

OHIO TOWNSHIP RESOURCE BOOK

Section 1: Township Level Population Characteristics and Trends 1960-2000

WARREN COUNTY, OHIO

Prepared by:
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August 2001

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Ohio Township Resource Book
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and Trends 1960-2000

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INTRODUCTION:

The following report is part of a series of township resource books to be released for the state of Ohio. This is the first segment of the series titled *Township level Population Characteristics and Trends 1960 to 2000*. The report contains three maps, two figures and three tables illustrating township level population trends from 1960 to 2000. (Please refer to the table of contents for a full description of maps, figures and tables). Future additions to the township resource series will address land use, agriculture, income and labor force trends and housing characteristics of Ohio's townships. All data included in this report should be considered current as of August 15th, 2001.

Data collected for this report has been gathered from the 1960, 1970, 1980, 1990 and 2000 decennial census. Data sources include the U.S. Census Bureau, The Office of Strategic Research in the Ohio Department of Development and Geolytics CensusCD 1980TM. All data is reported at the township level and excludes all incorporated places and villages, but includes census designated places (CDP's). This level of geography presents data for all unincorporated township areas and is intended to assist researchers, policy & decision makers and the general public in exploring the dynamics of population change in Ohio's townships and unincorporated areas.

The township resource series is a byproduct of research related to exurban development in the State Of Ohio. The "*Exurban Change Project*" is a collaborative research project conducted by the Department of Agricultural, Environmental & Development Economics and the Department of Human and Community Resource Development at The Ohio State University. For further information related to the township data books or the exurban research project please contact Elena Irwin Irwin.78@osu.edu, Jeff Sharp Sharp.123@osu.edu or Jason Reece Reece.35@osu.edu.

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TABLE 1.1 NOTES AND SOURCES: TOWNSHIP POPULATION 1960-2000

1960 Population:

Number of Persons, 100% count data

U.S. Census Bureau. (1981) 1980 Census of Population: Volume 1 Characteristics of the Population – Number of Inhabitants Ohio: PC80-1-A37. Table 4

1970 Population:

Number of Persons, 100% count data

U.S. Census Bureau. (1981) 1980 Census of Population: Volume 1 Characteristics of the Population – Number of Inhabitants Ohio: PC80-1-A37. Table 4

1980 Population:

Numbers of Persons, 100% count data

Geolytics. (2000) Geolytics CensusCD™ 1980: Data from the 1980 Census of Population and Housing

1990 Population:

Numbers of Persons, 100% count data

U.S. Census Bureau. (1990) 1990 Census of Population and Housing

2000 Population:

Numbers of Persons, 100% count data

Office of Strategic Research. (2001) 2000 Census of Population by age, race and Hispanic origin for Ohio's governmental units.

TABLE 1.2 NOTES AND SOURCES: TOWNSHIP CHANGE BY DECADE 1960-2000

1970 to 1980 Population Change:

Net Change (persons) – The number of residents lost or added within a township between 1960 and 1970.

% Change (percentage) – The percent change in the number of residents in a township. Calculated by dividing *Net Change* by the 1960 population.

1970 to 1980 Population Change:

Net Change (persons) – The number of residents lost or added within a township between 1970 and 1980.

% Change (percentage) – The percent change in the number of residents in a township. Calculated by dividing *Net Change* by the 1970 population.

1980 to 1990 Population Change:

Net Change (persons) – The number of residents lost or added within a township between 1980 and 1990.

% Change (percentage) – The percent change in the number of residents in a township. Calculated by dividing *Net Change* by the 1980 population.

1990 to 1999 Population Change:

Net Change (persons) – The number of residents lost or added within a township between 1990 and 2000.

% Change (percentage) – The percent change in the number of residents in a township. Calculated by dividing *Net Change* by 1990 population.

TABLE 1.3 NOTES AND SOURCES: LAND AREA & POPULATION DENSITY 1960-2000

Land Area:

1960 (sq. miles) – The total area of the township (excluding places) in 1990. Source: Area Measurement Report – Areas of Ohio 1960. U.S. Census Bureau

1970 (sq. miles) – The total area of the township (excluding places) in 1990. Source: Estimated by calculating the mean value of 1960 township land area and 1980 township land area.

1980 (sq. miles) – The total area of the township (excluding places) in 1980. Source: Geolytics CensusCD 1980™. *Note: 1980 area measurements were calculated in a GIS using boundary files from Geolytic's CensusCD 1980™.*

1990 (sq. miles) – The total area of the township (excluding places) in 1990. Source: 1990 Census of Population, Summary Population and Housing Characteristics, Ohio.

