following table:

HOUSEHOLD SIZE IN 2000

	TOTAL	FAMILY
NORVELL TOWNSHIP	2.48	2.89
NAPOLEON TOWNSHIP	2.66	3.04
COLUMBIA TOWNSHIP	2.56	3.00
VILLAGE OF BROOKLYN	2.22	2.87

Racial & Ethnic Composition

Race and ethnicity are not significant issues given that 97.2% of the Area's population was white in the year 2000 and only 1.3% of the population considered itself Hispanic.

Disability of Residents

Less than 18% (17.7%) of Area residents had at least one disability in 2000. However, age is often a determining factor in the distribution of disability. As the adjacent table indicates, over 40% (40.5%) of elderly residents (at least 65 years old) were disabled. In comparison, however, only 2.3% of children (ages of 5 and 15), 11.7% of adolescents (ages 16-20), and 17.6% of adults (ages 21 to 64) were disabled.

DISABLED RESIDENTS

5 TO 15 YEARS (% OF TOTAL POP)	17.8%
NO DISABILITY	97.7%
WITH ONE TYPE OF DISABILITY:	2.1%
WITH TWO OR MORE TYPES OF DISABILITY:	0.2%
16 TO 20 YEARS (% OF TOTAL POP)	5.9%
NO DISABILITY	88.3%
WITH ONE TYPE OF DISABILITY:	4.7%
WITH TWO OR MORE TYPES OF DISABILITY:	7.0%
21 TO 64 YEARS (% OF TOTAL POP)	62.3%
NO DISABILITY	82.4%
WITH ONE TYPE OF DISABILITY:	9.8%
WITH TWO OR MORE TYPES OF DISABILITY:	7.7%
65 YEARS AND OVER (% OF TOTAL POP)	13.9%
NO DISABILITY	59.5%
WITH ONE TYPE OF DISABILITY:	22.9%
WITH TWO OR MORE TYPES OF DISABILITY:	17.6%

HOUSEHOLD INCOME IN 2000

NORVELL TOWNSHIP			
	TOTAL	FAMILY	NON-FAM
MEDIAN INCOME	\$49,167	\$55,221	\$29,375
MEAN INCOME	\$51,601	\$57,662	\$34,338
% OF HOUSEHOLDS	100.0%	70.9%	29.1%
NAPOLEON TOWNSHIP			
	TOTAL	FAMILY	NON-FAM
MEDIAN INCOME	\$48,065	\$51,875	\$29,621
MEAN INCOME	\$60,018	\$62,756	\$46,054
% OF HOUSEHOLDS	100.0%	75.2%	24.8%
COLUMBIA TOWNSHIP			
	TOTAL	FAMILY	NON-FAM
MEDIAN INCOME	\$51,632	\$60,111	\$29,621
MEAN INCOME	\$64,267	\$73,885	\$35,576
% OF HOUSEHOLDS	100.0%	73.9%	26.1%
VILLAGE OF BROOKLYN			
	TOTAL	FAMILY	NON-FAM
MEDIAN INCOME	\$31,964	\$48,750	\$22,250
MEAN INCOME	\$41,732	\$52,786	\$25,686
% OF HOUSEHOLDS	100.0%	57.1%	42.9%

Income

The median household incomes for Columbia, Napoleon, and Norvell Townships were greater than the median income for the United States (\$41,944) in 2000 while the median income for the Village of Brooklyn was less.³ The mean household income for Columbia and Napoleon Townships were greater than the mean income for the United States (\$56,644) while the mean incomes for Norvell Township and the Village of Brooklyn were less.⁴ The median and mean household incomes were higher for families in all jurisdictions while non-family median and mean household incomes were significantly less.

The per capita incomes for Columbia (\$25,763) and Napoleon (\$22,436) Townships were greater than the per capita income for the entire United States (\$21,587) while the per capita incomes for Norvell Township (\$20,488) and the Village of Brooklyn (\$18,933) were less.⁵

³ The median income means that ½ of the incomes were greater than \$41,122 and ½ were less than that amount.

⁴ The mean income is the average income (i.e., the sum of all household incomes divided by the number of households).

⁵ Per capita income is the average income for all residents (i.e., the sum of all household incomes divided by the total population).