

CHAPTER 2

Demographic Trends

Regional Population

To put Central Ohio and Orange Township’s growth rate into general perspective, consider the state and national annual growth rates in Figure 2.1. This figure also indicates population changes in townships and municipalities surrounding Orange Township to indicate a true comparison of growth rates from 1990 to 2000.

Figure 2.1 Regional/Local Growth Rates

| Nation/State/Region | 1990 population | 2000 population | Rate 1990-2000 | 2009 estimate | Source |
|----------------------------|-----------------|-----------------|----------------|------------------------|------------------|
| Delaware County | 66,929 | 109,989 | 64.34% | 164,319 | 2009 DCRPC est. |
| Franklin County | 961,437 | 1,068,978 | 11.19% | 1,164,725 | 2009 MORPC est. |
| Central Ohio | 1,377,419 | 1,581,066 | 14.78% | 1,577,169 | 2009 MORPC est. |
| Ohio | 10,847,115 | 11,353,140 | 4.67% | 11,485,910 | 2008 Census est. |
| USA | 248,709,873 | 281,421,906 | 13.15% | 305,862,000 | 2009 Census est. |
| | | | | | |
| Area Townships | | | | | 2000-2009 |
| Berkshire Township | 1,713 | 1,946 | 13.60% | 2,358 | 21.17% |
| Berlin Township | 1,978 | 3,315 | 67.59% | 5,563 | 67.81% |
| Genoa Township | 4,053 | 11,293 | 178.63% | 21,421 | 89.68% |
| Liberty Township | 3,790 | 9,182 | 142.27% | 12,989 | 41.46% |
| Orange Township | 3,789 | 12,464 | 228.95% | 22,264 | 78.63% |
| Trenton Township | 1,906 | 2,137 | 12.12% | 2,281 | 6.74% |
| | | | | | |
| Area Municipalities | | | | MORPC 2009 est. | |
| Columbus (Franklin) | 632,910 | 711,470 | 12.41% | 776,463 | 8.37% |
| Delaware (Delaware) | 20,030 | 25,243 | 26.03% | 32,142 | 21.46% |
| Galena (Delaware) | 361 | 305 | -15.51% | 485 | 37.11% |
| New Albany (Franklin) | 1,621 | 3,711 | 128.93% | 6,622 | 43.96% |
| Pataskala (Licking) | 3,046 | 10,249 | 236.47% | 15,535 | 34.03% |
| Powell (Delaware) | 2,154 | 6,247 | 190.02% | 10,792 | 42.11% |
| Sunbury (Delaware) | 2,046 | 2,630 | 28.54% | 3,248 | 19.03% |
| Westerville (Del, Fra) | 30,269 | 35,318 | 16.68% | 37,879 | 6.76% |

(Source, US Bureau of Census, Internet Release Date: April 2001; Statistical Information, Washington D.C., (301) 457-2422).

While Ohio experienced a growth rate at one third that of the national average, the Central Ohio regional growth rate was much more comparable to the national trend. Delaware County, as the fastest growing county in Ohio, had a growth rate of 64.34%.

The Delaware County growth rate has continued to increase as people push north from Franklin County (Columbus) into the “country” for larger lots with rural character. While Franklin County is losing population to out-migration, Delaware County is growing by in-migration.