2000 (sq. miles) – The total area of the township (excluding places) in 2000. Source: Calculated utilizing a Geographic Information System and 2000 Census Tiger Files.

Population Density:

1960 (persons/ sq. mile) – Population per square mile in 1960. Calculated by dividing the 1960 township population by the 1960 land area.

1970 (persons/ sq. mile) – Population per square mile in 1970. Calculated by dividing the 1970 township population by the 1970 land area.

1980 (persons/ sq. mile) – Population per square mile in 1980. Calculated by dividing the 1980 township population by the 1980 land area.

1990 (persons/ sq. mile) – Population per square mile in 1990. Calculated by dividing the 1990 township population by the 1990 land area.

2000 (persons/ sq. mile) – Population per square mile in 2000. Calculated by dividing the 2000 township population by the 2000 land area.

APPENDIX A:

WARREN COUNTY, OHIO

TOWNSHIP ANNEXATIONS AND REVISIONS, 1960 TO 1998

It should be noted that when comparing township level population data from various years, data reflect annexations and boundary changes within the townships. A complete list of township level changes is included below.

1960 to 1970¹

Annexations: Parts of Clear Creek and Franklin townships annexed by Springboro village, Parts of Union and Deerfield townships annexed by Mason village, Part of Franklin township annexed by Franklin city, Parts of Turtle Creek township annexed by Lebanon city and Monroe village

Additional Annexations: None

Other: Lebanon and Loveland villages changed to cities

1970 to 1980²

Annexations: Mason city annexed into Turtle Creek township, Parts of Turtle Creek and Union townships annexed to Lebanon city, Part of Hamilton township annexed to Loveland city

Additional Annexations: by Mason & Franklin cities and Springboro, Carlisle, Maineville, South Lebanon, Pleasant Plain, Harveysburg, Morrow and Waynesville villages

Other: None

1980 to 1990³

Annexations: Blanchester village annexed into Warren County, by Middletown city from Franklin township, by Lebanon city from Turtle Creek and Union townships

Additional Annexations: by Butlerville, Carlisle, Waynesville villages and Franklin, Mason & Springboro cities

Other: Part of Franklin township added to Spring Creek township due to annexations by Springboro city

1990 to 1998⁴

Annexations: None

Additional Annexations: None

Other: None

¹ U.S. Census Bureau. (1973) 1970 Census of Population: Volume 1 Characteristics of the Population –Ohio: Section 1. Table 10

² U.S. Census Bureau. (1981) 1980 Census of Population: Volume 1 Characteristics of the Population –Ohio: PC80-1-A37. Table 4

³ U.S. Census Bureau. (1993) 1990 Census of Population and Housing. Population and Housing Unit Counts –Ohio: 1990 CPH-2-37. User Notes

⁴ U.S. Census Bureau. (1999) 1998 Population Estimates Program: Geographic Change Notes (*based on the 1998 boundary and annexation survey*) –Ohio: found at: <http://www.census.gov/population/www/estimates/geonotes/39.html>

APPENDIX B:

ADDITIONAL NOTES ON DATA:

- ◆ Township data is derived from extracting “place remainder” data from the census bureau. Place remainder data is a very detailed level of geography and includes only populations residing in township areas, thus excluding all city and village populations. In summary, it represents all unincorporated land in the state that does not reside in a village or city. Place remainder data is also more detailed than the traditional MCD (minor civil divisions) level of geography often used by the Census Bureau. Often MCD level geography does not separate village and some city populations from township data, thus MCD level data for townships may be naturally inflated by this discrepancy and will not match the township totals presented in this report.
- ◆ Census Designated Places or CDP’s are concentrations of population or economic activity that is not within a city or village. The Census Bureau separates these place from township population counts. Because Census Designated Places do represent township population and are not affiliated with any city or village these population counts were recalculated back into the township population totals.
- ◆ Due to discrepancies in the hard copy census records utilized to produce 1960 and 1970 township data some estimation techniques were used to estimate place population counts. This estimation method may result in a slight margin of error for 1960 and 1970 township data presented in this report.
- ◆ Population totals presented in the report represent 100% count data from the U.S. Census Bureau. The 100% count totals are derived directly from questionnaire responses from the decennial census and are not adjusted for any sampling error. Thus, the data presented in this report may not match sample population counts (population counts with sampling error adjustments) released by the Census Bureau.