# **KINGSTON TOWNSHIP**

**Comprehensive Plan 2006** 



ADOPTED JUNE 2, 2008----EFFECTIVE JULY 2, 2008

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### Chapter 1

### **Goals and Objectives**

According to the 2000 U.S. Bureau of Census, Delaware County is the fastest growing county in Ohio by percentage of growth and the 40<sup>th</sup> fastest growing county in the U.S. from 1990-2000. From 2000-2001, only fourteen counties in the U.S. grew faster. Kingston Township has experienced modest growth from 1990-2000, putting its current population at 1,603.

Kingston Township is likely to remain a single-family residential rural and agricultural area due to a lack of public sanitary sewer service. The Township's first suburban style development NorthStar, utilizes an alternative central sewer system with land application. The Alum Creek and Little Walnut Creek corridors are two significant features in the township recommended for preservation through the use of conservation subdivision design. An approximate density of 1 unit per 1.95 acres is recommended for most of the township to help maintain rural character and protect conservation elements. Kingston Township embraces the concept of density neutral development.

#### A. Findings of the 2006 Comprehensive Plan:

Many of the figures set forth in the document are based on the 2000 U.S Census

- 1. Population has grown by 41.11% from 1,136 in 1990 to 1,603 in 2000. Delaware County has grown by 64.3% during the same period.
- 2. 364 new homes have been built in the last 22 years (1980 to end of 2001).
- 3. From January 1987 to December 2000, 83 new subdivision lots were reviewed by the DCRPC, 76 of which were recorded. This does not include road frontage lot splits and 5-acre mini-farms.
- 4. From January 1998 to the end of 2001, 86 new lots ranging from 1 to 5 acres were created through the no-plat approval (lot split) process.
- 5. Agricultural and undeveloped acreage was still approximately 80% of the township in 2001, and the number one land use by acreage.
- 6. The local farm-to-market roads were not built to sustain their new functional roles as collector and arterial streets. Most collector roads need to be widened, but some narrow roads are considered part of the scenic character.
- 7. Kingston Township has significant natural beauty in the Alum Creek and Little Walnut Creek corridors, which need protection.
- 8. There are 606 total housing units within Kingston Township, 600 of which are single-family homes and 6 are mobile homes. The condition of the housing stock is good to excellent.
- 9. The Polaris area eight miles south of US 36/I-71 has been a huge job and traffic generator for Delaware County. As land becomes more scarce and expensive there, northerly commercial expansion up the US 23 corridor, along the US 36 corridor, and at the US 36/I-71 interchange becomes more likely. The NorthStar development will provide approximately 300 acres of new commercial uses just south of Kingston in Berkshire Township (northeast of US 36/I-71 interchange).
- 10. Del-Co Water Company, Inc. provides potable water to most of the township.
- 11. There is currently no public sewer in Kingston Township. As of January 2003, Delaware County has no plans to provide the township with central sewer.

- 12. Buckeye Valley and Big Walnut school districts, which serve the township, have experienced modest growth in its student population over the past 10 years.
- 13. Porter-Kingston Fire District staffed by volunteers and one paid daytime firefighter provides fire protection to the township. Kingston Township generated 249 of 19,165 or 1.3% of the Delaware County Sheriff's complaints in 2001.
- 14. There is no township park, but nearby Alum Creek State Park and Hoover Reservoir provide passive open space and recreation. There may be a need for additional active recreation such as baseball and soccer fields, tennis and basketball courts, and a public swimming pool in the future.

#### **Vision Statement**

Ultimately, we would like Kingston Township to be a community that retains large lots, and a low residential density (generally less than one unit per 1.95 acres) in a rural setting with agriculture and significant permanent open space.

The rural character of the township will be maintained with a concerted effort to preserve open space, natural features of land, and farmland preservation with an emphasis on large residential lots. Rural roads would for the most part remain narrow two lane roads, yet safely carry local traffic. They would have a rough edge, with fencing that reminds us of the rural past, and mature landscaping to replace fence/tree rows if they are removed as part of planned developments.

Primary conservation features must be prioritized as restricted, permanent open space and preserved as the township develops in this order; #1 woodlands, #2 wildlife habitats, #3 quality wetland buffers and #4 riparian zones. Secondary conservation features including floodways, scenic views and vistas, and sloping land must also be considered as restricted, permanent open space. Prime farmland and cultural resources (historic, archaeological or of cultural value) that give a sense of our heritage should be preserved as part of all new developments.

There should be a variety of housing choices and price ranges, and adequate infrastructure to serve new development. We would like to see a diversity of housing types to meet different housing needs (i.e., older adults, empty nesters, individuals and families). There should be a balance of commercial, residential and recreational uses; commercial should be developed for a broader tax base, but should be in very few select areas buffered from exclusively residential areas.

We want to live in a community where growth is balanced with the conservation and enhancement of rural landscapes, agriculture, cultural and heritage resources, and the environment.

#### B. Goals and Objectives of the Kingston Township Comprehensive Plan:

#### **Natural Resources**

#### Goals:

- 1. To preserve the rural character of Kingston Township as expressed in its open green areas.
- 2. To preserve the rural "look" along township roads via fencing and landscaping.
- 3. To preserve natural resources including woodlands, wetlands, creeks, rivers and floodplains.
- 4. To retain and protect wildlife habitats and riparian corridors.
- 5. To preserve scenic views and vistas as open space.
- 6. To preserve steep slopes where possible in order to avoid erosion.
- 7. To retain and protect prime farmland.
- 8. To preserve our heritage by protecting cultural resources (historic, archaeological, cultural).
- 9. To preserve a high degree of environmental quality.
- 10. To link PRD subdivisions with riparian corridors, bikeways and hiking paths.
- 11. To conserve the surface and ground water quality in the Little Walnut Creek and Alum Creek watersheds.

#### **Objectives:**

- 1. Obtain the linkage of subdivisions by streets, bike paths, or green way trails so neighborhoods are connected and pedestrian oriented.
- 2. Create a landscape detail for green way trails.
- 3. Retain wooded green ways along ravines, waterways and project perimeters.
- 4. Amend the zoning resolutions to identify and protect floodplains, jurisdictional wetlands, and to preserve steep slopes where possible.
- 5. Support amendment of county subdivision regulations to protect 100-year floodplains.
- 6. Set landscape and architectural design standards for PRD subdivisions. Stipulate centralized green space.
- 7. Create a rural landscape detail for PRD fronting on existing roads.
- 8. Amend the zoning text to require the appropriate landscaping buffer detail between residential and non-residential land uses. Retain natural vegetation and use existing topography as buffers.
- 9. Promote off-stream storm water detention in new developments.
- 10. Retain natural ravines and their vegetation as filter strips for surface water.

#### Agriculture

#### **Goals:**

- 1. To provide an opportunity for agriculture to continue through flexible/creative zoning.
- 2. To retain low residential density in agricultural areas.

#### **Objectives:**

- 1. Leave gross density of 1.95 acres (85,000 sq. ft.) as the minimum requirement.
- 2. Use the Land Evaluation Site Assessment (LESA) system to evaluate lands worthy of Purchase of Agricultural Conservation Easements (PACE). This should be a voluntary system used in concert with the property owner's request to sell an agricultural easement.

- 3. Preserve farmland by voluntary (sale) of development rights from farmland to adjacent farm villages (Conservation Subdivisions).
- 4. Apply for state or federal funding for purchase of agricultural easements.
- 5. Encourage farm preservation as a use for open space in PRD subdivisions.

#### **Residential Development**

#### **Goals:**

- 1. To relate land use and density to land suitability, utility availability, existing land use, and the recommendations for each sub area.
- 2. To consider the carrying capacity of infrastructure (sewer, water, fire protection, roads, etc) in establishing residential densities.
- 3. To provide for rural areas where agriculture is transitioning to large lot residential.
- 4. To retain a primarily single family residential housing mix, but permit a diversity of housing types.
- 5. To avoid sprawling subdivisions consisting only of lots and streets and no local parks or green space.
- 6. To protect local real estate values.
- 7. To consider the consistency of the development with the character of the surrounding area.

#### **Objectives:**

- 1. Retain an overall low density (at most one unit per 1.95 acres with on-site sewage disposal systems).
- 2. Use the width of roads, the capacity of water and sewer systems, and the soil characteristics to limit development to the carrying capacity of the infrastructure, using the densities and land uses on the comprehensive plan recommended land use map as a guide.
- 3. Avoid development of uses or densities that cannot be serviced by currently available or imminently planned infrastructure, unless such development mitigates its unplanned infrastructure impacts.
- 4. Consider a Traditional Neighborhood Development as an alternative to standard subdivisions at appropriate crossroads locations.

#### **Commercial Development**

#### Goals:

- 1. To encourage commercial development in planned districts to broaden the jobs and tax base, and to prevent property taxes from rising faster than the growth in the township tax base.
- 2. To provide for dense landscape buffering between commercial and residential uses.
- 3. To encourage commercial and office development around the potential future I-71/S.R. 521 interchange if the interchange is constructed.
- 4. To provide for transitional land uses and dense landscape buffering between incompatible land uses.

#### **Objectives:**

- 1. Identify an area for a small neighborhood commercial district to serve the needs of township residents.
- 2. Identify a possible commercial area around a SR 521/I-71 interchange if it is built.
- 3. Create development guidelines for planned commercial development.
- 4. Use parallel frontage or back roads on arterial roads to service the commercial uses and to control access points onto the arterial road.

#### Recreation

#### **Goals:**

- 1. To provide passive and active recreational areas as the township grows.
- 2. To link planned residential neighborhoods with green spaces and walking/biking paths.

#### **Objectives:**

- 1. Acquire land for future Township parks for passive and active recreation (playing fields for organized sports).
- 2. Create a series of mini-parks (less than 1 acre) with ½ mile spacing and neighborhood parks of 15 acres with active recreation with ½ mile spacing in large PRD neighborhoods.
- 3. Consider future partnership agreements for the purchase, development and management of recreational land within the township.

#### **Township Services**

#### **Goals:**

- 1. To recognize and maintain only those services needed for a predominantly agricultural and rural/low density community.
- 2. To expand township services at a rate to ensure public health and safety.
- 3. To acquire suitable land for the township's future needs.

#### **Objectives**

- 1. Acquire new sites for township facilities, including fire, police, road maintenance, cemetery, etc.
- 2. Determine the services the township can provide as an agricultural/rural community.
- 3. Work with elected officials to increase services as needed, but not in a way to compete with urban development, as to retain a rural community.
- 4. Use the Comprehensive plan as the guideline in zoning.

#### **Planning and Zoning**

#### **Goals:**

- 1. To determine and implement an appropriate land use mix.
- 2. To implement and maintain the land use plan.
- 3. To enforce zoning regulations.

#### **Objectives:**

- 1. Revise the zoning text and map in accordance with the comprehensive plan.
- 2. Create architectural guidelines for Planned Residential Development.
- 3. Acquire new sites for township facilities, including fire, police, road maintenance, cemetery, etc.
- 4. Develop policies for service provision that relate to the comprehensive plan.
- 5. Provide for 5 year updates and revisions to the plan.
- 6. Respond to zoning requests pursuant to the Comprehensive Plan recommendations.

#### **Transportation**

#### **Goals:**

- 1. To avoid congestion on local, county and state roads.
- 2. To improve the road network without destroying the rural character.
- 3. To seek developer mitigation of roads impacted by their developments.

#### **Objectives:**

- 1. Require commercial parallel access roads and connections between planned commercial developments along arterial roads.
- 2. Work with ODOT to prevent the deterioration of S. R. 521 and S. R. 61.

#### **Citizen Participation**

#### Goals:

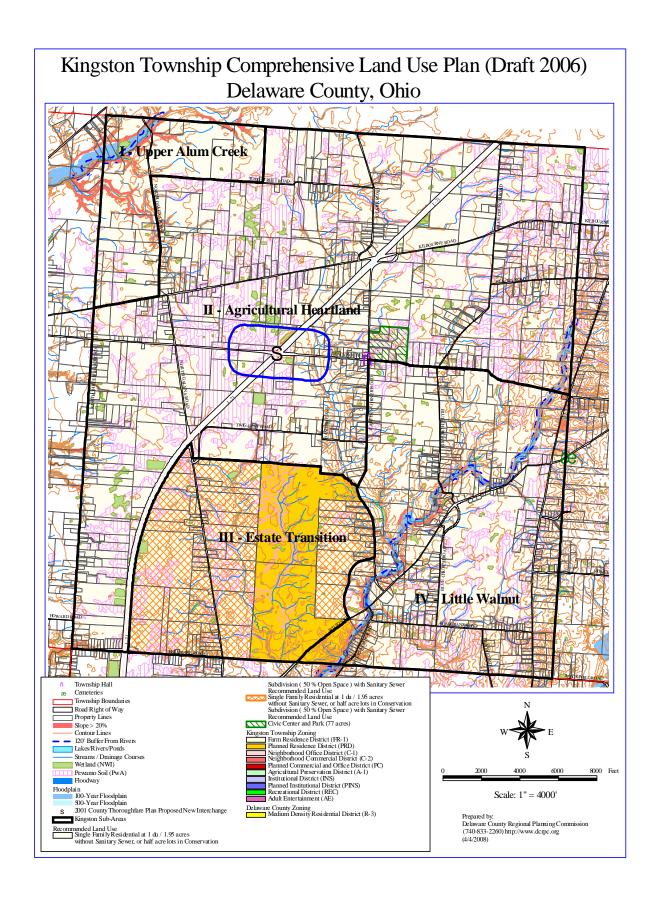
- 1. To ensure significant and diverse citizen input into the planning process.
- 2. To keep residents informed and connected.

#### **Objectives:**

- 1. Use the steering committee as the primary citizen input to the Zoning Commission in amending the Comprehensive Plan.
- 2. Advertise open informational meetings to discuss and review the recommendations of the plan prior to public hearings.
- 3. Publish and mail a synopsis of the plan to every household in Kingston Township.
- 4. Encourage active citizen participation in future comprehensive plan updates.
- 5. Maintain a newsletter, website and e-mail notification system to keep residents informed and engaged.

#### C. Recommendations

- Chapter 2 includes detailed Sub Area recommendations that relate to the 2006 Comprehensive Plan Map (please turn to Chapter 2 for those details).
- Please see the Comprehensive Plan Map (next page).



# Chapter 2

#### Recommendations

#### 2.1 Intent of the Kingston Township Comprehensive Land Use Plan

The 2006 Kingston Township Comprehensive Land Use Plan is the sum of all the chapters and appendices. Chapter 2 is intended to be read and viewed in conjunction with the Comprehensive Land Use Plan (map) in Chapter 1.

#### 2.2 Sub Area I – Upper Alum Creek District

**Boundaries**: West: Brown Township; East: East property line of Collier property, and N. Galena Road; North: Morrow County; South: Kilbourne Road and Todd Street Road.

Land Area: 991 acres



Alum Creek, east of North Galena Road

#### A. General Facts and Findings

This sub area contains Alum Creek passing from Morrow County through northwestern Kingston into Brown Township where it feeds into Alum Creek Lake, a public drinking water reservoir. There are also a series of well defined fingers which branch off of Alum Creek into a few large tracts of land still engaged in farming along Todd Street Road and Kilbourne Road.

The Alum Creek corridor is heavily wooded, contains floodplain and some steep slopes (greater than 20%). These elements are all critical to the environmental stability, natural beauty, and culture enjoyed by Kingston Township.

There is no sanitary sewer and none proposed. The Township's intent for this area is to limit the population density to protect surface and ground water quality, to prevent pollution of Alum Creek, to prevent undue congestion of the primitive rural road network, to protect floodplains and to protect the real estate values of large lot residential neighborhoods.

#### **B.** Sub Area I Recommendations

The plan recommends a minimum lot size of 1.95 acres for all lands within this sub area. This is intended to limit the disturbance to the natural ecosystem and the preservation of groundwater. The Township should encourage conservation subdivision (50 percent open space) guidelines that promote natural landscapes (see Chapter 15) at the underlying density (1 unit / 1.95 acre) with a .5-acre minimum lot size. Tree preservation is encouraged to reduce stormwater runoff and protect surface and ground water quality.

A streamside "No-build" buffer is also recommended within the district for the protection of the Alum Creek and its wildlife. This buffer would extend 120' from the normal high water line.

Further preservation of natural areas in the township could be achieved through any or all of the following: (Source: Model Watercourse Protections MORPC 1999)

- 1. Identify and catalog the community's environmentally sensitive areas.
- 2. Establish a land trust to acquire and accept development rights and easements to unique natural areas such as scenic views, woodlands, and wetlands.
- 3. Cooperate with other public and private agencies interested in protecting the critical resources of the township.

#### 2.3 Sub Area II – Agricultural Heartland

<u>Boundaries</u>: West: Planning Area I and Brown Township; North: Todd Street Road and Morrow County; East: Porter Township, Carter's Corner Road, and I-71; South: approximately 1500' south of Twig-Hupp Road (north boundary of NorthStar development) and Berkshire Township.





#### A. General Facts and Findings

Sub Area II is generally divided east-west by I-71 and north-south by SR 521. There is currently no access to I-71 in the Township. Much of the land along the other roads in this sub area (3 Bs and K, N. Galena, and Carter's Corner Roads) have already been split into road frontage residential lots on 1 to 5 acres.

The area is characterized by generally flat topography with prime agricultural soils in large undivided tracts of land. Sub Area II has the highest amount of prime agricultural soils and is made up largely of cultivated fields divided by tree lines and small wood lots. Some of the highest yielding soils are located along the I-71 corridor. There is no central sewer, and none proposed by the county. Soils are generally unsuitable for individual on-site treatment systems but can be used for land application systems, provided large retention ponds can hold the treated water for 6-7 months of the year. There is Del-Co water service for most of this planning area. It is likely that Sub Area II will remain at rural densities with larger lot sizes in order to have enough land for the required on-site sanitary systems.



Farm on SR 521

#### **B.** Sub Area II Recommendations

The plan recommends this area to be the agricultural heart of the township. Due to the high seasonal water table of soils and lack of sanitary sewer, the minimum lot size for single-family residences should be 1.95 acres. To preserve agriculture, Conservation Subdivision Development could be encouraged at 1 unit per 1.95 acres gross density with a .5-acre minimum lot size and contiguous open space preserved for agriculture. Development rights could be transferred from agricultural lands to directly abutting, adjacent tracts for Farm Village developments, thus saving this area as a permanent agricultural and low-density core of the Township.

- The 2001 Delaware County Thoroughfare Plan proposes a new interchange at I-71 and SR 521. If the proposed interchange is constructed within the planning period, there may be an opportunity for limited planned commercial to serve area residents and traveling public. At the present time, the Director of ODOT opposes any new interchanges, so this may not occur.
- The primary use for the Agricultural Heartland will be for farm and accessory uses.
- Discourage multiple, road-frontage lot splits along SR 521. If developments are proposed, new streets should be constructed internal to the development.
- A tract on the northeast corner of SR 521 and Carter's Corner Road, adjacent to the existing
  Township Hall should be considered as a possible location for a future Township park and
  community facility campus. The tract is centrally located, large and flat enough for active
  recreation and community facilities, and is easily accessible. It would also afford the
  opportunity to preserve the historic Kingston Central School.

#### 2.4 Sub Area III – Estate Transition District

**Boundaries:** *North:* Approximately 1500' south of Twig-Hupp Road (north boundary of NorthStar development); *South:* Berkshire Township and Wilson Road; *East:* Carter's Corner Road and a line 1000' west of Little Walnut Creek; *West:* I-71.

Land Area: 1,994 acres

#### A. General Facts and Findings

This sub area provides a transition from the relatively flat, open agricultural uses to the west into the rolling tributaries of the Little Walnut Creek to the east. Soils are moderately productive in terms of agriculture yield, but are generally suitable for small developments utilizing individual on-site septic systems, or larger developments with land application treatment systems. This sub area is also adjacent to Berkshire Township, which has approved its portion of the proposed Northstar residential development (651 new houses) at a density of 1.25 units/acre, as well as 306 acres of Planned Commercial just northeast of the I-71/36-37 Interchange. This sub area is intended to provide a transition from the higher densities of Berkshire Township to the lower densities in the rural agricultural heartland and Little Walnut Creek corridor.

#### B. Recommendations for Sub Area III

The plan recommends a minimum lot size of 1.95 acres if served by on-site septic systems. However, to help preserve open space and protect critical resources, Conservation Subdivision Developments (50 percent open space) with a .5-acre minimum lot size could be encouraged at the underlying density with on-lot sewage disposal.

#### 2.5 Sub Area IV – Little Walnut District

**Boundaries**: *North:* SR 521; *South:* Berkshire Township; *East:* Porter Township; *West:* Carter's Corner, Wilson Road and a line 1000' west of Little Walnut Creek.

Land Area: 3,546 acres

#### A. General Facts and Findings

This sub area contains the most rugged topography in the township. It contains the Little Walnut Creek and a network of tributaries, feeding into the Hoover Reservoir, a public drinking water reservoir, south of the Township. The Little Walnut Corridor also contains significant woods along the creek. Steep slopes, scenic views, vistas, wildlife and even scenic roadways typify the landscape. These elements are all critical to the environmental stability, natural beauty, and culture enjoyed by Kingston Township. Roads are narrow, curving with low speed limits, following the Creek and terrain.



Little Walnut Creek, west of Carter's Corner Road

There is limited sanitary sewer proposed. The Township's intent for this area is to limit the population density to protect surface and ground water quality, to prevent pollution of Little Walnut Creek, to prevent undue congestion of the primitive rural road network, to protect floodplains and to protect the real estate values of large lot residential neighborhoods.

#### B. Recommendations for Sub Area IV

The plan recommends a minimum lot size of 1.95 acres for all lands within this sub area. This is intended to limit the disturbance to the natural ecosystem and the preservation of groundwater. The Township should encourage conservation subdivision (50 percent open space) guidelines that promote natural landscapes (see Chapter 15) at the underlying density (1 unit / 1.95 acre) with a .5-acre minimum lot size. Tree preservation is encouraged to reduce storm water runoff and protect surface and ground water quality.

A streamside "No-build" buffer is also recommended within the district for the protection of the Little Walnut Creek and its wildlife. This buffer would extend 120' from the normal high water line.



Little Walnut Creek, south of Blue Church Road

Further preservation of natural areas in the township could be achieved through any or all of the following: (Source: Model Watercourse Protections MORPC 1999)

- 1. Identify and catalog the community's environmentally sensitive areas.
- 2. Establish a land trust to acquire and accept development rights and easements to unique natural areas such as scenic views, woodlands, and wetlands.
- 3. Cooperate with other public and private agencies interested in protecting the critical resources of the township.

#### 2.6 Future Land Use Mix

The table below shows the future land use mix of the township if the township was totally built out.

Future Land Use Mix- 2006 Kingston Township Comprehensive Plan

|  | 2001      | % Land | 2002                        | % Land |
|--|-----------|--------|-----------------------------|--------|
|  | (Actual)  |        | Build-out per Comprehensive |        |
|  |           |        | Plan                        |        |
| Residential (SF +MF) **                        | 2,355.49  | 15.46  | 14,183.10                   | 93.09  |
| Single Family                                  | 2,355.49  |        | 14,183.10                   |        |
| Multi family                                   | 0         |        |                             |        |
| Commercial                                     | 63.87     | .40    | 170                         | 1.11   |
| Institutions                                   | 5.43      | <.1    | 25                          | .64    |
| Industrial                                     | 0         | 0      | 0                           | 0      |
| Agriculture and undeveloped (includes forests) | 12,107.83 | 79.47  | 0                           | 0      |
| Lakes, rivers and public lands                 | 259.68    | 1.70   | 336.68                      | 2.20   |
| Roads and Utilities                            | 487.70    | 3.20   | 487.70                      | 3.20   |
| Vacant land rezoned, still undeveloped         | 19.23     | .12    | 0                           | 0      |
| Acreage in Township                            | 15,235.36 | 100    | 15,235.36                   | 100    |

#### 2.7 Future Kingston Township Population At Build-out

The future Kingston Township population at build-out depends largely on the development types. The traditional development pattern (road frontage lot splits) with individual on-site septic systems could continue, or large-scale developments utilizing a land application treatment system may occur.

The 2002 year-end projected population of Kingston Township was 1,821, which was based on a projected 634 housing units by year end. The NorthStar development is expected to add 2,183 people to the Township, doubling the population in the next 20 years. If all of Kingston Township was to develop with large-scale developments utilizing centralized sewer, the build-out population could be 26,994 according to the Delaware County Regional Planning Commission. This could potentially provide a large amount of open space and preserve conservation features that are valued by the residents. The continuation of the past trend (low-density, 1.95 acre lots) would result in a Kingston Township population of 17,761 (assuming 15% for new roads), but very little open space would remain.

The character of the township will continue to reveal itself as the plan is implemented. As time passes and new factors influence the validity of the 2006 vision, the township will have to revisit its plan and its vision to consider whether changes need to be made.

### Chapter 3

## **Township Planning**

#### 3.1 How Planning relates to zoning and the community vision

The comprehensive plan is a set of policies, goals and recommended land use map for the future development of the township. However, as a plan, it has no direct power under Ohio township zoning law, under which this Township's enforceable standards are to be stated in the Township's Zoning Resolution.

The value of comprehensive planning includes the following:

- Citizen participation leads to better interaction between government and citizens.
- A comprehensive plan allows government to describe appropriate long range goals prior to the zoning hearing process.
- The comprehensive plan contains valuable information on land use, natural resources environmental concerns, housing, traffic analysis, etc., and serves as a policy guide for all land use decisions.
- The comprehensive plan is based on the consensus of citizens, and is a strong protection against legal challenges for inappropriate land use.
- The comprehensive plan contains a record of existing and proposed land uses.

The Township's Zoning Commission, consistent with the planning role prescribed in Ohio Revised Code 519.05, held hearings and reviewed numerous drafts over several years, prior to referring this plan to the Township Trustees for adoption. At-large residents and landowners of the township were encouraged to and did participate in the planning process.

#### 3.2 The Intent of the Kingston Township Comprehensive Plan

The Kingston Township Comprehensive Land Use Plan is intended to:

- 1. Review land use, population, utility services, roads, and boundaries.
- 2. Review the economic, legislative, judicial and regulatory conditions.
- 3. Establish goals and policies that are representative of the community's values and visions of its future, and determine if they conform to current federal and state land use legislation and court decisions.
- 4. Compliment the goals with specific objectives for the growth in the ensuing five to ten years.
- 5. Create a text and map for the recommended land use of each parcel on a site-specific basis to guide future growth of the township.
- 6. Recommend amendments to local zoning, and the adoption of development policies to assure that the township will be what it has envisioned when it is all built out.

The Comprehensive Land Use Plan is intended to be site-specific, with land use and/or density classification attached to each parcel, and to be viewed from an environmental standpoint with policies to protect critical resource areas.

#### 3.3 The DCRPC 1993 Comprehensive Plan-The Effect on the Township

In 1993, the Delaware County Regional Planning Commission contracted with Frank Elmer and Assoc., Wilbur Smith and the SWA Group to prepare a Regional Comprehensive Plan for the entire Delaware County Planning Area. Kingston Township falls within the North Planning Area.

The 1993 DCRPC Regional Comprehensive Plan overlays data to create a land suitability map which, in conjunction with development policies for each planning area represents the best guidelines possible at the macro scale of the study. It is suggestive, not prescriptive.

The 1993 DCRPC Plan is the adopted Regional Plan. The Kingston Township Comprehensive Plan states the more specific vision, goals and objectives of the Township. If these plans differ in their recommendations, the Township plan takes precedence.

#### 3.4 DALIS – How digital information affects the township's ability to plan

The Delaware County Auditor developed a Geographic Information System (GIS) for the primary purpose of accurately mapping tax parcels. DALIS stands for Delaware Area Land Information System. It is an accurate computer mapping system that offers both tabular and graphic real estate data for each of about 50,000 tax parcels.

This mapping system has a cadastral (property line) layer and topography layer. Topography is available in 2', 5', and 10' contours depending upon which area of the county is viewed. In addition, the Auditor has also created revised soil maps and digital ortho photos with structures.

DALIS mapping is used as the base map for the 2006 Kingston Township Comprehensive Plan. The software used is Arc/Info and Arc/View, by ESRI. Planners may now view each parcel in a site-specific manner. This has allowed the Comprehensive Land Use Plan to be site specific.

# **Chapter 4**

## **Population and Growth**

#### **4.1 Population by Census Figures**

For the past 40 years, Kingston Township has had strong, steady growth.

Table 4.1 Census of Population, Kingston Township 1960-2000

| 1960 | 1970 | % growth<br>1960-70 | 1980 | % growth<br>1970-80 | 1990 | % growth<br>1980-90 | 2000 | % growth<br>1990-2000 |
|------|------|---------------------|------|---------------------|------|---------------------|------|-----------------------|
| 508  | 567  | 11.61 %             | 959  | 69.14 %             | 1136 | 18.46 %             | 1603 | 41.11 %               |

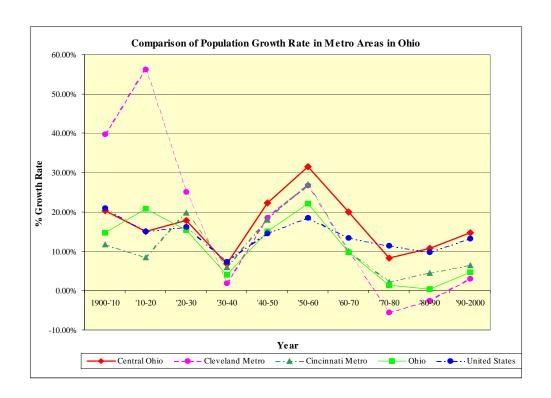
According to the US Bureau of the Census, Population Division, Delaware County grew by 64.3% from 1990-2000, making it the fastest growing county in Ohio, and the 40th fastest growing county in America. Most of this growth has occurred south of the city of Delaware. From 2000-2001, only fourteen counties in the U.S. grew faster.

<u>Table 4.2 Ten Fastest Growing Counties in Ohio, by % Growth Rate 1990-2000</u> (Source, US Bureau of Census, Census 2000; Statistical Information, Washington D.C, (301)-457-2422).

| Ohio      | 1990       | 2000       | 1990-2000 %        | Ohio Rank, | USA Rank  |
|-----------|------------|------------|--------------------|------------|-----------|
| County    | Population | Population | <b>Growth Rate</b> | 1990-2000  | 1990-2000 |
|           |            |            |                    |            |           |
| Delaware  | 66,929     | 109,989    | 64.3 %             | 1          | 40        |
| Warren    | 113,909    | 158,383    | 39 %               | 2          | 161       |
| Union     | 31,969     | 40,909     | 28 %               | 3          | 365       |
| Noble     | 11,336     | 14,058     | 24 %               | 4          | 484       |
| Medina    | 122,354    | 151,095    | 23.5 %             | 5          | 504       |
| Brown     | 34,966     | 42,285     | 20.9 %             | 6          | 607       |
| Fairfield | 103,461    | 122,759    | 18.7 %             | 7          | 720       |
| Holmes    | 32,849     | 38,943     | 18.6 %             | 8          | 725       |
| Clermont  | 150,187    | 177,977    | 18.5 %             | 9          | 727       |
| Knox      | 47,473     | 54,500     | 14.8 %             | 10         | 984       |

|          | 20 Fastest Gro |              |              | rcent Change:<br>ensus, 4/29/200 | April 1, 2000 to J | luly 1, 2001         |
|----------|----------------|--------------|--------------|----------------------------------|--------------------|----------------------|
|          |                | Cource: 0    | July 1, 2001 | April 1, 2000                    | April 1, 2000      | April 1, 2000        |
|          |                |              | Estimate     | Population                       | to                 | to                   |
|          |                |              |              | Estimates                        | July 1, 2001       | July 1, 2001         |
|          |                |              |              | Base                             | Numeric            | Percent              |
| Rank     | State          | County       |              |                                  | Population         | Population<br>Change |
| Nalik    |                |              | 400.750      | 475 700                          | Change             |                      |
| <u> </u> | Colorado       | Douglas      | 199,753      | 175,766                          | 23,987             | 13.6                 |
|          | Virginia       | Loudoun      | 190,903      | 169,599                          | 21,304             | 12.6                 |
|          | Georgia        | Forsyth      | 110,296      | 98,407                           | 11,889             | 12.1                 |
|          | Texas          | Rockwall     | 47,983       | 43,080                           | 4,903              | 11.4                 |
| 5        | Texas          | Williamson   | 278,067      | 249,967                          | 28,100             | 11.2                 |
| 6        | Georgia        | Henry        | 132,581      | 119,341                          | 13,240             | 11.1                 |
| 7        | Kentucky       | Spencer      | 13,039       | 11,766                           | 1,273              | 10.8                 |
| 8        | Florida        | Flagler      | 54,964       | 49,832                           | 5,132              | 10.3                 |
| 9        | Texas          | Collin       | 541,403      | 491,675                          | 49,728             | 10.1                 |
| 10       | Georgia        | Paulding     | 89,734       | 81,678                           | 8,056              | 9.9                  |
| 11       | Georgia        | Newton       | 68,047       | 62,001                           | 6,046              | 9.8                  |
| 12       | Minnesota      | Scott        | 98,100       | 89,498                           | 8,602              | 9.6                  |
| 13       | Texas          | Rains        | 10,006       | 9,139                            | 867                | 9.5                  |
| 14       | South Dakota   | Lincoln      | 26,322       | 24,131                           | 2,191              | 9.1                  |
| 15       | Ohio           | Delaware     | 119752       | 109989                           | 9763               | 8.9                  |
| 16       | Utah           | Tooele       | 44,157       | 40,735                           | 3,422              | 8.4                  |
| 17       | Florida        | Wakulla      | 24,761       | 22,863                           | 1,898              | 8.3                  |
| 18       | Virginia       | Spotsylvania | 97,760       | 90,395                           | 7,365              | 8.1                  |
| 19       | Florida        | Lake         | 227,598      | 210,528                          | 17,070             | 8.1                  |
| 20       | California     | Placer       | 268,512      | 248,399                          | 20,113             | 8.1                  |

The Delaware County growth rate has continued to increase as people pushed north from Franklin County (Columbus) into the "country" for larger lots or more "rural character". While Franklin County is losing population by out-migration, Delaware is growing by immigration.



#### Population Information in Central Ohio

(Data source: U.S. Census Bureau)

|               |             |             | Changed              | Total     | Births     | Deaths     | Natural G.          | Int'l              | Domestic           |
|---------------|-------------|-------------|----------------------|-----------|------------|------------|---------------------|--------------------|--------------------|
| Area Name     | 1990 Census | 2000 Census | # of Pop.            | Growth R. | 1990-1999  | 1990-1999  | # of Pop.           | Migration          | Migration          |
| Franklin      | 961,437     | 1,068,978   | 107,541              | 11.19%    | 149,925    | 70,377     | 79,548              | 11,089             | -21,749            |
| Delaware      | 66,929      | 109,989     | 43,060               | 64.34%    | 9,856      | 4,515      | 5,341               | 440                | 25,347             |
| Fairfield     | 103,472     | 122,759     | 19,287               | 18.64%    | 14,070     | 8,166      | 5,904               | 283                | 17,280             |
| Licking       | 128,300     | 145,491     | 17,191               | 13.40%    | 17,230     | 11,100     | 6,130               | 285                | 8,103              |
| Union         | 31,969      | 40,909      | 8,940                | 27.96%    | 4,685      | 2,498      | 2,187               | 75                 | 6,576              |
| Pickaway      | 48,244      | 52,727      | 4,483                | 9.29%     | 5,806      | 3,760      | 2,046               | 46                 | 3,240              |
| Madison       | 37,068      | 40,213      | 3,145                | 8.48%     | 4,803      | 2,843      | 1,960               | 77                 | 2,349              |
| Central Ohio  | 1,377,419   | 1,581,066   | 203,647<br>14.78%    | 14.78%    | 206,375    | 103,259    | 103,116<br>7.49%    | 12,295<br>0.89%    | 41,146<br>2.99%    |
| Ohio          | 10,847,115  | 11,353,140  | 506,025<br>4.67%     | 4.67%     | 1,454,713  | 957,171    | 497,542<br>4.59%    | 52,922.00<br>0.49% | -166,200<br>-1.53% |
| United States | 248,709,873 | 281,421,906 | 32,712,033<br>13.15% | 13.15%    | 36,820,132 | 20,934,303 | 15,885,829<br>6.39% | 7,478,078<br>3.01% | 0.00%              |

Delaware County is growing largely by domestic in-migration. 25,347 new residents moved into the county from 1990 to 1999. Births minus deaths represented 5,341 new populations in this time span. By contrast, Franklin County experienced a net loss of –21,749 via outward migration from 1990-99. Delaware County received 62% of the domestic migration in Central Ohio from 1990-99.

To put Delaware County's rate of growth into national perspective, consider the state and national annual growth rates in Table 4.3.

Table 4.3 Delaware County Growth Rate Vs. Ohio Vs. USA

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

| Area               | 1990 population | 2000 population | Growth Rate 1990-2000 |
|--------------------|-----------------|-----------------|-----------------------|
| USA                | 248,709,873     | 281,421,906     | 13.15 %               |
| Ohio               | 10,847,115      | 11,353,140      | 4.66 %                |
| Central Ohio       | 1,377,419       | 1,581,066       | 14.78 %               |
| Franklin Co.       | 961,437         | 1,068,978       | 11.2 %                |
| Berkshire Twp.     | 1,713           | 1,946           | 13.6 %                |
| Berlin Twp.        | 1,978           | 3,313           | 67.49 %               |
| Brown Twp.         | 1,164           | 1,290           | 10.82 %               |
| Concord Twp.       | 3,363           | 4,088           | 21.56 %               |
| Delaware Twp.      | 1,607           | 1559            | -2.99 %               |
| Genoa Twp.         | 4,053           | 11,293          | 178.63 %              |
| Harlem Twp.        | 3,391           | 3,762           | 10.94 %               |
| Kingston Twp.      | 1,136           | 1,603           | 41.11 %               |
| Liberty Twp.       | 3,790           | 9,182           | 142.27 %              |
| Marlboro Twp.      | 213             | 227             | 6.57 %                |
| Orange Twp.        | 3,789           | 12,464          | 228.95 %              |
| Oxford Twp.        | 901             | 854             | -5.22 %               |
| Porter Twp.        | 1,345           | 1,696           | 26.10 %               |
| Radnor Twp.        | 1,156           | 1,335           | 15.48 %               |
| Scioto Twp.        | 1,698           | 2,122           | 24.97 %               |
| Thompson Twp.      | 582             | 558             | -4.12 %               |
| Trenton Twp.       | 1,906           | 2,137           | 12.12 %               |
| Troy Twp.          | 1,652           | 2,021           | 22.34 %               |
| Total Unincorp.    | 35,437          | 61,450          | 73.41 %               |
| Delaware           | 20,030          | 25,243          | 26.03 %               |
| Dublin             | 3,811           | 4,283           | 12.39 %               |
| Galena             | 361             | 305             | -15.51 %              |
| Sunbury            | 2,046           | 2,630           | 28.54 %               |
| Shawnee Hills      | 423             | 419             | 95 %                  |
| Powell             | 2,154           | 6,247           | 190.02 %              |
| Ashley             | 1059            | 1,216           | 14.83 %               |
| Ostrander          | 431             | 405             | -6.03 %               |
| Westerville        | 1,177           | 5,900           | 401.27 %              |
| Columbus           | 0               | 1,891           |                       |
| Total Incorp.      | 31,492          | 48,539          | 54.13 %               |
| Total Delaware Co. | 66,929          | 109,989         | 64.3 %                |

Delaware County's population is 49.5% male and 50.5% female, over 94% White, and 80% residing in their own homes.