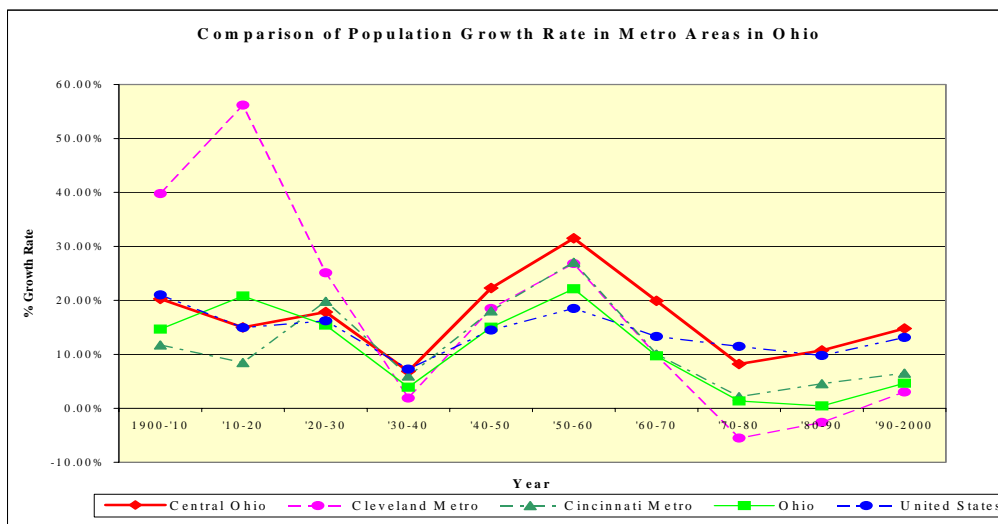
Delaware County is growing largely by domestic in-migration with 38,964 new residents moving into the county from 2000 to 2008. Births minus deaths represented 12,771 additional residents in this same time span. By contrast, Franklin County experienced an outward migration of -40,851 from 2000-2008. Delaware County received a higher number of domestic migration, suggesting that some migration came from other Central Ohio counties. Figures 2.3 & 2.4 illustrate these trends.

Figure 2.3 Central Ohio Growth Rates

| Area | 2000/2008 Census | Percentage/Numerical Change in Population | Births/Deaths (2000-2008) | International Migration | Domestic Migration |
|-----------------|-------------------------|---|---------------------------|-------------------------|--------------------|
| Delaware County | 109,989/165,026 | 50.04%/55,037 | +18,700/-5,929 | 460 | 38,964 |
| Franklin County | 1,068,978/1,129,176 | 5.62%/60,198 | +145,177/-68,649 | 30,100 | -40,851 |
| Central Ohio | 1,581,066/1,738,515 | 9.97%/157,449 | +209,858/-103,369 | 31,363 | 24,045 |
| Ohio | 11,353,140/11,485,890 | 1.17%/132,750 | +1,245,352/-891,908 | 96,251 | -345,793 |
| USA | 281,421,906/304,057,028 | 8.04%/22,635,122 | +34,126,003/-20,001,837 | 8,114,516 | -- |

(Data Source Population Division, US Census Bureau)

Figure 2.4 Central Ohio Growth Rates (1900-2000)



(Data Source Census 2000)

Delaware County's growth should be reviewed as an indicator of future growth pressures in Orange Township. According to the 2007 American Community Survey by the US Census Bureau, Delaware County's population is 49% male and 51% female, over 92% Caucasian. 80% of the population resides in owner-occupied homes.

Figure 2.5 indicates the significant rate of growth within Delaware County compared to other counties. The growth rate for the period 2000-2006 was 42.5% which ranked Delaware County 13th nationally. However, between 2006 and 2007, the increase was estimated at 3.5%, placing Delaware County in the last slot at 100th nationally. In 2008, Delaware County was no longer on the list for annual growth.

Figure 2.5 Area Counties in Context with Nation's Fastest-Growing Counties: April 1, 2000 to July 1, 2008

| County | State | Percent Increase | Numerical Increase | July 2008 est. Population | National Rank By Percentage Growth |
|----------|----------|------------------|--------------------|---------------------------|---------------------------------------|
| Delaware | Ohio | 50 | 55,037 | 165,026 | 21 |
| Franklin | Ohio | 5.62 | 60,089 | 1,129,067 | NR |
| Warren | Ohio | 30.92 | 48,970 | 207,353 | NR |
| | | | | | |
| Kendall | Illinois | 89.6 | 48,900 | 103,460 | 1 |
| Flagler | Florida | 83.1 | 41,415 | 91,247 | 2 |
| Pinal | Arizona | 82.1 | 147,586 | 327,301 | 3 |
| Rockwall | Texas | 80.2 | 34,554 | 77,633 | 4 |
| Loudoun | Virginia | 71 | 120,396 | 289,995 | 5 |

NR= not ranked in the top 100. (Source, US Census Bureau, 2008)

Orange Township Population/Demographics

For the past 40 years, Orange Township has had varied rates of growth. Growth rates didn't increase significantly until the 1990s. This growth continued to increase until dropping in the last few years, as illustrated in Figure 2.6.

