

# FORSYTH COUNTY COMPREHENSIVE PLAN 2004-2025

Amended May 21, 2009



# **FORSYTH COUNTY COMPREHENSIVE PLAN**

**2004 - 2025**

## **FORSYTH COUNTY, GEORGIA**

Adopted February 23, 2004

Amended December 13, 2004

Amended June 5, 2008

Amended September 4, 2008

Amended May 21, 2009

### **Board of Commissioners**

Charles Laughinghouse, District 1

Brian Tam, District 2

Jim Harrell, District 3

Patrick Bell, District 4

Jim Boff, District 5

### **Planning Commission**

Brant Meadows, District 1

Pam Livesay, District 2

Barry Russell, District 3

Matt Murphy, District 4

Jim Quinn, District 5

Forsyth County Planning and Development  
110 East Main Street Suite 100 Cumming,  
Georgia 30040

FORSYTH COUNTY  
GEORGIA

A RESOLUTION TO ADOPT TO THE AMENDED FORSYTH COUNTY  
COMPREHENSIVE PLAN 2004 – 2025 BY THE FORSYTH COUNTY BOARD  
OF COMMISSIONERS

WHEREAS, Forsyth County, Georgia is a Qualified Local Government in compliance with the Georgia Planning Act of 1989, having adopted its Comprehensive Plan on December 27, 1993; and

WHEREAS, the Forsyth County Board of Commissioners initially adopted Capital Improvement Element on November 15, 2003; and

WHEREAS, a major update to the comprehensive plan was adopted on the 23<sup>rd</sup> day of February, 2004; and

WHEREAS, the adopted goals and objectives are consistent with the statewide goals established by the Department of Community Affairs; and

WHEREAS, appropriate notice has been provided and public hearings have been held that meet and exceed the minimum procedural requirements for preparing and amending comprehensive plans; and

WHEREAS, the major amendments to the Forsyth County Comprehensive Plan 2004–2025 have been reviewed by the Georgia Mountains Regional Development Center and the Georgia Department of Community Affairs and found to be in compliance with the minimum standards;

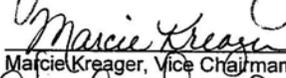
NOW, THEREFORE, BE IT RESOLVED by the Forsyth County Board of Commissioners that the amended Forsyth County Comprehensive Plan 2004-2025 is hereby adopted.

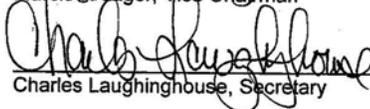
BE IT FURTHER RESOLVED that a copy of this Resolution shall be submitted to the Georgia Mountains Regional Development Center within seven days of adoption of the amended plan.

Done this 13th day of DECEMBER, 2004.

**FORSYTH COUNTY BOARD OF  
COMMISSIONERS**

  
\_\_\_\_\_  
Jack Conway, Chairman

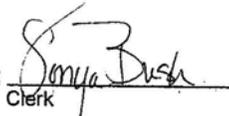
  
\_\_\_\_\_  
Marcie Kreager, Vice Chairman

  
\_\_\_\_\_  
Charles Laughinghouse, Secretary

\_\_\_\_\_  
David F. Pritchett, Member

  
\_\_\_\_\_  
Eddie Taylor, Member

Attest:

  
\_\_\_\_\_  
Clerk

**A RESOLUTION TO ADOPT THE PARTIAL UPDATE AS AMENDED TO THE  
FORSYTH COUNTY COMPREHENSIVE PLAN 2004 - 2025 BY THE FORSYTH  
COUNTY BOARD OF COMMISSIONERS**

**WHEREAS**, a major update to the comprehensive plan was adopted on the 23<sup>rd</sup> day of February 2004; and

**WHEREAS**, major amendments to the Forsyth County Comprehensive Plan 2004 - 2025 were adopted on the 13<sup>th</sup> day of December 2004; and

**WHEREAS**, minor amendments to the Forsyth County Comprehensive Plan 2004 - 2025 were adopted on the 5<sup>th</sup> day of June 2008 and the 4<sup>th</sup> day of September 2008; and

**WHEREAS**, the comprehensive plan was prepared in accordance with the Minimum Planning Standards and Procedures for Local Comprehensive Planning established by the Georgia Planning Act of 1989; and

**WHEREAS**, appropriate notice has been provided and public hearings have been held that meet and exceed the minimum procedural requirements for preparing and amending comprehensive plans; and

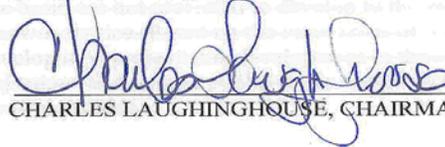
**WHEREAS**, these changes to the Forsyth County Comprehensive Plan 2004 - 2025 have been reviewed by the Georgia Mountains Regional Development Center and the Georgia Department of Community Affairs and found to be in compliance with the minimum standards.

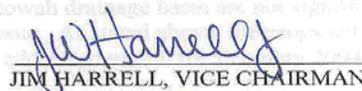
**BE IT THEREFORE RESOLVED** by the Forsyth County Board of Commissioners that the amended Forsyth County Comprehensive Plan 2004 - 2025 is hereby adopted.

**BE IT FURTHER RESOLVED** that a copy of this resolution shall be submitted to the Georgia Mountains Regional Development Center within seven days of adoption of the amended plan.

Done this 21<sup>st</sup> day of May 2009.

**FORSYTH COUNTY BOARD OF COMMISSIONERS**

  
CHARLES LAUGHINGHOUSE, CHAIRMAN

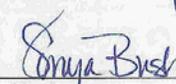
  
JIM HARRELL, VICE CHAIRMAN

  
PATRICK B. BELL, SECRETARY

  
BRIAN R. TAM, MEMBER

  
JIM BOFF, MEMBER

Attest:

  
Clerk



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# PARTIAL UPDATE

## Quality Community Objectives Local Assessment

<i>Development Patterns</i>			
<b>Traditional Neighborhoods</b>			
<b>Traditional neighborhood development patterns should be encouraged including the use of more human scale development, compact development, mixed uses within easy walking distance of one another, and designs that facilitate pedestrian activity.</b>			
Statement	Yes	No	Comments
1. If we have a zoning code, it does not separate commercial, residential and retail uses in every district.	X		Limited commercial uses are allowed with a conditional use permit in residential districts. A mix of uses is encouraged in the Planned Unit Development District, allowed in the Ronald Reagan/Union Hill Overlay District, and required in the Master Planned District.
2. Our community has ordinances in place that allow neo-traditional development “By right” so that developers do not have to go through a long variance process.	X		The following Forsyth County regulations allow for certain aspects of neo-traditional development to be incorporated into residential, commercial, and mixed-use projects: Conservation Subdivision, Planned Unit Development District, Master Planned District, Castleberry-Bethelview Crossroads Overlay Zoning District, and Ronald Reagan/Union Hill Overlay District.
3. We have a street tree ordinance that requires new development to plant shade-bearing trees appropriate to our climate.	X		The Forsyth County Tree Protection and Replacement Ordinance, Forsyth County Ordinance #98. The Forsyth County Recommended Plant List contains many native and drought tolerant species.
4. Our community has an organized tree-planting campaign in public areas that will make walking more comfortable in summer.	X		Keep Forsyth County Beautiful sponsors several tree planting programs. The Forsyth County Tree Protection and Replacement Ordinance establishes guidelines for a tree fund for developers to pay into when they cannot fulfill the required tree density. This fund is used to plant trees on public property.
5. We have a program to keep our public areas (commercial, retail districts, parks) clean and safe.	X		The Forsyth County Unified Development Code has provisions in Chapters 10 and 12 for maintenance and security of commercial developments. The Parks & Facilities Division of the Forsyth County Parks & Recreation Department provides maintenance and security for all county parks.
6. Our community maintains its sidewalks and vegetation well so that walking is an option some would choose.	X		The Forsyth County Public Facilities Department maintains landscaping along all public sidewalks. The Forsyth County Engineering Department provides maintenance for all sidewalks within the right-of-way of county owned roads.
7. In some areas, several errands can be made on foot, if so desired.	X		Certain mixed use and larger commercial developments within Forsyth County contain a sidewalk network allowing for pedestrian traffic to and from residential areas.
8. Some of our children can and do walk to school safely.	X		Students attending Forsyth County elementary schools are allowed to walk to school with parental supervision. The infrastructure is in place for students attending several Forsyth County middle and high schools to walk to school.
9. Some of our children can and do bike to school safely.	X		Students attending Forsyth County elementary schools are allowed to bike to school with parental supervision. The infrastructure is in place for students attending several Forsyth County middle and high schools to bike to school.
10. Schools are located in or near neighborhoods in our community.	X		Schools are permitted by right in all residential zoning districts.