The following table provides census data for Kingston Township.

Table DP-1. Profile of General Demographic Characteristics: 2000

Geographic Area: Kingston township, Delaware County, Ohio

[For information on confidentiality protection, nonsampling error, and definitions, see text]

| Subject                                    | Number    | Percent   | Subject  | Number | Percent  |
|--|-----------|-----------|--|--------|----------|
| Total population                           | 1,603     | 100.0     | HISPANIC OR LATINO AND RACE                      |        |          |
| SEX AND AGE                                |           |           | Total population                                 | 1,603  | 100.0    |
| Male                                       | 828       | 51.7      | Hispanic or Latino (of any race)                 | 1      | 0.1      |
| Female                                     | 775       | 48.3      | Mexican  | 1      | 0.1      |
|  | Action 20 |           | 1 Cuban  | 35/    | 0.1      |
| Under 5 years                              | 100       | 6.2       | Other Hispanic or Latino                         | 100    | 100      |
| 5 to 9 years                               | 149       | 9.3       | Not Hispanic or Latino                           | 1,602  | 99.9     |
| 10 to 14 years                             | 155       | 9.7       | Mileto plane                                     | 1,576  | 98.3     |
| 15 to 19 years                             | 117       | 7.3       |  | 1,570  | 30.0     |
| 20 to 24 years                             | 37        | 2.3       | RELATIONSHIP                                     |        |          |
| 25 to 34 years                             | 176       | 11.0      | Total population                                 | 1,603  | 100.0    |
| 35 to 44 years                             | 372       | 23.2      | In households                                    | 1,603  | 100.0    |
| 45 to 54 years                             |           | 15.2      | Householder                                      | 537    | 33.5     |
| 55 to 59 years                             | 87        | 5.4       | Spouse   | 432    | 26.9     |
| 60 to 64 years                             | 47        | 2.9       | Child  | 539    | 33.6     |
| 65 to 74 years                             | 83        | 5.2       | Own child under 18 years                         | 448    | 27.9     |
| 75 to 84 years                             |           | 1.9       |  | 43     | 2.7      |
| 85 years and over                          | 5         | 0.3       | Under 18 years                                   | 20     | 1.2      |
| Median age (years)                         | 36.7      | (X)       | Nonrelatives                                     | 52     | 3.2      |
| Usi 556                                    |           |           | Unmarried partner                                | 22     | 1.4      |
| 18 years and over                          |           | 70.0      | In group quarters                                | -      | -        |
| Male                                       | 567       | 35.4      | Institutionalized population                     | (8)    | -        |
| Female                                     | 555       | 34.6      |  |        | S)=      |
| 21 years and over                          | 1,071     | 66.8      |  |        |          |
| 62 years and over                          | 150       | 9.4       | HOUSEHOLD BY TYPE                                |        |          |
| 65 years and over                          | 119       | 7.4       | Total households                                 | 537    | 100.0    |
| Male                                       | 64        | 4.0       | Family households (families)                     | 466    | 86.8     |
| Female                                     | 55        | 3.4       | With own children under 18 years                 | 234    | 43.6     |
|  |           |           | Married-couple family                            | 432    | 80.4     |
| RACE                                       | -1176     | 2000 2 00 | With own children under 18 years                 | 217    | 40.4     |
| One race                                   | 1,594     | 99.4      |  | 21     | 3.9      |
| White                                      | 1,577     | 98.4      |  | 11     | 2.0      |
| Black or African American                  | 7         | 0.4       | Nonfamily households                             | 71     | 13.2     |
| American Indian and Alaska Native          | 2         | 0.1       | Householder living alone                         | 45     | 8.4      |
| Asian                                      | 7         | 0.4       | Householder 65 years and over                    | 14     | 2.6      |
| Asian Indian                               |           | -         |  |        |          |
| Chinese                                    | =         | -         | Households with individuals under 18 years       | 252    | 46.9     |
| Filipino                                   | 1         | 0.1       | Households with individuals 65 years and over    | 81     | 15.1     |
| Japanese                                   | -         | -         | Average household size                           | 2.99   | (X)      |
| Korean                                     | -         | -         | Average family size                              | 3.18   | (X)      |
| Vietnamese                                 | -         |           |  | 0.10   | (24)     |
| Other Asian 1                              | 6         | 0.4       | HOUSING OCCUPANCY                                |        |          |
| Native Hawaiian and Other Pacific Islander | -         | -         | Total housing units                              | 554    | 100.0    |
| Native Hawaiian                            | -         | -         | Occupied housing units                           | 537    | 96.9     |
| Guamanian or Chamorro                      | -         | -         | Vacant housing units                             | 17     | 3.1      |
| Samoan                                     | -         | -         | For seasonal, recreational, or                   | 17     | 3.1      |
| Other Pacific Islander 2                   | -         | -         | occasional use                                   | 1      | 0.2      |
| Some other race                            | 1         | 0.1       | occasional dec                                   |        | 0.2      |
| Two or more races                          | 9         | 0.6       | Homeowner vacancy rate (percent)                 | 0.6    | (X)      |
| D  |           |           | Rental vacancy rate (percent)                    | 2.4    | (x)      |
| Race alone or in combination with one      |           |           | AND US HOME THE COURSE THE STATE OF              |        | 100 1001 |
| or more other races: 3                     | 4 500     | 00.0      | HOUSING TENURE                                   |        | 3330     |
| White                                      | 1,586     | 98.9      | Occupied housing units                           | 537    | 100.0    |
| Black or African American                  | 12        | 0.7       | Owner-occupied housing units                     | 497    | 92.6     |
| American Indian and Alaska Native          | 5         | 0.3       | Renter-occupied housing units                    | 40     | 7.4      |
| Asian                                      | 8         | 0.5       |  |        |          |
| Native Hawaiian and Other Pacific Islander |           |           | Average household size of owner-occupied units.  | 3.02   | (X)      |
| Some other race                            | 1         | 0.1       | Average household size of renter-occupied units. | 2.58   | (X)      |

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

From 1990-2000, Kingston Township grew two thirds as fast as Delaware County as a whole. Kingston Township's population has grown from 1,136 in 1990 to a (projected, by DCRPC) 2002 year-end 1,821. Kingston's projected growth rate for 2001-2010 is 58.46%.

Represents zero or rounds to zero. (X) Not applicable.
 Other Asian alone, or two or more Asian categories.
 Other Pacific Islander alone, or two or more Native Hawaiian and Other Pacific Islander categories.
 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.

#### **4.2 Population Projections**

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 calculated based upon the last census information (3.02 for Kingston 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.
- 6.) New population added to last census data to create projected population.
- 7.) Vacancy Rate and Annual Death rate from the Census Bureau.

The <u>Population by Housing Unit Method Projections</u> table contains population projections for Delaware County through the year 2020. Based upon its current growth rate, Kingston Township could have a population of 2,751 in 2010 and 4,146 in 2020.

|                    |  |                 |            |                 |             |        |              |         |         |         |             |           |         |         | l       |                |             |
|--------------------|--|-----------------|------------|-----------------|-------------|--------|--------------|---------|---------|---------|-------------|-----------|---------|---------|---------|----------------|-------------|
| DELAWAREC          | DELAWARE COUNTY REGIONAL PLANNING COMMISSION | AL PLANNING     | COMMISSIC  | Z               |             |        |              |         |         |         |             |           |         |         |         |                |             |
| POPULATION         | POPULATION PROJECTION (HOUSING UNIT METHOD)  | OUSING UNIT     | METHOD)    |                 |             |        |              |         |         |         |             |           |         |         |         |                |             |
| 2000 THIROUGH 2020 | H 2020                                       |                 |            |                 |             |        |              |         |         |         |             |           | ١       |         | ١       |                |             |
| YEAR               | 1990 CENSUS                                  | 2000 CENSUS     | POPULATION | HUNITS          | END OF 2000 | 2001   | 2002         | 2008    | 2004    | 2005    | GROWTH RATE | ANNUAL    | 2010    | 2015    | 2020    |                | ATE         |
|                    | (APRIL OF 1990)                              | (APRIL OF 2000) | INDEX      | INDEX VACANCYR, |             |        | (Projected — |         |         | Ŷ       | (90-2000)   | GROWTH R. |         |         | _       | (2001-2010) (2 | (2011-2020) |
| TOWNSHIPS          |  |                 |            |                 |             |        |              |         |         |         |             |           |         |         |         |                |             |
| BERKSHIRE          | 1713   | 1946            | 2,810      | 4.5%            | 1974        | 2006   | 2036         | 2070    | 2113    | 2149    | 13.60%      | 1,28%     | 2,678   | 3,204   | 3,745   | 35.64%         | 39.85%      |
| BERLIN             | 1978   | 3313            | 2.810      | 4.7%            | 3489        | 3852   | 4294         | 4645    | 4892    | 5103    | 67.49%      | 5.29%     | 5,810   | 6,513   | 7,237   | 66.55%         | 24.56%      |
| BROWN              | 1164   | 1290            | 2.850      | 3.3%            | 1303        | 1336   | 1362         | 1397    | 1414    | 1429    | 10.82%      | 1.03%     | 1,489   | 1,549   | 1,611   | 14.29%         | 8.19%       |
| CONCORD            | 3363   | 4088            | 2,740      | 5.8%            | 4323        | 4994   | 5839         | 6594    | 7324    | 7956    | 21.56%      | 1.97%     | 9,343   | 10,723  | 12,145  | 116.12%        | 29.98%      |
|                    |  |                 |            |                 |             |        |              |         |         |         |             |           |         |         |         |                |             |
| DELAWARE           | 1607   | 1559            | 2.630      | 7.0%            | 1580        | 1660   | 1771         | 1897    | 1982    | 2056    | -2.99%      | -0.30%    | 2254    | 2,451   | 2,654   | 42.62%         | 17.74%      |
| GENOA              | 4053   | 11293           | 2.930      | 5.0%            | 12185       | 13931  | 15697        | 17389   | 18862   | 20133   | 178.63%     | 10.79%    | 23,130  | 26,110  | 29,180  | 89.81%         | 26.16%      |
| HARLEM             | 3391   | 3762            | 2.820      | 3.1%            | 3774        | 3798   | 3829         | 3861    | 3873    | 3881    | 10.94%      | 1.04%     | 3,951   | 4,021   | 4,00,4  | 4.69%          | 3.60%       |
| KINGSTON           | 1136   | 1603            | 3.020      | 3.1%            | 1652        | 1736   | 1821         | 1889    | 1981    | 2059    | 41.11%      | 3.50%     | 2,751   | 3,438   | 4,146   | 66.53%         | 50.74%      |
|                    |  |                 |            |                 |             |        |              |         |         |         |             |           |         | 1       |         |                |             |
| LIBERTY            | 3790   | 9182            | 3.000      | 5.3%            | 7633        | 10291  | 10811        | 11375   | 11917   | 12380   | 142.27%     | 9.25%     | 15,407  | 18,416  | 21,515  | 82.5           | 39.65%      |
| MARLBORO           | 213  | 122             | 2.690      | 6.7%            | 727         | 235    | 233          | 23      | 261     | \$      | 6.57%       | 0.64%     | 274     | 284     | 232     | 20.64%         | 7.55%       |
| ORANGE             | 3789   | 12464           | 2,930      | 8.4%            | 13226       | 14342  | 15734        | 17202   | 18507   | 19632   | 228.95%     | 12.65%    | 23,304  | 26,955  | 30,717  | 76.19%         | 31.81%      |
| OXFORD             | 901  | 854             | 2.870      | 7.2%            | 86          | 988    | 912          | 626     | 959     | 916     | -5.22%      | -0.53%    | 66      | 1,021   | 1,045   | 15.61%         | 4.60%       |
|                    |  |                 |            |                 |             |        |              |         |         |         |             |           |         |         |         |                |             |
| PORTER             | 1345   | 1696            | 2.870      | 3.0%            | 1705        | 1726   | 1742         | 1759    | 1774    | 1785    | 26.10%      | 2.35%     | 1,799   | 1,813   | 1,828   | 5.53%          | 1.58%       |
| RADNOR             | 1156   | 1335            | 2.750      | 4.3%            | 1345        | 1363   | 1372         | 1388    | 1396    | 1402    | 15.48%      | 1.45%     | 1,421   | 1,441   | 1,462   | 5.69%          | 2.85%       |
| SCIOTO             | 1698   | 2122            | 2.740      | 4.7%            | 2154        | 2187   | 2203         | 2232    | 2256    | 2276    | 24.97%      | 2.25%     | 2,323   | 2,371   | 2,420   | 7.85%          | 4.15%       |
|                    |  |                 |            |                 |             |        |              |         |         |         |             |           |         |         |         |                |             |
| THOMPSON           | 282  | 228             | 2.760      | 8.2%            | 529         | 268    | 286          | 165     | 295     | 865     | 4.12%       | -0.42%    | 919     | 634     | 652     | 10.22%         | 5.85%       |
| TRENTON            | 1906   | 2137            | 2.920      | 3.0%            | 2143        | 2159   | 2184         | 2223    | 2263    | 228     | 12.12%      | 1.15%     | 2,351   | 2,406   | 2,463   | 9.73%          | 4.76%       |
| TROY               | 1652   | 2021            | 2.520      | 8.5%            | 2018        | 2027   | 2056         | 2106    | 2160    | 2206    | 22.34%      | 2.04%     | 2,242   | 2,278   | 2,316   | 11.12%         | 3.29%       |
| TOTAL UNINC.       | 35,437                                       | 61,450          | 2.810      | 5.3%            | 64,154      | 160,69 | 74509        | 79,815  | 84,528  | 88,580  | 73.41%      | 2,66%     | 102,142 | 115,627 | 129,523 | 59.21%         | 26.81%      |
| INCORPORATED AREAS |  |                 |            |                 |             |        |              |         |         |         |             |           |         |         |         |                |             |
| DELAWARE           | 20030  | 25243           | 2.630      | 6.7%            | 25000       | 26565  | 27283        | 27889   | 28372   | 28802   | 26.03%      | 2,34%     | 31,531  | 34,07   | 36,605  | 21.74%         | 16.09%      |
| GALENA             | 361  | 302             | 2.610      | 7.6%            | 302         | 302    | 36           | 302     | 304     | 303     | -15.51%     | -1.67%    | 320     | 327     | 334     | 4.81%          | 4.38%       |
| SUNBURY            | 2046   | 2630            | 2.550      | 3.9%            | 2692        | 2812   | 2975         | 3114    | 3218    | 3311    | 28.54%      | 2.54%     | 3,310   | 3,503   | 3,694   | 22.95%         | 11.60%      |
|                    | ş  | Ş               |            |                 | ş           | Š      | 4            | į       | į       | ş       |             | 100       |         | 3       | 1       | 1              | i i         |
| SHAWNEHILLS        | 67 <sub>b</sub>                              | 419             | 7.320      | 3.0%            | 424         | 630    | 448          | 40/     | 4/3     | \$      | 40.92%      | 9,60,0    | 900     | 9       | 4/7     | 1.23%          | 2,107       |
| POWELL             | 2154   | 6247            | 3.180      | 2.8%            | <b>6</b> 23 | 6716   | 9669         | 7286    | 7623    | 7931    | 190.02%     | 11,24%    | 9006    | 10,234  | 11,363  | 41.38%         | 24.92%      |
| ASHLEY             | 1059   | 1216            | 2,660      | 6.2%            | 1284        | 1278   | 1272         | 1269    | 1264    | 1258    | 14.83%      | 139%      | 1,369   | 1,371   | 1,375   | 6.64%          | 0.44%       |
|                    |  |                 |            |                 |             | ş      |              | ,       |         |         |             |           | į       | 3       | •       |                |             |
| OSTRANDER          | 431  | 8               | 7.080      | 5.1%            | 403         | 401    | 333          | 9       | X,      | 392     | 0.03%       | 0.02%     | 471     | 6.30    | \$      | 5.88%          | 4.77%       |
| DUBLIN             | 3811   | 4283            | 3.040      | 6.9%            | 4291        | 4285   | 4266         | 4255    | 4242    | 4228    | 12.39%      | 1.17%     | 4,516   | 4,618   | 4,719   | 5.25%          | 4.50%       |
| WESTERVILLE        | 1177   | 2800            | 2.820      | 3.7%            | 6748        | 7073   | 7312         | 7452    | 7635    | 6611    | 401.27%     | 17.49%    | 11,238  | 12,796  | 14,237  | 66.53%         | 26.69%      |
| COLUMBUS           | 0  | 1891            | 2.480      | 7.8%            | 2546        |        | 3070         | 3362    | 3574    | 3767    |             |           | 6,940   | 8,966   | 10,977  | 172.58%        | 58.17%      |
| TOTAL INC.         | 31,492                                       | 48,539          | 2.697      | 5.0%            | 51,033      | 52,700 | 54,325       |         |         | 58,274  | 54.13%      | 4.42%     | 69,207  | 76,794  | 84,221  | 35.61%         | 21.69%      |
| T. INC&UNINC.      | 66,929                                       | 686'601         | 2.700      | 6.4%            | 115,186     |        |              | 135,611 | 141,628 | 146,854 | 64.34%      | 5.09%     | 171,349 | 192,421 | 213,744 | 48.76%         | 24.74%      |
| THESTER            |  | I) ANNEXATION   |            |                 |             |        | 1            | ı       | L       |         |             |           |         |         |         |                |             |

1) ANNEZATION 2) SINGLE F. AND MILTT F. OR CONDOMINIUM BUILDING PERMITS

3) VACANCY RATE

#### **4.3 Building Permits and Population Growth**

The building permit numbers, more than the census, tell what is happening in Kingston Township. From 1980 to the end of 1989, the township saw an average of 8 new single family houses per year. Since 1990 the average increased to 22 per year. However, a closer look reveals that 28.6% of all new housing since 1980 has occurred in the last 3 years (104 permits). Typically, homes in the township have been built one-at-a-time on individual acreage lots with septic systems.

| YEAR               | 1980 | 1981 | 1982 | 1983 | 1084 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991  | 1992  | 1993  | 1994   | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  | Total ('80-'01) |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-----------------|
| LIK                | 1700 | 1701 | 1702 | 1303 | 1704 | 1703 | 1700 | 1507 | 1700 | 1707 | 1330 | 1,,,, | 1,,,, | 1775  | 1,7,74 | 1775  | 1,7,0 | 1771  | 1770  | .,,,  | 2000  | 2001  | 10001 (00-01)   |
| TOWNSHIPS          |      |      |      |      |      |      |      |      |      |      |      |       |       |       |        |       |       |       |       |       |       |       |                 |
| BERKSHIRE          | 6    | 3    | 2    | 6    | 6    | 13   | 30   | 28   | 26   | 26   | 30   | 18    | 27    | 26    | 13     | 21    | 22    | 16    | 17    | 34    | 16    | 16    | 402             |
| BERLIN             | 8    | 11   | 4    | 9    | 11   | 19   | 19   | 34   | 32   | 17   | 13   | 22    | 26    | 35    | 39     | 65    | 66    | 54    | 98    | 117   | 128   | 182   | 1,009           |
| BROWN              | 3    | 2    | 2    | 9    | 5    | 3    | 5    | 10   | 15   | 13   | 8    | 7     | 9     | 12    | 14     | 11    | 17    | 9     | 10    | 8     | 17    | 10    | 199             |
| CONCORD            | 16   | 16   | 4    | 11   | 14   | 26   | 42   | 44   | 51   | 27   | 30   | 22    | 33    | 38    | 42     | 35    | 30    | 43    | 96    | 103   | 235   | 350   | 1,308           |
| DELAWARE           | 3    | 5    | 2    | 2    | 7    | 5    | 6    | 6    | 5    | 6    | 11   | 9     | 5     | 10    | 12     | 3     | 4     | 12    | 25    | 11    | 31    | 49    | 229             |
| GENOA              | 9    | 3    | 10   | 21   | 30   | 27   | 66   | 52   | 39   | 40   | 51   | 54    | 114   | 187   | 271    | 243   | 363   | 342   | 622   | 507   | 651   | 667   | 4,369           |
| HARLEM             | 13   | 8    | 8    | 19   | 19   | 16   | 32   | 33   | 30   | 19   | 18   | 17    | 32    | 37    | 27     | 25    | 30    | 30    | 23    | 27    | 16    | 18    | 497             |
| KINGSTON           | 6    | 3    | 2    | 7    | 9    | 11   | 6    | 14   | 15   | 7    | 14   | 12    | 22    | 32    | 20     | 19    | 18    | 19    | 24    | 37    | 30    | 37    | 364             |
| LIBERTY            | 20   | 18   | 9    | 19   | 35   | 37   | 60   | 59   | 93   | 57   | 73   | 91    | 164   | 153   | 202    | 164   | 202   | 231   | 262   | 322   | 276   | 198   | 2,745           |
| MARLBORO           | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 1    | 0    | 0    | 0     | 1     | 0     | 0      | 1     | 1     | 0     | 1     | 1     | 1     | 10    | 18              |
| ORANGE             | 11   | 5    | 5    | 56   | 57   | 43   | 110  | 150  | 139  | 80   | 84   | 103   | 135   | 170   | 180    | 188   | 268   | 352   | 378   | 637   | 410   | 536   | 4,097           |
| OXFORD             | 0    | 1    | 2    | 3    | 4    | 1    | 2    | 4    | 3    | 4    | 8    | 8     | 6     | 7     | 7      | 3     | 6     | 6     | 4     | 9     | 10    | 11    | 109             |
| PORTER             | 10   | 5    | 7    | 6    | 4    | 6    | 14   | 11   | 17   | 17   | 10   | 21    | 20    | 12    | 25     | 12    | 13    | 16    | 17    | 11    | 12    | 9     | 275             |
| RADNOR             | 7    | 3    | 6    | 4    | 3    | 2    | 1    | 5    | 7    | 8    | 9    | 7     | 11    | 15    | 12     | 13    | 11    | 9     | 13    | 11    | 12    | 5     | 174             |
| SCIOTO             | 16   | 8    | 8    | 12   | 14   | 21   | 17   | 30   | 21   | 11   | 22   | 15    | 17    | 28    | 26     | 33    | 26    | 20    | 27    | 37    | 21    | 9     | 439             |
| THOMPSON           | 1    | 0    | 1    | 2    | 1    | ú    | 6    | 4    | 2    | 7    | 1    | 3     | 3     | 0     | 2      | 0     | 3     | 4     | 4     | 4     | 2     | 11    | 62              |
| TRENTON            | 6    | 7    | 3    | 7    | 9    | 4    | 8    | 17   | 15   | 16   | 11   | 12    | 12    | 17    | 9      | 11    | 25    | 17    | 13    | 12    | 10    | 11    | 252             |
| TROY               | 0    | 6    | 1    | 21   | 4    | 6    | 5    | 18   | 13   | 7    | 15   | 5     | 9     | 13    | 18     | 9     | 15    | 13    | 12    | 6     | 7     | 14    | 217             |
| TOTAL UNINCORP.    | 135  | 104  | 76   | 214  | 232  | 241  | 430  | 519  | 524  | 362  | 408  | 426   | 646   | 792   | 919    | 856   | 1,120 | 1,193 | 1,646 | 1,894 | 1,885 | 2,143 | 16,765          |
| INCORPORATED AREAS |      |      |      |      |      |      |      |      |      |      |      |       |       |       |        |       |       |       |       |       |       |       |                 |
| DELAWARE           | 132  | 104  | 6    | 54   | 46   | 103  | 86   | 160  | 150  | 322  | 89   | 76    | 87    | 111   | 245    | 305   | 465   | 248   | 355   | 790   | 318   | 368   | 4,620           |
| GALENA             | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 1    | 0    | 1    | 0    | 0     | 0     | 0     | 0      | 0     | 2     | 0     | 2     | 2     | 1     | 0     | 10              |
| SUNBURY            | 2    | 0    | 0    | 1    | 8    | 13   | 5    | 4    | 8    | 4    | 3    | 3     | 11    | 10    | 14     | 17    | 40    | 30    | 33    | 19    | 47    | 75    | 347             |
| SHAWNEE HILLS      |      |      |      |      |      |      |      |      |      |      |      |       |       |       | 3      | 7     | 1     | 2     | 1     | 0     | 4     | 5     | 23              |
| POWELL             | 9    | 9    | 7    | 7    | 24   | 56   | 105  | 202  | 137  | 129  | 92   | 73    | 89    | 169   | 166    | 103   | 130   | 163   | 217   | 141   | 103   | 105   | 2,236           |
| ASHLEY             |      |      |      |      |      |      |      |      |      |      | 1    | 1     |       | 0     | 2      | 3     | 0     | 2     | 0     | 0     | 1     | 0     | 10              |
| OSTRANDER          | 2    | 0    | 0    | 0    | 2    | 2    | 6    | 2    | 2    | 0    | 1    | 0     | 0     | 1     | 0      | 9     | 7     | 1     | 0     | 1     | 0     | 0     | 36              |
| DUBLIN             |      |      |      |      |      |      |      |      |      |      |      |       |       |       |        |       |       |       |       | 4     | 9     | 1     | 14              |
| WESTERVILLE        |      |      |      |      |      |      |      |      |      |      |      |       |       |       |        |       |       |       |       |       | 140   | 122   | 262             |
| COLUMBUS           |      |      |      |      |      |      |      |      |      |      |      |       |       |       |        | 83    | 121   | 546   | 184   | 774   | 146   | 97    | 1,951           |
| TOTAL INC.         | 145  | 113  | 13   | 62   | 80   | 174  | 203  | 369  | 297  | 456  | 186  | 153   | 187   | 291   | 430    | 527   | 766   | 992   | 792   | 1,731 | 769   | 773   | 9,509           |
| T. INC&UNINC.      | 280  | 217  | 89   | 276  | 312  | 415  | 633  | 888  | 821  | 818  | 594  | 579   | 833   | 1,083 | 1,349  | 1,383 | 1,886 | 2,185 | 2,438 | 3.625 | 2.654 | 2,916 | 26,274          |

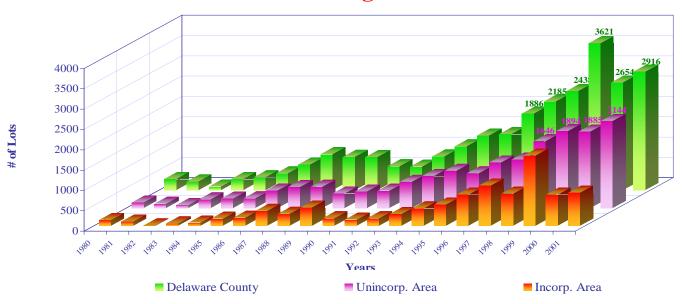
NOTE: 1) IN THE CITY OF DELAWARE AND COLUMBUS, THOSE FIGURES ARE INCLUDING MULTI-FAMILY RESIDENTIAL BUILDING PERMITS.

SOURCE: DELAWARE COUNTY REGIONAL PLANNING COMMISSION.

FROM 1997, THOSE FIGURES ARE INCLUDING MULTI-FAMILY RESIDENTIAL BUILDING PERMITS IN TOWNSHIPS
 PLEASE CHECK DCRPC WEBSITE (WWW.DCRPC.ORG) FOR 2002 INFORMATION.

# **Building Permit Trends in Delaware County**

# 1980 Through 2001



# **Delaware County Residential Building Permits 2002** (UNINCOR. AREAS)

(Up-dated 1/02/03)

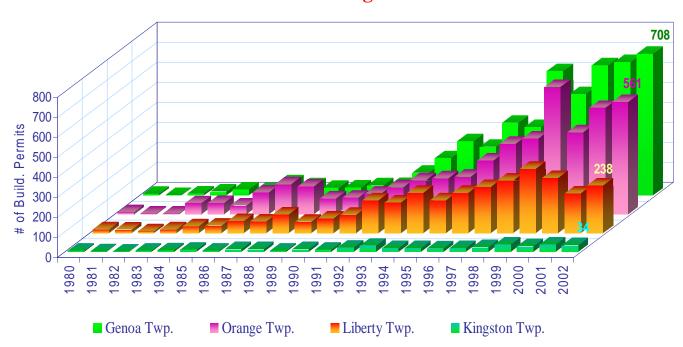
|               | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | SUB-TOTAL | VOID BP* | TOTAL |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|----------|-------|
|               |     |     |     |     |     |     |     |     |     |     |     |     |           |          |       |
| Berkshire     | 1   | 1   | 2   | 1   | 3   | 0   | 1   | 2   | 1   | 0   | 2   | 0   | 14        |          | 14    |
| Berlin        | 9   | 9   | 16  | 19  | 20  | 8   | 15  | 6   | 24  | 20  | 5   | 6   | 157       |          | 157   |
| Brown         | 1   | 4   | 1   | 2   | 3   | 0   | 0   | 2   | 0   | 1   | 0   | 0   | 14        |          | 14    |
| Concord       | 31  | 19  | 29  | 34  | 21  | 26  | 28  | 16  | 21  | 39  | 13  | 17  | 294       |          | 294   |
| Delaware      | 5   | 2   | 7   | 1   | 3   | 9   | 9   | 1   | 5   | 0   | 4   | 0   | 46        |          | 46    |
| Genoa         | 35  | 47  | 70  | 64  | 53  | 64  | 77  | 55  | 51  | 84  | 53  | 55  | 708       |          | 708   |
| Harlem        | 2   | 2   | 3   | 2   | 0   | 4   | 1   | 5   | 0   | 2   | 1   | 4   | 26        |          | 26    |
| Kingston      | 0   | 1   | 0   | 6   | 2   | 2   | 3   | 2   | 0   | 9   | 6   | 3   | 34        |          | 34    |
| Liberty       | 6   | 20  | 23  | 34  | 24  | 16  | 13  | 21  | 14  | 33  | 17  | 17  | 238       |          | 238   |
| Marlboro      | 0   | 1   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 2   | 0   | 4         |          | 4     |
| Orange        | 47  | 50  | 43  | 48  | 51  | 80  | 50  | 20  | 53  | 54  | 40  | 25  | 561       |          | 561   |
| Oxford        | 0   | 3   | 1   | 2   | 0   | 1   | 1   | 0   | 1   | 1   |     | 1   | 11        |          | 11    |
| Porter        | 0   | 2   | 1   | 0   | 2   | 0   | 1   | 1   | 3   | 0   | 0   | 1   | 11        |          | 11    |
| Radnor        | 0   | 1   | 2   | 2   | 1   | 0   | 0   | 0   | 4   | 3   | 1   | 1   | 15        |          | 15    |
| Scioto        | 0   | 1   | 2   | 1   | 4   | 0   | 2   | 1   | 3   | 1   | 1   | 2   | 18        |          | 18    |
| Thompson      | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 2   | 1   | 2   | 1   | 0   | 8         |          | 8     |
| Trenton       | 2   | 0   | 2   | 2   | 2   | 1   | 2   | 1   | 1   | 0   | 0   | 0   | 13        |          | 13    |
| Troy          | 1   | 5   | 0   | 6   | 2   | 1   | 1   | 3   | 3   | 1   | 1   | 0   | 24        |          | 24    |
| Total         | 140 | 168 | 202 | 224 | 192 | 214 | 204 | 138 | 185 | 250 | 147 | 132 | 2196      | -7       | 2189  |
| Total in 2001 | 130 | 126 | 120 | 164 | 236 | 238 | 200 | 186 | 219 | 179 | 193 | 171 | 2162      | -19      | 2143  |
| Total in 2000 | 97  | 124 | 178 | 121 | 271 | 201 | 124 | 174 | 178 | 165 | 114 | 138 | 1885      |          | 1885  |
| Total in 1999 | 85  | 114 | 213 | 181 | 178 | 270 | 205 | 149 | 146 | 102 | 100 | 151 | 1894      |          | 1894  |
| Total in 1998 | 71  | 98  | 132 | 185 | 126 | 153 | 169 | 188 | 121 | 161 | 106 | 136 | 1646      |          | 1646  |

\* Indicates that a Building Permit was issued for a parcel, cancelled and later re-issued as a new permit for the same parcel.\*

| Multi-Family |   |     |
|--------------|---|-----|
| Concord      | includes 2 permits in Feb, 6 in Mar, 4 in Apr 4 in jun, 6 in july 3 in sept, 5 in oct                         |     |
| Genoa        | includes 2 permits in Feb, 4 in Mar, 4 in Apr, 2 in May 12 in jun, 14 in july, 18 in aug, 8 in sept 17 in oct |     |
| Genoa        | 9 in nov, 18 in dec.  |     |
| Orange       | includes 15 permits in May,48 in jun,4, 2 in dec  |     |
| Delaware     | includes 4 in nov   | Pag |

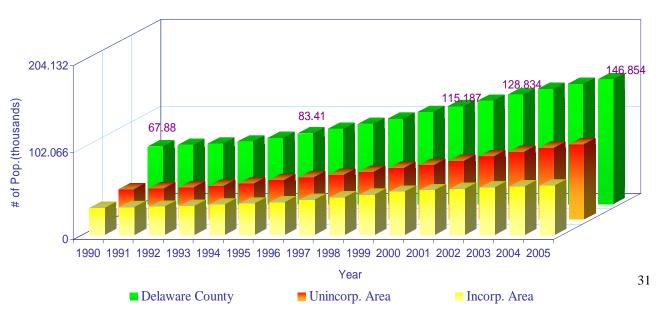
# **Township Building Permit Trends in Delaware County**

# 1980 Through 2002



# **Population Projection to 2005**

# (Housing Unit Method)



#### 4.4 Population and Building Permit Growth, Kingston Township Summary

According to the U.S. Bureau of Census, Delaware County is the fastest growing county in Ohio by percentage of growth (64.3 % increase from 1990-2000) and the 40<sup>th</sup> fastest growing county in the USA. From 2000-2001 the county was the 15<sup>th</sup> fastest growing in the country. The highest growth areas were in Orange Township (228.95 %), Genoa Township (178.63 %) and Liberty Township (142.27 %). Those three townships have county sewer service, which permits higher densities and spawns growth by production builders in large subdivisions. Meanwhile, Kingston Township, without sanitary sewer service, grew modestly by 467, from a population of 1,136 in 1990 to 1,603 in 2000, an increase of 41.11%.

### Chapter 5

### **Development and Change 1980-2000**

#### **5.1 Development Indicators**

One indicator of future growth is platting activity for new subdivisions, since this precedes building permits.

**Table 5.1 New Delaware County Subdivisions** 

# **Subdivision Proposals**

# **Total # of Approved Lots By RPC**



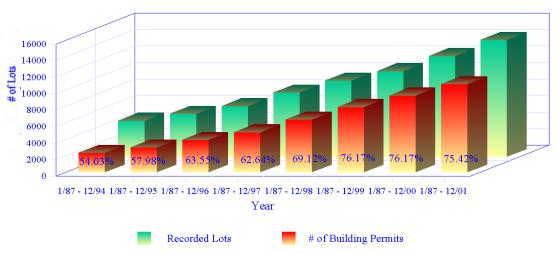
# of Lots Including Preliminary or Final Approved Proposals

From January 1993 to December 2000, 70 new subdivision lots were platted in Kingston Township. This figure does not include road frontage lot splits and five-acre mini-farms. From January 1998 to the end of 2001, 86 new lots ranging from 1 to 5 acres were created through the no-plat approval (lot split) process. In 2000, 50 such lots were recorded. During the same 4-year period, 472 lot splits were approved for all of Delaware County. It should also be noted that of all the subdivisions platted in the township, the majority would be considered lot splits by today's standards. It is clear that residential growth in Kingston Township is not occurring by traditional subdivisions with streets, but by road frontage lot splits.

Table 5.2 Subdivisions in Delaware County 1/1/93- 12/31/2000

# Subdivision Proposals of Unincorporated Jurisdictions in Delaware County

# **Building Permits Issued to Recorded Lots by Year** (Lot Absorption Rate)



NOTE: Lot Absorption Rate = Building Permits / Recorded Lots

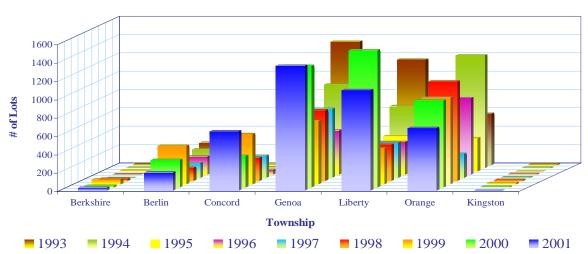
| SUMMARY STATISTICS OF 2001 SUBDIVISION PROPOSALS |          |            |           |              |             |  |  |  |  |
|--|----------|------------|-----------|--------------|-------------|--|--|--|--|
| ACTIVE SUBDIVISION PROPOSALS APPROVED BY RPC     |          |            |           |              |             |  |  |  |  |
| TOWNSHIP   | TOTAL 5  |            | SINGLE-F. | MULTI-F.     | **NON-RESI. |  |  |  |  |
|  | ACREAGE  | *# OF LOTS | # OF LOTS | # OF H-UNITS | # OF LOTS   |  |  |  |  |
| BERKSHIRE  | 172.05   | 33         | 32        | 0            | 1           |  |  |  |  |
| BERLIN   | 232.08   | 198        | 198       | 0            | 0           |  |  |  |  |
| BROWN  | 0.00     | 0          | 0         | 0            | 0           |  |  |  |  |
| CONCORD  | 330.49   | 649        | 649       | 0            | 0           |  |  |  |  |
|  |          |            |           |              |             |  |  |  |  |
| DELAWARE   | 121.97   | 72         | 72        | 0            | 0           |  |  |  |  |
| GENOA  | 904.29   | 1,362      | 1,362     | 66           | 0           |  |  |  |  |
| HARLEM   | 32.17    | 15         | 15        | 0            | 0           |  |  |  |  |
| KINGSTON   | 0.00     | 0          | 0         | 0            | 0           |  |  |  |  |
| LIBERTY  | 1,103.14 | 1,093      | 1,061     | 144          | 31          |  |  |  |  |
| MARLBORO   | 0.00     | 1,055      | 1,551     | 0            | 0           |  |  |  |  |
| ORANGE   | 426.25   | 684        | 683       | 0            | 1           |  |  |  |  |
| OXFORD   | 36.57    | 9          | 9         | 0            | 0           |  |  |  |  |
| PORTER   | 0.00     | 0          | 0         | 0            | 0           |  |  |  |  |
| RADNOR   | 0.00     | 0          | 0         | 0            | 0           |  |  |  |  |
| SCIOTO   | 39.28    | 17         |           | 0            | 0           |  |  |  |  |
| SCIOIO   | 39.28    | 17         | 17        | 0            | 0           |  |  |  |  |
| THOMPSON   | 0.00     | 0          | 0         | 0            | 0           |  |  |  |  |
| TRENTON  | 71.75    | 11         | 11        | 0            | 0           |  |  |  |  |
| TROY   | 105.08   | 34         | 34        | 0            | 0           |  |  |  |  |
| TOTAL  | 3,575.12 | 4,177      | 4,143     | 210          | 33          |  |  |  |  |

NOTE\*: NUMBER OF LOTS INCLUDING TOTAL SUBDIVIDED LOTS IN 2001 NOTE\*\*: NUMBER OF SUBDIVIDED LOTS FOR COMMERCIAL OR INDUSTRIAL USE Subdivision lots follow a process of sketch plan, preliminary plan, final plat approval and then recording. Developers often pause in the platting process in anticipation of favorable housing market conditions. The DCRPC tracks the progress of subdivisions.