Figure 2.6 Census Population Figures, Orange Township 1960-2000 and 2008 estimate

| Year | Census Population | Population Change from Last Census | Percent Change from Last Census |
|-----------|-------------------|---------------------------------------|------------------------------------|
| 1960 | 1,535 | -- | -- |
| 1970 | 1,902 | 367 | 19.30% |
| 1980 | 1,941 | 39 | 2.01% |
| 1990 | 3,789 | 1,848 | 48.77% |
| 2000 | 12,464 | 8,675 | 69.60% |
| 2008 est. | 22,264 | 9,800 | 44.02% |

(Source Census 2000 and DCRPC 2008 Demographic Package)

Figure 2.7 shows a breakdown of the demographic data of Orange Township residents. Detailed census information released in 2002 uses sampling to create details on population at the township level. The following census page depicts Orange Township's demographic information such as ethnic background, household type and ownership. Although this information will vary when the 2010 Census is released, this is the most current data that uses the broadest sampling techniques.

Figure 2.7 2000 General Demographic Profile of Orange Township, Delaware County Ohio

Table DP-1. Profile of General Demographic Characteristics: 2000
 Geographic Area: Orange township, Delaware County, Ohio
 [For information on confidentiality protection, nonsampling error, and definitions, see text]

| Subject | Number | Percent | Subject | Number | Percent |
|---|---------------|--------------|--|---------------|--------------|
| Total population..... | 12,464 | 100.0 | HISPANIC OR LATINO AND RACE | | |
| SEX AND AGE | | | Total population..... | 12,464 | 100.0 |
| Male..... | 6,205 | 49.8 | Hispanic or Latino (of any race)..... | 188 | 1.5 |
| Female..... | 6,259 | 50.2 | Mexican..... | 71 | 0.6 |
| Under 5 years..... | 1,393 | 11.2 | Puerto Rican..... | 22 | 0.2 |
| 5 to 9 years..... | 1,223 | 9.8 | Cuban..... | 7 | 0.1 |
| 10 to 14 years..... | 848 | 6.8 | Other Hispanic or Latino..... | 88 | 0.7 |
| 15 to 19 years..... | 562 | 4.5 | Not Hispanic or Latino..... | 12,276 | 98.5 |
| 20 to 24 years..... | 619 | 5.0 | White alone..... | 11,256 | 90.3 |
| 25 to 34 years..... | 2,617 | 21.0 | RELATIONSHIP | | |
| 35 to 44 years..... | 2,832 | 21.1 | Total population..... | 12,464 | 100.0 |
| 45 to 54 years..... | 1,429 | 11.5 | In households..... | 12,464 | 100.0 |
| 55 to 59 years..... | 360 | 2.9 | Householder..... | 4,629 | 37.1 |
| 60 to 64 years..... | 269 | 2.2 | Spouse..... | 3,044 | 24.4 |
| 65 to 74 years..... | 325 | 2.6 | Child..... | 4,130 | 33.1 |
| 75 to 84 years..... | 136 | 1.1 | Own child under 18 years..... | 3,763 | 30.2 |
| 85 years and over..... | 51 | 0.4 | Other relatives..... | 220 | 1.8 |
| Median age (years)..... | 31.3 | (X) | Under 18 years..... | 51 | 0.4 |
| 18 years and over..... | 8,617 | 69.1 | Nonrelatives..... | 441 | 3.5 |
| Male..... | 4,230 | 33.9 | Unmarried partner..... | 231 | 1.9 |
| Female..... | 4,387 | 35.2 | In group quarters..... | - | - |
| 21 years and over..... | 8,352 | 67.0 | Institutionalized population..... | - | - |
| 62 years and over..... | 657 | 5.3 | Noninstitutionalized population..... | - | - |
| 65 years and over..... | 512 | 4.1 | HOUSEHOLD BY TYPE | | |
| Male..... | 234 | 1.9 | Total households..... | 4,629 | 100.0 |
| Female..... | 278 | 2.2 | Family households (families)..... | 3,481 | 75.2 |
| RACE | | | With own children under 18 years..... | 2,061 | 44.5 |