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<b>Infill Development</b>			
<b>Communities should maximize the use of existing infrastructure and minimize the conversion of undeveloped land at the urban periphery by encouraging development or redevelopment of sites closer to the downtown or traditional urban core of the community.</b>			
Statement	Yes	No	Comments
1. Our community has an inventory of vacant sites and buildings that are available for redevelopment and/or infill development.	X		The Cumming-Forsyth County Chamber of Commerce utilizes an online inventory system to identify available properties and land.
2. Our community is actively working to promote brownfield redevelopment.	X		The Cumming-Forsyth County Chamber of Commerce works with the Forsyth County Development Authority and the Forsyth County Board of Commissioners to promote brownfield redevelopment.
3. Our community is actively working to promote greyfield redevelopment.	X		The Cumming-Forsyth County Chamber of Commerce works with the Forsyth County Development Authority and the Forsyth County Board of Commissioners to promote greyfield redevelopment.
4. We have areas of our community that are planned for nodal development (compacted near intersections rather than spread along a major road.)	X		The Forsyth County future land use map designates 10 commercial nodes to concentrate commercial and high intensity development into compact patterns to reduce commercial strip development.
5. Our community allows small lot development (5,000 square feet or less) for some uses.	X		There are no minimum lot size requirements for site development within any commercial districts, but there are maximum building coverage regulations. One multi-family residential zoning district allows for a minimum lot size of 4,000 sq. ft. with public sewer. Minimum lot sizes for the Master Planned District and Planned Unit Development District are flexible and are approved with the development plan.
<b>Sense of Place</b>			
<b>Traditional downtown areas should be maintained as the focal point of the community or, for newer areas where this is not possible, the development of activity centers that serve as community focal points should be encouraged. These community focal points should be attractive, mixed-use, pedestrian-friendly places where people choose to gather for shopping, dining, socializing, and entertainment</b>			
Statement	Yes	No	Comments
1. If someone dropped from the sky into our community, he or she would know immediately where he or she was, based on our distinct characteristics.	X		Forsyth County has many natural features such as Sawnee Mountain and Lake Lanier that distinguish it from surrounding communities. The Avenue Forsyth and Vickery Village are two pedestrian oriented developments unique to Forsyth County.
2. We have delineated the areas of our community that are important to our history and heritage and have taken steps to protect those areas.	X		Historic resources are fairly evenly distributed throughout the county so no areas have been specifically delineated. The planning department uses a historic resource layer in GIS to determine existing resources as part of a staff technical report created for all rezoning applications. The Forsyth County Unified Development Code contains provisions for delaying the demolition of historic structures to ensure proper review of their significance.
3. We have ordinances to regulate the aesthetics of development in our highly visible areas.	X		The Forsyth County Unified Development Code contains design regulations for retail developments larger than 40,000 sq. ft., senior housing, and development within the Master Planned District along

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			with design guidelines for the Neighborhood Shopping District, Urban Village District, and the Planned Unit Development District. The Unified Development Code also contains architectural and landscaping regulatory elements in commercial and industrial districts. Forsyth County has created three design overlay districts for specific commercial areas of the county.
4. We have ordinances to regulate the size and type of signage in our community.	X		The Forsyth County Sign Ordinance, Ordinance # 74, has regulations for the size and type of signage throughout the county.
5. We offer a development guidebook that illustrates the type of new development we want for our community.		X	While Forsyth County does not have a general development guidebook, the three codified design overlays direct new development in terms of aesthetics. In addition, there is a design guidelines booklet for pedestrian oriented signage that accompanies the sign ordinance for those projects in neighborhood shopping, urban village, master planned districts as well as any other project that demonstrates pedestrian oriented features.
6. If applicable, our community has a plan to protect designated farmland.		X	Although Forsyth County does not have a specific plan to protect farmland, the Forsyth County Comprehensive Plan identifies areas of prime agricultural land and includes the potential for preservation of farmland through the conservation of greenspace, forest land, and wildlife habitat. The Forsyth County Unified Development Code includes regulations for conservation subdivisions which identifies farmland as a secondary conservation area.

**Transportation Alternatives**  
**Alternatives to transportation by automobile, including mass transit, bicycle routes, and pedestrian facilities, should be made available in each community. Greater use of alternate transportation should be encouraged.**

Statement	Yes	No	Comments
1. We have public transportation in our community.	X		Forsyth County operates a Dial-A-Ride bus service for all citizens and has one park and ride lot for the Georgia Regional Transportation Authority (GRTA) Xpress Bus.
2. We require that new development connects with existing development through a street network, not a single entry/exit.	X		The Forsyth County Unified Development Code contains regulations for commercial and office developments to provide inter-parcel connections for both pedestrians and automobiles. Developers may be asked to install or provide funding for any roadway improvements located along their property that is identified in the Forsyth County Bicycle Transportation and Pedestrian Walkways Plan.
3. We have a good network of sidewalks to allow people to walk to a variety of destinations.	X		Currently a substantial network of completed sidewalks or sidewalks under construction exists in the south-eastern portion of Forsyth County with signed shared roadways in the northern section of the county. The Bicycle Transportation and Pedestrian Walkways Plan calls for additional sidewalks, multi-use paths, and greenways to be located throughout most of the county by 2025.
4. We have a sidewalk ordinance in our community that requires all new development to provide user-friendly sidewalks.	X		Developers may be asked to install or provide funding for any roadway improvements located along their property as identified in the Forsyth County Bicycle Transportation and Pedestrian Walkways

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			Plan. Code requirements for large scale retail developments require the installation of an internal sidewalk network as well as sidewalks along the public street. Single family dwellings within senior housing developments require a sidewalk system as well as paths connecting open space.
5. We require that newly built sidewalks connect to existing sidewalks wherever possible	X		When existing sidewalks are present along roadways, new developments are expected to connect with them. In addition, developers may be asked to install or provide funding for any roadway improvements located along their property that is called for in the Forsyth County Bicycle Transportation and Pedestrian Walkways Plan.
6. We have a plan for bicycle routes through our community.	X		Forsyth County completed an update to the Bicycle Transportation and Pedestrians Walkways Plan in 2008.
7. We allow commercial and retail development to share parking areas wherever possible.	X		The Forsyth County Unified Development Code allows for two or more uses to share parking when feasible.