**Table 5.3 Status of Subdivision Lots** 

# **Subdivision Proposals of Unincorporated Jurisdictions in Delaware County**



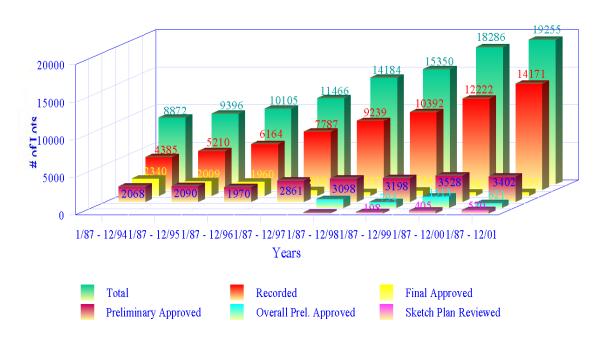


| <u>SUMMARY</u> | STATISTIC | CS OF SUB | DIVISION | DATA | <u>BASE F</u> | ROM I  | l/1/87 T | O 12/31/0 | 1            |
|----------------|-----------|-----------|----------|------|---------------|--------|----------|-----------|--------------|
|                |           |           |          |      | TOTAL         | # OF I | OTC A    | DDDAVE    | $\mathbf{r}$ |

|           | TOTAL # OF LOTS APPROVED BY RPC |       |       |       |       |       |       |       |       |
|-----------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| TOWNSHIP  | 1993                            | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  |
| BERKSHIRE | 9                               | 6     | 10    | 3     | 0     | 24    | 55    | 19    | 33    |
| BERLIN    | 244                             | 206   | 107   | 198   | 162   | 145   | 420   | 302   | 198   |
| BROWN     | 6                               | 0     | 0     | 8     | 0     | 2     | 4     | 10    | 0     |
| CONCORD   | 15                              | 11    | 19    | 52    | 241   | 254   | 548   | 346   | 649   |
| DELAWARE  | 24                              | 4     | 19    | 5     | 209   | 83    | 59    | 39    | 72    |
| GENOA     | 1,346                           | 912   | 425   | 483   | 753   | 771   | 690   | 1,326 | 1,362 |
| HARLEM    | 11                              | 11    | 26    | 9     | 4     | 3     | 31    | 0     | 15    |
| KINGSTON  | 10                              | 7     | 0     | 8     | 8     | 12    | 16    | 9     | 0     |
| LIBERTY   | 1,149                           | 679   | 386   | 358   | 386   | 398   | 391   | 1,497 | 1,097 |
| MARLBORO  | 0                               | 0     | 0     | 0     | 0     | 0     | 0     | 5     | 0     |
| ORANGE    | 562                             | 1,232 | 364   | 834   | 263   | 1,085 | 943   | 949   | 684   |
| OXFORD    | 0                               | 0     | 0     | 0     | 0     | 0     | 0     | 9     | 9     |
| PORTER    | 4                               | 2     | 2     | 2     | 3     | 0     | 2     | 0     | C     |
| RADNOR    | 8                               | 0     | 0     | 0     | 0     | 0     | 5     | 3     | C     |
| SCIOTO    | 2                               | 11    | 7     | 11    | 4     | 0     | 28    | 38    | 17    |
| THOMPSON  | 0                               | 0     | 0     | 3     | 0     | 0     | 21    | 0     | C     |
| TRENTON   | 7                               | 9     | 23    | 0     | 0     | 0     | 19    | 5     | 11    |
| TROY      | 8                               | 3     | 0     | 11    | 0     | 4     | 4     | 13    | 34    |
| TOTAL     | 3,405                           | 3,093 | 1,388 | 1,985 | 2,033 | 2,781 | 3,236 | 4,570 | 4,181 |

# Subdivision Proposals of Unincorporated Jurisdictions in Delaware County

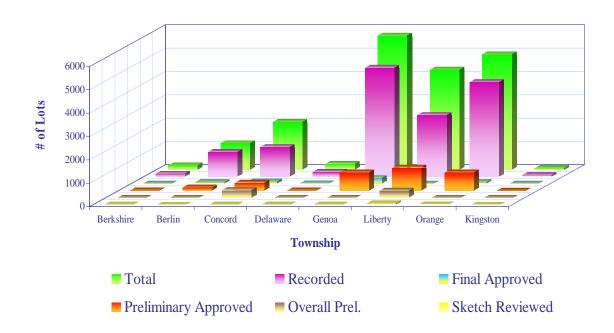
# # of Approved Lots by Status



| SUMMARY STATISTICS OF ACTIVE SUBDIVISION DATA BASE FROM 1/1/87 TO 12/31/01 |              |              |             |              |              |              |              |              |  |
|--|--------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|--|
| TOTAL NUMBER OF  |              |              |             |              |              |              |              |              |  |
|  | 1/87 - 12/94 | 1/87 - 12/95 | 1/87 - 1296 | 1/87 - 12/97 | 1/87 - 12/98 | 1/87 - 12/99 | 1/87 - 12/00 | 1/87 - 12/01 |  |
| TOTAL LOTS   | 8,872        | 9,396        | 10,105      | 11,466       | 14,184       | 15,350       | 18,286       | 19,255       |  |
| RECORDED LOTS  | 4,385        | 5,210        | 6,164       | 7,787        | 9,239        | 10,392       | 12,222       | 14,171       |  |
| FINAL APP'D  | 2,340        | 2,009        | 1,960       | 818          | 537          | 744          | 507          | 535          |  |
| RPREL. APP'D   | 2,068        | 2,090        | 1,970       | 2,861        | 3,098        | 3,198        | 3,528        | 3,402        |  |
| OVERALL PREL.  |              |              |             |              | 1,164        | 794          | 1,513        | 621          |  |
| SKETCH REVIEW  |              |              |             |              | 146          | 198          | 405          | 520          |  |
| TABLED   |              |              |             |              |              | 24           | 111          | 6            |  |
|  |              |              |             |              |              |              |              |              |  |
| BLDG PERMITS   | 2,369        | 3,021        | 3,917       | 4,878        | 6,386        | 7,916        | 9,309        | 10,688       |  |
| BR-RATIO   | 54.03%       | 57.98%       | 63.55%      | 62.64%       | 69.12%       | 76.17%       | 76.17%       | 75.42%       |  |
| NOTE: BR-RATIO = I   |              |              |             |              |              |              |              |              |  |
| NOTE: THESE FIGUR  | ES NOT INCL  | UDING THE E  |             |              |              |              |              |              |  |

# **Subdivision Proposals of Unincorporated Jurisdictions in Delaware County**

# # of Approved S-F Lots By Status (1/87 - 12/01)



SUMMARY STATISTICS OF SUBDIVISION DATA BASE FROM 1/1/87 TO 12/31/01

|           |           |        |          | NUMBE | R OF S-F. | LOTS    |        |        |          |         | EXPIRED |
|-----------|-----------|--------|----------|-------|-----------|---------|--------|--------|----------|---------|---------|
| TOWNSHIP  | ACREAGE   | TOTAL* | RECORDED | FINAL | PREL      | OVERALL | TABLED | SKETCH | M_H_UNIT | BLDGPER |         |
|           |           |        |          | APP'D | APP'D     | PREL    |        | REVIEW |          |         | LOTS    |
| BERKSHIRE | 545.47    | 193    | 140      | 3     | 19        | 0       | 0      | 8      | 0        | 115     | 26      |
| BERLIN    | 1,165.19  | 1,143  | 1,068    | 75    | 143       | 0       | 0      | 0      | 0        | 662     | 30      |
| BROWN     | 196.63    | 77     | 26       | 0     | 0         | 0       | 0      | 0      | 0        | 22      | 51      |
| CONCORD   | 1,830.18  | 2,053  | 1,276    | 99    | 343       | 325     | 2      | 4      | 95       | 809     | 91      |
| DELAWARE  | 278.51    | 254    | 210      | 22    | 16        | 0       | 0      | 6      | 48       | 123     | 30      |
| GENOA     | 3,875.90  | 5,751  | 4,673    | 244   | 781       | 0       | 0      | 6      | 126      | 3,473   | 95      |
| HARLEM    | 367.23    | 134    | 95       | 0     | 15        | 0       | 0      | 0      | 0        | 66      | 24      |
| KINGSTON  | 268.76    | 83     | 76       | 0     | 0         | 0       | 0      | 0      | 0        | 52      | 7       |
| LIBERTY   | 4,550.99  | 4,293  | 2,647    | 7     | 991       | 296     | 4      | 65     | 1,223    | 2,134   | 528     |
| MARLBORO  | 32.16     | 7      | 2        | 0     | 5         | 0       | 0      | 0      | 0        | 1       | 0       |
| ORANGE    | 2,871.96  | 4,953  | 4,055    | 77    | 784       | 0       | 9      | 16     | 1,335    | 3,088   | 68      |
| OXFORD    | 36.57     | 9      | 9        | 0     | 0         | 0       | 0      | 0      | 0        | 0       | 0       |
| PORTER    | 250.19    | 19     | 19       | 0     | 0         | 0       | 0      | 0      | 0        | 14      | . 0     |
| RADNOR    | 153.82    | 32     | 24       | 0     | 0         | 0       | 0      | 0      | 0        | 17      | 10      |
| SCIOTO    | 238.83    | 72     | 44       | 0     | 17        | 0       | 0      | 0      | 0        | 28      | 13      |
| THOMPSON  | 51.99     | 24     | 24       | 0     | 0         | 0       | 0      | 0      | 0        | 5       | 0       |
| TRENTON   | 319.26    | 62     | 53       | 0     | 0         | 0       | 0      | 7      | 0        | 32      | 4       |
| TROY      | 249.07    | 96     | 55       | 0     | 0         | 0       | 0      | 31     | 0        | 47      | 0       |
| TOTAL     | 17,282.71 | 19,255 | 14,496   | 527   | 3,114     | 621     | 15     | 143    | 2,827    | 10,688  | 977     |

NOTE 1: BR (RATIO) = # OF BUILDING PERMITS / # OF RECORDED LOTS = 75.62%

NOTE 2: TOTAL\* DOES NOT INCLUDE THE EXPIRED SUBDIVISION PROPOSALS

NOTE 3: M\_H\_UNIT INCLUDES THE EXPIRED SUBDIVISION PROPOSALS

# Kingston Township Subdivisions

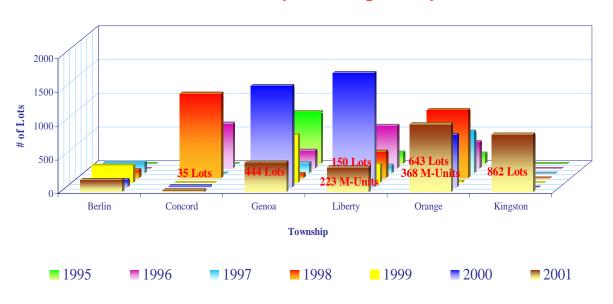
|                               |           | T T      | # of Building |        |               | T .             |  |
|-------------------------------|-----------|----------|---------------|--------|---------------|-----------------|--|
| Subdivision Name              | # of Lots | Acreage  | Permits       | CAD    | Recorded Date | School District |  |
| SIGLAR                        | # 01 Lots | 16.19000 | 10            |        |               | BIG WALNUT      |  |
| COUNTRY HOLLOW SEC. 1         | 4         | 4.41000  | 4             | N<br>N |               | BUCKEYE VALLEY  |  |
| AUGUST ACRES                  |           | 5.00000  | 4             |        |               | BUCKEYE VALLEY  |  |
| COUNTRY HOLLOW SEC. 2         | 4 9       | 15.60000 | 8             | N<br>N |               | BUCKEYE VALLEY  |  |
| PODERYS                       | 10        |          | _             | N<br>N |               | BIG WALNUT      |  |
|                               |           | 15.80000 | 7             |        |               |                 |  |
| WILDWOOD LANE ACRES           | 3         | 7.40000  | 2             | N      |               | BIG WALNUT      |  |
| SCHIRTZINGER SUBD #3          | 2         | 5.91000  | 0             | N      |               | BUCKEYE VALLEY  |  |
| MAIN ESTATES                  | 2         | 7.09000  | 1             | N      |               | BIG WALNUT      |  |
| MACHU PICCHU #1               | 4         | 8.00000  | 3             | Y      |               | BUCKEYE VALLEY  |  |
| MACHU PICCHU #2               | 4         | 6.00000  | 5             | N      |               | BUCKEYE VALLEY  |  |
| INDIGO RUN                    | 3         | 38.66000 | 0             | Y      |               | BUCKEYE VALLEY  |  |
| RYAN GLEN                     | 5         | 34.69000 | 3             | Y      |               | BUCKEYE VALLEY  |  |
| R.J. KOPP SUBDIVISION         | 4         | 35.85000 | 3             | Y      |               | BUCKEYE VALLEY  |  |
| LA FORZA DEL DESTINO          | 3         | 6.72000  | 3             | Y      |               | BIG WALNUT      |  |
| GROVE SUBDIVISION             | 2         | 25.15000 | 0             | Y      |               | BIG WALNUT      |  |
| II TROVATORE                  | 5         | 8.25000  | 0             | Y      |               | BUCKEYE VALLEY  |  |
| TWINBROOK                     | 4         | 5.88000  | 3             | N      |               | BUCKEYE VALLEY  |  |
| TWIN BROOK #2                 | 3         | 6.84000  | 2             | N      |               | BUCKEYE VALLEY  |  |
| SCHIRTZINGER                  | 4         | 8.00000  | 2             | N      | 3/20/78       | BUCKEYE VALLEY  |  |
| YONTZ                         | 4         | 13.47000 | 4             | N      | 11/21/78      | BUCKEYE VALLEY  |  |
| PAULEY                        | 4         | 4.76000  | 4             | N      | 7/26/79       | BUCKEYE VALLEY  |  |
| ODEL ACRES                    | 1         | 1.20000  | 1             | N      | 12/21/83      | BUCKEYE VALLEY  |  |
| SCHIRTZINGER                  | 1         | 5.00000  | 1             | N      | 12/27/71      | BUCKEYE VALLEY  |  |
| VAN SICKLE                    | 4         | 8.80000  | 4             | N      | 3/1/79        | BUCKEYE VALLEY  |  |
| FOLKESTONE                    | 4         | 0.00000  | 4             | N/A    | 3/26/79       | BUCKEYE VALLEY  |  |
| COUNTRY EXTATES               | 3         | 4.03000  | 3             | N      | 11/22/71      | BUCKEYE VALLEY  |  |
| HILL ACRES                    | 4         | 0.00000  | 4             | N/A    | 10/7/58       | BIG WALNUT      |  |
| BARTOK                        | 4         | 8.18000  | 4             | N      | 7/18/78       | BIG WALNUT      |  |
| BARTOK #2                     | 4         | 12.63000 | 4             | N      | 2/22/79       | BIG WALNUT      |  |
| BOYD ACRES                    | 3         | 0.00000  | 3             | N/A    | 12/7/64       | BIG WALNUT      |  |
| BRADFORD                      | 3         | 4.78000  | 2             | N      | 8/27/79       | BIG WALNUT      |  |
| KNOLLS                        | 4         | 4.45000  | 4             | N      | 12/28/77      | BIG WALNUT      |  |
| DECKER                        | 4         | 4.73000  | 3             | N      | 1/21/82       | BIG WALNUT      |  |
| WILDWOOD ESTATES #1           | 4         | 7.83000  | 4             | N      | 12/18/80      | BIG WALNUT      |  |
| STATE ROUTE 61                | 4         | 4.03000  | 4             | N      | 3/19/75       | BIG WALNUT      |  |
| MONKEY HOLLOW                 | 3         | 4.33000  | 2             | N      | 1/28/76       | BIG WALNUT      |  |
| MONKEY HOLLOW #2              | 3         | 3.00000  | 3             | N      |               | BIG WALNUT      |  |
| KINGSTON RIDGE                | 2         | 4.67000  | 2             | N      |               | BIG WALNUT      |  |
| ROSECRANS                     | 4         | 5.85000  | 4             | N      |               | BIG WALNUT      |  |
| ROSECRANS #2                  | 4         | 4.99000  | 4             | N      |               | BIG WALNUT      |  |
| FAIRCHILD                     | 1         | 0.00000  | 1             | N/A    | 4/10/61       | BIG WALNUT      |  |
| RESUB OF LOT # 130, MAIN EST. | 2         | 3.04000  | 0             |        |               | BIG WALNUT      |  |

# Delaware County Lot Splits from 01/1998 to 12/2001

| TOWNSHIP  | TOTAL LOTS | TOTAL ACREAGE | VACANT LOTS | VACANT ACREAGE |
|-----------|------------|---------------|-------------|----------------|
| BERKSHIRE | 31         | 65.48         | 24          | 44.47          |
| BERLIN    | 30         | 67.58         | 27          | 59.09          |
| BROWN     | 18         | 44.59         | 15          | 36.34          |
| CONCORD   | 45         | 96.65         | 31          | 63.43          |
| DELAWARE  | 13         | 22.99         | 8           | 13.69          |
| GENOA     | 49         | 103.39        | 36          | 77.47          |
| HARLEM    | 29         | 50.18         | 18          | 28.46          |
| KINGSTON  | 102        | 197.35        | 86          | 166.51         |
| LIBERTY   | 58         | 112.20        | 33          | 81.59          |
| MARLBORO  | 17         | 48.12         | 16          | 35.20          |
| ORANGE    | 25         | 47.95         | 15          | 37.59          |
| OXFORD    | 53         | 122.32        | 48          | 102.03         |
| PORTER    | 4          | 12.24         | 3           | 9.38           |
| RADNOR    | 11         | 29.58         | 9           | 23.57          |
| SCIOTO    | 56         | 111.17        | 45          | 85.49          |
| THOMPSON  | 11         | 18.73         | 6           | 9.27           |
| TRENTON   | 18         | 41.26         | 11          | 24.71          |
| TROY      | 45         | 102.70        | 41          | 92.21          |
| TOTAL     | 615        | 1294.48       | 472         | 990.48         |

# **Rezoning Proposals of Unincorporated Jurisdictions in Delaware County**

# Total # of Lots by Township and By Year



Note: # of Lots Including Single-F. Lots and Multi-F. Housing Units.

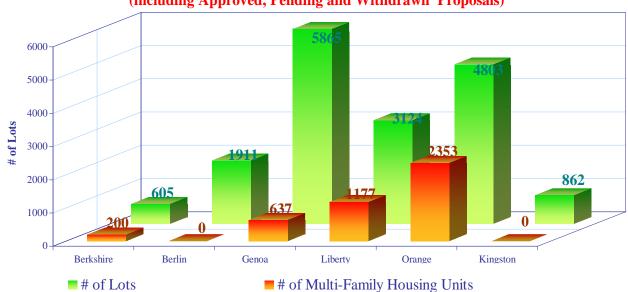
### SUMMARY STATISTICS OF REZONING DATA BASE FROM 1/1/89 TO 12/31/01

| ACTIVE REZONII | VG PROPOSAL | S REVIEWED BY | RPC         |             |                 |           |  |  |
|----------------|-------------|---------------|-------------|-------------|-----------------|-----------|--|--|
| TOWNSHIP       | TOTAL       |               | RESIDENTIAL | ı           | NON-RESIDENTIAL |           |  |  |
|                | ACREAGE     | ACREAGE       | # OF LOTS   | # OF M-F HU | ACREAGE         | # SQ. FT  |  |  |
| BERKSHIRE      | 1,587.35    | 882.32        | 639         | 373         | 705.03          | 272,235   |  |  |
| BERLIN         | 1,284.64    | 1,141.70      | 2,032       | 0           | 142.94          | 464,840   |  |  |
| BROWN          | 42.91       | 0.00          | 0           | 0           | 42.91           | 4,644     |  |  |
| CONCORD        | 1,402.42    | 1,192.54      | 1,762       | 164         | 209.88          | 53,290    |  |  |
| DELAWARE       | 218.54      | 216.38        | 297         | 0           | 2.16            | 8,663     |  |  |
| GENOA          | 3,084.96    | 3,003.15      | 6,759       | 457         | 81.81           | 465,781   |  |  |
| HARLEM         | 483.07      | 314.10        | 119         | 0           | 168.94          | 900       |  |  |
| KINGSTON       | 899.79      | 886.47        | 862         | 0           | 13.32           | 0         |  |  |
| LIBERTY        | 3,272.51    | 2,498.97      | 3,200       | 1,737       | 773.54          | 2,820,394 |  |  |
| MARLBORO       | 2.10        | 3,195.69      | 0           | 0           | 2.10            |           |  |  |
| ORANGE         | 3,777.92    | 0.00          | 5,252       | 2,455       | 582.22          | 5,006,745 |  |  |
| OXFORD         | 1.02        | 0.00          | 0           | 0           | 1.02            | 1,920     |  |  |
| PORTER         | 4.50        | 4.50          | 2           | 0           | 0.00            | 0         |  |  |
| RADNOR         | 14.42       | 0.00          | 0           | 0           | 14.42           | 1,350     |  |  |
| SCIOTO         | 595.62      | 1.50          | 1           | 0           | 594.12          | 0         |  |  |
| THOMPSON       | 0.00        | 0.00          | 0           | 0           | 0.00            | 0         |  |  |
| TRENTON        | 352.36      | 343.08        | 111         | 0           | 9.27            | 23,600    |  |  |
| TROY           | 40.09       | 0.00          | 0           | 0           | 40.09           | 19,250    |  |  |
| TOTAL          | 17,064,22   | 13,680,40     | 21.036      | 5.186       | 3,383.77        |           |  |  |

# **Rezoning Proposals of Unincorporated Jurisdictions in Delaware County**

# **Total # of Lots by Type(1/89 - 12/01)**

(including Approved, Pending and Withdrawn Proposals)

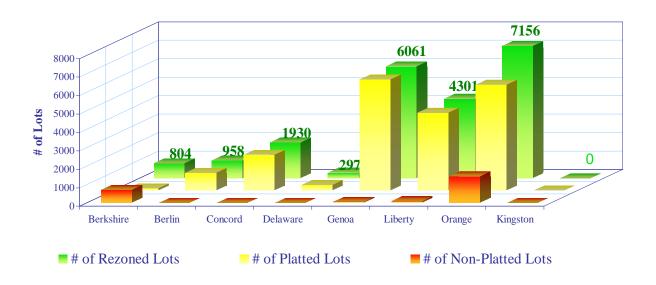


#### SUMMARY STATISTICS OF REZONING DATA BASE FROM 1/1/89 TO 12/31/01

| ACTIVE REZON   | ING PROPO | OSALS REVIEV | VED BY RPC | 1          |            |           |        |           |
|----------------|-----------|--------------|------------|------------|------------|-----------|--------|-----------|
| TOWNSHIP       | TO        | OTAL         | APPR       | OVED       | PEN        | NDING     | *T.    | OR W.     |
|                | # LOTS    | # M-F. HU    | # LOTS     | # M-F. HU  | # LOTS     | # M-F. HU | # LOTS | # M-F. HU |
| BERKSHIRE      | 605       | 200          | 604        | 200        | 1          | 0         | 0      | 0         |
| BERLIN         | 1911      | 0            | 958        | 0          | 0          | 0         | 953    | 0         |
| BROWN          | 0         | 0            | 0          | 0          | 0          | 0         | 0      | 0         |
| CONCORD        | 1763      | 167          | 1763       | 167        | 0          | 0         | 0      | 0         |
| DELAWARE       | 297       | 0            | 297        | 0          | 0          | 0         | 0      | 0         |
| GENOA          | 5865      | 637          | 5424       | 637        | 441        | 0         | 0      | 0         |
| HARLEM         | 99        | 0            | 97         | 0          | 0          | 0         | 2      | 0         |
| KINGSTON       | 862       | 0            | 0          | 0          | 862        | 0         | 0      | 0         |
| LIBERTY        | 3124      | 1177         | 3124       | 1177       | 0          | 0         | 0      | 0         |
| MARLBORO       | 0         | 0            | 0          | 0          | 0          | 0         | 0      | 0         |
| ORANGE         | 4803      | 2353         | 4803       | 2353       | 0          | 0         | 0      | 0         |
| OXFORD         | 0         | 0            | 0          | 0          | 0          | 0         | 0      | 0         |
| PORTER         | 2         | 0            | 2          | 0          | 0          | 0         | 0      | 0         |
| RADNOR         | 0         | 0            | 0          | 0          | 0          | 0         | 0      | 0         |
| SCIOTO         | 1         | 0            | 0          | 0          | 1          | 0         | 0      | 0         |
| THOMPSON       | 0         | 0            | 0          | 0          | 0          | 0         | 0      | 0         |
| TRENTON        | 75        | 0            | 75         | 0          | 0          | 0         | 0      | 0         |
| TROY           | 0         | 0            | 0          | 0          | 0          | 0         | 0      | 0         |
| TOTAL          | 19407     | 4534         | 17147      | 4534       | 1305       | 0         | 955    | 0         |
| NOTE: *T. OR V | V. MEANS  | TABLED OR    | WITHDRAW   | N REZONINO | G PROPOSAL | S         |        |           |

# **Rezoning Proposals of Unincorporated Jurisdictions in Delaware County**

# # of Rezoned Lots by Platting Status(1/89-12/01)



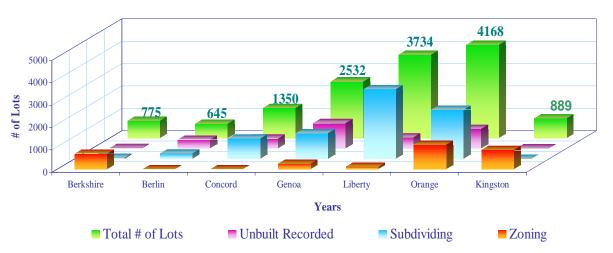
SUMMARY STATISTICS OF REZONING DATA BASE FROM 1/1/89 TO 12/31/01

| ACTIVE REZONIN | G PROPOSALS REVIEWED | BY RPC             |             |          |  |
|----------------|----------------------|--------------------|-------------|----------|--|
| TOWNSHIP       | # OI                 | S-F. LOTS & M-F. H | I-UNITS     | PLATTING |  |
|                | <b>REZONED*</b>      | PLATTED            | NON-PLATTED | RATE     |  |
| BERKSHIRE      | 804                  | 112                | 692         | 13.93%   |  |
| BERLIN         | 958                  | 958                | 0           | 100.00%  |  |
| BROWN          | 0                    | 0                  | 0           | 0.00%    |  |
| CONCORD        | 1930                 | 1929               | 1           | 99.95%   |  |
| DELAWARE       | 297                  | 297                | 0           | 100.00%  |  |
| GENOA          | 6061                 | 6013               | 48          | 99.21%   |  |
| HARLEM         | 97                   | 85                 | 12          | 87.63%   |  |
| KINGSTON       | 0                    | 0                  | 0           | 0.00%    |  |
| LIBERTY        | 4301                 | 4215               | 86          | 98.00%   |  |
| MARLBORO       | 0                    | 0                  | 0           | 0.00%    |  |
| ORANGE         | 7156                 | 5726               | 1430        | 80.02%   |  |
| OXFORD         | 0                    | 0                  | 0           | 0.00%    |  |
| PORTER         | 2                    | 2                  | 0           | 100.00%  |  |
| RADNOR         | 0                    | 0                  | 0           | 0.00%    |  |
| SCIOTO         | 0                    | 0                  | 0           | 0.00%    |  |
| THOMPSON       | 0                    | 0                  | 0           | 0.00%    |  |
| TRENTON        | 75                   | 49                 | 26          | 65.33%   |  |
| TROY           | 0                    | 0                  | 0           | 0.00%    |  |
| TOTAL          | 21681                | 19386              | 2295        | 89.41%   |  |

NOTE: # OF REZONED LOTS\* IS INCLUDING ALL REZONING PROPOSALS
WHICH ARE APPROVED OR PENDING IN TOWNSHIPS

# Rezoning & Subdivision Proposals of Unincorporated Jurisdictions in Delaware County

# Number of Available S-F Lots & M-F Units by Status



Note: 1. 'Subdividing' Lots includes Final Approved, Prel. Approved, Sketch Reviewed or Expired Lots.

2. 'Zoning Lots includes Approved or Pending Lots.

#### SUMMARY STATISTICS OF REZONING AND SUBDIVISION

ACTIVE PROPOSALS APPROVED BY RPC AND TOWNSHIPS
TOTAL NUMBER OF AVAILABLE LOTS AND HOUSING UNITS FOR NEW BUILDING PERMITS

|           |        |          | NUMBER OF A | LE SUBDIVISI | ON S-F. LO | ΓS      | ***M-F. UNIT |            | NUMBER OF ZONING LOTS |           |                    |            |           |            |
|-----------|--------|----------|-------------|--------------|------------|---------|--------------|------------|-----------------------|-----------|--------------------|------------|-----------|------------|
| TOWNSHIP  | *TOTAL | SUBTOTAL | ****UNBUILT | FINAL        | PREL.      | OVERALL | TABLED       | SKETCH     | APPROVED              | EXPIRED   | *APPROVED BY ZONIN |            | PENDIN    | G IN TWP.  |
|           |        |          | RECORDED    | APP'D        | APP'D      | PREL.   |              | REVIEW     | BY SUBDIV.            | S-F. LOTS | S-F. LOTS          | M-F. UNITS | S-F. LOTS | M-F. UNITS |
| BERKSHIRE | 775    | 56       | 26          | 3            | 19         | 0       | 0            | 8          | 8 0                   | 26        | 492                | 200        | 1         |            |
| BERLIN    | 645    | 615      | 397         | 75           | 143        | 0       | 0            | 0          | 0                     | 30        | 0                  | 0          | 0         |            |
| BROWN     | 56     | 5        | 5           | 0            | 0          | 0       | 0            | 0          | 0                     | 51        | . 0                | 0          | 0         |            |
| CONCORD   | 1350   | 1214     | 441         | 99           | 343        | 325     | 2            | . 4        | 44                    | 91        | . 1                | 0          | 0         |            |
| DELAWARE  | 208    | 130      | 86          | 22           | 16         | 0       | 0            | 6          | 5 48                  | 30        | 0                  | 0          | 0         |            |
| GENOA     | 2532   | 2167     | 1136        | 244          | 781        | 0       | 0            | $\epsilon$ | 5 21                  | 95        | 18                 | 46         | 185       |            |
| HARLEM    | 80     | 44       | 29          | 0            | 15         | 0       | 0            | (          | 0                     | 24        | 12                 | 0          | 0         |            |
| KINGSTON  | 889    | 20       | 20          | 0            | 0          | 0       | 0            | C          | 0                     | 7         | 0                  | 0          | 862       |            |
| LIBERTY   | 3734   | 1864     | 501         | 7            | 991        | 296     | 4            | 65         | 1223                  | 528       | 86                 | 0          | 0         | 3          |
| MARLBORO  | 6      | 6        | 1           | 0            | 5          | 0       | 0            | 0          | 0                     | (         | 0                  | 0          | 0         |            |
| ORANGE    | 4168   | 1766     | 880         | 77           | 784        | 0       | 9            | 16         | 1239                  | 68        | 447                | 648        | 0         |            |
| OXFORD    | 9      | 9        | 9           | 0            | 0          | 0       | 0            | C          | 0                     | C         | 0                  | 0          | 0         |            |
| PORTER    | 5      | 5        | 5           | 0            | 0          | 0       | 0            | 0          | 0                     | C         | 0                  | 0          | 0         |            |
| RADNOR    | 17     | 7        | 7           | 0            | 0          | 0       | 0            | 0          | 0                     | 10        | 0                  | 0          | 0         |            |
| SCIOTO    | 48     | 34       | 17          | 0            | 17         | 0       | 0            | 0          | 0                     | 13        | 0                  | 0          | 1         |            |
| THOMPSON  | 19     | 19       | 19          | 0            | 0          | 0       | 0            | C          | 0                     | C         | 0                  | 0          | 0         |            |
| TRENTON   | 59     | 28       | 21          | 0            | 0          | 0       | 0            | 7          | 7 0                   | 4         | 27                 | 0          | 0         |            |
| TROY      | 39     | 39       | 8           | 0            | 0          | 0       | 0            | 31         | 0                     | C         | 0                  | 0          | 0         |            |
| TOTAL     | 14639  | 8028     | 3608        | 527          | 3114       | 621     | 15           | 143        | 3 2575                | 977       | 1083               | 894        | 1049      | 3          |

NOTE\*: TOTAL NUMBER OF AVAILABLE S-F LOTS AND M-F H-UNITTS

NOTE\*\*: TOTAL LOTS APPROVED BY ZONING, BUT NOT SUBDIVIDED YET (NON-PLATTED LOTS)

NOTE\*\*\*: FIGURES ONLY COUNT THE HU HASN'T GOT BUILDING PERMIT

NOTE\*\*\*\*: UNBUILT MEANS LOTS HASN'T GOT BUILDING PERMITS

NOTE: SUBDIVISION PROPOSALS DATA FROM 1/87 TO 12/01

NOTE: REZONING PROPOSALS DATA FROM 1/89 TO 12/01

# 5.2 Summary of Development Indicators in Delaware County and Kingston Township

Kingston Township has experienced modest growth in the last 10 years. Kingston's increase pales in comparison to the townships in southern Delaware County due to a lack of sanitary sewer. Kingston Township's residential growth could potentially increase substantially as a result of Land Application System technology (centralized sanitary sewers provided on site pursuant to OEPA approval). At the time of this writing, a large residential and golf course community (NorthStar) of 866 acres has been rezoned on the former Margaret Wise farm. NorthStar will introduce suburban lot sizes of 9,000 square feet, with 651 house lots laid out around a golf course and open space that doubles as irrigation areas for land application of treated effluent from an on-site wastewater treatment plant.

There are some observed trends that merit concern for the townships in Delaware County. Significant zoning and subdivision activity has lead to a buildup of supply in subdivision lots available for development. As of December 31, 2000, there were 12,969 single family lots or multi-family housing units in the development approval process. This means that all 12,969 lots had received at least zoning approval or had begun the subdivision process. These 12,969 housing units represent an eight (8) year supply, using the average number of new housing permits in the townships for the previous 5 years (1,548/yr). A three (3) year supply is considered normal. Despite this significant increase in platting and zoning, subdivision activity has remained strong. DCRPC reviewed 4,570 new lots in 2000.

Table 5.4 Total Number of Available Lots and MF Units in Delaware County Twps. 1/1/2001

| To | otals                                      | 12,969     |
|----|--|------------|
| •  | Unbuilt, recorded lots                     | 3,136      |
| •  | Final subdivision approved (not recorded)  | 504        |
| •  | Preliminary approved subdivisions          | 3,573      |
| •  | Overall preliminary subdivision approved   | 1,513      |
| •  | Tabled                                     | 111        |
| •  | Sketch plan reviewed                       | 424        |
| •  | Expired subdivision (can be restored)      | 773        |
| •  | Multi family with subdiv. approval         | 1,141      |
| •  | Single family zoning approved, not platted | 951        |
| •  | Multi family zoning approved, not platted  | 361        |
| •  | Single family zoning pending               | 321        |
| •  | Multi family zoning pending                | 173        |
|    | All Delaware County Townships Combined     | CIII CIIII |

<sup>\*</sup> Totals are not the sum of all categories, since there can be zonings that are also an expired subdivision.

## **5.3 Effects of Growth-Community Perception**

The Building Industry Association of Columbus and Franklin County conducted a Delaware County survey in June 1998 to gauge sentiments about the effects of growth. Four hundred likely voters were canvassed for 18 minutes apiece about various growth concerns. The data was county wide.

- Development/Loss of farmland, Growth Planning, and Traffic were #2, #4, and #6 concerns.
- 40.8% said we are doing a poor job of managing growth and development.
- 55.8% said we are doing a poor job to reduce traffic congestion
- Amenities/access was cited (20.2%) as positive aspects of growth.
- 53.9% said they want growth to continue, but the pace is too fast.
- 49.4% said government should encourage planned growth.
- #1 and #2 priorities on managing growth were keeping up with school construction and protecting the environment and open spaces.

A second detailed survey was performed in Delaware County in 1998 relative to the environmental health of the county. The Protocol for Assessing Community Excellence in Environmental Health (PACE-EH) survey asked questions in person and by mail relating to the community's perception of its environmental health. Trained volunteers surveyed 500 students in five local high schools and 200 county fair attendees. In addition, the survey questions were mailed to 40,000 households.

The top five PACE environmental concerns were:

- 1. Need for more parks, green space, wildlife habitats (733 responses)
- 2. County development, zoning, annexation out of control (721)
- 3. Surface water pollution from sewage systems (686)
- 4. Surface water pollution from factories, agriculture (685)
- 5. Environmental Education (660)

It may be observed that in Southern Delaware County, there is an opinion that growth has many negative attributes:

- too much traffic,
- unplanned neighborhoods,
- lack of environmental and open space protection,
- inadequate new school construction, and too rapid pace of growth.

Kingston Township has not yet experienced the rapid pace of growth that is seen in Genoa, Orange, and Liberty Townships. Nonetheless, the township is now in the middle of its largest growth spurt in its history. More growth is imminent. The comprehensive plan needs to address how this growth can best be managed.

# **Chapter 6**

# **Issues and Opportunities**

The Comprehensive Planning process is a forum for the development issues (forces) pushing and pulling at the township. The issues are categorized as strengths, opportunities, weaknesses, or threats. The township's response to these issues is a future vision, or strategic plan of action for the township's development.

## **6.1 Citizen Participation in the Decision Making Process**

## A. Need for Citizen Participation

The Comprehensive Plan is intended to be a reasonable vision of how the township should ultimately look; including built areas and open space. Plans typically look 5-10 years into the future, with the understanding that unforeseen circumstances may change the vision.

The planning process demands broad representation of the populace to ascertain current issues, and to set goals for the future. Each community may take a slightly different approach to involving the public, but a citizen participation element is the backbone of the process; it provides legitimacy to the resulting plan.

In general, the citizen participation should be:

- Representative of the population and land ownership of the township
- More broad based than just elected and appointed officials
- Long term and open to continuing debate
- Influential in the recommendations made to appointed and elected officials

#### **B.** Open Invitation to the Process

The Kingston Township Zoning Commission took three steps to open the discussion to the community.

- 1. A story in the local newspaper outlined the planning process and invited all to attend.
- 2. Posted legal advertisements for the public meetings to discuss the plan.
- 3. Requested a core group of citizens to join a Comprehensive Plan Steering Committee, which would work on the plan and forward the final draft to the Zoning Commission for consideration. A fifteen (15) member Steering Committee was organized. This core group agreed to meet on a monthly basis until the plan was completed.

#### C. Commencement of the Planning Process

On October 10, 2001 approximately 25 residents attended the first public meeting for the comprehensive planning process at the Township Hall, at which time they discussed the following items:

- 1. Why do we need a Comprehensive Plan for future land use?
- 2. What do we like about Kingston Township?

- 3. What do we dislike about Kingston Township?
- 4. What do we want the township to look like when it is ultimately developed?
- 5. What is our Vision for the development of the township for the next 5-10 years?