| One race..... | 12,295 | 98.6 | Married-couple family..... | 3,044 | 65.8 |
| White..... | 11,376 | 91.3 | With own children under 18 years..... | 1,740 | 37.6 |
| Black or African American..... | 473 | 3.8 | Female householder, no husband present..... | 311 | 6.7 |
| American Indian and Alaska Native..... | 14 | 0.1 | With own children under 18 years..... | 235 | 5.1 |
| Asian..... | 353 | 2.8 | Nonfamily households..... | 1,148 | 24.8 |
| Asian Indian..... | 104 | 0.8 | Householder living alone..... | 876 | 18.9 |
| Chinese..... | 107 | 0.9 | Householder 65 years and over..... | 83 | 1.8 |
| Filipino..... | 16 | 0.1 | Households with individuals under 18 years..... | 2,105 | 45.5 |
| Japanese..... | 25 | 0.2 | Households with individuals 65 years and over .. | 350 | 7.6 |
| Korean..... | 65 | 0.5 | Average household size..... | 2.69 | (X) |
| Vietnamese..... | 20 | 0.2 | Average family size..... | 3.12 | (X) |
| Other Asian ¹ | 16 | 0.1 | HOUSING OCCUPANCY | | |
| Native Hawaiian and Other Pacific Islander..... | 2 | - | Total housing units..... | 5,055 | 100.0 |
| Native Hawaiian..... | - | - | Occupied housing units..... | 4,629 | 91.6 |
| Guamanian or Chamorro..... | 1 | - | Vacant housing units..... | 426 | 8.4 |
| Samoan..... | - | - | For seasonal, recreational, or | | |
| Other Pacific Islander ² | 1 | - | occasional use..... | 18 | 0.4 |
| Some other race..... | 77 | 0.6 | Homeowner vacancy rate (percent)..... | 5.0 | (X) |
| Two or more races..... | 169 | 1.4 | Rental vacancy rate (percent)..... | 5.8 | (X) |
| Race alone or in combination with one or more other races:³ | | | HOUSING TENURE | | |
| White..... | 11,527 | 92.5 | Occupied housing units..... | 4,629 | 100.0 |
| Black or African American..... | 538 | 4.3 | Owner-occupied housing units..... | 3,366 | 72.7 |
| American Indian and Alaska Native..... | 63 | 0.5 | Renter-occupied housing units..... | 1,263 | 27.3 |
| Asian..... | 401 | 3.2 | Average household size of owner-occupied units..... | 2.93 | (X) |
| Native Hawaiian and Other Pacific Islander..... | 8 | 0.1 | Average household size of renter-occupied units..... | 2.06 | (X) |
| Some other race..... | 104 | 0.8 | | | |

- Represents zero or rounds to zero. (X) Not applicable.
¹ Other Asian alone, or two or more Asian categories.
² Other Pacific Islander alone, or two or more Native Hawaiian and Other Pacific Islander categories.
³ In combination with one or more of the other races listed. The six numbers may add to more than the total population and the six percentages may add to more than 100 percent because individuals may report more than one race.

Source: U.S. Census Bureau, Census 2000.

Population Projections using Building Permits

Building permit figures tell more than the Census does regarding growth in Orange Township. Since 1995, the township has averaged 405 building permits each year sharply declining in the last two years. In 2004 the township issued 762 permits, its highest total to date. Figure 2.8 lists the number of permits issued for all

Delaware County townships and municipalities from 1995 to 2008. Note that Orange Township either had the highest, or second-highest number of building permits within the townships, trading the top spot with Genoa Township. Following in order of permits was Concord, Liberty, Berlin and Berkshire townships.