<b>Regional Identity</b>			
<b>Each region should promote and preserve a regional "identity," or regional sense of place, defined in terms of traditional architecture, common economic linkages that bind the region together, or other shared characteristics.</b>			
1. Our community is characteristic of the region in terms of architectural styles and heritage.	X		According to the Forsyth County <i>Historic Resources Survey Report</i> , historic resources are distributed throughout the county. Numerous archeological sites in the county provide evidence of past Native American activity. The northern portion of Forsyth County has maintained rural land use characteristics. The Castleberry-Bethelview Overlay Zoning District has developed an equestrian theme to complement the horse farm tradition of that area.
2. Our community is connected to the surrounding region for economic livelihood through businesses that process local agricultural products.	X		A rendering plant that processes poultry from the region is located in Forsyth County. The fairgrounds in Cumming also host a farmers market during the growing season with local products.
3. Our community encourages businesses that create products that draw on our regional heritage (mountain, agricultural, metropolitan, coastal, etc.)	X		The Cumming-Forsyth County Chamber of Commerce markets regional aspects of the community's strengths including agri-business, tourism related industries, and manufacturing.
4. Our community participates in the Georgia Department of Economic Development's regional tourism partnership.	X		Forsyth County regularly participates in tourism programs such as the Hospitality Highway campaign through the Georgia Department of Economic Development.
5. Our community promotes tourism opportunities based on the unique characteristics of our region.	X		Forsyth County promotes tourism related to regional resources such as Lake Lanier and the Chattahoochee River. The City of Cumming holds a country fair and festival each year to promote local heritage. Forsyth County is also a part of the Hospitality Highway campaign along Georgia 400.
6. Our community contributes to the region, and draws from the region, as a source of local culture, commerce, entertainment, education.	X		Forsyth County contributes to the region as a source of culture with the Cumming Country Fair and Festival, Lake Lanier, the Sawnee Mountain Park and Preserve, and the Chattahoochee River. The county also participates in regional education with a branch of Lanier

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			Technical College and an MBA program through North Georgia College & State University in the City of Cumming. Forsyth County draws from the region with its central location between metro Atlanta and the mountains.
<b>Resource Conservation</b>			
<b>Heritage Preservation</b> The traditional character of the community should be maintained through preserving and revitalizing historic areas of the community, encouraging new development that is compatible with the traditional features of the community, and protecting other scenic or natural features that are important to defining the community's character.			
Statement	Yes	No	Comments
1. We have designated historic districts in our community.		X	There are no designated historic districts in Forsyth County, but two National Register listings are in the community, the Fowler Family Farm and Poole's Mill Bridge.
2. We have an active historic preservation commission.		X	Forsyth County does not have a historic preservation commission, but the Historical Society of Forsyth County, Inc. is an active organization.
3. We want new development to complement our historic development, and we have ordinances in place to ensure that happening.		X	There are no local historic preservation ordinances at this time, but increased architectural standards attempt to create compatibility with historic resources. For example, the Castleberry-Bethelview Overlay Zoning District contains architectural guidelines with an equestrian theme that complements local horse farms in the area.
<b>Open Space Preservation</b> New development should be designed to minimize the amount of land consumed, and open space should be set aside from development for use as public parks or as greenbelts/wildlife corridors. Compact development ordinances are one way of encouraging this type of open space preservation.			
1. Our community has a greenspace plan.	X		The Forsyth County greenspace plan was instituted in 2000 and officially adopted as part of the Comprehensive Plan in 2004. The Board of Commissioners is currently pursuing options to obtain additional greenspace either through direct purchase via bond money or through donations.
2. Our community is actively preserving greenspace, either through direct purchase or by encouraging set-asides in new development.	X		The Board of Commissioners is currently pursuing options to obtain additional greenspace either through direct purchase via bond money or through donations. The Forsyth County Unified Development Code also requires a certain percentage of open space to be included in commercial and industrial developments, senior housing, conservation subdivisions, and Master Planned District developments.
3. We have a local land conservation program, or, we work with state or national land conservation programs to preserve environmentally important areas in our community.	X		Forsyth County has a greenspace plan that promotes land preservation for active and passive recreation as well as open space. The Forsyth County Greenspace Plan strives to meet the goals of the Georgia Greenspace Program. The Forsyth County Comprehensive Plan designates areas for conservation, public parks, and private parks on the future land use map.
4. We have a conservation subdivision ordinance for residential development that is widely used and protects open space in perpetuity.	X		The Forsyth County Unified Development Code contains regulations for conservation subdivisions.

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<b>Environmental Protection</b>			
<b>Environmentally sensitive areas should be protected from negative impacts of development, particularly when they are important for maintaining traditional character or quality of life of the community or region. Whenever possible, the natural terrain, drainage, and vegetation of an area should be preserved.</b>			
Statement	Yes	No	Comment
1. Our community has a comprehensive natural resources inventory.	X		The Forsyth County GIS Department maintains layers for the Part V Environmental Criteria as well as floodplains and steep slopes. This data has been obtained from federal, state, and county sources. The last update of the Forsyth County Comprehensive Plan also contains an inventory of all natural resources.
2. We use this resource inventory to steer development away from environmentally sensitive areas.	X		The natural resources inventory is used during the rezoning process to identify any natural resources that could potentially be disturbed during development.
3. We have identified our defining natural resources and have taken steps to protect them.	X		The Forsyth County Unified Development Code contains overlay districts for the Part V Environmental Criteria (water supply watersheds, groundwater recharge areas, protected rivers, and wetlands). Forsyth County also has a Soil Erosion and Sedimentation Ordinance, Ordinance #73, to protect water quality.
4. Our community has passed the necessary Part V Environmental Ordinances, and we enforce them.	X		The Forsyth County Unified Development Code contains overlay districts for the following Part V Environmental Criteria: Water supply watersheds, groundwater recharge areas, the Etowah River corridor, and wetlands. The protected mountain portion of the Part V Criteria does not apply.
5. Our community has a tree preservation ordinance which is actively enforced.	X		The Forsyth County Tree Protection and Replacement Ordinance, Forsyth County Ordinance #98.
6. Our community has a tree-replanting ordinance for new development.	X		The Forsyth County Tree Protection and Replacement Ordinance, Forsyth County Ordinance #98.
7. We are using stormwater best management practices for all new development.	X		Forsyth County Ordinance #73, Soil Erosion and Sedimentation Control.
8. We have land use measures that will protect the natural resources in our community (steep slope regulations, floodplain or marsh protection, etc.)	X		The Forsyth County Unified Development Code contains overlay districts to protect natural resources plus Forsyth County complies with all state and federal regulations.
<b>Social and Economic Development</b>			
<b>Growth Preparedness</b>			
<b>Each community should identify and put in place the pre-requisites for the type of growth it seeks to achieve. These might include infrastructure (roads, water, sewer) to support new growth, appropriate training of the workforce, ordinances and regulations to manage growth as desired, or leadership capable of responding to growth opportunities and managing new growth when it occurs.</b>			
Statement	Yes	No	Comments
1. We have population projections for the next 20 years that we refer to when making infrastructure decisions.	X		Forsyth County planning staff uses population projections from the Comprehensive Plan. Other county staff uses these projections or projections from departmental master plans prepared in conjunction with consultants.

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2. Our local governments, the local school board, and other decision-making entities use the same population projections.		X	Each entity uses different projections that have been obtained from consultants, the U.S. Census, the Georgia Department of Community Affairs, and the Atlanta Regional Commission.
3. Our elected officials understand the land-development process in our community.	X		Elected officials attend training through the Association of County Commissioners of Georgia and may elect to attend conferences to further their understanding of planning processes.
4. We have reviewed our development regulations and/or zoning code recently, and believe that our ordinances will help us achieve our QCO goals.	X		Updates to the Unified Development Code occur on a regular basis. To date, there have been nineteen versions of the UDC since initial publication in 2000.
5. We have a Capital Improvements Program that supports current and future growth.	X		The Capital Improvements Element is a section of the Forsyth County Comprehensive Plan which is updated annually along with the short term work program and impact fee program.
6. We have designated areas of our community where we would like to see growth, and these areas are based on the natural resources inventory of our community.	X		The Forsyth County future land use map designates commercial nodes where the county would like to direct commercial and other high intensity growth. The Forsyth County future land use map also designates certain areas as Corridor Transitional. These areas are located along major transportation corridors and contain a mix of agricultural, residential, and isolated commercial uses.
7. We have clearly understandable guidelines for new development.	X		The Forsyth County Unified Development Code, the Application Guide for Public Hearings, and other development checklists are available to the public in the Planning and Development Office and on the county's website.
8. We have a citizen-education campaign to allow all interested parties to learn about development process in our community.	X		Each rezoning application has a public participation component that requires all affected and interested parties be notified of intended projects. A sign must be posted on all properties that are being considered for rezoning, variances or conditional use permits. Public notice hearing notifications are placed in the local paper and posted at the meeting location. Public hearings are video taped and available for viewing via the county's website. All proposed changes to the Unified Development Code and Comprehensive Plan, along with proposed drafts, are also available on the county's website.
9. We have procedures in place that make it easy for the public to stay informed about land use issues, zoning decisions, and proposed new development.	X		A sign must be posted on all properties that are being considered for rezoning, variances or conditional use permits. Public notice hearing notifications are placed in the local paper and posted at the meeting location. Public hearings are video taped and available for viewing via the county's website. All proposed changes to the Unified Development Code and Comprehensive Plan, along with proposed drafts, are also available on the county's website.
10. We have a public-awareness element in our comprehensive planning process.	X		Community meetings, public hearings, and other methods of public participation have been utilized and will continue to ensure that the community is informed of comprehensive plan updates and processes.