# 6.2 Citizens' Likes and Dislikes Regarding Current Development of Kingston Twp.

The group of 25 was asked what they liked about Kingston Township's development and what they disliked. This simple question is asked because the responses can be reformulated into issues, which can then be categorized as Strengths, Opportunities, Weaknesses and Threats to the future development of the township (S.W.O.T.s).

| Likes   | Dislikes                             |
|---|--------------------------------------|
| Rural setting (12)  | 36/37 traffic (9)                    |
| Agricultural character (10)   | Speed limits too high (3)            |
| Low density (1 per 5 acres) This statement was also clarified with the addition that if everyone lived on a two acre lot, that would not be rural character. (10) | Light pollution from south (4)       |
| No subdivisions (10)  | Lack of local zoning control (11)    |
| Road system is adequate   | Inadequate fire protection           |
| Lack of commercial  | Length of school bus ride (long) (1) |
| Low traffic   | Lack of hardened berm (3)            |
| Topography/variety (5)  | Cell/TV towers (4)                   |
| Limited cell towers (1)   | Unsightly clutter on property (4)    |
| Reasonable taxes/growth (2)   | Lack of county law enforcement (1)   |
| Open Spaces (5)   | -                                    |
| Two-lane roads (1)  |                                      |
| Peace and quiet (9)   |                                      |
| Natural resources/wildlife (1)  |                                      |
| Lower crime rate  |                                      |
| Small town community feel (2)   |                                      |

Those in attendance at the meeting were asked to vote with stickers for the top three concerns they felt most strongly about on both the "likes" side and the "dislikes" side. The most popular issue was Rural Setting. The next set of ranked issues included Agricultural Character, Low Density, and No Subdivisions, with Peace and Quiet ranking close behind. Also receiving votes were Topography, Open Space, Reasonable Taxes, Small Town Community, Few Cell Towers and Two Lane Roads.

In the dislikes category, the most votes went to the Lack of Zoning Control and 36/37 Traffic and its effect on the township. Other concerns cited were Light Pollution from the South, Cell and TV Towers, and Unsightly Clutter on Property. Also receiving votes: Speed Limits Too High, Lack of Hardened Berm along Roadways, Length of School Bus Ride and Lack of County Law Enforcement.

# **6.3** Issues regarding the township's current development

The group also identified other general issues, and development opportunities related to the future of Kingston Township:

- 1. Land Application Sanitary Sewer Systems a threat to rural character?
- 2. New Roads- County Thoroughfare Plan (Potential I-71 interchange).
- 3. Limited local commercial uses desired.
- 4. Farmland Preservation Should we?
- 5. Keep industrial uses out.
- 6. Traffic as development occurs.
- 7. Emergency service

## **6.4 Issues and Opportunities**

During a second meeting on November 14, 2001, the steering committee and other concerned citizens ranked the issues above in order of importance. The numbers assigned to each represents each item's average rank. Respondents ranked each item on a scale of 5 to –5 with 5 being strongly agree and –5 strongly disagree. The table in Section 6.4 is a further analysis of the Likes/Dislikes in Section 6.2. Rural Character was expanded in 6.2 but not in 6.4.

| LIKES                         | AVERAGE | DISLIKES AVERAGE                       |
|-------------------------------|---------|--|
| 1. Rural setting              | 4.82    | 1. 36/37 traffic 4.45                  |
| 2. Peace and quiet            | 4.73    | 2. Lack of local zoning control 3.64   |
| 3. Natural resources/wildlife | 4.45    | 3. Unsightly clutter on property 3.64  |
| 4. Agricultural character     | 4.36    | 4. Light pollution from the south 3.36 |
| 5. Open spaces                | 4.27    | 5. Cell/TV towers 3.18                 |
| 6. Reasonable taxes/growth    | 4.18    | Inadequate fire protection 2.64        |
| 7. Lower crime rate           | 4.18    | Length of school bus ride 2.27         |
| 8. Limited Cell Towers        | 4.09    | Lack of a hardened berm 2.00           |
| 9. Small town community fee   | el 4.00 | Lack of county law enforcement 1.36    |
| 10. Topography/variety        | 3.64    | Speed limits too high 1.00             |
| Low density*                  | 3.45    |  |
| Lack of commercial            | 3.36    |  |
| Two-lane roads                | 3.18    |  |
| No subdivisions               | 2.91    |  |
| Low traffic                   | 2.81    |  |
| Road system is adequate       | 1.18    |  |
|                               |         |  |

Issues that face the community today and down the road can be determined in the strengths, weaknesses, opportunities and threats strategic planning exercise. The likes, dislikes, issues and opportunities were ranked and placed into four categories (SWOT) by the Steering Committee on November 14, 2001. This instrument becomes an outline for a strategic plan of development. This strategic plan reflects general issues that must be addressed by the comprehensive plan.

#### **Strengths**

- Rural setting
- Agricultural character
- Low density

- Open spaces
- Peace and quiet
- Small town community feel
- Natural resources/wildlife
- Topography/variety
- Road system adequate for today
- Lower crime rate

#### Weaknesses

- Lack of local zoning control
- No subdivision patchwork of large lot splits with no common/continuous open space
- Road system may not be adequate for the future
- Lack of commercial tax base
- Unsightly clutter on property

# **Opportunities**

- Subdivisions that protect open spaces
- Commercial to strengthen tax base
- No County sewer in the Township may decrease the probability of high density development

#### **Threats**

- Lack of local zoning control
- Suburban style subdivisions (no open spaces)
- Poor access management creates traffic problems
- Cell/TV towers
- Light pollution from the south
- Loss of agricultural production

#### **6.5** Vision Statement for Future Development

The group of approximately 25 residents on October 10, 2001 drafted a future vision for the community development pattern, or vision statement:

#### **Vision Statement**

When Kingston Township is all built out, we would like it to retain a rural setting with agricultural character, low density, peace and quiet, no large subdivisions, with open spaces, while retaining our rural roads with moderate traffic.

The mission of the Kingston Township steering committee is to analyze the factors that influence future development patterns, consider the strengths, weaknesses, opportunities and threats to attaining the vision, and select a plan that assures the desired result.

# **Chapter 7**

# **Existing Land Use**

## 7.1 Land Use Maps

DCRPC staff has generated four different land use maps. Each tells a different story of how land is being used.

## I. Existing Land Use Map

The existing land use map (see Kingston Township Existing Land Use map the next page) displays single family residential, commercial, agricultural and open space, industrial by color. The land use is determined by the Auditor's tax codes. This acreage is displayed in Table 7.1.

Table 7.1 Kingston Township Land Use by Acreage 1990-2001

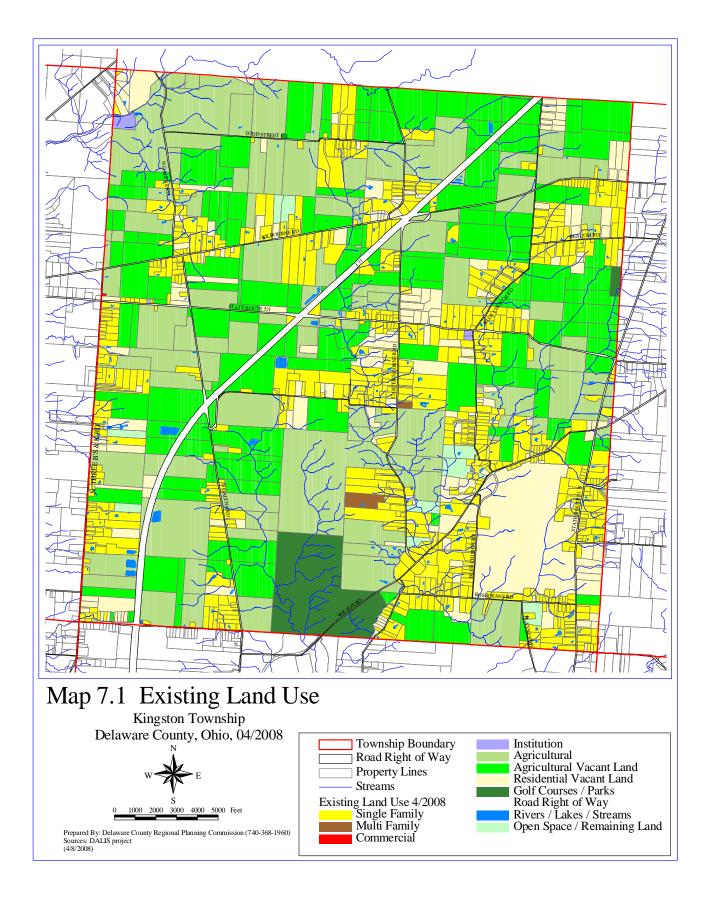
|  | 1990                | % Land | 2001*                | % Land |
|--|---------------------|--------|----------------------|--------|
|  | (Satellite imagery) |        | (Auditor's tax data) |        |
| Residential (SF +MF) **                        | 810.08              | 5.31   | 2,355.49             | 15.46  |
| Single Family                                  | 810.08              |        | 2,355.49             |        |
| Multi family                                   | 0.00                |        | 0                    |        |
| Commercial                                     | .90                 | <.1    | 63.87                | .40    |
| Institutions                                   | 2.46                | <.1    | 5.43                 | <.1    |
| Industrial                                     | 0                   | 0      | 0                    | 0      |
| Agriculture and undeveloped (includes forests) | 13,641.23           | 89.54  | 12,107.83            | 79.47  |
| Lakes, rivers and public lands***              | 284.13              | 1.86   | 259.68               | 1.70   |
| Roads and Utilities****                        | 481.29              | 3.16   | 487.70               | 3.20   |
| Vacant land rezoned, still undeveloped         | 14.83               | <.1    | 19.23                | .12    |
| Acreage in Township                            | 15,234.92           |        | 15,235.36            |        |

<sup>\*</sup> The 2001 DALIS Geographic Information System acreage vector data.

<sup>\*\*2001</sup> residential acreage calculated using DALIS data for entire parcel.

<sup>\*\*\*</sup> Area created as follows: Lakes, ponds and rivers polygons calculated by GIS. Streams (including seasonal swales on the USGS maps) were given a width of 20 feet, and multiplied times the number of lineal feet.

<sup>\*\*\*\*</sup>The ROW area for roads and utilities is 488 acres. There are no railroads in Kingston Township.



# Findings of the DALIS Existing Land Use Map 2001

- 1. Residential land has nearly tripled from 810 in 1990 to 2,355 in 2001.
- 2. Agricultural and undeveloped land has decreased 11.2% from 13,641 in 1990 to 12,108 in 2001. Agriculture/undeveloped land is still the primary land use at 79.47% of all acreage.
- 3. There is no multifamily housing in Kingston Township. Commercial, industrial and institutional activity remains low, only 63.87 acres as of 2001.

## II. 2001 Windshield Survey of Existing Land Use

An existing land use field or "windshield" survey was taken in June 2001. While the DALIS land use categories are based on Auditor's tax data, the field survey is intended to:

- a.) update the Auditor's data to the present
- b.) record the actual land uses (Auditor's data gives general categories and the owner, but not the actual land use name)
- c.) record housing conditions from a basic exterior view on a scale of 1-5

DCRPC staff performed the survey using 1997 aerial photos at a scale of 1"=400'. The results are compiled in the following table:

**Existing Land Use (unit count) in Kingston Township** 

| June 2001 |               |       |        |        |        |    |     |       |      |     |       |      |              |               |
|-----------|---------------|-------|--------|--------|--------|----|-----|-------|------|-----|-------|------|--------------|---------------|
| Section   | Single-Family | Two-  | Family | Multi- | Family | MH | H   | lousi | ng C | ond | litio | ns*  | Commercial** | Institutional |
| _         | Units         | Units | Res.   | Units  | Res.   |    | 1   | 2     | 3    | 4   | 5     | None |              |               |
| 1 of 16   | 13            | 0     | 0      | 0      | 0      | 0  | 4   | 6     | 3    | 0   | 0     | 0    | 0            | 0             |
| 2 of 16   | 17            | 0     | 0      | 0      | 0      | 0  | 9   | 7     | 1    | 0   | 0     | 0    | 0            | 0             |
| 3 of 16   | 9             | 0     | 0      | 0      | 0      | 1  | 7   | 1     | 2    | 0   | 0     | 0    | 0            | 0             |
| 4 of 16   | 26            | 0     | 0      | 0      | 0      | 0  | 23  | 3     | 0    | 0   | 0     | 0    | 0            | 0             |
| 5 of 16   | 61            | 0     | 0      | 0      | 0      | 0  | 48  | 10    | 2    | 1   | 0     | 0    | 4            | 0             |
| 6 of 16   | 41            | 0     | 0      | 0      | 0      | 0  | 31  | 8     | 2    | 0   | 0     | 0    | 1            | 0             |
| 7 of 16   | 70            | 0     | 0      | 0      | 0      | 0  | 67  | 1     | 1    | 0   | 1     | 0    | 1            | 3             |
| 8 of 16   | 25            | 0     | 0      | 0      | 0      | 0  | 19  | 5     | 1    | 0   | 0     | 0    | 0            | 0             |
| 9 of 16   | 37            | 0     | 0      | 0      | 0      | 1  | 25  | 9     | 2    | 2   | 0     | 0    | 0            | 0             |
| 10 of 16  | 19            | 0     | 0      | 0      | 0      | 1  | 9   | 8     | 2    | 0   | 1     | 0    | 0            | 0             |
| 11 of 16  | 71            | 0     | 0      | 0      | 0      | 0  | 63  | 5     | 3    | 0   | 0     | 0    | 1            | 1             |
| 12 of 16  | 47            | 0     | 0      | 0      | 0      | 2  | 43  | 4     | 1    | 1   | 0     | 0    | 0            | 0             |
| 13 of 16  | 40            | 0     | 0      | 0      | 0      | 0  | 27  | 11    | 1    | 1   | 0     | 0    | 0            | 0             |
| 14 of 16  | 9             | 0     | 0      | 0      | 0      | 0  | 9   | 0     | 0    | 0   | 0     | 0    | 0            | 0             |
| 15 of 16  | 55            | 0     | 0      | 0      | 0      | 1  | 40  | 14    | 2    | 0   | 0     | 0    | 0            | 0             |
| 16 of 16  | 60            | 0     | 0      | 0      | 0      | 0  | 52  | 7     | 1    | 0   | 0     | 0    | 0            | 0             |
| ·         |               |       |        |        |        |    |     |       |      |     |       |      |              |               |
| Totals    | 600           | 0     | 0      | 0      | 0      | 6  | 476 | 99    | 24   | 5   | 2     | 0    | 7            | 4             |

<sup>\*\*</sup>Commercial count includes three public utility towers (3 cellular tower).

Source- Field Survey completed, checked and compiled by DCRPC.

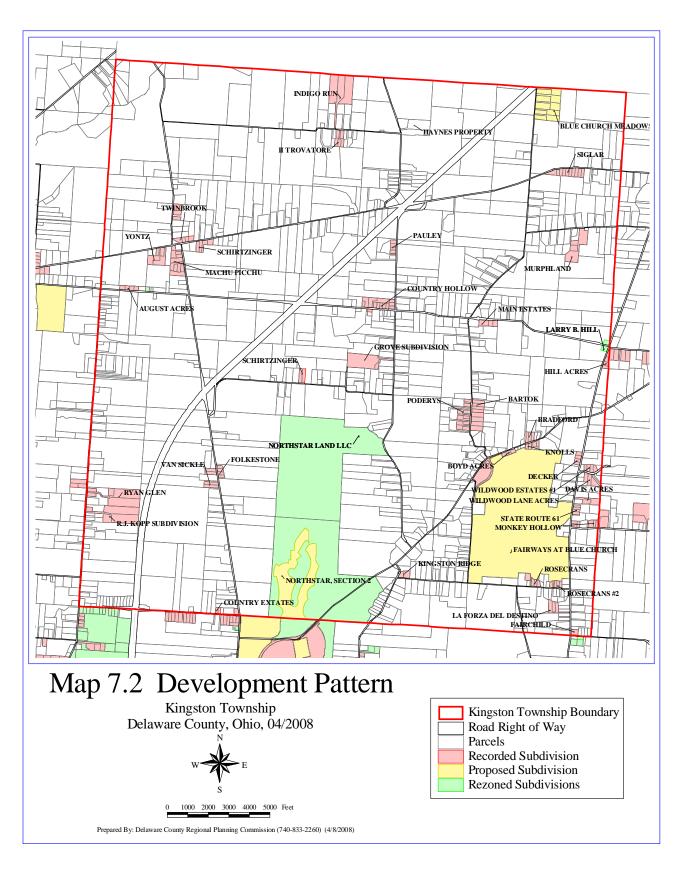
- 1.) Sound: no defects, a meticulously maintained structure, or a recently completed new structure.
- $2.) \ Sound: slight \ defects-structure \ in \ which \ defects \ were \ correctable \ by \ normal \ maintenance.$
- 3.) Sound: deteriorated- an intermediate defect, for example, a roof sagging, a wall unit warped, a foundation settled unevenly or a chimney eroding.
- 4.) Dilapidated: critical defects- a structure in a state of disrepair to the extent that the present condition might impose a threat to the health and safety of its occupants but which was still considered inhabitable.
- 5.) Uninhabitable: extensive critical defects- structures in a state of disrepair to the extent that the unit is not suitable for habitation.

<sup>\*</sup>Housing Conditions

Kingston Township is still a primarily agricultural and single family residential township. There are 600 single-family dwelling units, 5 mobile homes (as defined in appendix H), 7 commercial uses, 4 institutional uses and no industrial uses in 2001. The condition of the housing stock is good to excellent. Of 600 units of housing, 476 or 79% were rated excellent by exterior survey, 17% were rated good, and only 5% was rated as poor or very poor. Two structures were deteriorated to the point of being considered uninhabitable and requiring demolition. These results will be discussed further in Chapter 7, Housing.

# III. Development Pattern Map

A third type of existing land use map defines the progress of anticipated development. The development pattern map tracks the size and location of zonings and subdivisions. Kingston's Development Pattern Map, December 2001, depicts these various characteristics. Further information, called attribute information, is available from the DCRPC GIS and the County DALIS. Such information includes building permit issuance, developer/landowner, subdivision names, number of homes and density.

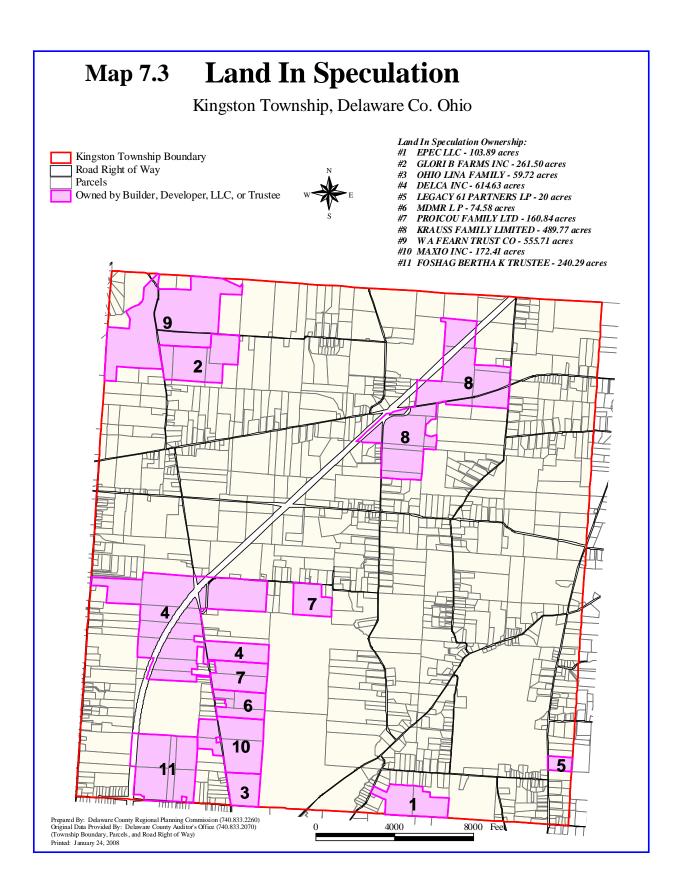


# IV. Land in Speculation Map

A fourth type of potential land use map based upon land ownership and adjacency to known development sites, is the Land in Speculation Map. Using the DALIS, DCRPC staff can query all landowners for lands that are owned by:

- Known land developers and subdividers
- Known homebuilding companies
- Limited liability corporations (LLC)
- Trusts
- Incorporated entities

For tax and estate planning purposes there may be non-development entities that use one of these types of ownership, so the land in speculation map is a best guess, not a certain picture of how much land may be in speculation. Lands that are adjacent to current development may also be targets of expansion. They are also identified as possible land in speculation.



# V. Observations on Existing Land Use and Current development Patterns in 2001

Now that we have studied the various existing land use maps (DALIS Existing Land Use Map, Kingston Development Pattern Map, Land in Speculation Map, and the acreage tabulations from the windshield survey), we may draw some observations about emerging land use patterns in Kingston Township.

- 1) Agriculture/undeveloped land is still the primary land use at 79.47% of all acreage.
- 2) The township is made up of 15,235 acres, divided by Interstate 71.
- 3) Roads and utility rights of way comprise 488 acres, or about 3.2% of the total land area.
- 4) Slightly more than 1,500 acres (10%) in the Township has been converted from agriculture or undeveloped land to residential use.
- 5) Residential land acreage increased by 190% or 1,545 acres in the last decade. In contrast, population only increased by 46%, as discussed in Chapter 2.
- 6) Single family residential use accounts for 15% of the land use, compared to just over 5% in 1990.
- 7) Residential land use is concentrated along roads; there are no suburban subdivisions.
- 8) Sections of the township can still be considered a "blank canvas" of open land. Toward the southern half of the township, large tracts are still intact.
- 9) There were 600 single-family homes, and 6 mobile homes observed in the windshield survey.
- 10) There were 7 commercial uses by windshield survey.
- 11) Four institutional uses were observed in the windshield survey (township hall, churches and cemeteries).
- 12) The township includes no municipalities within its border and isn't threatened with annexation.
- There appear to be 2,248.57 acres of land or 14.82% in speculation (42 parcels, 9 owners), including 866.47 acres in the NorthStar development and 605.78 acres in the proposed Pastures at Blue Church development.

# VI. Conclusions

The impact of future land use patterns must be considered. Some of the many influences on land development patterns are:

- \$ The power of money (market demand)
- Regional economic conditions
- Location
- Sanitary sewer service areas, sewer capacity, density of development by sewer design
- Soils and their suitability for on- site sewage disposal systems
- Natural resources (topography, floodplains, wetlands)
- Public/private centralized water service areas and capacity
- Roads and traffic congestion
- Community Facilities (schools, fire, police, etc.)
- Local zoning
- Banking/lending practices for kinds of development

Kingston Township has choices. Township zoning controls the type and density of future development. If the township intends to retain its rural character at a time of unprecedented growth, it must imagine itself "all built-out" in alternative scenarios, and pursue the scenario it prefers.

The book <u>Rural by Design</u>, by Randall Arendt (Planners Press, American Planning Association) is one guide to other development patterns that may augment the large lot and conventional development patterns the township has already experienced.

# **Chapter 8**

# **Natural Resources and Conservation**

Kingston Township has beauty in its natural resources. If these resources are not conserved and protected, then the vision of the township to preserve its rural character and its natural resources will not be achieved and the principal attribute of the township will be diminished. Conservation features including woodlands, wildlife habitats, quality wetland buffers and riparian zones must be of primary focus, followed by floodways, scenic views and vistas and sloping land. Prime farmland and cultural resources must also be preserved as part of new developments.

## **8.1 Topography-(DALIS contours)**

Kingston Township has relatively mild differences in elevations and slopes. The elevation map (Map 8.2) indicates a 170-foot difference in elevation from the highest point of the township to the lowest. The eastern edge of the township ranges from 1040 to 1070 feet above sea level. The highest point is toward the southeast on the Porter Township line between SR 656 and Wildwood Lane (1070'). The lowest elevation is in the northwest corner of the township where Alum Creek enters Brown Township (900'). The elevation at the point where Little Walnut Creek enters Berkshire Township is 925'.

### **8.2 Slopes Greater than 20%**

The township set a goal to preserve its natural beauty. One important element of the Township's natural beauty is its ravines. Retaining slopes greater than 20% for open space as the township develops will be very important in achieving this goal. The steep slope map (Map 8.3) indicates slopes over 20%. Generally, roads do not exceed 10% slope, and houses with walkout basements can typically be built on slopes up to 20%, or slightly greater. In Kingston Township, the steep slopes are mainly located in the ravines that lead to Alum Creek and Little Walnut Creek in the northeast and southeast portions of the Township.

#### 8.3 Floodplains, bodies of water

The National Flood Insurance Program, discourages development in the 100 year floodplain and prohibits development in the 100 year floodway. These areas are mapped in detail by the US Army Corps of Engineers for the Federal Emergency Management Agency (FEMA). The Floodplain Map (Map 8.4) gives a general location of the floodplains. For specific information see the FEMA maps at the Delaware County Building Department, 50 Channing Street, Delaware Ohio (740-833-2200).

Floodplains perform several critical functions in their undisturbed state (adapted from <u>Protecting Floodplain Resources</u>, A <u>Guidebook for Communities</u>, <u>Federal Interagency Floodplain Management Task Force and FEMA</u>, June 1996):

Water Resources - Natural flood and erosion control
 Provide flood storage and conveyance; reduce flood velocities; reduce peak flows; reduce sedimentation

# Water Quality Maintenance

Filter nutrients from runoff; process organic wastes; moderate temperature fluctuations

#### • Groundwater Recharge

Promote infiltration and aquifer recharge; reduce frequency and duration of low surface flows

#### • Biological Resources

Rich, alluvial soils promote vegetative growth; maintain biodiversity; maintain integrity of ecosystems

### • Fish and Wildlife habitats

Provide breeding and feeding grounds; create and enhance waterfowl habitat; protect habitats for rare and endangered species.

#### • Societal Resources

Harvest of wild and cultivated products; enhance agricultural lands; provide sites for aquaculture; restore and enhance forest lands

# • Recreational Opportunities

Provide areas for passive and active uses; provide open space; provide aesthetic pleasure

## • Scientific Study and Outdoor Education

Contain cultural resources (historic and archeological sites); environmental studies

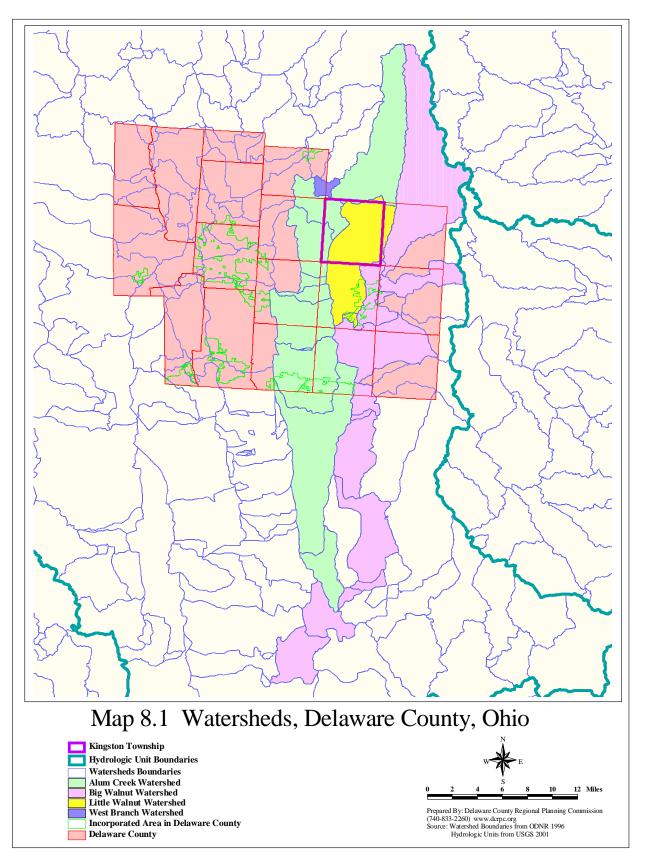
For all these reasons, the 100-year floodplains in Kingston Township should be protected. Some counties, such as Franklin, have large meandering flat floodplains, which comprise a great deal of the developable area of the county. In an urban county, where such land is precious, it is understandable, but not advisable, that some conversion to urban uses based on fill or elevated pilings may occur. In Delaware County, the floodplains are narrow and limited. They comprise a very small portion of the land area, and they occur on four rivers which are state scenic (Olentangy), drinking water sources (Alum Creek, Scioto, Big Walnut), or recreational (all four).

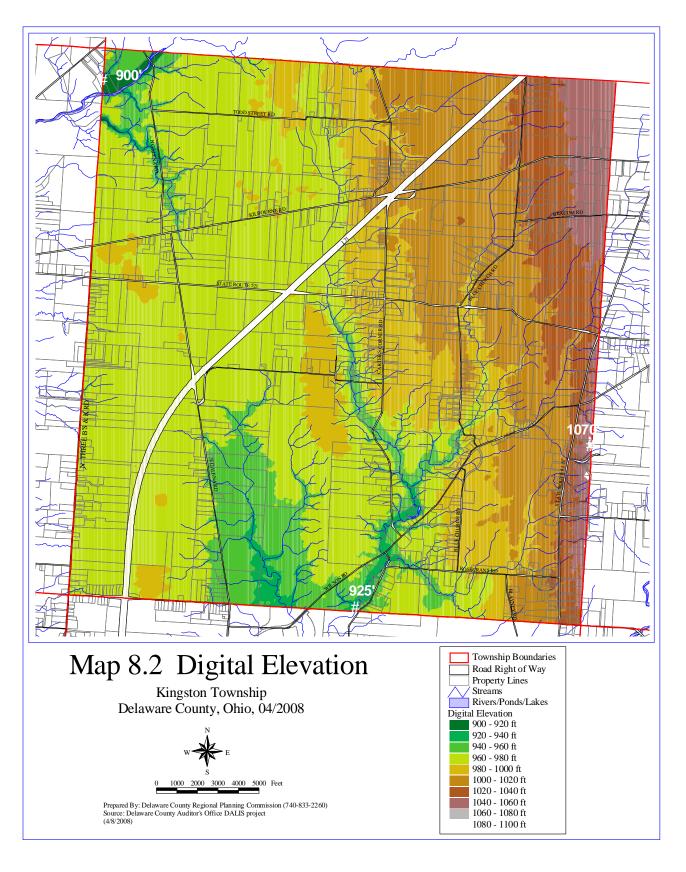
The Delaware County FEMA floodplain maps were revised in 1999. Floodplain elevations in some areas have risen for the 100-year flood as suburban development increases runoff into the waterways after storms at a greater rate than before. With floodplains rising, and all the natural benefits of floodplains listed previously, it is foolish to permit residential development in the 100-year floodplain at or slightly above the current 100-year floodplain elevation. The subsidy for the low cost national flood insurance comes from federal taxes. Each land use decision to permit development in the 100 year flood plain not only puts people in harm's way, but also potentially burdens all American taxpayers with the cost of continuing to bail out bad development after a flood.

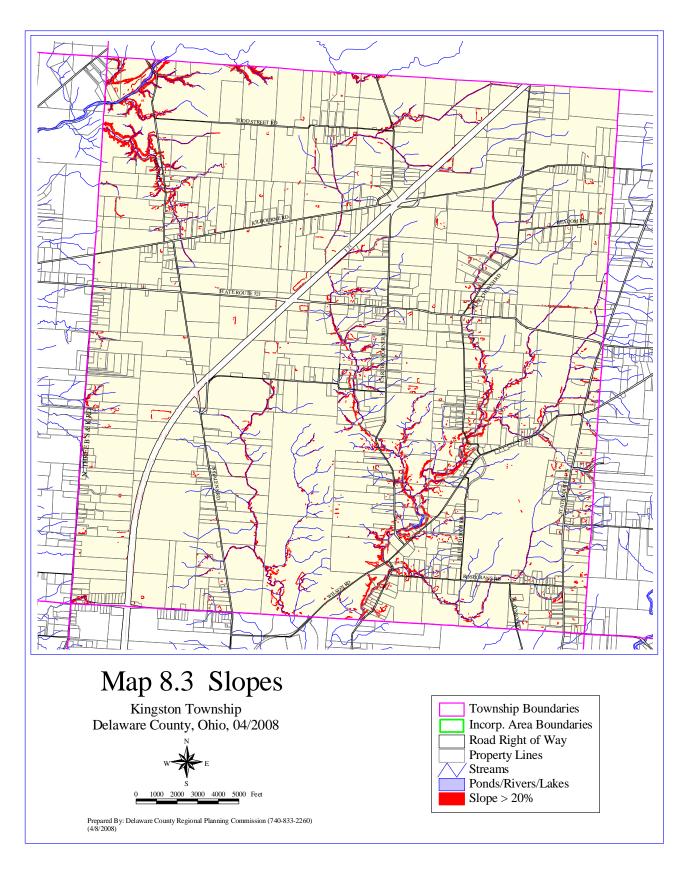
#### 8.4 Groundwater resources

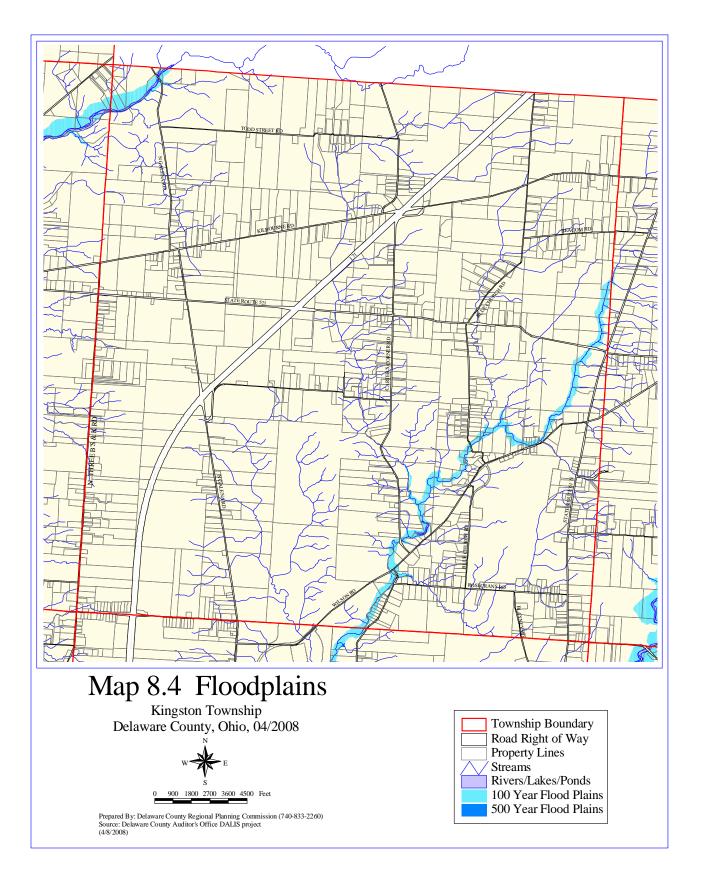
There are generally four aquifer systems in Delaware County. The eastern portion of the County has sandstone aquifers with a yield of 15 to 25 gallons per minute (GPM) at depths of 95 feet. The southern portion of the County has thin lenses of sand and gravel within thick layers of clay fill with a lower yield. The center of the County is a shale aquifer where dry wells are common with a yield of 0 to 3 (GPM) at 75 feet. The western part of the County has a carbonate aquifer type with yields up to 1,000 (GPM) at depths of less than 85 feet. (Source: Ohio State University Extension).

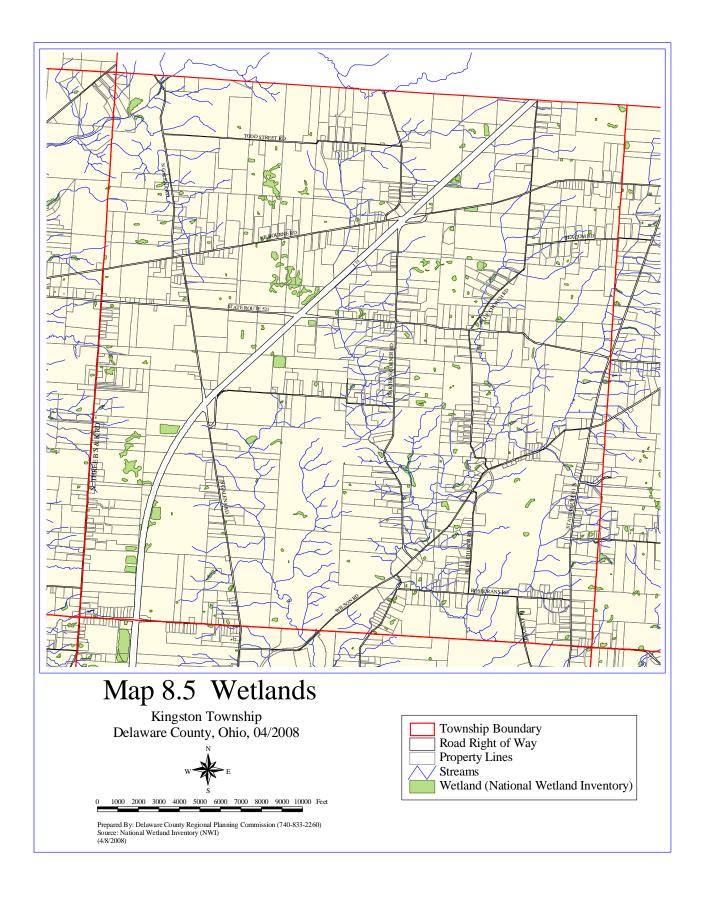
Groundwater is a valuable natural resource. It is an essential part of the hydrological cycle and provides drinking water to areas in the township that are not served by public water. Groundwater should be conserved and its quality as a drinking water supply should be protected, especially for those areas of the township that are not served by public water.