Because the township was in the “first tier” of sewerred townships, Orange Township has seen a number of large-scale production-built subdivisions over the last decade. This has resulted in typical single-use suburban-style development.

Figure 2.8 Building Permits issued per Delaware County Township/Municipality (1995 to 2008)

| Townships | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
|------------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|------------|------------|
| Berkshire | 21 | 22 | 16 | 17 | 34 | 16 | 16 | 13 | 15 | 18 | 28 | 29 | 37 | 17 |
| Berlin | 65 | 66 | 54 | 98 | 117 | 128 | 182 | 156 | 123 | 97 | 84 | 66 | 40 | 30 |
| Brown | 11 | 17 | 9 | 10 | 8 | 17 | 10 | 14 | 11 | 8 | 4 | 3 | 2 | 3 |
| Concord | 35 | 30 | 43 | 96 | 103 | 235 | 355 | 294 | 410 | 235 | 167 | 134 | 80 | 67 |
| Delaware | 3 | 4 | 12 | 25 | 11 | 31 | 49 | 46 | 50 | 26 | 19 | 13 | 1 | 3 |
| Genoa | 243 | 363 | 342 | 622 | 507 | 651 | 667 | 716 | 643 | 443 | 305 | 183 | 148 | 72 |
| Harlem | 25 | 30 | 30 | 23 | 27 | 16 | 18 | 26 | 29 | 34 | 20 | 14 | 19 | 17 |
| Kingston | 19 | 18 | 19 | 24 | 37 | 30 | 37 | 34 | 35 | 18 | 14 | 13 | 12 | 1 |
| Liberty | 164 | 202 | 231 | 262 | 322 | 276 | 198 | 238 | 175 | 179 | 168 | 102 | 75 | 69 |
| Marlboro | 1 | 1 | 0 | 1 | 1 | 1 | 10 | 4 | 4 | 0 | 2 | 4 | 2 | 0 |
| Orange | 188 | 268 | 352 | 378 | 637 | 410 | 532 | 558 | 601 | 762 | 420 | 216 | 228 | 142 |
| Oxford | 3 | 6 | 6 | 4 | 9 | 10 | 11 | 11 | 8 | 7 | 4 | 6 | 5 | 1 |
| Porter | 12 | 13 | 16 | 17 | 11 | 12 | 9 | 11 | 18 | 15 | 8 | 11 | 6 | 3 |
| Radnor | 13 | 11 | 9 | 13 | 11 | 12 | 5 | 15 | 16 | 15 | 16 | 6 | 3 | 3 |
| Scioto | 33 | 26 | 20 | 27 | 37 | 21 | 9 | 18 | 20 | 15 | 25 | 15 | 5 | 10 |
| Thompson | 0 | 3 | 4 | 4 | 4 | 2 | 11 | 8 | 6 | 4 | 4 | 6 | 7 | 0 |
| Trenton | 11 | 25 | 17 | 13 | 12 | 10 | 11 | 12 | 11 | 11 | 14 | 7 | 7 | 3 |
| Troy | 9 | 15 | 13 | 12 | 6 | 7 | 14 | 24 | 10 | 16 | 9 | 7 | 6 | 3 |
| Sub Total | 856 | 1,120 | 1,193 | 1,646 | 1,894 | 1,885 | 2,114 | 2,198 | 2,185 | 1,903 | 1,311 | 835 | 683 | 444 |