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<b>Appropriate Businesses</b>			
<b>The businesses and industries encouraged to develop or expand in a community should be suitable for the community in terms of job skills required, long-term sustainability, linkages to other economic activities in the region, impact on the resources of the area, and future prospects for expansion and creation of higher-skill job opportunities.</b>			
Statement	Yes	No	Comments
1. Our economic development organization has considered our community's strengths, assets, and weaknesses and has created a business development strategy based on them.	X		The Cumming-Forsyth County Chamber of Commerce has recently completed a Target Market Analysis that covers the county's strengths, challenges, and opportunities.
2. Our economic development organization has considered the types of businesses already in our community, and has a plan to recruit business/industry that will be compatible.	X		The Cumming-Forsyth County Chamber of Commerce has recently completed a target market analysis to determine the economic development strengths of Forsyth County and recommend actions that may potentially increase the amount and diversity of industry.
3. We recruit businesses that provide or create sustainable products.	X		The Cumming-Forsyth County Chamber of Commerce is actively involved in the recruitment of companies that create sustainable products and create an environmentally friendly footprint based on their product and corporate philosophy.
4. We have a diverse jobs base, so that one employer leaving would not cripple us.	X		According to data from September 2008 provided by the Georgia Department of Labor, the following industries employ the highest percentage of workers in Forsyth County: Construction; manufacturing; wholesale trade; retail trade; professional, scientific, and technical services; administrative support; educational services; health care and social assistance; accommodation and food services; and local government.
<b>Employment Options</b>			
<b>A range of job types should be provided in each community to meet the diverse needs of the local workforce.</b>			
Statement	Yes	No	Comments
1. Our economic development program has an entrepreneur support program.	X		The Cumming-Forsyth County Chamber of Commerce operates a Small Business Services Center.
2. Our community has jobs for skilled labor.	X		According to data from September 2008 provided by the Georgia Department of Labor, approximately 15.9% of Forsyth County's workforce is employed in jobs that require construction, metal, machine, computer, and electrical skills.
3. Our community has jobs for unskilled labor.	X		According to data from September 2008 provided by the Georgia Department of Labor, approximately 19.4 % of Forsyth County's workforce is employed in the following industries for unskilled labor: Retail; arts, entertainment, and recreation; and accommodation and food services.

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4. Our community has professional and managerial jobs.	X		According to data from September 2008 provided by the Georgia Department of Labor, approximately 26.3% of Forsyth County’s workforce is employed in the following industries with professional and managerial jobs: Professional, scientific, and technical services; education services; health care and social assistance; and federal, state, and local government positions.
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<b>Housing Choices</b>			
<b>A range of housing size, cost, and density should be provided in each community to make it possible for all who work in the community to also live in the community (thereby reducing commuting distances), to promote a mixture of income and age groups in each community, and to provide a range of housing choice to meet market needs.</b>			
Statement	Yes	No	Comments
1. Our community allows accessory units like garage apartments or mother-in-law units.	X		Detached and attached accessory apartments are permitted by right and as a conditional use in the majority of the residential districts. The Forsyth County Unified Development Code contains regulations specific to these structures.
2. People who work in our community can also afford to live in the community.	X		Data from the 2006 American Community Survey, conducted by the U.S. Bureau of the Census, states that 43% of the Forsyth County workforce is employed in management, professional, and related occupations. The 2006 American Community Survey data also shows that 41% of the Forsyth County population has obtained a bachelor’s degree or higher, indicating that a considerable portion of the population is likely to be employed in professional and skilled labor sectors.
3. Our community has enough housing for each income level (low, moderate, and above-average).		X	Forsyth County does not have enough housing choices for those with a low income. According to the Georgia Department of Labor, in September 2008, approximately 20.3% of the Forsyth County workforce earns a weekly wage of less than \$500. These workers are primarily employed in service-providing industries.
4. We encourage new residential development to follow the pattern of our original town, continuing the existing street design and maintaining small setbacks.	X		The Master Planned District and Planned Unit Development District allow for innovative design that may include reduced setbacks and traditional street design.
5. We have options available for loft living, downtown living, or “neo-traditional” development.	X		Both the Master Planned District and Planned Unit Development District allow for flexibility in design and mixed uses, including vertical integration of residential and commercial uses.
6. We have vacant and developable land available for multifamily housing.	X		There are vacant parcels with zoning designations where multi-family housing is a permitted use.
7. We allow multifamily housing to be developed in our community.	X		Multi-family housing is allowed in the R3, Res4, and Res6 zoning districts.
8. We support community development corporations building housing for lower-income households.	X		Forsyth County is a part of the North Central Georgia Habitat for Humanity.

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9. We have housing programs that focus on households with special needs.		X	At this time, there are no specific housing programs within the county.
10. We allow small houses built on small lots (less than 5,000 square feet) in appropriate areas.	X		The Res6 zoning district allows development on 4,000 sq. ft. lots with public sewer. There are no minimum lot sizes for the Planned Unit Development District and Master Planned District.

<b>Educational Opportunities</b>			
<b>Educational and training opportunities should be readily available in each community – to permit community residents to improve their job skills, adapt to technological advances, or to pursue entrepreneurial ambitions.</b>			
Statement	Yes	No	Comments
1. Our community provides work-force training options for our citizens.	X		The Lanier Technical College branch in Forsyth County offers a QuickStart workforce training program.
2. Our workforce training programs provide citizens with skills for jobs that are available in our community.	X		The QuickStart program works with businesses and industries that are currently located in the community or are looking to locate to the community to provide appropriate training for their workforce.
3. Our community has higher education opportunities, or is close to a community that does.	X		A branch of Lanier Technical College is located in Forsyth County. North Georgia College & State University currently has a satellite MBA program based in Cumming. Other nearby communities that have higher educational opportunities are the City of Gainesville, the City of Dahlonega, and the City of Atlanta.
4. Our community has job opportunities for college graduates, so that our children may live and work here if they choose.	X		Forsyth County is home to many North American headquarters of international companies and Fortune 500 companies that offer positions that require advanced degrees.
<b>Governmental Relations</b>			
<b>Regional Solutions</b>			
<b>Regional solutions to needs shared by more than one local jurisdiction are preferable to separate local approaches, particularly where this will result in greater efficiency and less cost to the tax payer.</b>			
Statement	Yes	No	Comments
1. We participate in regional economic development organizations.	X		Forsyth County participates in the Lanier Joint Development Authority with Hall County. Forsyth County is part of the Georgia Mountains Regional Development Center which provides economic development assistance to all of its communities.
2. We participate in regional environmental organizations and initiatives, especially regarding water quality and quantity issues.	X		Forsyth County is part of the Metropolitan North Georgia Water Planning District and participates in the implementation of the Metropolitan River Protection Act (MRPA) through the Atlanta Regional Commission (ARC).
3. We work with other local governments to provide or share appropriate services, such as public transit, libraries, special education, tourism, parks and recreation, emergency response, E-911, homeland security, etc.	X		Forsyth County works with the City of Cumming to provide these services to the citizens of both the unincorporated county and the city.
4. Our community thinks regionally, especially in terms of issues like land use, transportation and housing, understanding that these go beyond local government	X		Forsyth County is involved with the Atlanta Regional Commission (ARC), the Georgia Regional Transportation Authority (GRTA), and the Georgia Mountains Regional Development Center (GMRDC) to

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borders.			coordinate with surrounding communities on regional issues.
<b>Regional Cooperation</b>			
<b>Regional cooperation should be encouraged in setting priorities, identifying shared needs, and finding collaborative solutions, particularly where it is critical to success of a venture, such as protection of shared natural resources or development of a transportation network.</b>			
Statement	Yes	No	Comments
1. We plan jointly with our cities and county for Comprehensive Planning purposes		X	Forsyth County and the City of Cumming are completing separate comprehensive plan updates but city and county staff coordinate information on a regular basis.
2. We are satisfied with our Service Delivery Strategies	X		Forsyth County and the City of Cumming completed an update to their Service Delivery Strategy in early 2004. Another update could possibly be completed during the full update of the Comprehensive Plan to be completed by 2012.
3. We initiate contact with other local governments and institutions in our region in order to find solutions to common problems, or to craft region wide strategies.	X		Forsyth County periodically initiates contact with local governments and institutions as needs arise and participates with other jurisdictions regarding regional issues such as water conservation. County staff keeps informed of policy trends within metro Atlanta and will contact other local government staff for information when seeking solutions for current issues.
4. We meet regularly with neighboring jurisdictions to maintain contact, build connections, and discuss issues of regional concern.	X		Representatives from Forsyth County participate in meetings of the Georgia Mountain Regional Development Center, the Land Use Coordinating Committee (LUCC) of the Atlanta Regional Commission, the Georgia Department of Transportation, and with other various regional organizations as necessary.