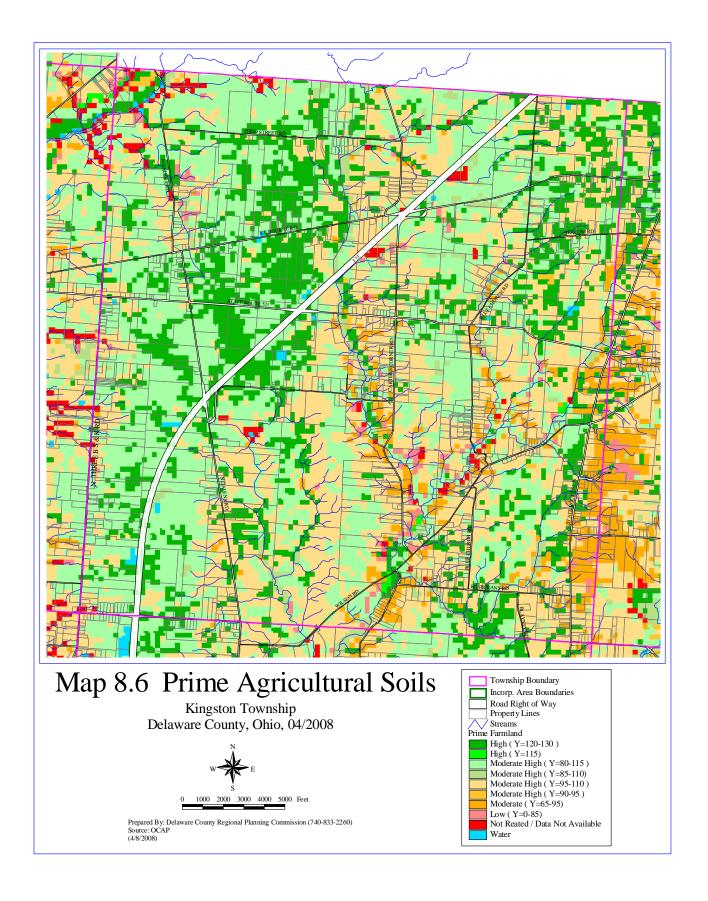


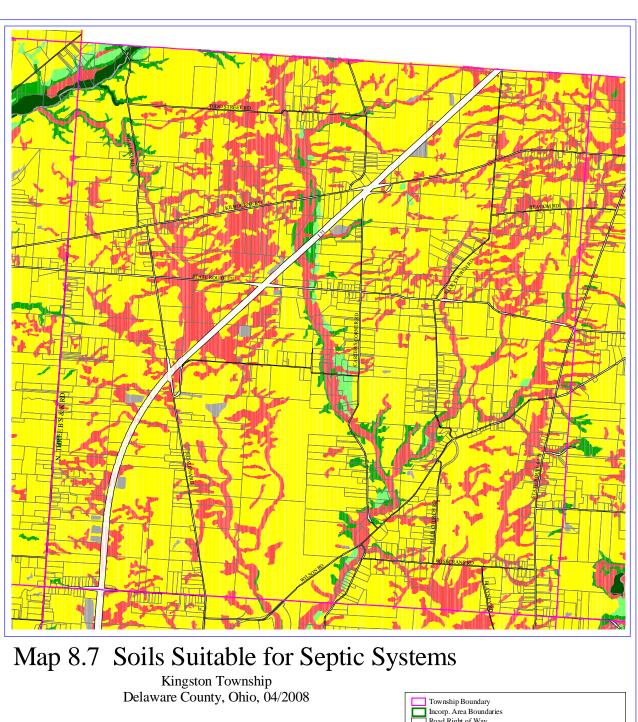


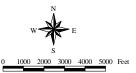






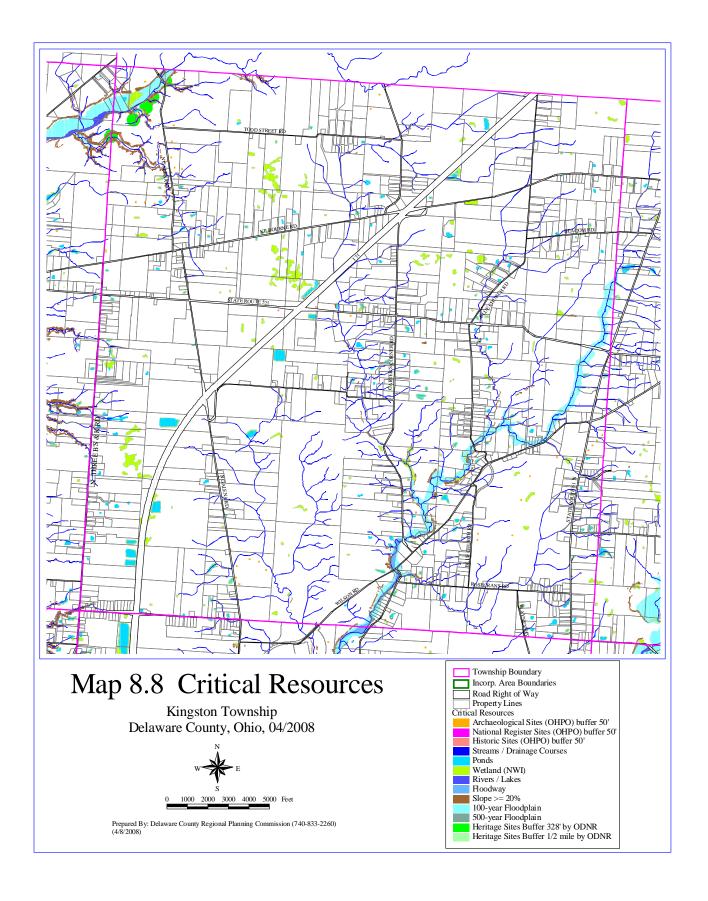


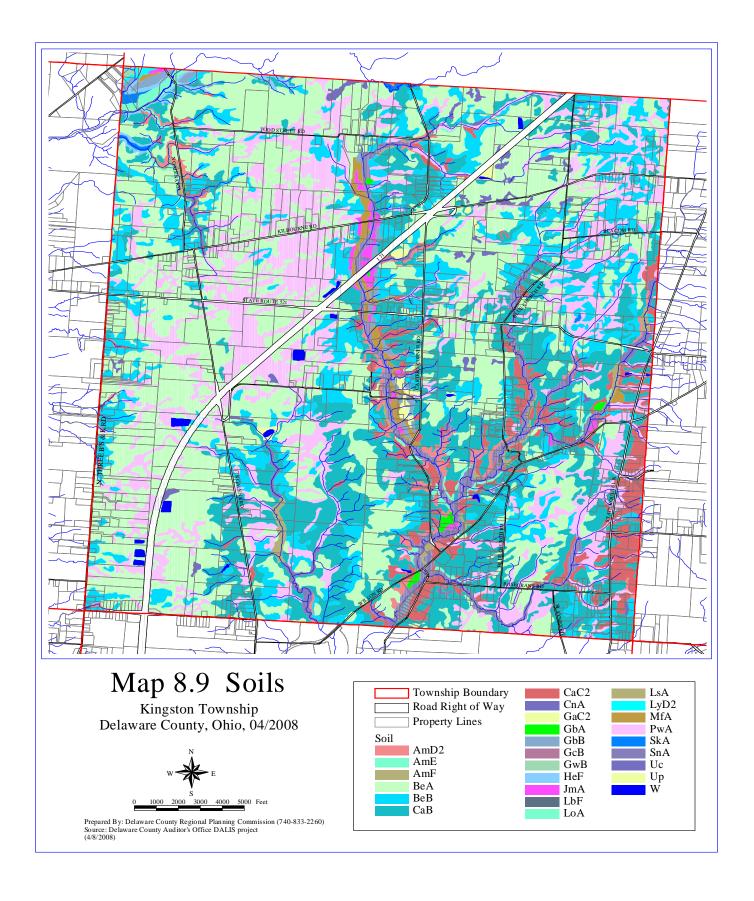


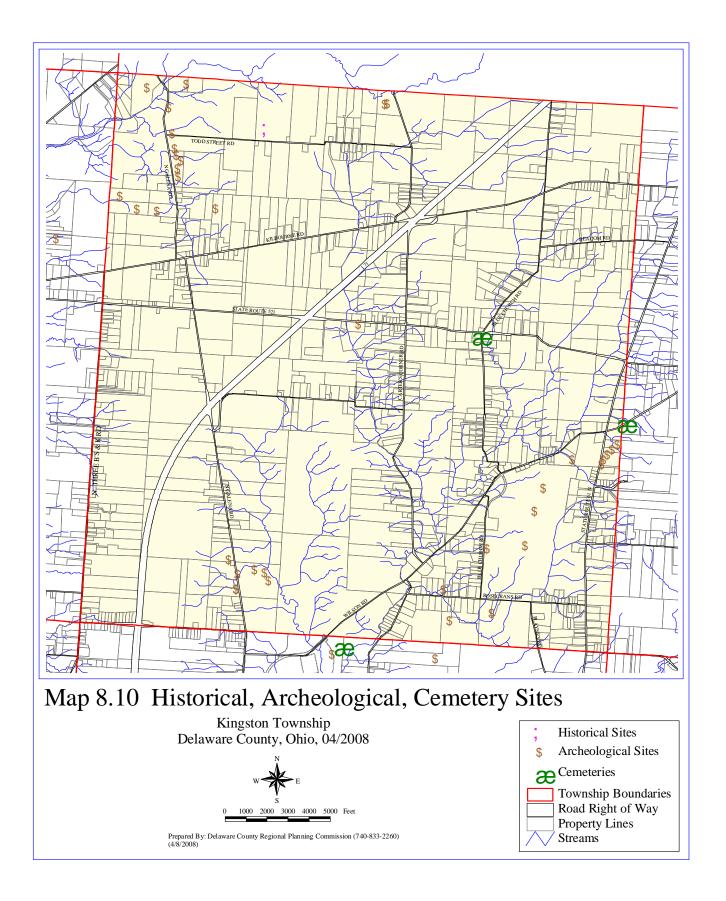


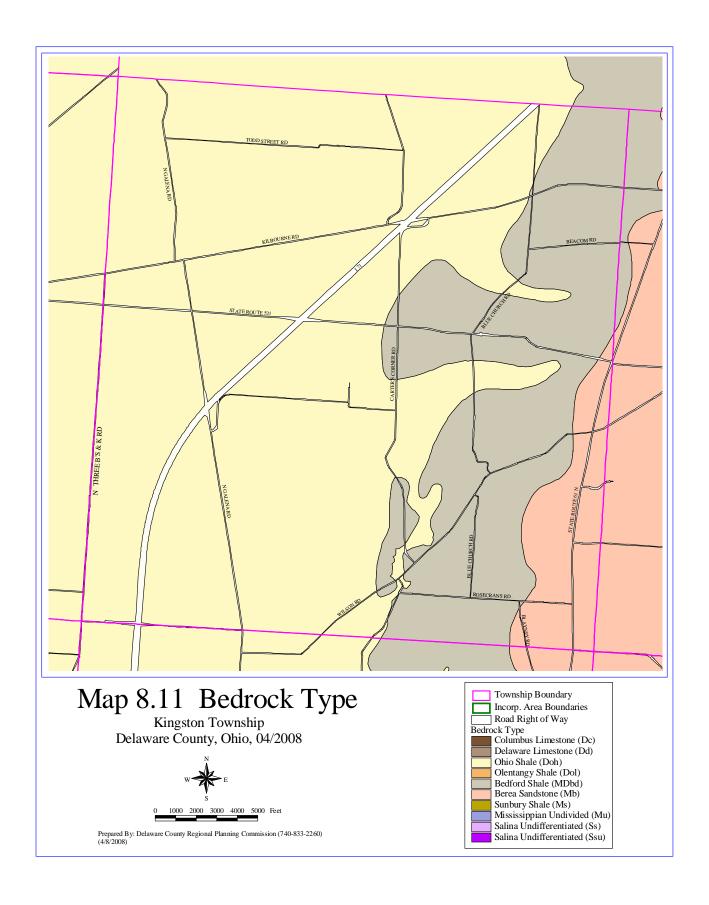
Prepared By: Delaware County Regional Planning Commission (740-833-2260)  $\left(4\%2008\right)$ 

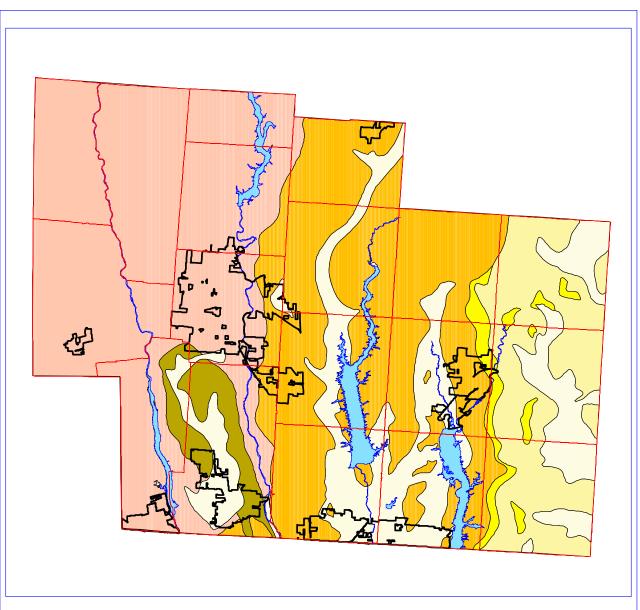
Township Boundary
Incorp. Area Boundaries
Road Right of Way
property Lines
Soil Suitability for On-site Sewage Treatment
Suited for Traditional Leach Lines Systems or Mound Systems
Suited for Mound Systems
Suited for Mound Systems, May be Subject to Flooding
Not Suited for Soil-based Treatment, May be Suited for Irrigation
Not Suited for Soil-based Treatment (Hydric Soils)
Urbanized Area / Other Soils











# Map 8.12 Groundwater Aquifer Type

Kingston Township Delaware County, Ohio, 04/2008



Prepared By: Delaware County Regional Planning Commission (740-833-2260) (4/8/2008)

Township Boundary

Township boundary Incorp. Areas

River / Lakes

Ground Water (Aquifier Type)

Limestone - Well\_Yield > 100 GPM, Well\_Depth > 100' Sand/Gravel - Well\_Yield 10-25 GPM, Well\_Depth < 100' Sandstone - Well\_Yield 10-25 GPM, Well\_Depth < 120' Sandstone/Shale - Well\_Yield 3-10 GPM

Shale - Well\_Yield < 3 GPM Shale/Limestone - Well\_Yield > 100 GPM, Well\_Depth > 100

#### 8.5 Wetlands

Wetlands are generally defined as soils that support a predominance of wetland (hydrophytic) vegetation, and/or are under water at least two weeks per year. The more specific definition of wetlands under the jurisdiction of the US Army corps of Engineers is found in the Corps of Engineers Wetlands Delineation manual Technical Report Y-87-1, US Army Engineer Waterways Experiment Station, Vicksburg, Miss.

Jurisdictional wetlands are regulated by the Clean Water Act of 1972, Section 404. They consist of:

- 1. hydric soils,
- 2. hydrophytic vegetation,
- 3. wetland hydrology (this means they support more than 50% wetland vegetation, are poorly drained, and are periodically inundated or saturated).

Jurisdictional wetlands serve many of the same functions as floodplains, and deserve to be protected for the same reasons. Much of Kingston Township's wetlands are tiled agricultural fields, which if tiled before 1985, are exempt from regulation unless they revert back to their natural state. Others are in low lying ravine areas. Wetlands can be enhanced to be an attractive and functional part of the storm water detention system in developments. They work better than man-made basins, since their wetland vegetation serves to trap, filter and break down surface runoff pollutants, as well as assist in groundwater recharge acting as habitat for a wide variety of plant and animal species.

Wetlands also help to mitigate flood and drought conditions trapping water and releasing it slowly over time.

The Wetlands Map (Map 8.5) shows the location of potential wetlands from OCAP satellite imaging. These locations are raster data, meaning that because they are derived from satellite imaging, the information has square edges and is general in detail. They should not be too closely relied upon, but may indicate the locations of potential jurisdictional wetlands.

In January 2001, the United States Supreme Court determined that only wetlands that drain to flowing waters would be protected by the Clean Water Act. This does not mean that isolated pockets of wetlands are not important. Such pockets may indeed be valuable, especially for stopover places for migrating waterfowl as well as breeding areas for declining amphibian populations. Isolated pockets or "perched" wetlands however, do not come under the federal protection of the Clean Water Act.

#### 8.6 Prime Agricultural Soils

The Prime Agriculture Soils map (Map 8.6) shows the location of soils suited to high yields in Kingston Township. Agriculture is still an important land use in Kingston Township, although the land value for future development may exceed the short-term value for continued agricultural use.

Creative zoning and development techniques may be able to save some agricultural land as open space. There is a methodology to evaluate which farms should be preserved, based upon highest yield soils, proximity to utilities, four-lane highways, and dense settlements. The method is called the

Land Evaluation Site Assessment system or LESA and is created by the US Department of Agriculture.

When farms are considered for purchase of development rights, those with the highest LESA ranking might be given the most favorable consideration. The DCRPC and the Delaware Soil and Water District can perform the LESA evaluation.

#### 8.7 Soil Suitability for Septic Systems

Sanitary sewer service is not yet available to the township. Therefore, it is useful to evaluate the soil capability for septic systems. Land with very poor suitability for septic may require centralized sanitary sewer for development. The Soil Suitability for Septic Systems Map (Map 8.7) displays this information. Much of Kingston Township has Pewamo soil, which has a high amount of clay and is poorly drained. This soil is unacceptable for leach fields due to the seasonal high water table. As a result, lot sizes must be large enough to locate suitable soil for a leach field and reserve leach field. Furthermore, overall density must remain low due to saturation of these soils. Soils are a major consideration on density of population in non sewered areas.

## **8.8 Combined Critical Resources**

The Combined Critical Resources map (Map 8.8) displays generalized floodplains, water, wetlands, prime agricultural soils and 100 foot suggested setbacks from major watercourses. Since it is a goal to preserve the natural resources of the township, this map should be used as an evaluation tool when land is developed.

# **8.9 Development or Harvesting of Natural Resources**

There are currently limited mined deposits of natural resources in Kingston Township (i.e. minerals, stone, gravel, oil, natural gas). There are recent oil and gas strikes in the township. Prime agricultural soils are the main natural resource and farming should be encouraged as long as it is economically viable. It is conceivable that someday these prime agricultural soils could be extracted and moved for landscaping or other uses. There may be some commercially viable limestone deposits in the township, although they are deep below the surface and would require underground mines for extraction. There is very little potential for sand and gravel mining as well. The most likely candidate would be mining Bedford shale along the eastern third of the township for the production of bricks. This same bedrock layer is mined in Marion County to the north. The Berea sandstone to the southeast also has some limited potential for foundation material, but is not likely (Source: Ohio Geological Survey, Industrial Mining Group).

The township should develop policies regarding the development of valuable natural resources, either as part of a specific zoning district, or as a conditional use if certain performance standards are met (noise prevention, dust control, buffering and screening, appropriate access, hours of operation, etc). Mining operations should not be permitted within the 100-year floodway, and if proposed within the 100-year floodplain should only be permitted with strict environmental controls to prevent water pollution, flotation of equipment and other related hazards. Mining operations must take into account the proximity of existing residential uses.

# Chapter 9

# Housing

Housing has been the primary index of growth in Kingston Township. The township is a rural community with limited central sewer. Del-Co water service extends along most roadways. The township has maintained low residential densities because of its lack of urban services and reliance on septic systems. The recently amended Planned Residential Development (PRD) permits a variety of housing types and an overall maximum gross density of 1 unit/1.95 acres which is density neutral with the Farm Residence District.

#### 9.1 Existing Housing Stock

A house-to-house windshield survey was conducted in June 2001. An exterior condition of each house was derived based upon five criteria. The housing survey results are in Table 9.1.

Table 9.1 Kingston Township Housing Survey Results, June 2001, Field Survey

| Housing<br>Type | Total #<br>Units | #Units<br>Sound: no<br>defects | # Units<br>Sound: slight<br>defects | # Units Sound:<br>deteriorated | # Units<br>dilapidated | # Units<br>uninhabitable |
|-----------------|------------------|--------------------------------|-------------------------------------|--------------------------------|------------------------|--------------------------|
| SF              | 600              | 475                            | 95                                  | 23                             | 5                      | 2                        |
| TF              | 0                | 0                              | 0                                   | 0                              | 0                      | 0                        |
| MF              | 0                | 0                              | 0                                   | 0                              | 0                      | 0                        |
| Mobile<br>Homes | 6                | 1                              | 4                                   | 1                              | 0                      | 0                        |
| Totals          | 606              | 476                            | 99                                  | 24                             | 5                      | 2                        |
| % Totals        | 100%             | 78%                            | 17%                                 | 4%                             | <1%                    | <1%                      |

### **Findings**

Based upon the housing survey, several points about housing may be made:

- There is no significant problem with deteriorated housing stock in Kingston Township.
  - A. 78% of all housing is either new or maintained like new (sound, no defects).
  - B. 17% of all housing is in good condition (sound, slight defects).
  - C. Only 4% of all housing appeared to be sound but deteriorated.
  - D. Only 5 units (0.8%) appeared dilapidated.
  - E. Two units (0.3%) appeared uninhabitable.
- Housing in the township is entirely single family. This is largely due to the lack of sanitary sewer and other services that multi-family housing demands.
- Kingston Township may someday wish to adopt a housing code to assure the constant maintenance of its housing stock, to maintain property values and stable neighborhoods.

#### 9.2 Housing Needs

Kingston Township is ranked 18<sup>th</sup> in total housing units in Delaware County and has been the twelfth-largest provider of new housing stock from 1980 to 2000 (327 units), ranked by building permits issued (Table 9.2, DCRPC Number of Building Permits 1980-2000). Kingston Township has provided 1.40% of the total new housing in Delaware County in the last 20 years. The top five communities (city of Delaware, Genoa, Orange, Liberty Townships, and Powell) have provided almost 70% of all the housing in Delaware County during the same period. Those communities have centralized sewer service.

Table 9.2 also shows vacancy rates, as determined by the US Bureau of Census during the April 2000 count. In general, vacancy rates show a healthy supply of new homes available for sale. Vacancy rates below 2% indicate a tight housing market, while vacancy rates of 5% are normal for a market with reasonable supply for market demand.

Table 9.2 Housing Providers in Delaware County, by Reported Building Permits 1980-2000

| Name of Community  | Census 2000<br>Housing Units<br>April, 2000 | County Rank,<br>Housing Units,<br>Census 2000 | Vacancy Rate,<br>Census April,<br>2000 | Building Permits<br>1980-2000 | % total permits issued 1980-2000, Delaware County |
|--|---|---|--|-------------------------------|---|
| Berkshire Township   | 712   | 16  | 4.5 %                                  | 386                           | 1.65 %  |
| Berlin Township  | 1,239                                       | 11  | 4.7 %                                  | 827                           | 3.54 %  |
| Brown Township   | 479   | 21  | 3.3 %                                  | 189                           | 0.80 %  |
| Concord Township   | 1,374                                       | 10  | 5.8 %                                  | 958                           | 4.10 %  |
| Delaware Township  | 373   | 22  | 7.0 %                                  | 180                           | 0.77 %  |
| Genoa Township   | 4,058                                       | 3   | 5.0 %                                  | 3,702                         | 15.8 %  |
| Harlem Township  | 1,382                                       | 9   | 3.1 %                                  | 479                           | 2.05 %  |
| Kingston Township  | 554   | 18  | 3.1 %                                  | 327                           | 1.40 %  |
| Liberty Township   | 3,469                                       | 4   | 5.3 %                                  | 2,547                         | 10.9 %  |
| Marlboro Township  | 167   | 26  | 6.7 %                                  | 8                             | .034 %  |
| Orange Township  | 5,055                                       | 2   | 8.4 %                                  | 3,561                         | 15.24 %   |
| Oxford Township  | 318   | 23  | 7.2 %                                  | 98                            | 0.41 %  |
| Porter Township  | 597   | 17  | 3.0 %                                  | 266                           | 1.13 %  |
| Radnor Township  | 511   | 19  | 4.3 %                                  | 169                           | 0.72 %  |
| Scioto Township  | 864   | 14  | 4.7 %                                  | 430                           | 1.84 %  |
| Thompson Township  | 220   | 24  | 8.2 %                                  | 51                            | 0.21 %  |
| Trenton township   | 769   | 15  | 3.0 %                                  | 241                           | 1.03 %  |
| Troy Township  | 1,210                                       | 12  | 8.5 %                                  | 203                           | 0.86 %  |
| <b>Total Townships</b>   | 23,273                                      |   | 5.3 %                                  | 14,622                        | 62.59 %   |
| Columbus   | 1,660                                       | 7   | 7.8 %                                  | 1,854*                        | 7.93 %  |
| Delaware city  | 10,208                                      | 1   | 6.7 %                                  | 4,252                         | 18.2 %  |
| Galena   | 132   | 28  | 7.6 %                                  | 10                            | 0.042 %   |
| Sunbury  | 1,057                                       | 13  | 3.9 %                                  | 272                           | 1.16 %  |
| Shawnee Hills  | 199   | 25  | 9.0 %                                  | 18                            | 0.077 %   |
| Powell   | 2,032                                       | 6   | 2.8 %                                  | 2,131                         | 9.12 %  |
| Ashley   | 500   | 20  | 6.2 %                                  | 10                            | 0.042 %   |
| Ostrander  | 156   | 27  | 5.1 %                                  | 36                            | 0.15 %  |
| Dublin   | 1,501                                       | 8   | 6.9 %                                  | 13**                          | 0.055%  |
| Westerville  | 2,311                                       | 5   | 3.7 %                                  | 140***                        | 0.59 %  |
| Total Incorporated areas   | 19,756                                      |   | 5.0 %                                  | 8,736                         | 37.4 %  |
| Total All Reporting Incorp. &<br>Unincorp. Areas in Delaware Co. | 43,029                                      |   |  | 23,358                        | 100 %   |

<sup>\*-</sup> Data available from 1995-2000 only

<sup>\*\*</sup> Data from 1999- 2000 only

<sup>\*\*\*</sup> Data from 2000 only

#### 9.3 Open Space Developments

The Delaware County townships that have experienced the most growth (Liberty, Orange, and Genoa) have access to county sanitary sewer. In 1996 the Ohio EPA amended their anti-degradation rules, making it more difficult to discharge treated effluents from sewage treatment plants to running streams. In order to facilitate centralized sewer systems that cannot discharge to running streams, the Ohio EPA now allows alternative centralized sewage treatment systems with appropriate design, and maintenance. The most popular alternative in Delaware County (three systems approved) is the standard tertiary treatment plant using the treated effluents to be spray irrigated onto an acceptable vegetated area, normally a golf course. The decision to permit such an alternative centralized treatment plant is the jurisdiction of the Delaware County Sanitary Engineer and the Ohio EPA. Since such planned developments normally require rezoning, the zoning decision is left to the township or county.

This change in sewer policy has led to a surge in "golf course" development in townships that previously had no sanitary sewer service. The developments use the golf course as an irrigation area for the treated wastewater. Houses are placed around the golf course, which enhances house lot prices. This form of cluster housing may be appropriate, depending on the gross overall density and other service demands. These golf course communities, with on-site centralized sewer facilities, may shift more housing starts to previously rural, non-sewer service areas. This could redistribute the housing geography in Delaware County.

For example, in 1997 Concord Township had no sanitary sewer service from Delaware County. Annual new home permits in Concord Township on large lots (one acre or larger) with septic systems averaged 30 homes per year from 1980-1997. Tartan Fields subdivision was approved in Concord Township in 1997. Tartan Fields is a Planned Residential Development using cluster single family homes on ¼ acre lots surrounding a golf course that is irrigated by treated effluents from a centralized sanitary sewer system built by the developer and dedicated to the county for ownership and maintenance.

In 1998, Scioto Reserve subdivision was approved in Concord Township. It also uses an on-site centralized sanitary sewer with treatment plant and irrigation of a golf course. With Scioto Reserve and Tartan Fields subdivisions under construction, Concord Township can expect its annual permits to increase again, perhaps to 200 per year. In the space of just 3 years, Concord Township may move from the 8<sup>th</sup> largest number of annual new home permits in the county to 4<sup>th</sup> largest due to these two new "golf course" developments.

The Dornoch Golf Course community in Berlin and Delaware townships was developed similar to Tartan Fields and Scioto Reserve with residential homes clustered around a golf course that also serves as a spray irrigation area for its wastewater treatment plant. However, in 2007, the Dornoch Golf Course owners filed for bankruptcy. A developer purchased the golf course land to develop a portion of it into additional residential units. The homeowners, who believed they had purchased homes on permanent open space, sued to prevent the loss of the open space which they believed would also degrade the value of their property and leave inadequate spray area for the sewer plant. Situations like this can be avoided by ensuring that legally binding documents are recorded to preserve open spaces as permanent, irrevocable no build zones.

NorthStar will be a 1700-acre, mixed-use golf course community that spans two townships, Berkshire and Kingston. The land lies east of I-71 and north of US 36/SR37. The Berkshire Township portion of NorthStar includes commercial (318 acres), a golf course and residential (654 units/521 acres). The Kingston Township portion includes a golf course and residential (651 units/866 acres).

Although NorthStar's proposed residential gross densities are less than the 2 developments in Concord (1.1 units/acre compared with 1.7 units/acre), the 1516 units could trigger new house construction rates that resemble the boom experienced in Concord Township over the last 3 years. NorthStar was approved at 723 units but the rezoning was overturned by voters in November 2003. The golf course 90 acres was rezoned to Recreational District in the Spring of 2004. A rezoning to Planned Residence District was ultimately approved for 651 units in 2005.

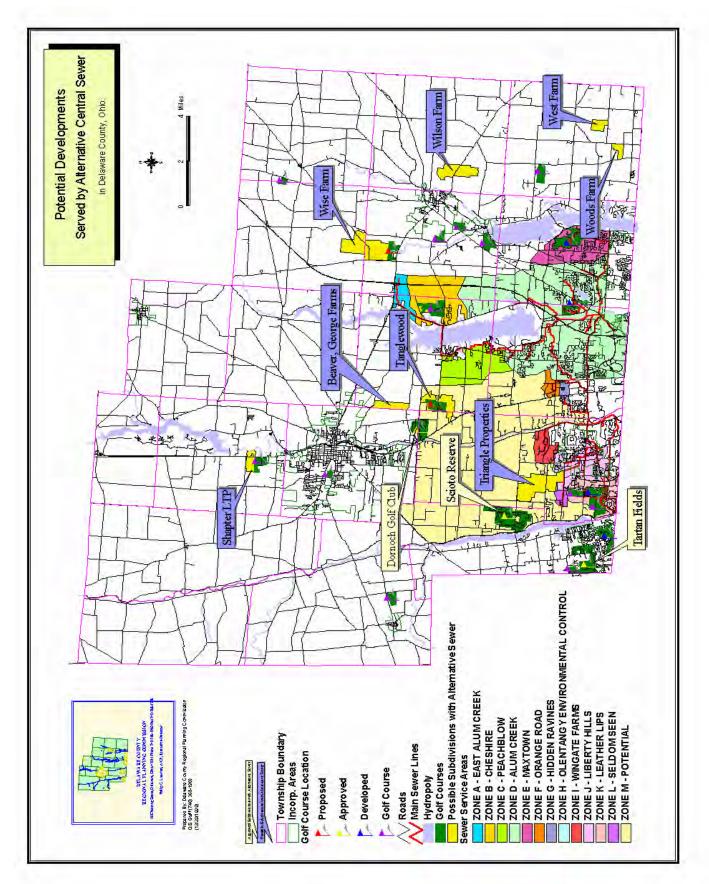
Table 9.3 Potential Developments in Delaware County with Alternative Centralized Sanitary

Sewage Disposal Provided On-Site (as of January, 2001)

| <b>Development</b> | Location        | <b>Township</b>    | Acres | # Units         | # Units         | <u>Potential</u> | <u>Status</u> |
|--------------------|-----------------|--------------------|-------|-----------------|-----------------|------------------|---------------|
|                    |                 |                    |       | <u>Approved</u> | <b>Proposed</b> | <u>Density</u>   |               |
| Tartan Fields      | Concord Road    | Concord            | 302   | 449             |                 | 1.49/ac          | Construction  |
| Dornoch            | US 23           | Liberty/Delaware   | 282   | 393             |                 | 1.39/ac          | Construction  |
| Scioto Reserve     | Home Road,      | Concord            | 695   | 1250            |                 | 1.8/ac           | Construction  |
|                    | Riverside Drive |                    |       |                 |                 |                  |               |
| Tanglewood         | Cheshire Road   | Berlin/Liberty     | 573   |                 | 1035            | 1.8/ac           | Withdrawn     |
| NorthStar          | N. Galena Road  | Kingston/Berkshire | 965   |                 | 1500            | 1.55/ac          | Pending       |
| West Farm          | Robins Road     | Harlem             | 175   |                 | 540             | 3.1/ac           | Optioned      |
| Woods Farm         | SR 605          | Harlem             | 128   |                 | 260             | 2/ac             | Optioned      |
| Totals             |                 |                    |       | 2,092           | 3,335           |                  |               |

Economics drive the Land Application System equation in Delaware County.

- Land prices for land with water and county sewer in Delaware County townships are approximately \$20,000 per raw acre for large tracts, which yield densities of 2 units per acre. Finished lot prices are \$40,000 \$50,000 in such developments.
- Land prices in agricultural areas of the county are \$2,500 to \$6,000 per acre for large tracts. Existing PRD Zoning permits cluster densities of 2-8 units (varies by township) per acre with "centralized" water and sewer, even in rural areas. This zoning was written 20 years earlier, when centralized sewer meant public sewer extended by the county. Such sewer extensions followed the major roadways where services and infrastructure could be provided.
- Land Application Systems can allegedly be constructed for \$5,000/unit on a large-scale basis (500 units or more). Delaware County sewer tap fees are \$5,900/unit. 1,000 units of housing on a Land Application System potentially saves the developer \$900,000 in Delaware County sewer tap fees.
- If developers can convince homebuyers to drive farther into the country and buy into a Land Application development, the developer can potentially pay less for land, save on sewer installation costs, and receive equivalent or greater densities, while marketing the "rural character" buyers demand.



# <u>9.4 Zero Discharge, On-Site Centralized Sanitary Sewer Systems-Planning Opportunity or Threat?</u>

For Ohio Townships, Land Application Systems can be both an opportunity and a threat.

- **Opportunity** #1 If cluster developments with Land Application Systems are proposed in areas anticipated to be served by county sewer, the Land Application Systems can augment the county's sewer capacity. This means additional areas for sewer users may be accommodated without future upgrades to the treatment plant. This can be a benefit.
- Opportunity #2 Agricultural (non-urban service) areas can use <u>properly worded</u> cluster development (such as the Farm Village Concept adopted by portions of Delaware and Franklin Counties) to transfer development rights from working farmland to adjacent cluster developments. The key to success of this concept is low density (one unit per two acres might be an appropriate gross density). Homes in such areas may be tightly clustered on smaller lots; the Land Application System can be used as irrigation on appropriate set-aside areas for agriculture and managed open space. This preserves farmland.
- Opportunity #3 Land application systems can also augment the water capacity of the potable water supply by reducing the summer lawn watering peak usage. By using a parallel gray water system to irrigate open space, lawns and golf courses, potable water demand could be reduced during droughts. Check with the OEPA on permitting lawns to be gray watered. This may not be allowed.
- Threat #1 Ohio townships should be cautious when using alternative sanitary sewer systems to achieve urban densities (greater than one unit per acre) in rural areas. These areas typically have no broad base of community services available to them (i.e. fire and police protection, public transportation, shopping, recreation, entertainment, and cultural activities). Every demand for such services requires trips in cars. Local roads typically cannot support significant trip increases for high density, large-scale development. The cost of upgrading farm to market roads to accommodate leapfrog development would likely exceed the benefits of the development.
- Threat #2 If gross densities of more than one unit per acre <u>are</u> allowed in rural (non-urban service) areas, more farms become targets for golf course development, and existing golf courses become targets for effluent irrigation easements. This does not preserve farmland, which has been identified as a legitimate government interest by the Ohio Legislature.
- Threat #3 Most municipal or county sewage treatment plants are built using general obligation bonds. Sewer tap fees typically make the bond payments. If developments construct their own treatment plant and avoid sewer tap fees, they may compete with a municipal or county sewer system. Property owners may incur increased taxes if a shortfall in tap fees occurs. Note: This does not appear to be a threat in Delaware County because there is more demand for county sewer than supply, so tap fees should continue to be collected regardless of Land Application System developments.

• Threat #4 If the county does not maintain the Land Application System treatment plant, it may be prone to failure. These LAS systems should be considered permanent. Delaware County prefers county ownership of the plant (by dedication) to assure proper design and maintenance. Home Owners Associations are notoriously under-financed and ill equipped to maintain or oversee maintenance of sewage treatment plants.

To prepare for potential suburban-density developments using Land Application Systems or other approved "centralized" on-site sewage disposal systems, Ohio townships should:

- Adopt up-to-date land use plans with recommended densities as the basis for their zoning.
- Permit Land Application Systems as accommodations to development <u>only</u> when the use and density conform to the comprehensive plan.
- Avoid gross tract densities greater than one unit per acre in truly rural areas. Even lower gross densities are appropriate in prime agricultural areas.
- Encourage county ownership and maintenance of the sewage system as a consideration in rezoning.

### 9.5 Future Housing Needs

In order to make future housing projections, a community might anticipate what services they can, or should, provide for what kinds of housing. The community should also anticipate further their share of the future population of the area and allocate the distribution of housing types.

Few rural communities attempt such an analysis, leaving the housing mix up to the real estate market and traditional power of zoning, which is seldom so analytical. In a high-growth area such as Delaware County, where all recent population projections have been low, it is impossible to anticipate what the county's share of the state's population will be, and distribute that amount among the townships, villages and cities. Furthermore, this is not a centralized economy, but a free market economy.

Ohio annexation law currently favors the cities. If landowners wish to annex and are contiguous, annexation is generally approved. Zoning battles occur along the edges of cities over density, which translates to land value, with developers sometimes playing one jurisdiction against the other to get the most density.

Where the possibility of annexation exists, townships cannot be certain of their future boundaries. For that reason, it is impossible to assess fair share allocations of housing to be provided by the township when a city or village, which may offer superior services, may annex some of that land and provide housing at a higher density. Higher density housing and a wider range of housing types can be provided in Delaware City than in the township.

A more pragmatic approach to housing distribution is to determine:

- How the community wants to look when it is all built out (vision);
- What services it can reasonably provide;
- What its reasonable and fair share of the mix of population would be.

Kingston Township's future housing mix and densities will be shaped by the vision of the community when it is all built out. Decision-making will be influenced by the available utilities, natural resources and limited services the township can economically provide. This is reflected on the Comprehensive Land Use Plan in Chapter 1.

#### **9.6 Housing Policies**

Kingston Township has established goals of maintaining a mostly single family residential housing mix due to its lack of sanitary sewer and the township's desire to maintain a sense of rural character. Kingston Township's share of Delaware County housing starts is likely to remain small, until the NorthStar development begins, which will significantly increase the number, pace and variety of housing offered. The Township should continually evaluate its housing mix as new developments are proposed.

Columbus and Delaware City are the primary multi-family providers in the Delaware County housing market. They offer higher densities than the townships. The City of Delaware has recently passed a high-density apartment district that will compete with Columbus for land yield (approximately 15 units per acre). The townships cannot compete in the range of urban services with the cities in Delaware County (Delaware, Columbus, Westerville and Powell), which have the economic and service clout to provide the larger share of the multi-family market.

For this reason, the townships should not be expected to provide large percentages of their future land use mix in multi-family housing. In those areas where there is access to major road networks, in transition to commercial uses, or as part of large planned developments, multi-family housing can and will occur in the townships. Kingston Township could receive multi-family housing requests as part of larger planned developments. It must evaluate its housing mix in light of all state and federal housing laws and binding court decisions. The census does not have any data for housing conditions. This was a windshield survey performed by the RPC staff. That information is in Table 9.1. There are other census data for housing available on our website (<a href="https://www.dcrpc.org">www.dcrpc.org</a>).

# Chapter 10

# **General Economic Conditions**

Land development and fulfillment of the comprehensive plan depend on a strong local economy. Within the national economy there are regional economies moving forward or slumping due to local conditions. Delaware is one of Ohio's most affluent counties, with one of the lowest unemployment rates. The central Ohio economy (especially Franklin and Delaware County) drives Kingston Township's economy.

In March 2001, the United States economy slipped into a national recession. Despite low interest rates and low inflation rates, the long period of expansion from 1991 to 2001 was ended. The effects of the September 11, 2001 terrorist attacks on the United States deepened the economic downturn. A 12/21/01 report by the U.S Commerce Department declared the US economy "turned in its weakest performance in a decade in the third quarter, shrinking at an annual rate of 1.3 %" (Columbus Dispatch, 12/22/01).