Incorporated Areas

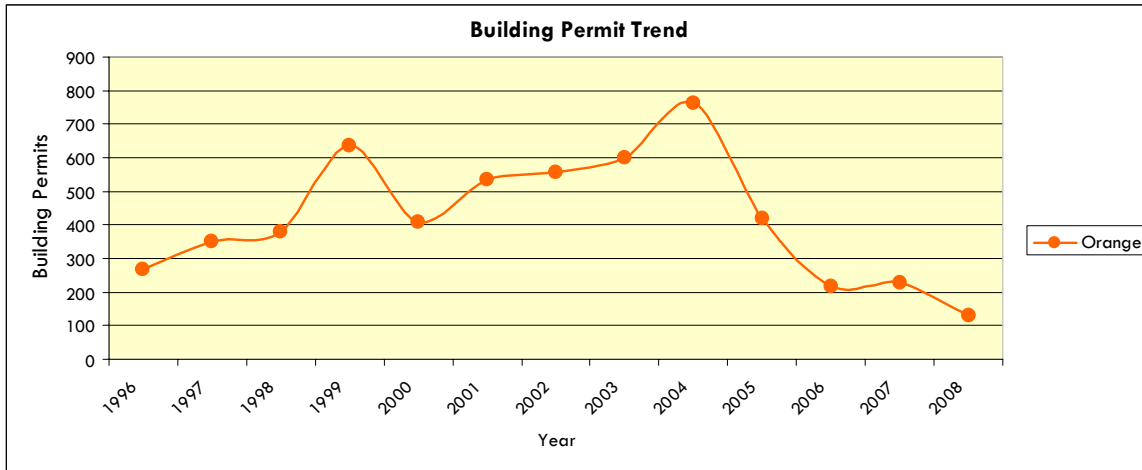
| | | | | | | | | | | | | | | |
|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|
| Delaware | 305 | 465 | 248 | 355 | 790 | 318 | 368 | 313 | 510 | 446 | 324 | 220 | 199 | 108 |
| Galena | 0 | 2 | 0 | 2 | 2 | 1 | 0 | 1 | 1 | 25 | 35 | 13 | 4 | 3 |
| Sunbury | 17 | 40 | 30 | 33 | 19 | 47 | 75 | 72 | 54 | 3 | 0 | 18 | 20 | 31 |
| Shawnee Hills | 7 | 1 | 2 | 1 | 0 | 4 | 5 | 17 | 15 | 24 | 16 | 7 | 2 | 0 |
| Powell | 103 | 130 | 163 | 217 | 141 | 103 | 105 | 127 | 370 | 339 | 216 | 146 | 137 | 36 |
| Ashley | 3 | 0 | 2 | 0 | 0 | 1 | 0 | 3 | 3 | 2 | 1 | 1 | 0 | 1 |
| Ostrander | 9 | 7 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 16 | 15 | 7 | 6 |
| Dublin | - | - | - | - | 4 | 9 | 1 | 3 | 4 | 2 | 0 | 2 | 1 | 2 |
| Westerville | - | - | - | - | - | 140 | 122 | 58 | 17 | 38 | 161 | 81 | 61 | 29 |
| Columbus | 83 | 121 | 546 | 184 | 774 | 146 | 97 | 236 | 251 | 246 | 295 | 254 | 225 | 43 |
| Sub Total | 527 | 766 | 992 | 792 | 1,731 | 769 | 773 | 831 | 1,226 | 1,125 | 1,064 | 757 | 656 | 259 |
| | | | | | | | | | | | | | | |
| County Total | 1,383 | 1,886 | 2,185 | 2,438 | 3,625 | 2,654 | 2,917 | 3,029 | 3,411 | 3,028 | 2,375 | 1,592 | 1,339 | 703 |

*Data available through December, 2008

(Source Delaware County and Municipal Building Departments, 2009)

Figure 2.9 depicts Orange Township's building permit history. Permits reached a high of 762 in 2004 before sinking to 216 in 2006 and 228 in 2007. The township posted just 129 in 2008.