# Analysis of Consistency with Quality Community Objectives

## *Traditional Neighborhood*

*Traditional neighborhood development is comprised of human scale development with mixed uses located within easy walking distance of one another. This scale and mix creates a pedestrian friendly environment for residents of the community.*

The Forsyth County Unified Development Code contains regulations that allow for certain aspects of traditional neighborhood development. Commercial, residential, and retail uses are not separated in all districts. Limited commercial uses are allowed in almost all of Forsyth County's residential districts with a conditional use permit. For example, daycares serving ten persons or less are allowed as a conditional use in all residential districts while daycares serving more than ten persons are allowed as a conditional use in one of the multifamily residential districts. Schools for dance, martial arts, and other disciplines are allowed as a conditional use in all residential districts with the exception of the mobile home park district. The planned unit development district encourages a mix of uses through recommendations for the provision of a mix of housing types; sites for community uses such as churches, schools, and community or club buildings; commercial uses; office uses; and possibly light industrial uses. Developments in the master planned development district require a mix of uses which must consist of a minimum of twenty-five percent commercial and office uses with a minimum of twenty-five percent residential uses.

Other aspects of neo-traditional development addressed in the Forsyth County Unified Development Code include the provision of common areas, pedestrian amenities as well as provisions for pedestrians and bicycle traffic. Code regulations also call for the provision of a common or amenity area for those subdivisions with fifty units or more and for all utilities to be located underground. The Forsyth County conservation subdivision regulations allow for lot sizes smaller than a typical subdivision, require a connected system of pedestrian and multi-purpose paths in the open space areas, and encourage an interconnected grid pattern of streets in village areas. Master planned district developments are encouraged to provide a functional town center, community green space or park, or other focal point to create an identity for the development. A grid street pattern is also preferred over cul-de-sacs and pedestrian scale development is encouraged with pedestrian amenities available in the public spaces. Two of Forsyth County's design overlay districts encourage certain aspects of neo-traditional development. The Castleberry-Bethelview Crossroads overlay zoning district requires pedestrian connections and walkways to be provided throughout commercial and mixed use developments. Pedestrian amenities such as outdoor seating, water fountains, and public art are preferred. The Ronald Reagan/Union Hill overlay district promotes mixed use and pedestrian circulation.

Forsyth County has several regulations and programs in place to create comfortable, safe areas for walking in commercial and public areas. The Forsyth County Tree Protection and Replacement Ordinance requires that developers meet a site density factor for all non-residential developments and all residential subdivisions comprised of single-family detached and duplex dwellings of more than six homes. The site density factor is calculated by a pre-determined number of tree units per acre. The number of required tree units is specific to the type of development. When the site density factor cannot be satisfied with existing trees on the property, the developer must prepare a tree protection and replacement plan. If a developer is unable to satisfy the site density factor requirements due to site conditions, they may obtain approval to make a contribution to the tree replacement fund. These funds are used to plant trees in public areas throughout unincorporated Forsyth County. The Forsyth County recommended plant list provides developers with a selection of native and non-native species that can be used to satisfy the site density factor and other landscaping requirements. The Forsyth County recommended plant list also indicates plants with low, moderate, and high tolerance to drought conditions. Keep Forsyth County Beautiful participates in several tree planting programs such as seedling and tree giveaways in January and on Arbor Day of each year. Keep Forsyth County Beautiful also provides assistance in obtaining trees for groups that do mass tree plantings in various locations throughout Forsyth County.

The Forsyth County Unified Development Code has regulations for the continued maintenance and safety of commercial developments. General provisions require that all commercial sites be free of trash and debris and any damage to the on-site landscaping and buildings be repaired immediately. Regulations for retail establishments seventy-five thousand square feet and larger contain specific requirements for the provision of on site security patrols to deter vandalism or other illegal activities.

Forsyth County has provisions for the safety and maintenance of public areas. The Forsyth County Public Facilities Department maintains all sidewalks and other landscaping in public areas around the county. This department provides security for county properties as well. The Parks & Facilities Division of the Forsyth County Parks & Recreation Department provide maintenance and security for all county parks. Forsyth County Parks and Recreation Park Ordinance, Ordinance #102, provides details of the rules and regulations that govern all county parks. This ordinance includes regulations for park hours, personal conduct, location of fires, operation of vehicles, possession of weapons, and possession of pets within the parks.

In some areas of Forsyth County, there are mixed use and larger commercial developments that contain a sidewalk network that permit pedestrian traffic to travel to and from residential areas. For example, The Avenue Forsyth is composed primarily of commercial retail and restaurant establishments with square footage devoted to personal services and office space. This development contains an internal pedestrian network that connects to the external sidewalk adjacent to the development. This network makes it possible for people who work within the development to run errands on foot within and immediately adjacent to the development. Another example is Vickery Village which is

a mixed use community that has a well defined internal sidewalk network. This sidewalk network allows residents to walk to retail shops, restaurants, offices, and the YMCA which is located in the village center.

The elementary, middle, and high schools in Forsyth County are evenly distributed throughout the county near denser concentrations of residential neighborhoods. Future school sites have been selected to build new facilities between 2009 and 2013 to cover those areas of the County where increased residential development is occurring. Several schools in Forsyth County are located along existing sidewalks or sidewalks currently under construction. The proximity to sidewalks enables many of the students attending these schools to walk or bike to school safely. The Forsyth County Bicycle Transportation and Pedestrian Walkways Plan indicates that the majority of Forsyth County schools will be located near a sidewalk, multi-use path or greenway trail by 2025. When these projects are completed, most Forsyth County students will have the infrastructure in place to walk or bike to school safely. The Forsyth County Board of Education has a policy that allows elementary school children to walk or bike to school under parental supervision. There are currently no schools in Forsyth County that have a Safe Routes to Schools plan or program in place. There is the possibility of the Forsyth County Board of Education pursuing a plan or program this year in order to meet the eligibility requirements to apply for Safe Routes to Schools infrastructure funding from the Georgia Department of Transportation (GDOT).

### *Infill Development*

*To maximize the use of existing infrastructure and minimize the conversion of undeveloped land, the development or redevelopment of sites within targeted areas of a community should be encouraged.*

The Cumming-Forsyth County Chamber of Commerce maintains an inventory of vacant sites and buildings in the county that are available for redevelopment or infill development using the CoStar Real Estate Database. This database provides a comprehensive listing of available industrial, commercial, office, and retail properties. The majority of the commercial and industrial real estate agencies in Forsyth County utilize this resource as well.

The Development Authority of Forsyth County acts as a partner with the Cumming-Forsyth County Chamber of Commerce in the facilitation of brownfield and greyfield development projects at the request of the Forsyth County Board of Commissioners. Currently, the Development Authority is actively working with Forsyth County government on a brownfield redevelopment project involving a closed municipal waste landfill in the northern part of the county.

The Forsyth County Comprehensive Plan Future Land Use Map designates ten areas as commercial nodes. These nodes are located along state routes and at key intersections throughout the county. The intent of these nodes is to concentrate commercial and high

intensity development into compact patterns with the more intense development located towards the center with transitional developments located around the periphery. Following this pattern of development should lessen scattered, strip oriented commercial development.