#### Signs of economic weakness:

- U.S. unemployment rate jumped from 4% in August, 2000 to 5.7% November 2001 (<u>Columbus Dispatch</u>).
- Ohio's unemployment rate rose from 4.2% in July, 2000 to 4.7% in November 2001 (<u>Columbus Dispatch</u>).
- Central Ohio unemployment rose from 2.4% (11/00) to 3.2% (11/01) (Business First, 1/11/02)
- Central Ohio Labor Force was at 904,300, a decrease from July 2001 high levels of approximately 918,000, but still ahead of the 12 month low of 871,800 in December 2000. (Business First, 1/11/02)
- Central Ohio Labor Force (excluding Union County) showed an average of 41 weekly work hours, compared to 42.7 weekly work hours in October 2000. (Business First 1/11/02).
- Delaware County unemployment rose from 1.9% (August 2000) to 2.7% (November 2001) (Columbus Dispatch), but still remains one of the lowest unemployment rates in Ohio.
- Greater Columbus industrial vacancy rates rose from 7.9% first quarter 1998 to 10.18% fourth quarter 2001 (Columbus Business First Market Report, 1/18/02).
- Greater Columbus area office vacancy rates are expected to reach 10-15% in 2002 (Columbus Business First Market Report, 1/18/02)

Although economic data from the 2000 U.S. census is not yet available (February 2002), there are local indicators that presage a re-emergence of the strong Delaware County economy.

### Signs of economic strength:

- Delaware County Per Capita Income was \$35,042 in 1999, the highest in the State. Its' 11.29% increase from 1994-96 was the fastest growing per capita income of any county in Ohio and 52<sup>nd</sup> in the USA (Ohio Development Department web site).
- Polaris Fashion Place Mall opened in November 2001, with record-breaking sales tax receipts. The mall is a destination for central Ohio shoppers, bringing new dollars into Delaware County. Polaris Centers of Commerce is the largest office park in central Ohio, with 3.8 million square

feet of office space, 28 buildings and 900 of 1200 acres built. The JP Morgan Chase Corporate Office Center (Polaris) is the largest office building in central Ohio (2 million square feet).

- Affluence is the mark of the Polaris region. Within a 10-mile radius of Polaris are 200,000 households with a median household income of \$54,400. The upscale Easton Mall/office-park, by comparison, counts 300,000 homes with a \$40,600 household median (Business First).
- While new platting activity in the Delaware County townships slowed in November and December 2001, new construction continued, fed by cheap mortgage rates of 6% 7.5% for fixed 30-year loans. Final 2001 building permit tallies for the unincorporated Delaware County townships showed 2144 new building permits, the largest number ever in Delaware County. Kingston Township was the number seven provider, with 37 new homes.
- Kroger built a \$69 million, 750,000 square foot food distribution warehouse on US 36 in the city of Delaware, at Glenn Road. The facility will create 276 new full-time jobs, and retain/transfer 387 full time jobs, paying an average \$13.00 per hour. The state of Ohio "estimates the new project will generate \$587,221 in additional corporate franchise and individual income taxes in the next 10 years.
- 21 of 52 Greater Columbus Stocks (as of January 9, 2002, <u>Business First</u> newspaper) were at, or within 10% of their 52 week highs. Many of these 21 companies have a presence in Delaware County (Bob Evans; Dominion Homes; Glimcher Realty Trust; Greif Brothers; Huntington Bancshares; Max & Erma's; M/I Schottenstein; Wendy's International).

### **10.1** Employment by Industry in Delaware County

Delaware County has a broad-based economy, as described by employment sectors in Table 10.1.

# Table 10.1 Employment by (covered) Industry in Delaware County, 2000

(Source: Ohio Development Department, OBES/LMI place of work data) \*This does not include all employment

| 6.1.1.1 Employment Category | 2000 Employees | % of Total |
|-----------------------------|----------------|------------|
| Wholesale and Retail Trade  | 10,259         | 29.1%      |
| 2. Services                 | 8,831          | 25.0%      |
| 3. Manufacturing            | 4,901          | 13.9%      |
| 4. Government               | 4,618          | 13.1%      |
| 5. Finance, Insurance Real  | 3,027          | 8.6%       |
| Estate                      |                |            |
| 6. Construction             | 2,446          | 6.9%       |
| 7. Transportation/Utilities | 553            | 1.6%       |
| 8. Agriculture, Forestry,   | 543            | 1.5%       |
| Fishing                     |                |            |
| 9. Mining                   | 120            | 0.3%       |

<u>Table 10.2 Major Employers, Delaware County</u> (Source: Delaware County Economic Dev.)

| <b>Employer</b>               | Employment Sector                   | # Employees |
|-------------------------------|-------------------------------------|-------------|
| Advance Auto Parts            | Trade (vehicle parts)               | 304         |
| American Showa                | Manufacturing (vehicle suspensions) | 375         |
| Bank One                      | Finance                             | 1,000       |
| Cigna                         | Insurance                           | 450         |
| Delaware City BD of Education | Government                          | 559         |
| Delaware County               | Government                          | 810         |
| Grady Memorial Hospital       | Service (medical)                   | 657         |
| Meijer                        | Trade (retail)                      | 348         |
| Olentangy Local Schools       | Government                          | 672         |
| Ohio Wesleyan University      | Service (Higher Education)          | 495         |
| PPG Industries                | Manufacturing (paint)               | 563         |
| Wal Mart Store #2725          | Trade (retail)                      | 465         |

# **10.2 Kingston Township Economy**

Kingston Township's economy was historically based on agriculture. Some commercial land uses have been developed in the township.

Table 10. 3 Businesses in Kingston Township, by Windshield Survey, June 2001:

| Business Name                         | Business Type      |
|---------------------------------------|--------------------|
| Product Tooling Inc.                  | Machine shop       |
| Dale's Tree Farm                      | Tree farm          |
| Lazy L Nursery                        | Nursery            |
| Basham's Retreat                      | Campground/retreat |
| Taylor Tree Farm                      | Tree Farm          |
| W. W. Excavating                      | Excavating         |
| Country Cabin                         |                    |
| Walnut Country Club (Porter/Kingston) | Golf course        |

Kingston Township has the possibility for additional economic development on or with access to SR 521 and SR 61. A potential future interchange at I-71/SR 521 could provide additional opportunities for commercial tax base. Access management (limiting left turn movements and combining curb cuts) will be important to safe traffic flow. Because there is currently limited county sanitary sewer service in Kingston Township, commercial and industrial development is likely to be limited to those uses that do not need sewer.

If lands could be served by either County sewer or by a privately constructed OEPA approved centralized sanitary sewer system that is dedicated to the county for ownership and maintenance, then the commercial and industrial tax base could be expanded. The 1700-acre NorthStar development in Kingston and Berkshire Township will utilize land application of the treated effluent from a central sanitary treatment plant. Although the proposed residential densities are a third of the densities in Polaris, the 318 acres of planned commercial in Berkshire is equivalent to two regional shopping malls.

## **10.3** Agricultural Component of the Delaware County Economy

Agriculture is still the largest land use (by acreage) in Delaware County. It is also still a significant land use in Kingston Township. In 1998 the Delaware County Commissioners appointed an Agricultural Preservation Task Force to study the issue of loss of farmland and to prepare a strategy for agricultural preservation. The Task Force determined that:

"Over a 15 year period, 1982-1997, agriculture in Delaware County has been constant in that it is still a family owned industry and it is still a vibrant economical resource with sales of over \$64 million in 1997. However, there has also been a great amount of change in the industry over those 15 years. The number of farmland acres in Delaware County has continually declined. In 1997, 160,770 farm acres remained in Delaware County. The farmland acres that remain are no longer owned by the farm operators, but are rented from someone outside the farming operation. To compensate for this loss of farmland, farmers have turned to producing higher value crops, added value products and direct marketing. Farm commodity production is becoming polarized with the loss of livestock operations and a move toward crop production. This loss of diversity will increase the chances that a commodity specific issue will dramatically impact the total Delaware County agricultural sector" (page 20, Delaware County Farmland Preservation Plan, June 2000).

### **Table 10.4 Amount of Agricultural Land in Delaware County**

Delaware County- Total Acreage
 Delaware Co. Agricultural Acres (2000-Ohio Dept. Dev.)
 Percent of Delaware County Acres in Agriculture
 60%

• Ohio Acreage in Agriculture, 2000 14,900,000 acres

• Delaware County's Share of Total Ohio Agricultural Acres 1.2 %

# Table 10.5 Census of Agriculture, Loss of Farmland in Delaware County

Source: 1995 Ohio Dept. of Agriculture Annual Report, 1997 Census of Agriculture County Profile

| Period    | Land in Farms |
|-----------|---------------|
| 1992-1997 | -5 %          |
| 1982-92   | -10 %         |
| 1974-92   | -11 %         |
| 1964-92   | -18 %         |
| 1954-92   | -31 %         |
| 1945-92   | -39 %         |

# Table 10.6 Census of Agriculture, Land Use Change 1950-1997 in Delaware County

Source: 2000 Ohio Dept. of Agriculture Annual Report

| Land Use              | % Change |
|-----------------------|----------|
| Cropland              | -18 %    |
| Permanent Pasture     | -92 %    |
| Woodland Not Pastured | -39 %    |
| Other Land            | -60 %    |
| Total Land in Farms   | -38 %    |

A farm is defined as a place with annual sales of agricultural commodities of \$1,000 or more. Agriculture represented 770 farms in 1999 according to the Delaware County Farm Bureau. The 1997 Census of Agriculture reports a much lower number of 627 farms. These employees (most are family farmers) represent an estimated 1.9% of the total Delaware County labor force (893 farm workers/47,230 total labor force).

In 1997, the total value of all non-farm sector sales/receipts/shipments in Delaware County was \$3,506,597,000 (Source: Delaware County Economic Development/US Census Bureau County Business Patterns and Economic Conditions). Total 1999 cash receipts for all agricultural production in Delaware County was \$47,979,000. This represented 1.3% of the total sales/receipts for the county.

The US Bureau of Economic Analysis reported in May 1999 that non-farm personal income in Delaware County in 1997 was \$2,625,058,000, and Farm income was \$22,431,000.

Table 10.7 Delaware County Agricultural Comparison: 1994 & 2000

|                          | 1994            | 2000            |
|--------------------------|-----------------|-----------------|
| Number of Farms*         | 710             | 770             |
| Average Farm Size        | 254 ac          | 227             |
| Total Land in Farms      | 180,000 ac      | 175,000         |
| Fertilizer Deliveries    | 10,615 tons     | 21,534 tons     |
| Commercial Grain Storage | 562,000 bushels | 317,000 bushels |
| Capacity                 |                 |                 |

<sup>\*</sup> A farm is defined as a place with annual sales of agricultural commodities of \$1,000 or more. Source: 1995 and 2000 Ohio Department of Agriculture Annual Report

Table 10. 8 Highlights of Agriculture: 1997 and 1992

| 1997 CENSUS OF AGRICULTURE     |            |            |
|--------------------------------|------------|------------|
| HIGHLIGHTS OF AGRICULTURE: 1   | 997 AND    |            |
| 1992<br>DELAWARE COUNTY, OHIO  |            |            |
| Item                           | ΔΙΙΙ       | FARMS      |
| Item                           | ALL        | AINIO      |
|                                | 1997       | 1992       |
|                                |            |            |
| Farmsnumber                    | 627        | 688        |
| Land in farmsacres             | 16077      | 16901      |
|                                | 0          | 7          |
| Average size of farmacres      | 256        | 246        |
| Value of land and buildings@1: |            |            |
| Average per farmdollars        | 72112<br>5 | 59044<br>4 |
| Average per acredollars        | 3019       | 2352       |
| Estimated market value of all  |            |            |
| Machinery and equipment@1      |            |            |
| Average per farmdollars        | 53398      | 52406      |
| Farms by size:                 |            |            |
| 1 to 9 acres                   | 56         | 69         |
| 10 to 49 acres                 | 206        | 216        |
| 50 to 179 acres                | 175        | 200        |
| 180 to 499 acres               | 101        | 105        |
| 500 to 999 acres               | 53         | 55         |
| 1,000 acres or more            | 36         | 43         |
| Total croplandfarms            | 578        | 640        |
| Acres                          | 14451<br>1 | 15134<br>7 |

Table 10. 9 Delaware County Agricultural Production: Comparison, 1994 & 2000

| Crop     | 1994 Acres | 2000 Acres | 1994 Production | 2000 Production | 2000 Rank* |
|----------|------------|------------|-----------------|-----------------|------------|
| Corn     | 43,300     | 42,500     | 5,000,600 Bu    | 6,391,100 Bu    | 35         |
| (grain)  |            |            |                 |                 |            |
| Soybeans | 72,200     | 71,900     | 2,255,700 Bu    | 2,967,900 Bu    | 33         |
| Wheat    | 18,800     | 12,800     | 969,100 Bu      | 933,500 Bu      | 32         |
| Oats     | -          | -          | -               |                 |            |
| Hay      | 8,300      | 8,600      | 21,100          | 28,500 ton      | 58         |

\*2000 Production rank out of Ohio's 88 counties

Source: 1995 and 1999 Ohio Department of Agriculture Annual Report

Table 10. 10 Delaware County Cash Receipts from Marketing of Farm Commodities

| Crop                        | 1994         | 1999         |
|-----------------------------|--------------|--------------|
| Corn                        | \$13,921,000 | \$10,607,000 |
| Soybeans                    | 21,208,000   | 14,674,000   |
| Wheat                       | 3,353,000    | 1,917,000    |
| Oats and Hay                | 633,000      | 649,000      |
| Other Crops                 | 14,393,000   | 13,581,000   |
| Dairy and Milk              | 2,687,000    | 1,955,000    |
| Cattle and Calves           | 1,828,000    | 1,231,000    |
| Hogs and Pigs               | 2,808,000    | 2,787,000    |
| Poultry and other Livestock | 953,000      | 578,000      |
| Total                       | \$61,784,000 | \$47,979,000 |
| Average per farm            | \$84,635     | \$62,311     |

Source: 1995 and 2000 Ohio Department of Agriculture Annual Report

#### **Observations about the Agricultural Impact on Delaware County's Economy in 2000:**

- 60% of the land was in agriculture
- 1.9% (estimated) of the labor force was in agriculture
- 1.3% of the total cash county receipts for production of goods and services was in agriculture
- .85 % (less than one percent) of total county personal income was in agriculture
- Agriculture is still a large land use, but it is becoming a smaller portion of the local economy.

#### 10.4 Local Housing and Real Estate Market

Delaware County's housing market had been strong for two decades until recently. The townships have primarily provided upscale single family housing, while the cities of Delaware and Columbus have provided more moderate income and middle class housing.

The Mid Year Greater Columbus Blue Chip Economic Forecast (August 16, 2000, Greater Columbus Chamber of Commerce) warned that the declining ability of residents to find affordable housing threatens the Greater Columbus economic expansion. As reported in <u>Business First</u> (8/25/00) " even with high average incomes and large down payments, the majority of newly built homes in Greater Columbus are economically out of reach for most regional residents. A household making \$40,300, the average income for the region, and placing a 20 percent down payment on a home could afford only 4 percent of the area's new houses."

In the townships of Delaware County (see Summary Statistics of Rezoning and Subdivision, Chapter 3) there were 12,969 lots in the subdivision "pipeline" for approval on 12/31/2001. Based upon a three-year average absorption of 1,976 new lots in the unincorporated townships, the 12,969 house-lots represent a 6.5 year supply. If too much high-end housing is offered to the market, and if demand becomes reduced by weakness in the local, state and national economy, the Delaware County real estate economy could suffer.

#### **10.5 Other Economic Indicators**

- Delaware County's poverty rate was the lowest in Ohio in 1999 (3.6%), one-third that of Franklin County (11.6%). All other central Ohio counties average 7% (Source: Census Bureau).
- According to the 2000 Census, Delaware County has the highest educational attainment rate of any central Ohio county. 92.9% of the population is a high school graduate, 41% has at least a Bachelor's degree, and 12.9% of the population has a Master's or higher college degree. By comparison, combined college level attainment in other counties is: Franklin: 31.8%; Fairfield: 20.8%; Licking: 18.4%; Madison: 13%; Pickaway: 11.4%; and Union: 15.9%.
- Delaware County ranks third in the state of Ohio's 88 counties in the highest per capita property taxes, with 1997 revenues of \$1,063.86 per capita.

#### 10.6 Economic Development in Delaware County

#### **Enterprise Zones**

Delaware County's established enterprise zone program provides tax abatements in return for guaranteed job creation. The enterprise zone program has been successful in creating 1,346 new jobs at 31 firms receiving abatements as of 12/31/00 (source, Ohio Dept. of Development, Ohio Enterprise Zone Program Annual Report for 2000). The four enterprise zones in Delaware County are in Orange Township, city of Delaware, Westerville, and the village of Sunbury.

Table 10.11 Summary of Enterprise Zone Data, 2000

Ohio Dept. of Development, Ohio Enterprise Zone Program Annual Report for 2000

|                        |            | Jobs      |        |           |        |                     | Investment (000's) |               |              |                   |               |
|------------------------|------------|-----------|--------|-----------|--------|---------------------|--------------------|---------------|--------------|-------------------|---------------|
|                        |            | Retained  |        | Created   |        | New Payroll (000's) |                    | Real Property |              | Personal Property |               |
|                        | Agreements | Committed | Actual | Committed | Actual | Committed           | Committed Actual C |               | Actual       | Committed         | Actual        |
| CITY OF<br>DELAWARE    | 18         | 329       | 345    | 867       | 534    | \$ 21,404.00        | \$ 13,525.00       | \$ 29,570.00  | \$ 40,101.00 | \$ 110,062.00     | \$ 81,383.00  |
| VILLAGE OF<br>SUNBURY  | 3          | 0         | 25     | 94        | 69     | \$ 1,931.00         | \$ 1,374.00        | \$ 3,726.00   | \$ 5,749.00  | \$ 0.00           | \$ 10,956.00  |
| ORANGE<br>TOWNSHIP     | 9          | 206       | 329    | 1,005     | 578    | \$ 25,404.00        | \$ 20,124.00       | \$ 26,643.00  | \$ 36,280.00 | \$ 66,945.00      | \$ 108,286.00 |
| CITY OF<br>WESTERVILLE | 1          | 0         | 104    | 100       | 165    | \$ 1,700.00         | \$ 4,607.00        | \$ 3,650.00   | \$ 4,609.00  | \$ 31,000.00      | \$ 16,157.00  |
| County Totals:         | 31         | 535       | 803    | 2,066     | 1,346  | \$ 50,439.00        | \$ 39,629.00       | \$ 63,589.00  | \$ 86,738.00 | \$ 208,007.00     | \$ 216,782.00 |

The Enterprise Zone Program is having a significant impact on Ohio's economy and remains an integral part of the economic development strategy of many local governments (Ohio Dept. of Development, Ohio Enterprise Zone Program Annual Report for 2000).

# 10.7 Kingston Township Future Economic Development

Kingston Township could:

- Consider future commercial development served by on-site (i.e. zero discharge, land application sewer systems) or expanded County sewer service.
- Prevent the oversupply of commercial property before there is an apparent market need by zoning only for planned commercial uses when there is a known end user. Phasing of large projects helps the incremental absorption of the land costs to the developer and avoids oversupply of product.

# Chapter 11

# **Roads and Transportation**

# 11.1 General Information

Kingston Township roads originally were established for farm access in the early nineteenth century. These original township roads continue to be the only avenue for local transportation. With the exception of a few small residential subdivisions, all development in the township has taken place along these original farm-to-market roads. As the area develops, these historic roads are changing function. What was once unpaved, narrow horse and buggy tracks are now paved, narrow, township and county roads used as collector and arterial streets. As traffic counts increase, roadway improvements and new roads will be needed.

# Map 11.1 Kingston Township Rural Roads



## 11.2 Bus Service

Automobiles are the primary means of transportation in Kingston Township. The Delaware Area Transportation Authority (DATA) offers an on-call non-scheduled bus service from point-to-point in the county. A Central Ohio Transit Authority (COTA) linkage from Crosswoods delivers bus riders to any COTA stop in Franklin County. As the township grows, new transportation options should be considered.

#### 11.3 Bikeways

No bikeways exist in the township. The Mid Ohio Regional Planning Commission (MORPC) has prepared a regional bikeway plan for Franklin and Delaware Counties, in hopes of obtaining Transportation Equity Act 21 funding. The bikeway plan recommends three bikeways along traditional roads and rail rights-of way in Kingston Township.

### Map 11.2 MORPC Bikeway System Draft

- North South #7, which follows North Galena Road through the entire township.
- North South #8, which follows Carter's Corner Road to I-71 and then continuing on Clark Road to the north.
  - East West #2, which follows Kilbourne Road.



#### 11.4 Road Maintenance

Kingston Township roads are maintained by various authorities:

- Federal and state roads are maintained by District 6, Ohio Department of Transportation.
- The Delaware County Engineer maintains county roads Carter's Corner, North Galena, North
- 3 Bs and K, Monkey Hollow and Kilbourne Roads...
- The Township maintains township roads.
- Homeowner associations maintain private subdivision roads.
- Common Access Driveways (CADs) are 12- foot wide private streets used in small subdivisions (2-5 lots), which are maintained by the lot owners. Individual private driveways are maintained by owners.



Wilson Road.

#### 11.5 Federal and State Roads

- **a.**) **State Route 521** Approximately five miles of S. R. 521, a two-lane state highway, runs from Kilbourne in Brown Township to Olive Green in Porter Township. This road is surrounded predominately by agriculture and large lot single family residences.
- **b.**) **Interstate 71 -** There are approximately six miles of I-71 through the township. Currently, there are no interchanges with access directly to the township. This four-lane divided highway is heavily traveled with trucks and passenger vehicles carrying interstate commerce.
- **c.**) **State Route 61** Approximately 2.7 miles of two-lane State Route 61 passes through the southeastern portion of the Township.

Kingston Township is negatively impacted from traffic on S. R. 36/37 from the I-71 interchange in Berkshire Township. Inappropriate strip commercial development with multiple access points on

State highways could damage their ability to function. Proper access management practices should be used to preserve the function of these roads.

# 11.6 County Roads

The Delaware County Engineer maintains five county roads (18.05 miles) in Kingston Township (see Table 9.1).

Table 11.1 County Roads and Conditions in Kingston Township, 1998

| # | 7 Road Name        | Surface Width | Road Width | Surface Type | Road Length (miles) |
|---|--------------------|---------------|------------|--------------|---------------------|
| 3 | Carter's Corner    | 16            | 20, 22     | G2, H2       | 4.22                |
| 3 | North Galena Road  | 16, 18        | 22, 24     | G2           | 5.38                |
| 3 | N. 3 Bs and K Road | 17            | 21         | H2           | 3.27                |
| 5 | Monkey Hollow Road | 16            | 22         | H2           | .27                 |
| 6 | Kilbourne Road     | 18            | 24, 32     | H2, I        | 4.91                |

Road carrying capacity is determined by the width of the paved surface and the number of lanes. The speed of the road is generally determined by such factors as road width, pavement conditions, curve radii, topography, number of driveways and cross traffic movements.

Future land development will lower the level of service (LOS) of county roads. Upgrades will be needed to keep pace with the increased traffic counts. The DCRPC has estimated future population per square mile based on densities (see Table 11.2).

Table 9.2 Dwelling Unit Density Per Acre and the Equivalent Population per Square Mile

| # Units/acre x | #Persons/unit x | % Developable/ac x | Acres/ Square Mile = | Population/<br>Square Mile |
|----------------|-----------------|--------------------|----------------------|----------------------------|
| .2             | 2.7             | 95 %               | 640                  | 328                        |
| .5             | 2.7             | 90 %               | 640                  | 778                        |
| 1              | 2.7             | 90 %               | 640                  | 1555                       |
| 1.25           | 2.7             | 85 %               | 640                  | 1836                       |
| 1.5            | 2.7             | 85 %               | 640                  | 2203                       |
| 2              | 2.7             | 85 %               | 640                  | 2938                       |
| 3              | 2.7             | 80 %               | 640                  | 4147                       |
| 4              | 2.7             | 80 %               | 640                  | 5530                       |
| 5              | 2.7             | 80 %               | 640                  | 6912                       |
| 6              | 2.7             | 80 %               | 640                  | 8294                       |

Based upon a similar analysis, engineers can anticipate the size of road needed to serve a calculated density of population. A generalized table for road size versus population density at full build-out is provided in Table 11.3 (Author: Scott Pike, Delaware County Engineer's office).

Table 11.3 Road Size and Type Needed to Serve Specific Population Density/Square Mile

| Density<br>(# Units/ac) | Average Annual<br>Daily Trips/<br>Square Mile | Directional<br>Design Hour<br>Traffic | Road<br>Class<br>Required | Level<br>Of<br>Service | Calculation<br>#Lanes Each<br>Direction | Actual<br>#Lanes | Width Needed<br>(Feet) * |
|-------------------------|---|---------------------------------------|---------------------------|------------------------|---|------------------|--------------------------|
| .2                      | 1,220   | 139                                   | Local                     | A                      | 0.24                                    | 2                | 38'                      |
|                         | ,   |                                       |                           | C                      | 0.11                                    | 2                | 38'                      |
|                         |   |                                       |                           | E                      | 0.08                                    | 2                | 38'                      |
| .5                      | 2,880   | 328                                   | Collector                 | A                      | 0.56                                    | 2                | 38'                      |
|                         | ·   |                                       |                           | C                      | 0.27                                    | 2                | 38'                      |
|                         |   |                                       |                           | Е                      | 0.19                                    | 2                | 38'                      |
| 1                       | 5,760   | 655                                   | Arterial                  | A                      | 1.12                                    | 2                | 38'                      |
|                         |   |                                       |                           | C                      | 0.54                                    | 2                | 38'                      |
|                         |   |                                       |                           | Е                      | 0.38                                    | 2                | 38'                      |
| 1.25                    | 6,800   | 774                                   | Arterial                  | A                      | 1.32                                    | 4                | 62'                      |
|                         |   |                                       |                           | C                      | 0.64                                    | 2                | 38'                      |
|                         |   |                                       |                           | Е                      | 0.45                                    | 2                | 38'                      |
| 1.5                     | 8,160   | 928                                   | Arterial                  | A                      | 1.58                                    | 4                | 62'                      |
|                         |   |                                       |                           | C                      | 0.76                                    | 2                | 38'                      |
|                         |   |                                       |                           | Е                      | 0.54                                    | 2                | 38'                      |
| 2                       | 10,880  | 1,238                                 | Arterial                  | A                      | 2.11                                    | 4                | 62'                      |
|                         |   |                                       |                           | C                      | 1.02                                    | 2                | 38'                      |
|                         |   |                                       |                           | E                      | 0.72                                    | 2                | 38'                      |
| 3                       | 15,360  | 1,747                                 | Arterial                  | A                      | 2.98                                    | 6                | 86'                      |
|                         |   |                                       |                           | C                      | 1.43                                    | 4                | 62'                      |
|                         |   |                                       |                           | E                      | 1.02                                    | 2                | 38'                      |
| 4                       | 20,480  | 2,330                                 | Arterial                  | A                      | 3.97                                    | 8                | 110'                     |
|                         | ·   |                                       |                           | C                      | 1.91                                    | 4                | 62'                      |
|                         |   |                                       |                           | Е                      | 1.36                                    | 4                | 62'                      |
| 5                       | 25,600  | 2,912                                 | Arterial                  | A                      | 4.96                                    | 10               | 134'                     |
|                         |   |                                       |                           | C                      | 2.39                                    | 6                | 86'                      |
|                         |   |                                       |                           | Е                      | 1.70                                    | 4                | 62'                      |
| 6                       | 30,720  | 3,494                                 | Arterial                  | A                      | 5.96                                    | 12               | 158'                     |
|                         |   |                                       |                           | C                      | 2.87                                    | 6                | 86'                      |
|                         |   |                                       |                           | Е                      | 2.04                                    | 4                | 62'                      |

### \*With 12' lanes and 7'shoulder each side

# **Assumptions:**

- 1. 8% trucks
- 2. Level terrain
- 3. # vehicles per hour per lane = SFL:

LOS A 650

LOS C 1,350

LOS E 1,900

# 11.7 Township Roads

The Township currently maintains twelve roads (17.59 miles), two of which are major or minor collectors. According to the Delaware County Engineer, all township and county local and collector roads should be at least 20 feet of surface width with an additional shoulder of five to seven feet. Many county and township roads do not meet this standard.

County standards permit a Low Volume, Low Density (LVLD) road width of 18' of pavement within a 50 foot right of way provided that there are no more than 15 homes served, and no possibility of future connection.

**Table 11.4 Kingston Township Roads 1998** 

| # | Road Name        | Surface<br>Width | Road<br>Width  | Surface<br>Type | Road<br>Length<br>(miles) |
|---|------------------|------------------|----------------|-----------------|---------------------------|
| 3 | Clark Road       | 18               | 22, 32         | E2              | 1.33                      |
| 5 | Stockwell Road   | 16               | 16             | F               | .09                       |
| 5 | Wilson Road      | 18               | 20, 22         | G1, H1          | 3.06                      |
| 6 | Beacom Road      | 8, 12            | 14, 20         | E2              | .85                       |
| 6 | Blue Church Road | 14, 18           | 20, 22, 24, 26 | H2, E2          | 4.71                      |
| 6 | Blaney Road      | 18               | 22             | H2              | .43                       |
| 6 | Rosecrans Road   | 18               | 20, 22         | H2              | 1.64                      |
| 7 | Twigg-Hupp Road  | 18               | 22, 28         | H2, X           | 2.04                      |
| 7 | Todd Street      | 18               | 18, 22         | G1              | 2.24                      |
| 7 | Berkshire Road   | 18               | 18, 20, 28     | H2              | .75                       |
| 2 | Basham Lane      | 14               | 18             | H2              | .22                       |
| 3 | Wildwood Drive   | 20               | 32             | I               | .23                       |

Source: ODOT Road Inventory 1999 \*Field checked 02/28/01

# **Notes: Surface Types**

- A Primitive Road
- B Unimproved Road
- C Graded and drained earth road
- E2 Gravel or stone road

- F Bituminous surface treated road
- G1 Mixed bituminous combined base with surface under 7"
- G2 Mixed bituminous combined base with surface 7" or more
- H1 Bituminous Penetration combined base under 7"
- H2 Bituminous penetration combined base 7" or over
- I Bituminous concrete sheet asphalt or rock asphalt road
- J Portland Cement Road
- K Brick Road
- L Block Road

# **Table 11.5 Kingston Township Bridge Inspections**

(Source: Delaware County Engineer's Office Bridge Inspection Report 2006)

| Road Name       | Bridge #  | Year Built | Intersected<br>Features  | Type | # Span | Length | Horizontal<br>Clearance | Year<br>Inspected | Sufficiency<br>Rating * |
|-----------------|-----------|------------|--------------------------|------|--------|--------|-------------------------|-------------------|-------------------------|
| Blue Church     | 067-1.51  | 1930       | No Name<br>Ditch         | 321  | 1      | 37     | 24                      | 2006              | 83.5                    |
| Blue Church     | 067-2.83  | 2003       | Br. Little<br>Walnut Ck. | 195  | 1      | 22     | 32                      | 2006              | 99.9                    |
| Carter's Corner | 033-5.21  | 1996       | Br. Little<br>Walnut Ck. | 321  | 1      | 30     | 30.8                    | 2006              | 96.9                    |
| Carter's Corner | 033-5.46  | 1992       | Little<br>Walnut Ck.     | 221  | 2      | 73     | 32                      | 2006              | 96.9                    |
| Carter's Corner | 033-6.40  | 1930       | Little<br>Walnut Ck.     | 321  | 1      | 32     | 22                      | 2006              | 40.1 **                 |
| Clark           | 033-9.75  | 1984       | No Name<br>Ditch         | 395  | 3      | 20     | 20                      | 2006              | 99.7                    |
| Clark           | 033-10.00 | 1987       | Br. Little<br>Walnut Ck. | 321  | 1      | 16     | 24.6                    | 2006              | 78.8                    |
| Clark           | 033-10.45 | 1930       | No Name<br>Ditch         | 221  | 1      | 28     | 24                      | 2006              | 77.3                    |
| Kilbourne       | 065-5.01  | 1988       | Sheets<br>Ditch 318      | 195  | 1      | 14     | 28.5                    | 2006              | 98.9                    |
| Kilbourne       | 065-6.54  | 1999       | Br. Little<br>Walnut Ck. | 321  | 1      | 35     | 32                      | 2006              | 99.7                    |
| North Galena    | 034-9.03  | 1994       | Todd Run                 | 321  | 1      | 19     | 27.9                    | 2006              | 95.4                    |
| North Galena    | 034-10.16 | 1999       | Alum Creek               | 131  | 3      | 199    | 32                      | 2006              | 99.9                    |
| Rosecrans       | 069-0.31  | 1930       | No Name<br>Ditch         | 111  | 1      | 16     | 18.2                    | 2005              | 99.9                    |
| Rosecrans       | 069-0.95  | 1999       | Br. Little<br>Walnut Ck. | 195  | 1      | 22     | 26                      | 2006              | 96.6                    |
| Todd            | 071-2.15  | 1996       | Little<br>Walnut Ck.     | 195  | 1      | 21     | 30                      | 2006              | 100                     |
| Twigg-Hupp      | 070-0.84  | 1920       | No Name<br>Ditch         | 111  | 1      | 19     | 16.4                    | 2006              | 71.9                    |
| Twigg-Hupp      | 070-1.69  | 1913       | Little<br>Walnut Ck.     | 221  | 1      | 30     | 20                      | 2006              | 75.9                    |
| Wilson          | 056-1.68  | 1930       | Little<br>Walnut Ck.     | 322  | 2      | 48     | 16                      | 2006              | 19.6 ***                |

#### **Bridge Type Legend:**

First # = Material Second # = Span Type Third # = Description \* = Rating out of 100 possible 1 = Simple Span points that indicates the overall 1 = Concrete1 = Slab2 = Continuous2 = Prestress Concrete 2 = Beamsufficiency of the bridge including 3 = Steel3 = Box Beam3 = Deckload capacity, geometry & condition 4 = Timber4 = Truss4 = Thru5 = Steel5 = Filled\*\* = Replacement scheduled 2008, 5 = Arch6 = Aluminum6 = Girder6 = Orthotropicestimated cost \$495,000 7 = Cast Iron7 = Frame7 = Movable - Lift\*\*\* = Replacement scheduled 2008, 8 = Wrought Iron8 = Suspension8 = Movable - Bascule0 = Other9 = Culvert9 = Movable - Swingestimated cost \$557,000 0 = Other0 = Other

## 11.8 Functional Classifications

The Delaware County Engineer has created categories for roads in their 1999 **Design Standards**. The 2001 Delaware County Thoroughfare Plan identifies arterial and collector streets (see foldout map titled Delaware County and City **Thoroughfare Plan Proposed Functional Classification** of Roadways and Alternatives).

<u>From the Design Standards Definitions:</u> Arterial streets – Arterial Streets have the primary purpose of carrying through traffic to and from residential, commercial, and industrial areas and the secondary purpose of providing access to abutting property. It is usually a continuous route carrying heavy loads and a large volume of traffic. Average Daily Traffic (ADT) is usually in excess of 3,500 vehicles.

- Major Arterials: State Route 521, State Route 61
- Minor Arterials: North Galena, Wilson Road

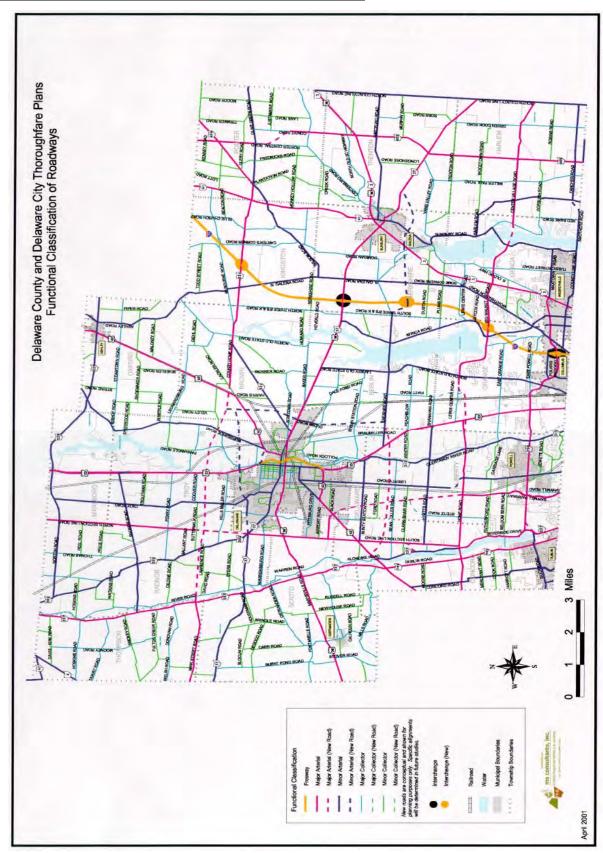
<u>From the Design Standards Definitions:</u> Collector Streets- Collector Streets have the primary purpose of intercepting traffic from intersecting local streets and handling this movement to the nearest major collector or arterial street. ADTs typically range from 1,500 to 3,500 vehicles, with AM peak hour traffic about 7-8% and PM peak hour of 10%.

- Major Collector Streets: Kilbourne Road, North Three B's and K Road, Carter's Corner Road, Clark Road, Blue Church Road
- Minor Collector Streets: Todd Street Road, Beacom Road, Rosecrans Road, Berkshire Road

<u>From the Design Standards Definitions:</u> Local Streets- Local streets represent the lowest category. Their primary function is to serve abutting land use. Typical ADTs range from 100 to 1,500 vehicles. Local streets are further classified as Loop, Through and Cul-de-sac.

• Examples: Twig-Hupp Road, Wildwood Lane

Map 11.3 Delaware County and City Thoroughfare Plans



### 11.9 Traffic Counts

Map 11.4 shows traffic counts taken on arterial and collector roads. This map is from the 2001 Thoroughfare Plan.

#### **Map 11.4 Kingston Township Traffic Counts**



#### 11.10 General Access Management Principles

Access management is the practice of limiting curb cuts on major roads to prevent conflicting turning movements and maintain safe traffic flow. The Ohio Department of Transportation (ODOT) has some authority for restricting access to state highways. According to ODOT, poor access management can reduce highway capacity to 20% of its design. Delay is as much as 74% greater on highways without access management. 60% of urban and 40% of rural crashes are driveway and intersection related.

#### **ODOT Access Management Principles:**

- Regulate the location, spacing and design of drives.
- Space access points so they do not interact with each other.
- Provide adequate sight distance for driveways.
- Use appropriate curve radius, lane widths, driveway angle.
- Provide turn lanes to separate conflict points for acceleration, deceleration, & storage lanes.
- Prohibit some turns in critical areas; relocate that activity to a less conflicted point.
- Restrict driveways to fewer than 30 per mile (every 350 lineal feet maximum).

- Use feeder roads to relocate critical movements and to handle short trips parallel to the main road.
- Locate driveways away from intersections to reduce conflicts (corner clearance).
- Use right in, right out drives to prevent unwanted left turns across traffic.
- Use zoning with access management to develop good site plans.
- Connect parking lots; share driveways.
- Use frontage roads to connect commercial traffic, and keep it parallel to the main road.
- Connect frontage roads to collector streets at properly spaced intersections.
- Use "backage" roads as rear access roads connecting commercial uses.
- Avoid individual, closely spaced curb cuts to "bowling alley" lots.
- Use the 30-curb cuts/mile standard, or maximum of one access each 350 feet.
- Avoid disconnected street systems.
- Encourage internal access to out-parcels.
- Minimize the number of traffic signals. Two per mile is ideal (half mile spaced).
- Use medians to separate traffic flows.
- Coordinate access permit review between ODOT, local zoning and building departments

When new sites are zoned for commercial use, access management is imperative. Access management practices are appropriate for driveway cuts on all arterial roads. The Delaware County Engineer is considering access management standards for new driveway cuts on certain County Roads. Pending HB366 would empower counties to regulate driveways on county roads.