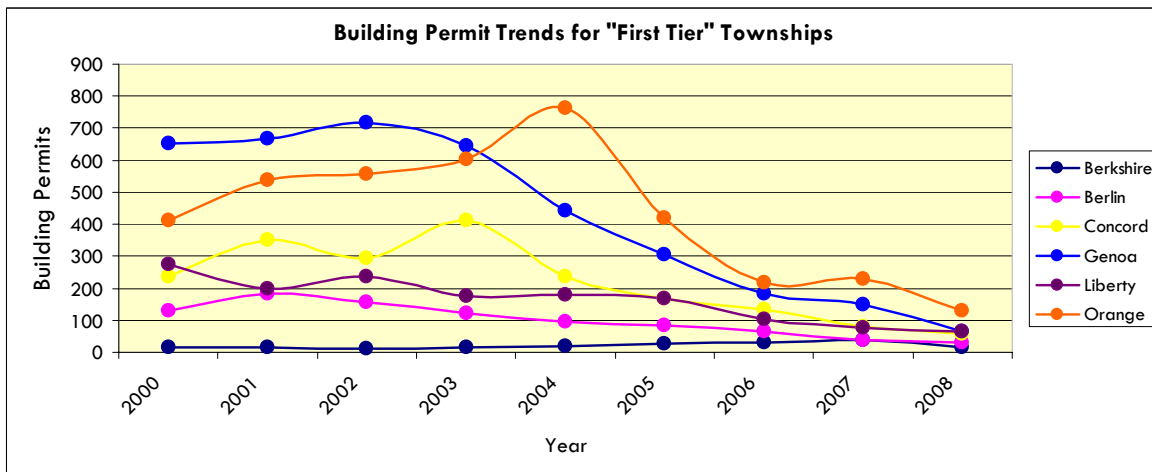
Figure 2.9 Orange Township Building Permit History (1996 to 2008)



(Source DCRPC, 2009)

The drop-off isn't limited to Orange Township, of course. Figure 2.10 depicts the building trend in all of the high-growth townships in southern Delaware County over the last decade.

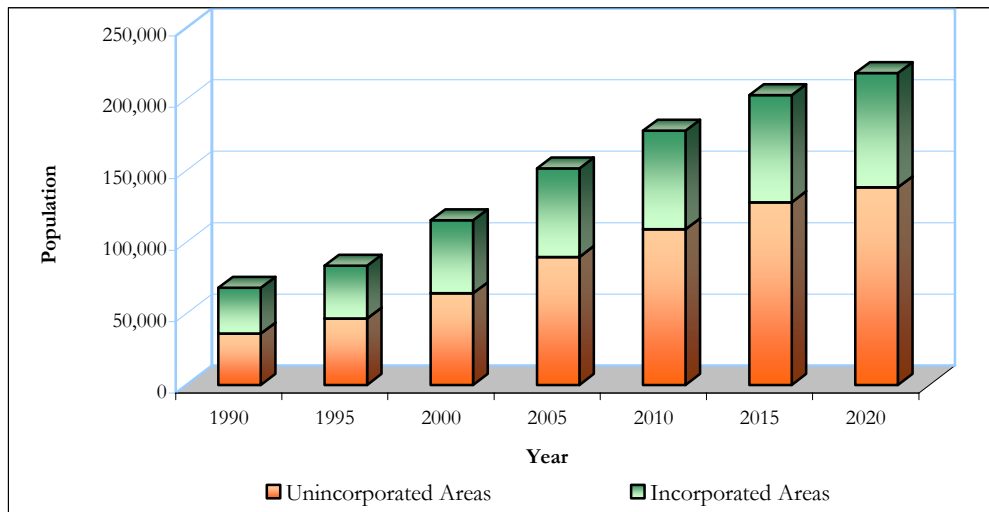
Figure 2.10 High Growth Townships Building Permit History (2000 to 2008)



(Source DCRPC, 2009)

Figure 2.11 demonstrates the projected population for Delaware County in five-year increments to 2020, based on the building permit projection method.

Figure 2.11 Population Projections for Delaware County to 2020 using building permit data



(Source DCRPC, 2007)

The Delaware County Regional Planning Commission makes population projections based upon a Housing Unit Method. The formula works as follows:

1. Last Census (2000) used as a base year.
2. Number of residents per dwelling unit is used from the last Census (2.81 for Orange Township).
3. Number and type of new residential building permits is tracked by month for all jurisdictions.
4. A time lag factor anticipates the occupancy date of new housing after building permit issuance.
5. New population is projected for each jurisdiction based on the number of building permits issued times the number of residents per dwelling unit type, after the lag factor (average eight-month construction time).
6. New population added to last census data to create projected population.