Forsyth County allows for both commercial and residential development on lots five thousand square feet or smaller. In all commercial districts there are no minimum lot sizes for development, but there is a maximum allowable building coverage. This coverage ranges from eighteen percent of the lot in the office residential district to seventy percent of the lot in the commercial business district. If a developer satisfies all of the performance standards for a commercial district with a lot that is five thousand square feet or smaller, then the development is allowed to proceed. Residential development on lots five thousand square feet or smaller is also allowed in one of the multi-family residential zoning districts in which the minimum lot size is four thousand square feet when the residence is connected to an approved public or private sewer system. Lot size is flexible in both the master planned district and the planned unit development district and is approved during the rezoning stage.

## *Sense of Place*

*Activity centers that serve as community focal points should be encouraged through the maintenance or redevelopment of a community's areas where people choose to gather. These places should be attractive, contain mixed-use development, and be pedestrian friendly.*

The Forsyth County Unified Development Code contains regulations that allow for mixed use developments, require large scale retail establishments provide a minimum of two public spaces or focal features with continuous pedestrian walkways, and that promote outdoor amenities within one of the county's design overlay districts. Architectural and landscaping standards are required within all commercial districts with additional standards for large scale retail establishments, senior housing developments, and commercial uses within design overlay districts. Sidewalks are to be provided per the Forsyth County Bicycle Transportation and Pedestrian Walkways Plan to create a walkable environment. The Forsyth County Sign Ordinance has specific provisions for pedestrian oriented signage for select commercial districts and projects. The master planned district must satisfy design criteria that support, when appropriate, streets that terminate at a focal point with architectural design to be applied at a pedestrian scale. Master planned districts are encouraged to have clear pedestrian paths with streetscape amenities such as street furniture, kiosks, drinking fountains, and trash receptacles. Design guidelines for public spaces, streetscape improvements, and pedestrian connections are also addressed for the neighborhood shopping district, urban village district, and the planned unit development district. These code requirements and guidelines are intended to improve the quality of commercial and mixed use projects through a variety of performance standard measures that address site design, architectural features, landscaping, public outdoor space, and general connectivity.

Distinctive natural features within Forsyth County include Lake Lanier, Chattahoochee River, Etowah River, and Sawnee Mountain. These areas are protected by various federal, state, and local regulations that assure these natural and cultural resources remain both a functional and aesthetic enhancement for citizens and visitors alike. These features lend unique character while providing recreational opportunities and scenic viewsheds. Distinguishing built environments include both historic resources that are found throughout the county as well as new development such as the Avenue Forsyth, a pedestrian oriented retail center located on a state route and Vickery, a mixed used project that includes a YMCA as a neighborhood amenity. These developments function as activity centers and exemplify pedestrian access, shared parking, high quality architectural standards, attractive landscape areas, and public spaces which include elements such as seating plazas, outdoor fountains, sculpture, and pedestrian scaled buildings.

Forsyth County analyzes each rezoning request per the survey of historic resources filed with the Historic Preservation Division of the Georgia Department of Natural Resources. Any existing resource related to a rezoning request is acknowledged within a staff technical report that is forwarded to the Planning Commission and Board of Commissioners prior to any rezoning approval. The Forsyth County Unified Development Code has a demolition stay for sixty days pertaining to properties identified by the historic resource survey that are proposed for destruction per a site development permit application. This stay allows time for a third party to analyze the resource and propose demolition options. Although preservation is not mandated, the code does provide for alternatives to be investigated and be presented to the property owner.

The aesthetics of development are regulated by the Forsyth County Unified Development Code via numerous sections and chapters. These include general commercial standards that address elements such as the screening of outdoor merchandise and storage areas, landscaping and vegetative screening of parking lots, exterior building material requirements, screening of dumpsters, building and utility appurtenances as well as fencing and lighting regulations. Specific uses such as mini-warehouses, convenience stores, and drive-through facilities have to meet further standards. Large scale retail establishments have additional design standards above the general commercial criteria as does senior housing and mixed use projects. These performance standards are intended to improve the visual and functional context of commercial development throughout the county. Specific areas, as designated by three design overlay districts, must express a particular design thematic or exhibit increased design standards due to the high visibility of the vicinity.

The Forsyth County Sign Ordinance regulates all signage within the county for purposes related to public health, safety, and welfare; business interests; and aesthetic reasons. Sign regulations help communities maintain their scenic heritage and unique character which is essential to long term economic viability. Sign control is an integral part of improving visual character and quality of life as stated within the sign ordinance. Although the county does not have a development guidebook, three codified design

overlays districts have aesthetic controls. In addition, a design guidelines booklet for pedestrian oriented signage has been produced to assist the community with the portion of the sign ordinance pertaining to select zoning districts that must adhere to these particular performance standards. In addition, there are specific architectural features within the Castleberry-Bethelview Design Overlay District that must be integrated by commercial developers within this district's boundary. Large scale retail establishments must demonstrate, when located within rural and rural-residential areas, landscaping and architectural treatment integration with surrounding land character.

There is not a plan to protect designated farmland, but the Forsyth County Greenspace Plan (Appendix B of the Comprehensive Plan) indicates that agricultural land is an important future component of protected greenspace. The need for passive recreation space is also indicated with a targeted acquisition strategy by land type that includes agricultural land. The designation of scenic roadway corridors is also identified as one of the Comprehensive Plan's goals to protect and preserve the beauty and integrity of natural features. The Forsyth County Unified Development Code specifies that conservation easements are required for conservation subdivisions which must include all primary and secondary conservation areas counted as open space. Farmland is considered a secondary conservation area.

A criterion for the secondary conservation areas includes the siting of homes be located at the edges of fields if farmland and meadow preservation are principal objectives. Another criterion is to create unblocked scenic views and vistas through selective pruning and tree felling. Prime agricultural land is identified in the natural resources section of the Comprehensive Plan which was determined by analyzing soil types. The Comprehensive Plan highlights the importance of grassy pastures as prime plant and animal habitats while the rolling topography and rural character of the northern portion of the county is characterized as having significant vistas. Agricultural land is a consideration for greenspace acquisition areas for the stated reasons above.

## *Transportation Alternatives*

*To promote better connectivity, reduce traffic congestion, and promote better stewardship of the environment, communities should offer transportation alternatives such as mass transit, bicycle routes, and pedestrian facilities. As these alternatives become available, the public should be encouraged to take advantage of these opportunities.*

Forsyth County provides public transportation to all of its citizens through the Dial-A-Ride program. The Dial-A-Ride program is operated by the public transportation division of the Forsyth County Fleet Services Department. The program is funded by the Forsyth County Board of Commissioners, the Georgia Department of Transportation, and passenger fees. Fees are based on the number of stops a person must make. The five vans operate Monday through Friday by appointment only. The vans are utilized for medical appointments, shopping, employment, education, and personal errands. Unincorporated

Forsyth County also has one park and ride lot for the Georgia Regional Transportation Authority (GRTA) Xpress bus. This lot is located on the southbound side of Georgia 400, off of Georgia 400 exit 14 near the Lakeland Plaza shopping center. The Forsyth County stop is part of the Xpress Route 400. Riders can choose from four schedules to depart Cumming for either the North Springs MARTA rail station near Perimeter Center or direct service to downtown Atlanta. The Xpress bus offers the same number of return routes in the evening.

In order to limit automobile trips using major highways or streets, the Forsyth County Unified Development Code contains regulations for commercial and office development requiring interparcel connections for pedestrians and automobiles between adjacent properties when the uses of these properties are compatible. If the adjacent parcel is currently undeveloped, then a future connection point must be provided. Parking and loading regulations in the Forsyth County Unified Development Code allow for the sharing of parking facilities for commercial and office developments when the respective hours of need do not normally overlap. Authorization from the planning director is required. The Ronald Reagan/Union Overlay District allows for shared parking at three and one half spaces per one thousand square feet of gross leasable area or gross building area for retail or office uses provided proper documentation supporting the feasibility is provided.