## 11.11 Future Roads - The Thoroughfare Plan

"Original" farm-to-market county and township roads are often narrower than new subdivision streets, and sometimes built to a lighter load bearing standard. A plan for the major streets or highways, or "Thoroughfare" plan is a tool for counties and townships. The Thoroughfare Plan is enabled by Ohio Revised Code Section 711.10:

"Whenever a regional planning commission adopts a plan for the major streets or highways of the county or region, then no plat of a subdivision of land within the county or region, other than land within a municipal corporation"... "shall be recorded until it is approved by the regional planning commission."

The Delaware County Thoroughfare Plan was adopted in December 2001 by the Delaware County Commissioners. The Thoroughfare Plan recommends one future improvement in Kingston Township.

### **2001 Delaware County Thoroughfare Plan Recommendations**

• Alternative X is a new interchange at Interstate 71 and State Route 521. There is no timetable for this improvement.

The traditional county and township roads, built as local farm to market roads, are being pressed into service as collectors, major collectors, or even minor arterial streets, yet they are often narrower than new subdivision streets, and sometimes built to a lighter load bearing standard. The cost of upgrading county and township roads to collector or arterial standards can be prohibitive.

In each planning sub-area, the ability of the road to carry the traffic, its functional classification, and the cost of upgrading it can be factors in determining the timing of land use and density changes. Excess traffic, by itself, is not grounds in Ohio to justify denying a zoning change.

The Thoroughfare Plan does recommend network improvements which include upgrading N. Galena Road and Kilbourne Road. No details or timetable is noted for these improvements. The plan also recommends realignments of the following intersections: N. Galena at Kilbourne Road, and Carter's Corner Road at Wilson Road (SR 656).

### 11.12 Other Road Related Issues

As Delaware County grows, traffic increases. Traffic generation is one consideration in rezoning requests, but by itself is not a valid reason to deny a zoning.

# **Traffic considerations to rezoning**

Patterns of Development--Traffic can be reduced by the design of the development and the mix of land uses. Low density (one acre lots or larger) development generates significant traffic per unit, but the number of units is modest overall. In large developments with densities greater than one unit per acre a mix of local convenience commercial uses and a network of sidewalks, trails and bike paths can reduce auto trips. Consideration should be given to neo-traditional development patterns (see Chapter 13) for planned developments utilizing smaller lots, while maintaining existing density requirements. A combination of a grid street core, with curvilinear edges may allow for the preservation of open space. A typical home in an exclusively residential area generates 10 or more trips per day. A home located in a neighborhood that is designed to be convenient for walking and biking with mixed commercial and service uses can reduce auto trips to as little as 4 trips per home per day.

<u>Traffic Impact</u>--New development proposals should be assessed for their trip generation. An assessment using ITE trip generation rates should be submitted by the developer as part of any planned development. As a general rule, if the trip generation is more than 1000 vehicles per day, a full-fledged traffic study should be performed to determine the impact and mitigation measures needed. Current level of service (LOS) and post development LOS should be compared. Roads should not be degraded below LOS C on a scale of A-F.

<u>Impact Fees</u>--Ohio planning and zoning legislation does not currently empower townships to charge impact fees to offset costs of service expansion (roads, schools, parks, etc.). Generally, road improvements immediately adjacent to the development can be attributable to the project as part of the subdivision and zoning process. If large impact development proposals do not reasonably offer to mitigate their significant off-site impacts, they may impose an undue burden on the township. In such cases the rezoning may be premature.

### **Air Pollution Standards**

Delaware County is one of 32 counties in Ohio where air pollution exceeded the 8-hour US EPA air quality standard for ozone. It is important to recognize that air pollution may come into Ohio from other states. The 8-hour standard has been appealed to the US Supreme Court.

If the 8-hour standard is supported by the Court, then there may be substantial impacts on economic development and transportation. Some of the possible consequences:

- a. loss of federal funding for state infrastructure (roads and other improvements)
- b. requirement of potentially more expensive, cleaner burning fuels
- c. use of vapor controls at fueling stations
- d. emissions testing (E check) of tailpipes (not currently planned)
- e. voluntary restrictions on travel with staggered work hours, etc.

# NorthStar and The Pastures at Blue Church

The NorthStar Golf Resort and The Pastures at Blue Church developments will have a dramatic impact on traffic and road related issues. The Kingston portion of the NorthStar Golf Resort alone could generate as many as 6,510 additional trips per day. Such an increase will no doubt affect N. Galena Road, Wilson Road, Carter's Corner Road and others as motorists find additional paths through the existing road network. A similar impact will occur with respect to Wilson Road, Rosecrans Road, Blue Church Road, Carter's Corner Road, Monkey Hollow Road and State Route 61 when the project alternatively known as The Pastures at Blue Church is developed.

## **Project Clear**

(Community Leadership to Effect Air Emission Reductions) is a community oriented partnership between the Columbus Health Department, The Ohio State University and the Mid-Ohio Regional Planning Commission. Project CLEAR will evaluate and recommend strategies to reduce air emissions that contribute to smog and ground level ozone in Central Ohio. Even small details, such as providing tree islands in commercial parking lots, can reduce the incidence of ground level ozone, and should be a consideration in the zoning process when reviewing development plans.

# **CHAPTER 12**

# **Utilities**

## **12.1 Water**

The Del-Co Water Company, a cooperatively owned private water company established in 1973, serves most of Kingston Township with potable water. As the county has grown, Del-Co has expanded its service to provide larger diameter water lines for residential and commercial service as well as fire protection.

### **Supply**

Del-Co Water is the largest rural water system in the State of Ohio. It provides service to Delaware and Morrow Counties and extends into Union, Franklin, and Marion Counties. The service area measures approximately thirty-two miles north to south and twenty-four miles east to west. Del-Co draws surface water from the Olentangy River and from the Alum Creek reservoir. The water is pumped to up-ground reservoirs on South Old State Road and Olentangy River Road prior to treatment. Wells along the Kokosing River in Knox County provide additional supply.



Del-Co Water Headquarters and Up-Ground Reservoirs on State Route 315, Liberty Twp.

Del-Co has expanded its water supply to keep pace with growth of the county. For example, in 1998 Del-Co added over 1,800 new customers and installed over 63 miles of new water lines. In 1999, the company again added 2,177 additional customers and installed 67 miles of new water lines. Del-Co has constructed a new administrative office building, a million-gallon storage tank in Morrow County and a second water treatment plant on S. Old State Road in Orange Township.

The rapid growth of Delaware County has strained water treatment capabilities during summer months. Del-Co has a current daily treatment and pumping capacity of 17 million gallons per day (mgd). In May of 1999, with a minor drought, demand was 13mgd, with approximately 9 mgd attributed to lawn watering. Because of this, Del-Co is currently maintaining a permanent odd/even day/address sprinkling regulation.

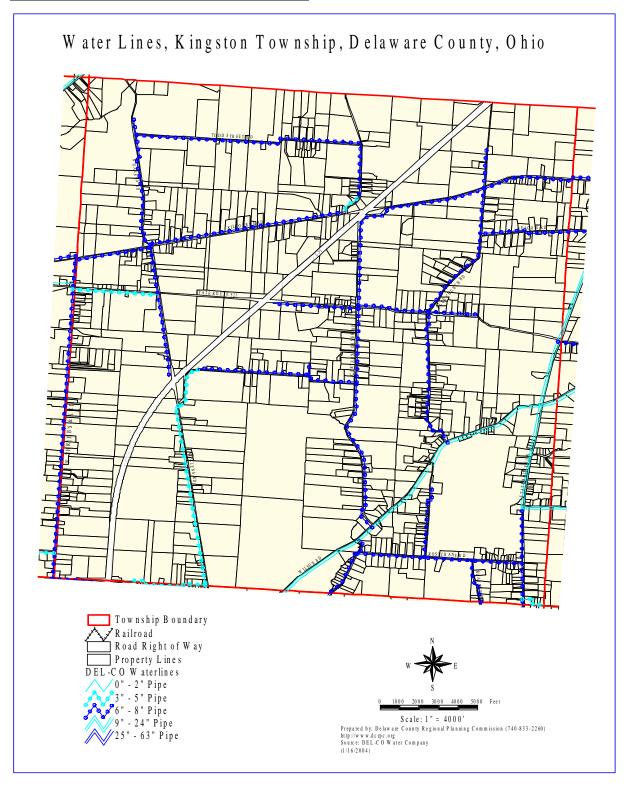
Three future supply locations are planned at the Whetstone River, northwest of Ashley, 400 acres on the Scioto River at SR257 and Donovan Road, and South Old State Road in Orange Township

With these new facilities, a total of 38 mgd is Del-Co's long term pumping and treatment capacity. Year 2000 service population for Del-Co was approximately 66,700 (59,099 in Delaware County). This is expected to double in twenty years. If water demand also doubles, the peak pumping of 26 mgd would be within the realm of Del-Co's supply and treatment plan. Growth beyond a service population of 140,000 in the villages and townships would require additional supply sources and treatment facilities.

# **Water Lines in Kingston Township**

Map 12.1 shows the location and diameter of water lines in the township. Development densities greater than one unit per acre typically require fire hydrants, which require a minimum 6-inch diameter water line.

Map 12.1 Water Lines, Kingston Township



### 12.2 Sanitary Sewer

Kingston Township currently has no centralized sanitary sewer service to the township, nor is any proposed by the County in the planning period 2000-2010. Kingston Township primarily uses septic systems and leach fields for sewage disposal. The NorthStar development land application sewer system was intended to serve only the NorthStar Development will be operated by Delaware County.

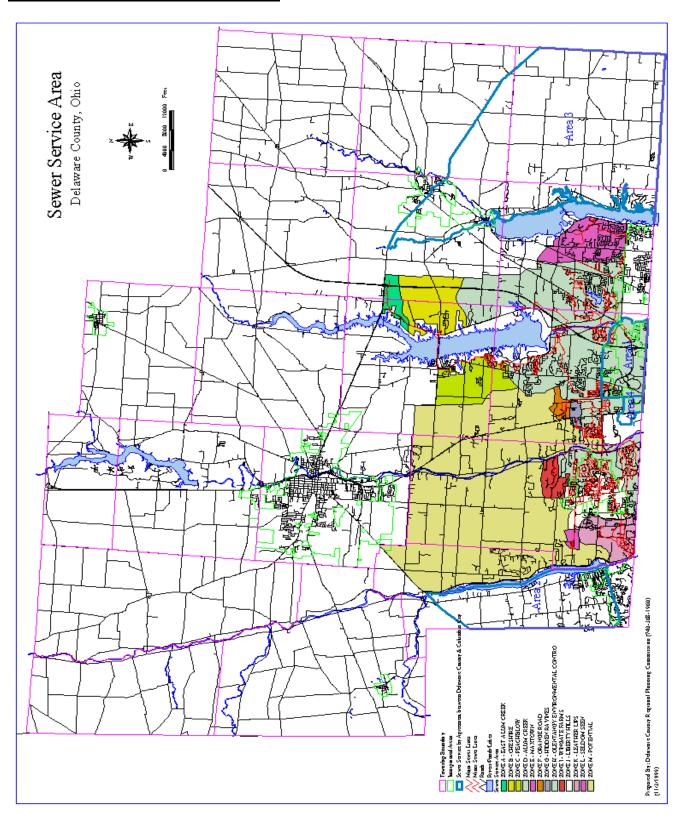
### **Delaware County – Sanitary Sewer**

The Delaware County Sanitary Sewer Department, a division of the County Commissioners, provides sanitary sewer service in un-incorporated areas. There are currently two plants, the Olentangy Environmental Control Center (OECC), located on the West Bank of the Olentangy River at the Franklin County Line and the Alum Creek Wastewater Treatment Plant located along the east side of Walker Wood Blvd., north of E. Powell Road and next to I-71. The current capacity of the OECC is approximately 6 million gallons per day (mgd). The new Alum Creek wastewater treatment plant opened in June of 2001 is intended to serve the central and east side of the county. Its capacity is 10 mgd, with an offsite discharge to Alum Creek below the dam.

The Delaware County Sanitary Engineer has created sanitary sewer service areas (see map 10.2) based on lift stations. The service area also takes into consideration a large area that could potentially be served by the Olentangy Treatment facility, which is based on a facilities plan from 1975. Kingston Township is currently outside of these service areas, and county sewer is not likely to be made available as far north as Kingston Township within the next ten years.

Based upon current flows to both treatment plants and approximately 13,000 dwelling units in the zoning or subdivision approval process, the current design capacity of both treatment plants are committed on paper, even though it may take 6-8 years to use the available sewer taps. Since there is no new sewer capacity in the County system after currently zoned properties develop, Kingston Township should not expect any centralized Delaware County sanitary sewer service in the foreseeable future.

**Map 12.2 Sanitary Sewer Service Area** 



### **Sewer Agreement – City of Columbus**

Delaware County entered into an agreement with the City of Columbus to provide service to the Polaris development in 1991. By agreement, either Delaware County or Columbus could build a sewage treatment plant to serve land east of the Hoover Reservoir (south of SR 37) and discharge into it. The allowable density is 4 persons (1.37 dwelling units) per acre. This area is depicted on Map 10.2.

### **Sewer Policy- OEPA**

Centralized sewer systems traditionally meant placing sewage in a pipe, and sending it to a publicly owned sewage treatment plant that discharged to a running stream.

- 1. In 1996 the Ohio Environmental Protection Agency changed its anti-degradation requirements for surface discharge from a wastewater treatment plant. This has prompted alternative "zero discharge" centralized sewage disposal systems, such as on-site treatment plants that use the treated effluent to irrigate a golf course. Permits are issued by the OEPA. This action allows an opportunity for cluster development in rural areas with lot sizes smaller than would have been possible without centralized sewers. Tartan Fields and Scioto Reserve subdivisions in Concord Township use on site treatment plants dedicated to Delaware County, and land application of treated effluents on golf courses.
- 2. If zero discharge sewer systems are proposed within sewer service areas, the land application systems can <u>augment</u> the county's sewer capacity. This means sewer users may be accommodated without building additional county treatment plant capacity.
- 3. If zero discharge sewer systems are proposed in <u>non-sewer</u> service areas, cluster development could preserve open space (Scioto Reserve, Tartan Fields, NorthStar).
- 4. Zero discharge central sewer systems themselves are not a threat. The threat is using zero discharge sewer systems to accommodate zoning for inappropriately high densities in areas without urban services. This fosters leapfrog suburban development that requires services that cannot be easily or economically provided by the township (fire and police protection, schools, road upgrades, public transportation, shopping, entertainment, and cultural activities).
- 5. Kingston Township must use its vision of the future, its recommended land use plan and zoning to potentially permit zero discharge centralized sewer systems as accommodations to development <u>only</u> when the use and density conform to the township comprehensive plan. Where such systems are permitted, the county should (preferably) be deeded ownership and control of the system for proper maintenance.

### 12.3 Electric

American Electric Power and Consolidated Electric Power provide electric service to Kingston Township. The Utilities Map shows the service area.

The nearest electric transmission line is south of Kingston Township. No structures are permitted within the rights of way and recorded easements for theses transmission lines. The locations of these lines are shown on the Comprehensive Land Use Plan Map (Chapter 15).

There is presumed to be no limitation to growth of the Township because of shortage of electric power.

### **12.4 Gas**

Suburban Natural Gas of Lewis Center, and Columbia Gas are the major gas providers for Delaware County. However, Kingston Township is not in either provider's service area.

### 12.5 Telecommunications/cellular

Under current state and federal laws, telecommunications towers are permitted in any non-residentially zoned districts. Under Ohio law, townships can regulate (which may include prohibition) telecommunications towers in residential districts if objections are filed by abutting property owners.

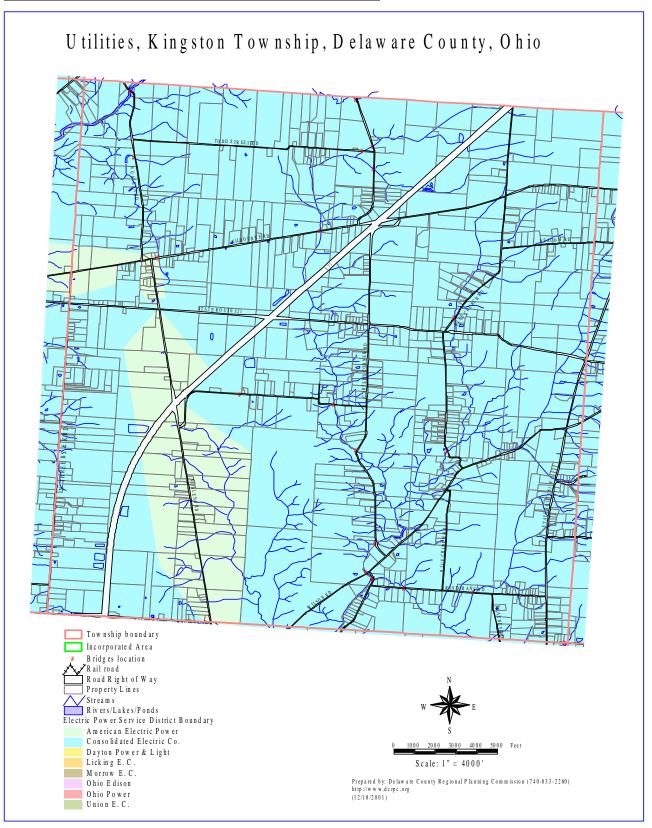
### 12.6 Storm Water Management

Storm water management is reviewed by the Delaware County Engineer's office for subdivisions, and road construction. The Delaware County Soil and Water Conservation District maintains ditches by agreement with the County Engineer's maintenance program. As of December 31, 1999 there were 70 projects on county ditch maintenance, 46 of which were subdivisions.

**Table 12.1 Drainage Structures on Maintenance** 

| Open Ditch                        | 38.26 miles |
|-----------------------------------|-------------|
| Tile drains                       | 27.38 miles |
| Surface Drains                    | .62 miles   |
| <b>Retention/Detention Basins</b> | 121         |

Map 12.3 Electric, Gas & Bridges, Kingston Township



### **CHAPTER 13**

### **Community Facilities**

### 13.1 Schools

Kingston Township is evenly divided into the Buckeye Valley School District and the Big Walnut School District (see Map 13.1). The Buckeye Valley School District also includes most of Concord, Scioto, and Thompson, about half of Troy, and all of Brown, Radnor, Marlboro and Oxford Townships. The Big Walnut School District includes most of Trenton, Harlem, Berkshire, and nearly half of Porter and Genoa Townships.

The Ohio Department of Education evaluates each school district in the State of Ohio annually, based on 27 standards and an associated ranking. Table 13.1 illustrates the Buckeye Valley and Big Walnut districts academic rankings. Both districts received "Continuous Improvement" rankings.

**Table 13.1Performance Ratings for Kingston Township School Districts** 

| Performance Standards   | Min. State<br>Performance | Buckeye Valley<br>Schools               | Big Walnut<br>Schools                   |
|---|---------------------------|---|---|
| Grade 4 – Prof. Tests   |                           |   |   |
| Citizenship   | 75%                       | 64.7%                                   | 72.8%                                   |
| Mathematics   | 75%                       | 60.3%                                   | 72.3%                                   |
| Reading   | 75%                       | 62.2%                                   | 62.3%                                   |
| Writing   | 75%                       | 85.1%                                   | 86.4%                                   |
| Science   | 75%                       | 58.3%                                   | 69.6%                                   |
| Grade 6 – Prof. Tests   |                           |   |   |
| Citizenship   | 75%                       | 74.2%                                   | 81.2%                                   |
| Mathematics   | 75%                       | 58.9%                                   | 64.0%                                   |
| Reading   | 75%                       | 66.9%                                   | 72.0%                                   |
| Writing   | 75%                       | 82.8%                                   | 88.2%                                   |
| Science   | 75%                       | 56.4%                                   | 73.1%                                   |
| Grade 9 – Prof. Tests (8 <sup>th</sup> ,9 <sup>th</sup> )                   |                           |   |   |
| Citizenship   | 75%                       | 89.6%                                   | 90.3%                                   |
| Mathematics   | 75%                       | 78.0%                                   | 78.4%                                   |
| Reading   | 75%                       | 92.8%                                   | 94.5%                                   |
| Writing   | 75%                       | 94.0%                                   | 91.7%                                   |
| Science   | 75%                       | 88.5%                                   | 84.4%                                   |
| Grade 9 – Prof. Tests (8 <sup>th</sup> ,9 <sup>th</sup> ,10 <sup>th</sup> ) |                           |   |   |
| Citizenship   | 85%                       | 95.1%                                   | 93.5%                                   |
| Mathematics   | 85%                       | 92.0%                                   | 88.3%                                   |
| Reading   | 85%                       | 97.5%                                   | 97.8%                                   |
| Writing   | 85%                       | 99.4%                                   | 98.7%                                   |
| Science   | 85%                       | 94.5%                                   | 92.2%                                   |
| Grade 12 – Prof. Tests  |                           |   |   |
| Citizenship   | 60%                       | 71.4%                                   | 58.5%                                   |
| Mathematics   | 60%                       | 60.0%                                   | 58.2%                                   |
| Reading   | 60%                       | 78.4%                                   | 63.3%                                   |
| Writing   | 60%                       | 86.8%                                   | 78.6%                                   |
| Science   | 60%                       | 69.3%                                   | 60.7%                                   |
| Student Attendance Rate   | 93%                       | 94.5%                                   | 94.9%                                   |
| Graduation Rate   | 90%                       | 92.9%                                   | 93.3%                                   |
| Overall State Ranking   |                           | Continuous<br>Improvement<br>(19 of 27) | Continuous<br>Improvement<br>(18 of 27) |

(Source: Ohio Department of Education 2002 Report Cards)

The Delaware city and county boards of education established the Delaware Joint Vocational School in 1974 as a career/technical school for Delaware County residents. Delaware JVS, The Area Career Center, now provides career training and academic instruction to over 650 area High School juniors and seniors who desire skilled employment immediately upon high school graduation.

### A. Enrollment Growth

### **Buckeye Valley**

The following tables show the current enrollment numbers as well as the trend over the last ten years. Table 13.4 shows the projections performed by Planning Advocates in 2001 for enrollment growth to 2010-11.

Table 13.2. Buckeye Valley Local School District 2003-04 Building Enrollments

| Grade Level | East<br>Elementary<br>(Ashley) | North<br>Elementary<br>(Radnor) | West<br>Elementary<br>(Ostrander) | Middle<br>School | High School | Totals |
|-------------|--------------------------------|---------------------------------|-----------------------------------|------------------|-------------|--------|
| K*~5        | 378                            | 256                             | 340                               | ~                | ~           | 974    |
| 6~8         | ~                              | ~                               | ~                                 | 543              | ~           | 543    |
| 9~12        | ~                              | ~                               | ~                                 | ~                | 663         | 663    |
| JVS         | ~                              | ~                               | ~                                 | ~                | 51          | 51     |
| Total       | 378                            | 256                             | 340                               | 543              | 714         | 2,231  |

\*K~ Kindergarten

(Source: Buckeye Valley Local School District, January 31, 2004)

Table 13.3. Buckeye Valley 1993-94 to 2002-03 School-Year Enrollment

| Grade  | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 | 1998-99 | 1999-00 | 2000~01 | 2001-02 | 2002-03 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| K*~5   | 1,023   | 1,023   | 998     | 1,009   | 993     | 973     | 969     | 966     | 993     | 977     |
| 6–8    | 535     | 578     | 552     | 538     | 553     | 504     | 522     | 516     | 537     | 576     |
| 9–12   | 648     | 702     | 752     | 785     | 799     | 788     | 744     | 739     | 689     | 704     |
| Total  | 2,206   | 2,303   | 2,302   | 2,332   | 2,345   | 2,265   | 2,235   | 2,221   | 2,219   | 2,257   |
| Change | +2.5%   | +4.4%   | -0.1%   | +1.3%   | +0.6%   | ~3.4%   | ~1.3%   | ~0.6%   | -0.1%   | +1.7%   |

\*K~ Kindergarten

(Source: Buckeye Valley Local School District, 2004)

Table 13.4. Enrollment Projections, Buckeye Valley Local School District

| Grade  | 2003~04 | 2004-05 | 2005-06 | 2006-07 | 2007~08 | 2008-09 | 2009~10 | 2010~11 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| K* - 5 | 1,167   | 1,234   | 1,427   | 1,412   | 1,473   | 1,508   | 1,551   | 1,617   |
| 6-8    | 539     | 546     | 522     | 537     | 575     | 670     | 749     | 782     |
| 9 – 12 | 747     | 753     | 783     | 781     | 770     | 762     | 756     | 810     |
| Total  | 2,453   | 2,533   | 2,732   | 2,730   | 2,818   | 2,940   | 3,056   | 3,209   |

\*K~ Kindergarten

(Source: Enrollment Projections by Planning Advocates, Inc. 2001)

The enrollment projections for the Buckeye Valley School District show a "most likely" 44.5% enrollment increase by 2010-11 or 990 new students (Projected 2010-11 enrollment / Current 2001-02 enrollment). This is a significant change from the slow growth of the last 10 years (1.05%). The future trend indicates an overall steady growth with small dips in certain grade groups at different times (see table 13.4). The increase is primarily due to major residential developments underway in the Districts' southern territory.

### **Big Walnut**

The following tables represent the current enrollment numbers for the Big Walnut School District as well as the trend over the last ten years and projections for the next ten years.

<u>Table 13.5 2001-02 Big Walnut Local School District Enrollments</u>

| Grade | Big Walnut<br>Elementary | Harrison<br>Street<br>Elementary | Hylen<br>Souders<br>Elementary | Middle School | High School | JVS / Other | Total |
|-------|--------------------------|----------------------------------|--------------------------------|---------------|-------------|-------------|-------|
| P*    | 23                       |                                  | 15                             |               |             |             | 38    |
| K***  | 64                       | 34                               | 66                             |               |             |             | 164   |
| 1-5   | 325                      | 256                              | 349                            |               |             |             | 930   |
| 6-8   |                          |                                  |                                | 650           |             |             | 650   |
| 9-12  |                          |                                  |                                |               | 864         | 48          | 912   |
| Total | 412                      | 290                              | 430                            | 650           | 864         | 48          | 2694  |

(Source: Big Walnut Local School District, 2002)

Table 13.6 Big Walnut Enrollment 1991-01

| Grade  | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 | 1998-99 | 1999-00 | 2000-01 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| K* - 5 | 1223    | 1195    | 1238    | 1206    | 1202    | 1202    | 1169    | 1211    | 1191    | 1155    |
| 6 – 8  | 564     | 614     | 631     | 654     | 635     | 648     | 653     | 627     | 644     | 638     |
| 9 – 12 | 715     | 718     | 727     | 746     | 821     | 838     | 850     | 837     | 862     | 886     |
| K - 12 | 2502    | 2527    | 2596    | 2606    | 2658    | 2688    | 2672    | 2675    | 2697    | 2679    |

(Source: Planning Advocates, 2001)

Enrollment has increased slowly since the 1991-92 school year, with a 7.1% increase of 177 students. Projections done by Planning Advocates in 2001 show that the enrollments will continue to increase.

Table 13.7 Most Likely Enrollment Projections, Big Walnut Local School District

| Gr  | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|-----|----|----|----|----|----|----|----|----|----|----|
| GI. | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| K*  | 11 | 11 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 14 |
| 6 – | 64 | 63 | 62 | 62 | 64 | 65 | 66 | 64 | 68 | 73 |
| 9 – | 89 | 89 | 88 | 84 | 85 | 83 | 84 | 89 | 86 | 88 |
| К-  | 26 | 26 | 27 | 27 | 27 | 28 | 28 | 29 | 29 | 30 |

(Source: Enrollment Projections by Planning Advocates, Inc. 2001)

<sup>\*</sup> P - Preschool

<sup>\*\*</sup> MH – Multiple Handicaps

<sup>\*\*\*</sup> K- Kindergarten

<sup>\*</sup>K- Kindergarten

<sup>\*</sup> K- Kindergarten

The enrollment projections for the Big Walnut School District show a "most likely" 13% enrollment increase by 2010-11, or 349 new students. This is a slightly higher rate than the growth of the last 10 years, but much lower than that expected in the Buckeye Valley School District. The projections, however, do not include the potential enrollment from NorthStar development, which is entirely within the Big Walnut District.

### **B.** Current Facilities

### **Buckeye Valley**

The Buckeye Valley Local School District has a \$10 million operating budget including 26 voted mills and a 1% income tax.

Buckeye Valley High School is located at 901 Coover Road. Buckeye Valley Middle School is located at 683 Coover Road. (Opened 1997)

There are three elementary schools in the Buckeye Valley School District:

- East Elementary located at 522 E. High Street, Ashley
- North Elementary located at 4230 St. Route 203, Radnor
- West Elementary located at 61 North 3<sup>rd</sup> Street, Ostrander

The Buckeye Valley Local School District facility plan from 1989 is now being updated by Planning Advocates, Inc. Many of the recommendations of the 1989 facilities plan have been realized. With the growth over the last ten years, this update is necessary to ensure that the district continues to provide the best educational opportunities for its students.

### **Big Walnut**

Big Walnut Local School District currently contains one high school, one middle school and three elementary schools:

- •Big Walnut High School: 555 South Old 3C Highway, Sunbury
- •Big Walnut Middle School: Hill Street, Sunbury
- •Big Walnut Elementary: 940 South Old 3C Highway, Sunbury
- •Harrison Street Elementary: 70 Harrison Street, Sunbury
- •Hylen Souders Elementary: 4121 Miller Paul Road, Harlem Township

<u>Big Walnut Local School District - 10 Year Facility Plan</u> (Recommended by the District Development Committee, February 1998)

The following long-range facility improvements are recommended:

• Continue the grade configuration for K-5, 6-8, and 9-12 groupings. This vertical organization structure appears to serve the educational programs and is responsive to maximum use of existing facilities.

- Add new space and renovate existing space at the middle school to expand and improve the quality of the learning environment.
- Maintain Harrison Street Elementary School to serve K-5 at a reduced capacity for instructional needs during planning and construction of new facilities.
- Construct a new elementary school at a location convenient to present and future student residences, especially in the northwest quadrant.
- Plan a second elementary school to serve the students in at least 10 years or sooner if needed.
- Use capital funds to construct new buildings in response to growth and for the qualitative improvement of the existing facilities, which have potential long-term use.

More specifically, it is recommended that the following long-term improvement program be implemented:

### High School

• That the existing high school continues to serve grades 9-12 at a capacity of approximately 875 with the necessary academic classrooms, laboratories, special education classrooms and support facilities as the program dictates.

### Middle School

• That the existing middle school building be expanded approximately 30,000 square feet with an addition to provide improved specialized facilities for a capacity of 750 students and that the existing physical environment be renovated to provide for the use of technology and an improved modern learning environment.

### Elementary School

- That both Big Walnut Elementary and Souders Elementary schools continue to each serve Pre-Kindergarten through Grade 5 students and that the enrollments should not exceed approximately 450 students at each site.
- That Harrison Street Elementary School receive attention to maintenance items and that the capacity be reduced to serve as an instructional Pre-K 5 center until additional and replacement schools are available.
- That a new Pre-K 5 school with a capacity of approximately 450 students be constructed in the Northwest Quadrant of the school system.

The cost of these facilities is anticipated to be \$13,320,500 using 1997 construction costs.

### C. Funding for Schools

**Table 13.8 District Expenditures Per Pupil** 

|                | Buckeye<br>Valley | Big Walnut |
|----------------|-------------------|------------|
| Instruction    | \$3,822           | \$3,837    |
| Building       | \$1,620           | \$1,372    |
| Operations     |                   |            |
| Administration | \$856             | \$758      |
| Pupil Support  | \$795             | \$614      |
| Staff Support  | \$57              | \$80       |
| Totals         | \$7,150           | \$6,661    |

Source: Ohio Department of Education, 2002 District Report Cards

**Table 13.9 District Revenues Per Pupil** 

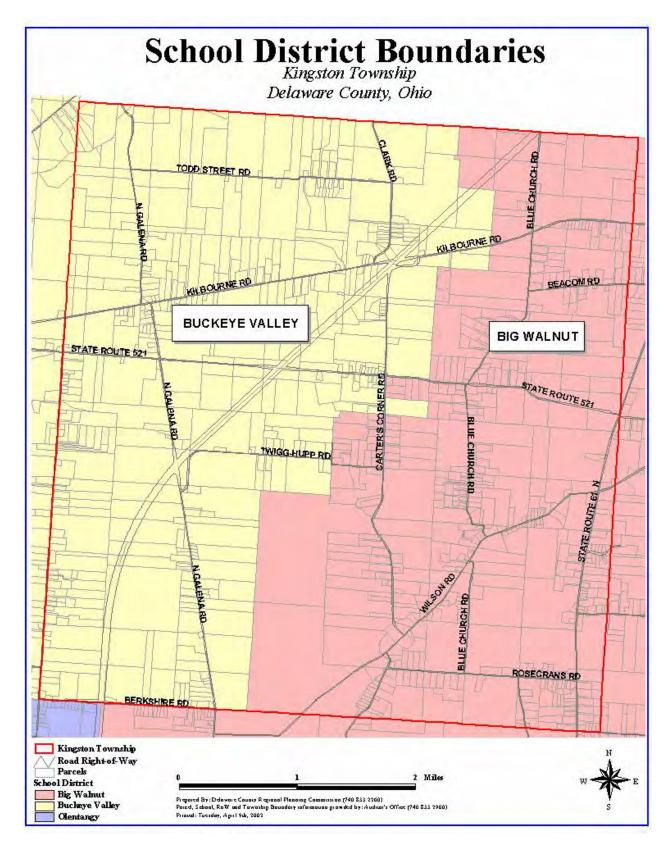
|               | Buckeye<br>Valley | Big Walnut |
|---------------|-------------------|------------|
| Local Funds   | \$3,851           | \$4,271    |
| State Funds   | \$2,633           | \$2,222    |
| Federal Funds | \$181             | \$217      |
| Totals        | \$6,665           | \$6,710    |

Source: Ohio Department of Education, 2002 District Report Cards

### D. Effect of Land Use Planning on School Planning

With the growth of Scioto Reserve Subdivision in Concord Township (748 acres, 1255 dwellings), there will also be an increase in the student population of Buckeye Valley. The NorthStar development in Kingston and Berkshire Townships (1400 acres, approximately 1500 dwellings, plus 300 acres commercial) and The Pastures at Blue Church development in Kingston Township could have a similar impact on the Big Walnut Schools.

Map 13.1 Kingston Township School Districts



### **13.2 Historic Sites**

There are no sites in Kingston Township listed on the National Register of Historic Places. There are however several historically significant structures. Some of these include the following:

- Rosecrans Memorial: designating the birthplace of General William G. Rosecrans. Located 1.2 miles west of State Route 61, on the south side of Rosecrans Road. General Rosecrans is buried in Arlington Cemetery, Washington D.C.
- **Kingston Center School** is a former one-room schoolhouse located on the northeast corner of State Route 521 and Carter's Corner Road. It is used today as the Township Hall.
- Lott School is a former one-room schoolhouse at the corner of Carter's Corner Road and Wilson Road. It has been converted to a residence and is still occupied today.

The Critical Resources Map in Chapter 6 (Map 6.7) indicates possible archeological sites. These sites are mapped by the State of Ohio OCAP data available from the Ohio Department of Natural Resources. The DCRPC has no information regarding any materials found at any of these sites.

### 13.3 Libraries

Currently there are no public libraries in Kingston Township. Residents can obtain a library card at any of the following libraries.

*The Delaware County District Library* has its downtown library at 84 East Winter Street, Delaware, and branch libraries in the Village of Powell at 460 S. Liberty Street, and Ostrander at 75 North 4<sup>th</sup> Street.

The District Library employs 30 people or 24 full time equivalents. Its annual budget is approximately \$2 million, which is used for staff salaries and materials, maintenance, and operating expenses. 94 % of the budget comes from state income tax and the remaining 6 % is generated by overdue fines.

There are 75,000 residents in the Delaware District Library service area and 42,000 registered borrowers (borrowers can be outside of the district). School districts that are in the service area include Olentangy, Delaware City, Buckeye Valley, Elgin Local (in Delaware County), Dublin (in Delaware County), and North Union (within Delaware County). Currently, the District has 145,000 volumes. The "old" rule of thumb is that there should be 3 volumes per capita. This shortfall of 5,000 is not considered a problem because libraries in general have evolved to offer other resources for patrons. The District's long range plan is to monitor the growth area and provide service to the expanding population, expand facilities if necessary, and promote home based programs.

The Sunbury Community Library is located at 44 Burrer Drive in Sunbury. It is funded by state income tax set aside for libraries. Its primary mission is to serve the Big Walnut School District, but any resident of the State of Ohio may obtain a library card and use the library. Their building was constructed in 1994, and was constructed to be expandable. The library currently has books in circulation, reference materials, audio and video cassettes, and 8-10 public access computers with on-line Internet services. They employ 18 full and part time staff. Hours of operation are Monday –Thursday, 9:00 a.m. to 8:00 p.m., and 9:00 to 5:00 on Fridays and Saturdays.

*Ohio Wesleyan University, Beeghley Library* located at 43 University Ave., Delaware extends borrowing privileges to all residents of Delaware County.

Ashley Wornstaff Library is located at 302 E. High St., Ashley.

As the population of Kingston Township and Delaware County increases, there may be a need for expanded library service.

### **13.4 Hospitals**

There are no hospitals located within Kingston Township. Grady Memorial Hospital is located on Central Avenue in the City of Delaware. Grady Hospital provides 125 beds for general surgery, and orthopedics, urology and ophthalmology, as well as emergency care. Cardiac surgery and neuro surgery are referred to other hospitals. Grady recently expanded its emergency room and constructed a helicopter pad for incoming life flights.

Grady provides local hospital service. Northern Franklin County Hospitals such as Riverside Methodist Hospital, Olentangy River Road in Columbus, St. Ann's in Westerville, and the Ohio State University Medical Center provide expanded care with more specialties.

Two outpatient facilities serve southern Delaware County. Grady at Wedgewood and Mt. Carmel OutPatient, both on Sawmill Parkway in Liberty Township serve Liberty Township, Powell, and northern Franklin County. Both centers provide medical services that do not require an overnight stay.

### 13.5 Fire Protection

The Porter/Kingston Township Fire Station is located at 12844 Olive Green Road in Porter Township. Presently the fire department operates with volunteer firemen and one paid daytime fire fighter. In May 1999, Delaware County started a 24-hour shift of EMS at the fire station. In addition, the department has mutual aid contracts with all adjoining township fire departments, including automatic response on all structure fire assignments.

The Fire Department has the following equipment for emergency responses:

- Light rescue-equipment truck
- 2 Engine/Tanker trucks
- Grassfighter
- Hose truck with 2700 feet of 4" hose
- 1800 Tanker
- Hazardous Materials Response trailer

The Insurance Services Office (ISO) grading in Kingston Township is Class 6 for areas within 1000-ft of a fire hydrant and Class 9 for areas outside of the 1000-ft radius. The rating is based on how well the department receives and handles fire alarms; fire department equipment, staff, and training; and water supply. ISO gradings determine fire insurance premiums. Higher gradings (lower the number) may result in lower insurance premiums.

### **13.6 Police**

Kingston Township is policed by the Delaware County Sheriff's Office, (DCSO) which is headquartered in Delaware on State Route 42. In 2002 the department was budgeted for 68 full-time deputies and 17 special deputies patrolling in 54 vehicles. Each vehicle is shared between two officers (two shifts) and travels around 100 miles a shift.