The *Population by Housing Unit Method Projections* table (Figure 2.12) contains population projections for area townships and municipalities of Delaware County through the year 2020. This table indicates that 35,000 people could reside in Orange Township by 2020. This represents 12,736 new residents from 2008 to 2020, a 36% increase (this does not specifically factor in projects which are “in the development pipeline”).

Figure 2.12 Population by Housing Unit Method Projections for Area Townships/Municipalities

| Townships | Census Data | | | | Estimated 2008 | Projected | | | Growth Rate | |
|------------------------|---------------|----------------|---------------|-----------------|-------------------|----------------|----------------|----------------|---------------|---------------|
| | 1990 | 2000 | Pop. Index | Vacancy Rate | | 2010 | 2015 | 2020 | 2001-2010 | 2011-2020 |
| Berkshire Twp. | 1,713 | 1,946 | 2.81 | 4.5% | 2,358 | 2,529 | 2,716 | 2,851 | 28.08% | 12.75% |
| Berlin Twp. | 1,978 | 3,313 | 2.81 | 4.7% | 5,563 | 5,747 | 7,135 | 8,143 | 64.66% | 41.68% |
| Brown Twp. | 1,164 | 1,290 | 2.85 | 3.3% | 1,431 | 1,433 | 1,533 | 1,606 | 9.42% | 12.07% |
| Delaware City | 20,030 | 25,243 | 2.63 | 6.7% | 31,184 | 31,496 | 34,405 | 37,024 | 21.60% | 17.55% |
| Galena Village | 361 | 305 | 2.61 | 7.6% | 485 | 505 | 597 | 681 | 65.32% | 34.93% |
| Genoa Twp. | 4,053 | 11,293 | 2.93 | 5.0% | 21,421 | 21,887 | 28,269 | 28,269 | 79.61% | 29.16% |
| Harlem Twp. | 3,391 | 3,762 | 2.82 | 3.1% | 4,100 | 4,215 | 4,482 | 4,672 | 11.69% | 10.83% |
| Liberty Twp. | 1,136 | 9,182 | 3.00 | 5.3% | 12,989 | 13,400 | 15,577 | 17,155 | 39.11% | 28.02% |
| Orange Twp. | 3,789 | 12,464 | 2.93 | 8.4% | 22,264 | 23,160 | 29,393 | 35,000 | 75.11% | 51.12% |
| Porter Twp. | 1,345 | 1,696 | 2.87 | 3.0% | 1,875 | 1,881 | 2,012 | 2,106 | 10.31% | 11.96% |
| Sunbury Village | 2,046 | 2,630 | 2.55 | 3.9% | 3,248 | 3,280 | 3,583 | 3,855 | 21.85% | 17.51% |
| Trenton Twp. | 1,906 | 2,137 | 2.92 | 3.0% | 2,281 | 2,276 | 2,403 | 2,494 | 6.22% | 9.59% |
| Delaware County | 66,929 | 109,989 | 2.70 | 6.4% | 162,224 | 166,334 | 195,587 | 214,100 | 44.40% | 28.72% |

(Source: DCRPC, October 2008)

Orange Township Growth Summary

According to the U.S. Census Bureau, Delaware County was the fastest growing county in Ohio by percentage of growth (64.3%) from 1990-2000 and the 13th fastest from 2000-2006 (42.5%). Orange (229%), Genoa (178.6%) and Liberty (142.3%) Townships displayed the most rapid growth rates in the county from 1990-2000. Since then, these townships have continued to grow. Orange, in particular, has added 9,800 residents since 2000, a 79% increase for the decade. Genoa saw a 90% growth and Liberty experienced 41%. These three townships are served by centralized county sewer service, which permits higher densities. Centralized sanitary sewer can lead to responsible growth and yield development options that are less land consumptive. Such responsible growth requires a good land use plan and the right land use mix.