The Forsyth County Unified Development Code calls for sidewalks to be provided in accordance with the Forsyth County Comprehensive Plan. The Forsyth County Bicycle Transportation and Pedestrian Walkways Plan was updated in 2008 and provides an implementation strategy for the following improvements: Sidewalks, multi-use trails, greenways, signed shared roadways, and bicycle friendly shoulders. The Forsyth County Unified Development Code also requires large scale retail developments (forty-thousand square feet or larger) to install an internal sidewalk network and sidewalks along the public street. The Castleberry-Bethelview Crossroads overlay zoning district requires internal pedestrian walkways. Single family dwellings within senior housing developments require a sidewalk system as well as paths connecting open space. The majority of the sidewalks that currently exist or are under construction are located in the south-eastern portion of the county and in the larger residential, commercial, and office developments. When an improvement from the Forsyth County Bicycle Transportation and Pedestrian Walkways plan is located along the road frontage of a new project, the developer may be asked to install the improvement or provide funding for the future installation of that improvement. When existing sidewalks are present along roadways, new developments are expected to connect with them. The county hopes to have the planned system of trails, sidewalks, and roadway improvements completed by the year 2025. When this system is in place, it will facilitate alternative transportation use throughout the county.

## *Regional Identity*

*Each region should promote and preserve a regional identity or sense of place, defined in terms of traditional architecture, common economic linkages that bind the region together, or other shared characteristics.*

The Forsyth County Historic Resources Survey Report identified over 500 resources, most of which were single family residential structures. Other original uses included general stores, churches, schools, bridges, and commercial structures. The majority of these resources are of vernacular design with some resources displaying elements of architectural styles including Craftsman, Folk Victorian, Colonial Revival, Queen Anne, and Greek Revival. According to the survey, common details include full façade porches, sawn work trim, exposed rafters, gable vents, corner boards, and gable returns. The resources that remain intact lend character to the county and provide a sense of history alongside contemporary settlement patterns. The Forsyth County Unified Development Code specifies standards for exterior building materials in commercial and industrial districts; encourages the retention of agricultural structures in conservation subdivisions as part of secondary conservation areas; requires open space for select residential districts as well as all commercial and industrial zoning districts. These standards contribute to the retention of natural or rural character and provide a measure towards quality development that will not detract from the county's sense of place. One overlay district specifies an equestrian thematic in order to provide continuity with pre-existing land uses. Additionally, large scale retail establishments must offer architectural detailing and landscape design that complements a rural atmosphere when located in areas that are predominately agricultural or rural residential.

Agricultural production continues to exist within the county through businesses such as a poultry processing plant and a local farmers market that makes available produce to residents on a seasonal basis. The county's agricultural economic base has steadily declined over the past two-and-a-half decades with shifts primarily to professional and business services, manufacturing, and construction industries. Transitions away from a historic agricultural community have occurred throughout the region, but the county retains a connection to its agricultural heritage through the Cumming-Forsyth County Chamber of Commerce highlighting both agri-business and tourism. This marketing focus on behalf of the Chamber directly links current employment strategies with the county's historical traditions and natural resources. Forsyth County has partnered with the City of Cumming for inclusion in the Georgia 400 Hospitality Highway tourist campaign that draws attention to cultural events while engaging multiple communities across the corridor. The particular slogan for Forsyth County and the City of Cumming is "Come Play in Our Backyard" with a lake symbol emphasizing the recreational opportunities of Lake Lanier and the Chattahoochee River. The purpose of this campaign is to attract tourists to the myriad of entertainment opportunities provided, many of which relate to the county's customs. This heritage is expressed, for example, by the Cumming Country Fair and Festival which has grown to an eleven day event which highlights the agricultural and rural lifestyle once prevalent in the county. Sawnee Mountain Preserve is the largest passive recreation park within the county which is comprised of over 963

acres with 3.5 miles of trails. This trail network will be expanded to over 10 miles in the future providing residents and visitors continued access to a site that has natural and cultural significance. Sawnee Mountain is an important landmark, providing vistas for hikers and a rich history of Native American inhabitants and settlers intent on gold mining the area. A recent addition of a visitor center illustrates this past and provides both residents and visitors a deeper appreciation for the area. The central location of the county between the City of Atlanta and the Appalachian mountains draws people to both live and play in a county that has both a rural and rapidly expanding suburban character.

## *Heritage Preservation*

*The traditional character of the community should be maintained through preserving and revitalizing historic areas of the community, encouraging new development that is compatible with the traditional features of the community, and protecting other scenic or natural features that are important to defining the community's character.*

There are no historic districts within the county, but two sites are on the National Register of Historic Places, the Fowler family farm and Poole's Mill covered bridge; the latter is located within a county owned park. The Historical Society of Forsyth County, Inc. is an active organization that has an office in the restored Cumming public school, also on the National Register within the City of Cumming. This organization holds monthly meetings whose members have been associated with the publication of texts on county history.

The Forsyth County Unified Development Code has a demolition stay of sixty days for properties that are listed within the Forsyth County Historic Resources Survey Report filed with the Historic Preservation Division of the Georgia Department of Natural Resources. This stay allows time for a third party to analyze the resource and propose demolition options. Although preservation is not mandated, the code does provide a time period for a property owner to consider various preservation opportunities.

New commercial development must comply with design standards including building exterior materials, open space regulations, merchandise and storage screening requirements, and various other standards intended to maintain a visually pleasing context with existing as well as future built environments.

## *Open Space Preservation*

*New development should be designed to minimize the amount of land consumed, and open space should be set aside from development for use as public parks or as greenbelts and wildlife corridors. Compact development ordinances are one way of encouraging this type of open space preservation.*

The Forsyth County Greenspace Plan was instituted in 2000 and officially adopted as an appendix to the Comprehensive Plan in 2004. This plan focuses on greenspace goals with proposed methods of implementation, an existing conditions analysis, and the identification of potential funding opportunities. The Forsyth County Department of Parks and Recreation has participated in the acquisition of greenspace through the purchase of property for the Sawnee Mountain Preserve via SPLOST and other funding mechanisms. The Georgia Urban Forestry Council awarded the Preserve's master plan as the "Most Outstanding GreenSpace Plan" for 2005. On February 5, 2008, Forsyth County voters approved the issuance of a \$100 million parks/recreation and green space general obligation bond. The bond language specified that it is for "the purpose of financing parks and recreational areas, programs and facilities, including, but not limited to, green spaces and conservation areas for the protection of lakes, rivers, forest and wildlife habitats." In September of 2008, county staff and community stakeholders created a definition for county greenspace which is defined as "protected natural, ecological and cultural resources provided and maintained to benefit residents, businesses and visitors. It preserves undisturbed open space; protects air and water quality; offers passive outdoor recreation opportunities; and promotes and enhances the quality of life of the community. Greenspace is land that remains in a relatively natural state. It helps make the community attractive, livable, and economically competitive and viable." This definition is currently being used in conjunction with a final selection process for potential greenspace acquisition areas for bond purchase consideration. This selection method is being created by a consulting firm in close association with the county's GIS department under direction of the Board of Commissioners.

The Forsyth County Unified Development Code requires that open space be provided for select residential districts, all commercial districts, and industrial zoning districts. In addition, master planned districts and conservation subdivisions must also designate open space. Master planned districts must provide a minimum of twenty percent open space, but the actual calculation which is based on the proposed residential lot sizes, can increase. Conservation subdivisions are required to protect forty percent open space which is composed of both primary and secondary conservation areas. Primary areas include habitats for endangered or threatened species, wetlands, flood plains, state waters, shorelines and associated buffers, historic cultural and archaeological sites; and steep slopes. Secondary areas include prime farmland or open meadows, tree coverage areas and mature woodlands, aquifer recharge areas, steep slopes and scenic views and sites. These areas may also include newly created open spaces such as village greens, but cannot be composed of individual yards. Secondary areas shall primarily be undivided and must compose at least fifteen percent of the total percentage so that it is accessible to every resident. Open space in conservation subdivisions is to be permanently protected from further development and unauthorized use through the implementation of conservation easements.