**Table 13.9 Sheriff's Complaints** 

| Sheriff's          | Complaints | for 20 | 04 by Geographic Code |     |
|--------------------|------------|--------|-----------------------|-----|
| Orange Township    | 5,406      |        | Delaware City         | 425 |
| Liberty Township   | 3,339      |        | Oxford Township       | 228 |
| Concord Township   | 1,346      |        | Ashley                | 145 |
| Berkshire Township | 1,317      |        | Marlboro Township     | 134 |
| Berlin Township    | 1,149      |        | Shawnee Hills         | 124 |
| Harlem Township    | 842        |        | Thompson Township     | 101 |
| Troy Township      | 743        |        | Columbus              | 48  |
| Delaware Township  | 629        |        | Sunbury               | 45  |
| Scioto Township    | 481        |        | Ostrander             | 44  |
| Trenton Township   | 454        |        | Other (out of county) | 44  |
| Brown Township     | 388        |        | Powell                | 20  |
| Kingston Township  | 353        |        | Westerville           | 15  |
| Porter Township    | 288        |        | Dublin                | 6   |
| Radnor Township    | 269        |        | Galena                | 6   |

Source: Delaware County Sheriff Office web page http://www.delawarecountysheriff.com/patrol.htm

Kingston Township represented 3.7% of the county population in 2001, but only 1.3% of the Sheriff's complaints. It should be noted that Genoa Township, the City of Delaware, Dublin, Columbus, Westerville and Powell provide their own police protection.

### 13.7 Cemeteries

- **Blue Church Cemetery**: located at the southwest corner of State Route 521 and Blue Church Road. The Church was destroyed in 1974.
- Stark (Olive Green) Cemetery: located on the north side of State Route 656, 800 feet west of State Route 656. The western portion of this cemetery is in Kingston Township, the eastern portion is in Porter Township.

### 13.8 Other Township Facilities

### **Kingston Township Hall**

• The Kingston Township Hall is located at 9899 State Route 521. The building was the former Kingston Center School One room schoolhouse.

### **Kingston Township Maintenance Building**

• The maintenance building is located on Blue Church Road just south of the Blue Church Cemetery.

### **CHAPTER 14**

### **Open Space and Recreation**

### 14.1 Introduction

The Ohio Revised Code (ORC) acknowledges the importance of open space and recreation in both the zoning and subdivision enabling legislation. ORC 519.02 states that the trustees may regulate by [zoning] resolution "sizes of yards, courts, and other open spaces...the uses of land for...recreation." ORC 711 states that "a county or regional planning commission shall adopt general rules [subdivision regulations]... to secure and provide for...adequate and convenient open spaces for...recreation, light, air, and for the avoidance of congestion of population."

The importance of open space and recreation has long been recognized. In the 1850s the City Beautiful Movement advocated public parks as retreats from the congestion and overcrowding of city life. New York's Central Park (1856, Frederick Law Olmstead, Sr.) is the best known American example. Every desirable community in America has a significant park and recreation system as one of its building blocks.

<u>The Subdivision and Site Design Handbook</u> (David Listokin and Carole Walker, 1989, Rutgers, State University of New Jersey, Center for Urban Policy Research) is considered a planner's bible for many accepted standards in subdivision review. In their chapter on open space and recreation, they relate the following critical functions of open space:

- Preserves ecologically important natural environments
- Provides attractive views and visual relief from developed areas
- Provides sunlight and air
- Buffers other land uses
- Separates areas and controls densities
- Functions as a drainage detention area
- Serves as a wildlife preserve
- Provides opportunities for recreational activities
- Increase project amenity
- Helps create quality developments with lasting value

### 14.2 Open Space Defined

Listokin and Walker define open space as: "Essentially unimproved land or water, or land that is relatively free of buildings or other physical structures, except for outdoor recreational facilities. In practice, this means that open space does not have streets, drives, parking lots, or pipeline or power easements on it, nor do walkways, schools, clubhouses and indoor recreational facilities count as open space. Private spaces such as rear yards or patios not available for general use are not included in the definition either."

"Open space is usually classified as either developed or undeveloped. Developed open space is designed for recreational uses, both active and passive, whereas undeveloped open space preserves a site's natural amenities."

### 14.3 Land Area Required

The National Recreation and Park Association (NRPA) has developed a set of standards for local developed open space (See Appendix). Although these standards have been promoted as goals, they are not universally accepted. Recreational needs vary from community to community, and desires for recreation vary also.

Listokin notes that: "Ideally, the [NRPA] national standards should stand the test in communities of all sizes. However, the reality often makes it difficult or inadvisable to apply national standards without question in specific locales. The uniqueness of every community, due to differing geographical, cultural, climatic, and socioeconomic characteristics, makes it imperative that every community develop its own standards for recreation, parks, and open space." Listokin suggests that "No general standard can specify the amount of open space that should remain undeveloped: a determination will depend on the particular development site."

### 14.4 Location of Open Space Parcels

Listokin notes what has been the subject of many debates in Delaware County, namely that: "Open space parcels should be easily accessible by development residents. In smaller developments, one large, centrally located parcel may suffice; but a large development may require several parcels, equitably distributed. Linking open space parcels is a good strategy, because it enlarges the area available for recreation. Parcels containing noise generators, such as basketball courts or playgrounds, should be sited to minimize disturbance to residents."

### **Recreation and Open Space in Kingston Township**

Ohio Wesleyan owns approximately 50 acres along the Alum Creek in Kingston and Brown Township. This area is used as a biological reserve for students at Ohio Wesleyan. It is not accessible to the general public.

There are no parks in Kingston Township. Many residents however, walk and bike along most of the Township roads. Other destinations for Kingston residents include:

Hogback Ridge Preserve & Mary Barber McCoy Nature Center--Located on Hogback Road, south of State Route 521, Brown Township, this preserve features 32 acres of untouched woods surrounded by a beautiful ravine system. Its centerpiece is the approximately 4000 square foot house, which has been converted to the Preservation Park District offices. The property was a gift to Preservation Parks from the estate of Mary Barber McCoy in 1998, and includes a nature education center with a classroom for use by all Delaware County schools, hiking trails, a picnic area, and several venues from which to observe the site's many birds and animals.

**Big Walnut Community Trail--**A gift from Walter and Kathy Sandel, this 0.6 mile surfaced trails in Sunbury follows an old railroad bed from a trestle across Old 3C Highway to Big Walnut Elementary School. The trail provides a walkway for people to enjoy a few pleasant, quiet moments free of traffic to stroll, bike, or cross-country ski.

**Alum Creek State Park--**Alum Creek State Park comprises 8,874 acres principally within Orange, Berlin, and Brown Townships and reaching into the northwestern corner of Kingston Township and parts of Genoa Township. There is access to the park in Brown Township from Hogback Road, Howard Road, State Route 521 and North Old State Road.

### **Alum Creek Lake serves five purposes:**

- Flood control
- Water supply (40 million gallons per day)
- Fish and wildlife enhancement
- Water Quality
- Recreation



Alum Creek Lake north of Howard Road

### **Recreational opportunities at Alum Creek State Park:**

### **Land (entire park)**

- 5.213 acres
- Hiking Trails 9.5 miles
- Bridle Trails- 50 miles
- Mountain Bike / Horse Trails-7 miles

### **Campground**

- 297 sites
- 5 rent-a- camp sites 5 rent-an-RV sites

### **Lake**

- 3,387 acres
- Boat Launching Ramps-5
- Unlimited horsepower for boats (speed limits enforced in designated areas)
- Swimming Beach- 3000 feet (largest inland beach in Ohio's state park system)
- Easement-239 acres
- Drainage Basin- 123.4 square miles

### Park personnel estimate that 4,000,000 annual visitors use the park.

### **14.6 Future Recreational Needs**

As Kingston Township grows it may wish to use the NRPA model, "which surveys the service area population to determine demand for different activities. Demand is then converted to facilities needs and then to land requirements." (Listokin and Walker, ibid, Pg. 222.)

### **Undeveloped Open Space - Regional and Township**

**Suggestion:** The large amounts of undeveloped open space in the Alum Creek State Park should help fulfill the need for undeveloped (passive) open space and a portion of developed (active) open space. They do not replace the need for neighborhood parks and township-wide parks with athletic fields for organized sports. Consider preserving corridors along the Little Walnut Creek and Alum Creek.

### **Undeveloped Open Space - Neighborhood**

**Suggestion:** The open space requirement for new Planned Residential Developments should be used to provide centrally located undeveloped and developed open space within residential neighborhoods of suburban densities (generally greater than 1 unit per net acre). These would be either mini parks of one acre or less within a ¼ mile radius of all portions of such neighborhoods, or 15-acre joint neighborhood parks that provide athletic fields for neighborhoods within ½ mile radius. The open space requirement in the PRD zones may be inadequate unless undevelopable land (slopes greater than 20%, power line easements and storm water detention basins are either excluded, or reduced in their contribution to the open space requirement).

### **Developed Open Space - Township wide**

Suggestion: The Township should provide active recreational areas for its ultimate population. Use the NRPA Standards as a guide.

### **NRPA Recreational Standards**

Excerpted from <u>The Subdivision and Site Plan Handbook</u>, David Listokin and Carole Walker, copyright 1989, Rutgers, State University of New Jersey, Center for Urban Policy Research, New Brunswick, New Jersey.

## EXHIBIT 3-3 NRPA RECOMMENDED STANDARDS FOR LOCAL DEVELOPED OPEN SPACE

This classification system is intended to serve as a *guide* to planning – not as an absolute blueprint. Sometimes more than one component may occur within the same site (but not on the same parcel of land), particularly with respect to special uses within a regional park. Planners of park and recreation systems should be careful to provide adequate land for each functional component when this occurs.

NRPA suggests that a park system, at a minimum, be composed of a "core" system of parklands, with a total of 6.25 to 10.5 acres of developed open space per 1,000 population. The size and amount of "adjunct" parklands will vary from community to community, but *must* be taken into account when considering a total, well-rounded system of parks and recreation areas.

| Component                            | Use   | Service<br>Area  | Desirable<br>Size | Acres / 1,000<br>Population | Desirable Site<br>Characteristics  |
|--------------------------------------|---|--|-------------------|-----------------------------|--|
|                                      | LOCAL /   | CLOSE-TO-HOME S  | _                 | 1 opulation                 | Cital actoristics  |
| Mini-Park                            | Specialized facilities that serve a concentrated or limited population or specific group such as tots or senior citizens  | Less than ¼ mile radius  | 1 acre or less    | 0.25 to 0.5<br>acres        | Within neighborhoods and in close proximity to apartment complexes, townhouse developments, or housing for the elderly.  |
| Neighborhood<br>Park /<br>Playground | Area for intense recreational activities, such as field games, craft, playground apparatus area, skating, picnicking, wading pools, etc.  | 1/4 to 1/2 mile radius<br>to serve a<br>population up to<br>5,000 (a<br>neighborhood). | 15+ acres         | 1.0 to 2.0 acres            | Suited for intense development. Easily accessible to neighborhood population – geographically centered with safe walking and bike access. May be developed as a school-park facility |
| Community Park                       | Area diverse environmental quality. May include areas suited for intense recreational facilities, such as athletic complexes, large swimming pools. May be an area of natural quality for outdoor recreation, such as walking, viewing, sitting, picnicking. May be any combination of the above, depending upon site suitability and community need. | Several<br>neighborhoods. 1<br>to 2 mile radius  | 25 + acres        | 5.0 to 8.0 acres            | May include natural features, such as water bodies, and areas suited for intense development. Easily accessible to neighborhood served.  |

TOTAL CLOSE-TO-HOME SPACE = 6.25-10.5 A / 1,000

Source: National Recreation and Park Association, Recreation, Park and Open Space Standards and Guidelines, p. 56. Copyright © 1983 by the National Recreation and Park Association, 3101 Park Center Drive, Alexandria, Virginia 22302.

| Activity /<br>Facility                           | Recommended<br>Space<br>Requirements                                 | Recommended<br>Size and Dimensions  | Recommended<br>Orientation                            | # Units Per<br>Population                                  | Service<br>Radius           | Location<br>Notes   |
|--|--|---|---|--|-----------------------------|---|
| Badminton  | 1620 sq. ft.   | Singles - 17' x 44' Doubles – 20' x 44' with 5' unobstructed are on all sides               | Long axis north-<br>south                             | 1 per 5000   | 1/4 - 1/2 mile              | Usually in<br>school,<br>recreation<br>center, or<br>church<br>facility. Safe<br>walking or<br>bike access                  |
| Basketball<br>Youth<br>High School<br>Collegiate | 2400-3036 sq. ft.<br>5040-7280 sq. ft.<br>5600-7980 sq. ft.          | 40'-50' x 84'<br>50' x 84'<br>50' x 94'<br>with 5' unobstructed space<br>on all sides       | Long axis north-<br>south                             | 1 per 5000   | 1/4 - 1/2 mile              | Same as badminton. Outdoor courts in neighborhoo d and community parks, plus active recreation areas in other park settings |
| Handball<br>(3-4 wall)                           | 800 sq. ft. for 4-<br>wall,<br>1000 sq.ft. for 3-<br>wall            | 20' x 40' – minimum of<br>10' to rear of 3-wall<br>court. Minimum 20'<br>overhead clearance | Long axis north-<br>south. Front wall at<br>north end | 1 per 20,000   | 15-30 minute<br>travel time | 4-wall usually indoor as part of multi- purpose facility. 3- wall usually outdoor in park or school setting                 |
| Ice Hockey                                       | 22,00 sq. ft.<br>including support<br>area                           | Rink 85' x 200' (minimum<br>85' x 185') Additional<br>5000 sq. ft. support area             | Long axis north-<br>south if indoor                   | Indoor – 1 per<br>100,000<br>Outdoor-depends<br>on climate | ½ - 1 hour travel time      | Climate<br>important<br>consideration<br>affecting no.<br>of units. Best<br>as part of<br>multi-purpose<br>facility.        |
| Tennis   | Minimum of 7,200<br>sq. ft. single court<br>(2 acres for<br>complex) | 36' x 78' 12' clearance on both sides 21' clearance on both ends                            | Long axis north-south                                 | 1 court per 2000   | 1⁄4 - 1⁄2 mile              | Best in<br>batteries of 2-<br>4. Located in<br>neighborhood/<br>community<br>park or<br>adjacent to<br>school site          |

| Volleyball                               | Minimum of 4,000 sq. ft.                  | 30' x 60'. Minimum 6' clearance on all sides  | Long axis north-south   | 1 court per 5,000                       | 1⁄4 - 1⁄2 mile                | Same as other<br>court activities<br>(e.g.<br>badminton,<br>basketball,<br>etc.)   |
|--|---|---|---|---|-------------------------------|--|
| Baseball<br>Official<br>Little<br>League | 3.0 – 3.85 acre minimum  1.2 acre minimum | <ul> <li>Baselines-90'</li> <li>Pitching distance-60 1/2'</li> <li>Foul lines-min. 320'</li> <li>Center field – 400'+</li> <li>Baselines-60'</li> <li>Pitching distance – 46'</li> <li>Foul lines – 200'</li> <li>Center field – 200'-250'</li> </ul> | Locate home plate so<br>pitcher throwing<br>across sun and batter<br>not facing it. Line<br>from home plate<br>through pitcher's<br>mound run east-<br>north-east | 1 per 5000<br>Lighted – 1 per<br>30,000 | 1⁄4 - 1⁄2 mile                | Part of<br>neighborhood<br>complex.<br>Lighted fields<br>part of<br>community<br>complex   |
| Field Hockey                             | Minimum 1.5<br>acres                      | 180' x 300' with a minimum of 10' clearance on all sides  | Fall season – long<br>axis northwest to<br>southeast<br>For longer periods,<br>north to south   | 1 per 20,000                            | 15 – 30 minute<br>travel time | Usually part<br>of baseball,<br>football,<br>soccer<br>complex in<br>community<br>park or<br>adjacent to<br>high school                  |
| Football                                 | Minimum 1.5 acres                         | 160' x 360' with a minimum of 6' clearance on all sides.  | Same as field hockey  | 1 per 20,000                            | 15-30 minutes<br>travel time  | Same as field<br>hockey  |
| Soccer                                   | 1.7 to 2.1 acres                          | 195' to 225' x 330' to 360' with a minimum clearance on all sides.  | Same as field hockey  | 1 per 10,000                            | 1-2 miles                     | Number of<br>units depends<br>on popularity.<br>Youth soccer<br>on smaller<br>fields adjacent<br>to schools or<br>neighborhood<br>parks. |

| Activity /<br>Facility  | Recommended<br>Space<br>Requirements    | Recommended Size and<br>Dimensions   | Recommended<br>Orientation  | # Units Per<br>Population                              | Service<br>Radius               | Location<br>Notes   |
|---|---|--|---|--|---------------------------------|---|
| Golf –<br>Driving Range   | 13.5 acres for<br>minimum of 25<br>tees | 900' x 680' wide. Add 12' width for each additional tee  | Long axis south-<br>west. Northeast with<br>golfer driving toward<br>north-east.                                | 1 per 50,000   | 30 minutes<br>travel time       | Part of golf<br>course<br>complex. As<br>a separate<br>unit, may be<br>privately<br>operated.                               |
| <sup>1</sup> / <sub>4</sub> Mile<br>Running<br>Track                    | 4.3 acres                               | Overall width – 276' Length – 600.02' Track width for 8 to 4 lanes is 32'.   | Long axis in sector<br>from north to south<br>to north-west-south-<br>east with finish line<br>at northerly end | 1 per 20,000   | 15-30<br>minutes<br>travel time | Usually part<br>of high<br>school or in<br>community<br>park<br>complex in<br>combination<br>with football,<br>soccer, etc. |
| Softball  | 1.5 to 2.0 acres                        | Baselines – 60' Pitching distance – 46' min. 40' – women Fast pitch field radius from plate – 225' between foul lines. Slow pitch – 275' (men) 250' (women)  | Same as baseball  | 1 per 5,000 (if<br>also used for<br>youth<br>baseball) | ⅓ - ⅓ mile                      | Slight<br>difference in<br>dimension<br>for 16" slow<br>pitch. May<br>also be used<br>for youth<br>baseball.                |
| Multiple<br>Recreation<br>Court<br>(baseball,<br>volleyball,<br>tennis) | 9,840 sq. ft.                           | 120' x 80'   | Long axis of courts<br>with <i>primary</i> use is<br>north-south  | 1 per 10,000   | 1-2 miles                       |   |
| Trails  | N/A                                     | Well defined head maximum 10' width, maximum average grade 5%, not to exceed 15%. Capacity rural trails – 40 hikers/day/mile. Urban trails – 90 hikers/day/mile.   | N/A   | 1 system per<br>region                                 | N/A                             |   |
| Archery<br>Range  | Minimum 0.55<br>acres                   | 300' length x minimum 10' wide<br>between targets. Roped clear space<br>on sides of range minimum of 30',<br>clear space behind targets<br>minimum of 90' x 45' with bunker.   | Archer facing north<br>+ or - 45°   | 1 per 50,000   | 30 minutes<br>travel time       | Part of a<br>regional /<br>metro park<br>complex  |
| Combination<br>Skeet and<br>Trap Field (8<br>station)                   | Minimum 30 acres                        | All walks and structures occur within an area approximately 130' wide by 115' deep. Minimum cleared area is contained within two superimposed segments with 100-yard radii (4 areas). Shot-fall danger zone is contained within two superimposed segments with 300-yard radii (36 acres) | Center line of length<br>runs northeast-south-<br>west with shooter<br>facing northeast.                        | 1 per 50,000   | 30 minutes<br>travel time       | Part of a<br>regional /<br>metro park<br>complex  |

| Golf Par 3 (18 hole) 9 Hole standard 18 hole standard | 50-60 A<br>Minimum<br>50 A<br>Minimum<br>110 A | Average length –vary 600-2700 yards Average length – 2250 yards Average length – 6500 yards | Majority of holes on north-south axis | 1/25,000<br>1/50,000 | ½ to 1 hour<br>travel time | 9 hole course can accommodate 350 people/day. 18 hole course can accommodate 500-550 people/day. Course may be located in community or district park, but should not be over 20 miles from population center. |
|---|--|---|---------------------------------------|----------------------|----------------------------|---|
|---|--|---|---------------------------------------|----------------------|----------------------------|---|

| Activity /<br>Facility | Recommended<br>Space<br>Requirements                     | Recommended Size and<br>Dimensions   | Recommended<br>Orientation   | # Units Per<br>Population   | Service<br>Radius            | Location<br>Notes   |
|------------------------|--|--|--|---|------------------------------|---|
| Swimming Pools         | Varies size of pool and amenities. Usually ½ to 2 A site | Teaching-minimum of 25 yards x 45' even depth of 3 to 4 feet. Competitive- minimum of 25m x 16m. Minimum of 27 sq. ft. of water surface per swimmer. Ratios of 2:1 deck vs. water. | None-although care must be taken in siting of lifeguard stations in relation to afternoon sun. | 1 per 20,000<br>(Pools should<br>accommodate 3<br>to 5% of total<br>population at a<br>time.) | 15 to 30 minutes travel time | Pools for general community use should be planned for teaching, competitive, and recreational purposes with enough depth (3.4m) to accommodate 1m and 3m diving boards. Located in community park or school site. |
| Beach Areas            | N/A  | Beach area should have 50 sq. ft. of land and 50 sq. ft. of water per user. Turnover rate is 3. There should be 3.4 A supporting land per A of beach.                              | N/A  | N/A   | N/A                          | Should have sand bottom with slope a maximum of 5% (flat preferable). Boating areas completely segregated from swimming areas.  |

### Recommendations at Build-Out

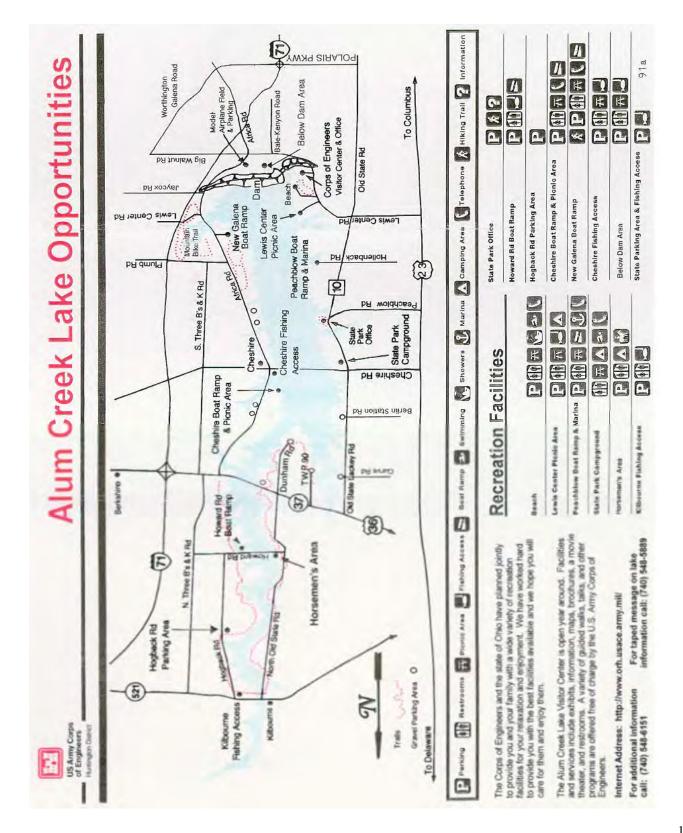
- 1. Overall active recreational area required NRPA recommends 6.25-10.5 acres /1000 population. Use the lower ratio because of the existence of Alum Creek State Park, Hoover Reservoir and Big Walnut Creek.
- 2. Establish mini parks of one acre or less within neighborhoods: as in neighborhoods using clustered housing located in smaller lots as in neo-traditional or conservation type developments serving the population within ¼ mile radius (these should be developer dedications as part of the PRD zoning).
- 3. Establish neighborhood parks of up to 15 acres, with field games, playground apparatus, serving the population within ¼ to ½ mile radius.
- 4. Establish a community park of 25-50 acres (when built out) with an athletic complex, large swimming pool, and recreational fields.
- 5. Within these parks consider the following facilities:
  - tennis courts
  - basketball courts
  - volleyball courts
  - baseball fields (this may be reduced according to the popularity of baseball versus soccer)
  - softball fields
  - football fields
  - field hockey field
  - soccer fields (this number may rise according to the popularity of soccer versus baseball)
  - ¼ mile running track
  - "universal playground"
  - swimming pools large enough to accommodate 200 people

Delaware County voters approved a ballot initiative for a parks levy in November 1999. Preservation Parks now receives a .4 mills levy, which is expected to generate about \$900,000 per year for parks. Ten percent of that money is set aside for townships and municipalities to develop parks. Kingston Township can apply for a share of this money.

### 14.7 Greenways

An inexpensive way to provide undeveloped open space is to assure the linkage of neighborhoods by green ways, or corridors of natural or man made landscaped paths, and trails. These can be easily placed along drainage ways, creeks, sewer easements and portions of the land that cannot be otherwise developed. These paths can maintain undisturbed wildlife habitat, or create new habitat through plantings and creative use of storm water retention and detention facilities. These areas of developments are often afterthoughts in the design and planning process. They should be viewed as opportunities to improve the value of the development and link developments. The Mid-Ohio Regional Planning Commission has developed a set of suggested standards for greenways that are available at the Delaware County Regional Planning Commission.

Map 14.1 Alum Creek Lake Opportunities



# Chapter 15 Future Development Patterns



Wilson Road and the southern edge of Kingston Township

### 15.1 Preserving Rural Character -The Community's Choice

The number one goal of Kingston Township is to preserve its rural character. This rural character is expressed as an overall low density, and the preservation of natural resources including agriculture, ravines and trees as well as fence-lines, wildlife corridors and traditional and agricultural buildings.

Clearly, part of what makes the township desirable is the vision that there will always be some permanent, interconnected open space and natural lands throughout. When agriculture changes to other land uses, this rural character will be lost unless conservation areas are preserved by future development patterns.

Kingston Township is still a rural community with a little over 70% of its acreage in agriculture and undeveloped land. However, agricultural lands are converting to large-lot residential uses, which account for 18% of all acreage.

Kingston's vision to remain a low-density residential community seems understandable and defensible for the scope of this 2006 Comprehensive Plan because only limited areas are serviced by public centralized sanitary sewer.

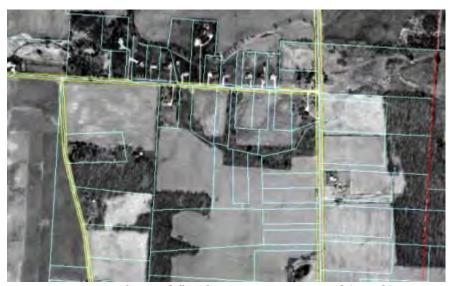


Large lots and Common Access Drives are found throughout the county

### 15.2 Development pattern options to consider

### **Rural Large Lot Development**

Most residential development has taken place along township roads via lot splits (minor no plat subdivisions) on lots larger than one acre to accommodate an on-site sewage disposal system. This large lot development, as long as it is surrounded by open space, has been accepted as retaining rural character, but if <u>all</u> rural lands were developed for two-acre house lots, there would be no interconnecting open space, and the rural character would be destroyed. Development of large lots <u>everywhere</u> on township roads would actually lead to "rural sprawl".



Frontage splits and flag lots at Rosecrans and S.R. 61

For Kingston Township, large lot splits along township roads will be a viable alternative so long as state law permits such "no plat" subdivisions, but they do not preserve connected open space.

### **Build-Out Map**

To picture how the township would look fully built out at today's zoning standards, a Build-Out Map was created. This map may be compared with the Existing Land Use, Development Pattern and Land in Speculation Maps from Chapter 7 to see how much land currently is available for development, and how the township would look fully built out under the current zoning and subdivision regulations.

### The Build-Out Map suggests:

- 1. Opportunities for open space exist along the Little Walnut tributaries. However, the branches of this watershed cross many different pieces of property, posing a challenge for the acquisition of continuous open space.
- 2. Most of the development has occurred along road frontage with very little conventional new subdivisions.
- 3. There is no logical location for commercial or industrial development, except for major intersections. The Interstate interchange proposed in the 2002 County Thoroughfare Plan at S.R. 521 poses the only obvious location for such intense use.
- 4. There is no traditional "village" in the township, although the land surrounding the Township Hall presents a good possibility of creating one, as long as the lots are large enough to support on-site sanitary systems.
- 5. There are no schools in the northeast corner of the county. With complete build-out, a new school site(s) must be provided.
- 6. Few new road connections are guaranteed due to the repeated use of the Common Access Drive (CAD). However, much of the land is inaccessible without adding some new network connections.
- 7. As road frontage is used up by no-plat lot splits and CADs, some new "conventional" subdivision streets will be platted. Conventional subdivisions create only lots and streets. There are no public open spaces to walk to, no central green or woods, no riverbank or lakeshore because all the land has been parceled out to all landowners. Conventional subdivisions do not create permanent, interconnected open space. They do not preserve conservation areas. If all land were divided into conventional subdivisions, rural character would eventually be lost.
- 8. It should be noted that when the Build Out map was prepared, insufficient data was available to reflect the layout of the NorthStar PRD development, and the 605.78 acre land holding known as The Pastures at Blue Church had not yet been assembled.

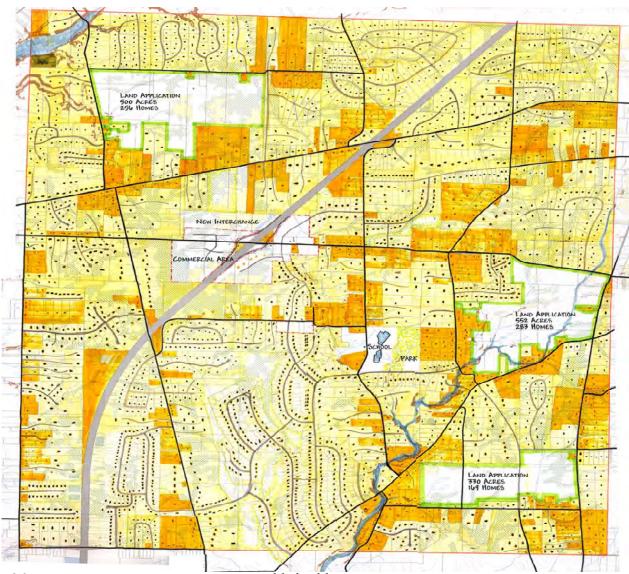
### **Conventional Subdivisions**

Kingston Township has no conventional subdivisions to date (only CAD subdivisions). Two Berlin Township conventional subdivisions are presented to illustrate rural, large lot subdivisions.

### Map 15.1 Kingston Township Build-out Map

### **Kingston Township**

# **Build-out Map**



Map uses existing zoning to create a possible build-out scenario:

FR-1 at 1 du/1.95 acres PRD at 1 du/1.95 acres

- Orange land assumed to be already subdivided to smallest size under current code
   Yellow land that could be subdivided further to serve as new house lots
   Green bordered areas parcels that could be assembled to create Planned Residential Districts utilizing Land Application waste disposal systems.

DCRPC 3/11/2003



A portion of Summerwood in Berlin Township



Twin Hickory Farms in Berlin Township

### **Cluster Subdivisions**

For thirty years, cluster subdivisions, or "Planned Residential Developments" have been touted as an improved alternative to the conventional subdivision. In PRDs, greater design flexibility is obtained by reducing lot size, and width.

The absence of comprehensive standards for quantity, quality and configuration of open space has permitted many uninspired designs. The notable exception to the general failure of PRDs is the "golf course" development. However, the success of golf course developments only underscores the desire for people to live on or near permanent open space. Furthermore, golf course developments typically do not provide public open space. The open space is not available to non-golfers and young children.

The NorthStar development is a cluster or PRD subdivision, the first in Kingston Township. The PRD requires a minimum lot size as approved per the development plan, but not less than ½ acre. In 2007, the Township adopted a revised PRD Chapter in the Township Zoning Resolution.



Typical Delaware County Planned Residential Development

### **Farmland Preservation**

The Delaware County Commissioners appointed a Farmland Preservation Task Force in 1998. The Task Force issued a Farmland Preservation Plan in June 2000 with 12 recommendations for action. Recommendation number 4 is to "Support and encourage any township that seeks to protect its agricultural industry through zoning codes."

With 71% of Kingston Township land still in agriculture/undeveloped land, and a goal to retain rural character, agricultural preservation strategies in zoning should be considered.

The following are some possibilities:

A. Purchase of Agricultural Easements- (Quoting from the County Farmland Preservation Plan): "With the passage of Ohio Senate Bill 223 in 1998. Purchase of agricultural conservation easements (PACE), also known as purchase of development rights (PDR). Is now legal under Ohio law. The Ohio Department of Agriculture-Office of Farmland Preservation is currently drafting rules in anticipation that Ohio will be able to offer matching funds to local entities that have set up a program to retain and protect farmland."

### B. The Farm Village

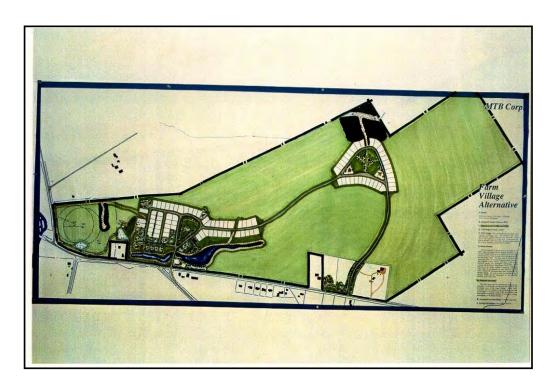
The Farm Village is a conservation subdivision where the "secondary" conservation area is farmland. In the Kingston Township Farm Residential zone 1.95 acre lots are currently required. As an alternative, the Farm Village subdivision could be permitted at the same overall density, but with clustering of smaller lots to preserve large amounts of open space as agriculture.

The township could delineate areas farmers wish to see remain agricultural, if any. The township should determine what densities can reasonably be served with roads, sewer, water, fire, schools, etc, and plan for only those densities.

The Township's PRD zoning category has been drafted to allow designs that might be consistent with the Farm Village concept.



Conventional subdivision 104 lots, 2.5 acres per lot, total 320 acres. Wet soils shown in green.



Farm Village, 120 lots in cluster, 240 acres in permanent easement for open space/farmland, 320 acres total

### 15.3 Which Development Pattern for Kingston?

Kingston Township should consider the benefits of some planning principles in its future land use.

- 1. Identify critical resource areas that should be given primary or secondary conservation area status.
- 2. In rural areas, permit a mixture of road frontage lot split development and PRD Subdivisions.
- 3. Permit and encourage Farm Village-style or Conservation Subdivision-style PRD developments to preserve farmland and natural features while allowing farmers to divide residential lots.
- 4. Subject to the applicable provisions of the Zoning Resolution, permit residential subdivisions that best utilize the available buildable land, protect the environmentally sensitive areas, retain open spaces maintain maximum vegetation and tree cover, and assure the protection of surface water and groundwater.

### 15.4 Development Patterns and Cost of Services

Many growing communities struggle with the cost of providing new services, especially when their property tax base is primarily residential. Depending on the development pattern chosen, Kingston Township has the potential opportunity to develop some commercial property tax base on SR 521 and SR 61. This commercial tax base could help pay for new services and support the school district.

Every community must determine what land use mix provides an appropriate balance of commercial versus residential property tax base. Single family residential development is often suspected of not paying its fair share of its costs. In order to ascertain what land use mix might be optimal, it is necessary to analyze the fiscal impacts of development to determine the costs versus revenues to the community.

Models for estimating the fiscal impact of a new development were developed by Robert Burchell, David Listokin and William Dolphin in *The New Practitioner's Guide to Fiscal Impact Analysis*, (Center for Urban Policy Research, Rutgers University, 1985) and the *Development Assessment Handbook*, Urban Land Institute, 1994).

### 15.5 Impact Fees and Ohio Law

The Community Vision for Kingston Township will be represented by its Comprehensive Plan. The potential fiscal impacts of this plan may wish to be determined on a project basis for projects of large magnitude.

Some states permit impact fees based upon a fair share allocation of the costs of new development. Ohio planning and zoning legislation does not currently empower townships to charge impact fees that offset costs of service expansion (roads, schools, parks, etc.). It has been generally held, however, that road improvements immediately adjacent to the development can be attributable to the project as part of the subdivision and zoning process. If large impact development proposals do not reasonably mitigate their impacts, they may impose an undue burden on the township. In such cases the rezoning may be premature, or not in conformance with the Comprehensive Plan.

An Ohio Supreme Court case (Home Builders Association of Dayton and the Miami Valley et al v. City of Beavercreek, 89 Ohio St 3d 121; decided June 14, 2000) held that a municipal impact fee imposed on real estate developers is constitutional if:

- 1. The impact fee bears a reasonable relationship between the city's interest in constructing new roads and the traffic generated by new developments, and
- 2. There is a reasonable relationship between the fee imposed and the benefits accruing to the developer as a result of the construction of new roads.

Clearly Ohio cities and villages may now adopt impact fees that conform to the Supreme Court's Beavercreek ruling in Ohio. Whether this power will extend to townships is unclear, and should be discussed with township legal counsel before a township attempts to legislate impact fees.

### Chapter 16

### **Implementation**

The Comprehensive Plan is intended to be the basis for township zoning. Zoning is the enforceable tool. The Comprehensive Plan is a guide. It should be consulted whenever there is a proposed rezoning.

### **16.1 Recommended Zoning Amendments**

### 1. Maintain 1.95 acre minimum lot size in FR-1 district.

### 2. Planned Residential Developments

- a. Maintain greater environmental protection for floodplains, wetlands, and steep slopes in PRDs.
- b. Encourage conservation subdivisions in all planning sub-areas.

### 3. Signs

- a. Revise sign code to prohibit pole signs.
- b. Permit ground signs and fascia signs.

### 4. Floodplains

- a. Prohibit filling of 100- year floodplain unless granted a conditional use for cause.
- b. Create a zoning regulation for floodplain development that supplements the county floodplain regulations.

### 5. Traffic and Access Management

- a. Work with County Engineer to develop access policies and standards for county/township roads.
- b. Coordinate developments along state roads with ODOT regarding access management standards.
- c. Require access management compliance as condition of development plan approval for Planned Developments.
- d. Require traffic studies for rezoning in accordance with Delaware County Engineer's standards. Require developers to mitigate their fair share of the traffic impact as part of PRD (within and reasonable proximity to) review and approval. Establish a level of service (LOS) C as the desired level of service.

### 6. New Roads

- a. Use the comprehensive plan as the guide where new roads need to be built.
- b. Coordinate with County Engineer regarding corridor studies for such new roads.
- c. Seek provision of right-of-way within super blocks of land developed as planned districts.

### 7. Recreation

- a. Use NRPA standards as a guide for recreational areas needed.
- b. Secure the provision and/or construction of useable open space by developers of major new Planned Residential Developments (30 homes or more).

### 8. Green ways

- a. Require green way linkage of new Planned Residential Developments (Conservation Subdivisions).
- b. Add green way criteria to the zoning resolution; count its area as open space.

### 9. Buffer

a. Amend the zoning resolution to show a landscape detail buffer between incompatible land uses.

### 10. Definitions

a. Add other definitions as needed to clarify the intention of the zoning resolution.

### 16.2 Non zoning related actions

1. Acquire additional lands for future township parks.