The Big Creek Greenway multi-use trail is currently under construction. This is a multi-phased project with three phases being developed at the present time. These initial phases comprise approximately seven miles of trail with a future build out plan to connect with the Sawnee Mountain Preserve. Another greenway is proposed that will run

from the Sawnee Mountain Preserve to Poole's Mill Park. The Forsyth County Parks and Recreation Department has investigated the feasibility of a canoe trail along the Etowah River and has pursued grant assistance for both trail planning and property acquisition. This effort is a multi-jurisdictional enterprise and the county has met with various stakeholders to discuss this prospect. The Forsyth County Bicycle Transportation and Pedestrian Walkways Plan also identifies proposed greenway sites along the Chattahoochee River and Etowah River to increase recreational opportunities so that residents and visitors can enjoy the natural resources present within the county.

## *Environmental Protection*

*Environmentally sensitive areas should be protected from negative impacts of development, particularly when they are important for maintaining traditional character or quality of life of the community or region. Whenever possible, the natural terrain, drainage, and vegetation of an area should be preserved.*

The Forsyth County GIS Department maintains layers pertaining to natural resources including the state environmental planning criteria which encompasses water supply watersheds, groundwater, wetlands, protected rivers and protected mountains. The Forsyth County Unified Development Code provides natural resource protection for these areas through overlay districts which are consistent with state standards. In addition, data layers pertaining to the Etowah Habitat Conservation Boundary, local watersheds, slopes exceeding fifteen percent, streams, and ponds are also maintained to provide assessment of subject properties in the process of a rezoning application or land disturbance permit submittal. Staff technical analyses use this data when creating monthly reports for rezoning requests and they form the basis for a variety of planning activities across departments. Environmentally sensitive areas are notated in these reports along with watershed identification. The Forsyth County Department of Engineering does field visits to ascertain resources such as state waters prior to permit issuance which is initially based on GIS data and institutional knowledge.

In addition to the Part V protection via overlay districts, the Forsyth County Tree Protection and Replacement Ordinance requires compliance for all new development and is actively enforced by the county arborist and the Forsyth County Department of Code Enforcement. Landscape strips, parking lots, and buffers all require compliance with the tree ordinance in which site development plans are reviewed by a certified arborist and checked in the field after installation. The Forsyth County Unified Development Code has vegetative buffer standards that pertain to exterior buffers for major residential subdivisions; multifamily or residential facilities within senior housing developments; plantings along the GA 400 corridor; side and rear yard buffers for commercial and industrial districts that abut residential or agriculturally zoned property; and increased buffer widths for large scale retail establishments. Landscaping standards are found within the code which are in addition to the tree ordinance. Such regulations necessitate that parking lots provide a ratio of one tree for every ten parking spaces and every parking space shall be within fifty feet of a trunk of a tree. Large scale retail

establishments must have façade plantings and walkways located within these developments must adjoin landscaped areas for not less than fifty percent of their length. Parking above the minimum requirement for large scale retail establishments are obliged to be constructed of a pervious material.

Stormwater best management practices are mandated through the Forsyth County Soil Erosion and Sedimentation Control Ordinance which is administered by the Forsyth County Engineering Department. This department works in tandem with the Planning and Development Department to ensure that water quality is protected by means of federal, state, and local regulations.

## ***Growth Preparedness***

*A community should identify the type of growth that it would like to achieve. Through the comprehensive planning process a community can begin to lay the groundwork for desired growth. Infrastructure, workforce training, development regulations, and capable leadership are ways a community can prepare for desirable future growth.*

Forsyth County government and other decision making entities have access to several sets of population projections. The population projections that are most commonly used by the Forsyth County Planning and Development Department are those in the latest full update of the Forsyth County Comprehensive Plan completed in 2004. The population projections were completed by Jerry Weitz & Associates, Inc. in 2002 and run through 2025. Additional sources of population projections are the U.S. Bureau of the Census, Atlanta Regional Development Center (ARC), and the Georgia Department of Community Affairs (DCA). When the Forsyth County Major Transportation Plan was updated in 2006, population projections for 2030 and 2025 were used from the Forsyth County Comprehensive Plan 2004 update, the Forsyth County Major Transportation Plan 2002 update, the Atlanta Regional Commission Mobility 2030 Approved Travel Demand Model, and the Georgia Department of Transportation Suburban County Study. The Forsyth County Sewer System Master Plan update of 2002 utilized population projections for 2010, 2020, and 2030 from the State of Georgia Office of Planning and Budget, the Metropolitan North Georgia Water Planning District, the Tri-State Water Compact, and the Georgia Mountain Regional Development Center. During the Forsyth County Water Distribution System Master Plan update in 2008, population projections through 2058 were provided by Reilly Economics Consulting. The Forsyth County Board of Education uses data for the U. S. Bureau of the Census to compile their own projections for future growth.

The development regulations, zoning codes, and overlay standards for Forsyth County are contained in one document, the Forsyth County Unified Development Code. The code was first written in its present format in 2000. To date, different portions of the code have been revised and the department is currently on version nineteen. The code is regularly updated to reflect changing local, state, and national conditions and to correspond with any updates to the Forsyth County Comprehensive Plan.

The Forsyth County Comprehensive Plan identifies areas of the county where the community feels growth should be directed. The Forsyth County future land use map designates ten commercial nodes along state routes and critical intersections where the county would like to direct commercial and high intensity growth. Future growth in these areas should concentrate the higher intensity developments toward the center of the nodes with less intense development being located along the periphery. Another category on the Forsyth County future land use map that directs growth is the Corridor Transitional future land use category. This category focuses on those portions of the major transportation corridors that presently contain a mix of agricultural, residential, and isolated commercial land uses. Future growth in these areas should concentrate the higher intensity developments adjacent to the major roadways with the less intense developments abutting existing agricultural and residential properties. Forsyth County has a Capital Improvement Element (CIE) that supports current and future growth. The Forsyth County CIE is a component of the Forsyth County Comprehensive Plan and covers service areas and funding sources for public safety, parks and recreation, and public libraries. The CIE is updated on an annual basis along with the short term work program and impact fee program. The last update to the CIE was formally adopted in August of 2008.

Forsyth County staff strives to excel in keeping the elected officials and the public informed and educated in regards to development guidelines and procedures as well as the comprehensive planning processes. The Forsyth County Planning and Development Department has compiled an Application Guide for Public Hearings that provides detailed instructions on submitting the different types of plans reviewed and permitted by the department. This guide, along with all ordinances and plans, is available for public review in the planning and development department office and online via the Forsyth County website.

Forsyth County operates under the commission-county manager form of government. Forsyth County has five commissioners elected to four year terms. The Forsyth County Board of Commissioners meet in regular session twice a month and hold called work sessions twice a month. During these called work sessions, staff engages the Board of Commissioners and answers any questions regarding specific developments, the development process, or planning policy. The Forsyth County Planning Commission is comprised of five members each appointed by the County Commissioner for every district. The Planning Commission holds meetings once a month and work sessions a week before the regularly scheduled meeting. These work sessions are designated times when staff is available for commission members and answers any questions regarding specific developments or the development process.

The Forsyth County Planning and Development Department has procedures in place to help educate citizens and ensure that all interested parties are made aware of new developments, the development process, and any changes made to ordinances and regulations. Each rezoning, conditional use, home occupation, and sketch plat application has a public participation component. This component entails notification of all adjacent property owners, those listed on the interested parties notification list kept on file by the

department, and all applicable home owner associations. Signs are posted on the properties describing the action being taken and the public hearing dates. All public hearings are open to the public and notices are published in a newspaper of general circulation in Forsyth County at least fifteen days, but not more than forty-five days, prior to the date of the public hearing. Notices are also posted at the meeting location and on the Forsyth County website. All public hearings are recorded on video and available for viewing on the county's website. All public hearing minutes and draft code, ordinance or comprehensive plan changes are available for viewing on the county's website as well.

During the last complete update to the Forsyth County Comprehensive Plan, numerous public hearings and sub-area meetings were held to gain citizen input into the content of the plan and to gain insight as to how residents and other members of the community envisioned the future growth of the county. When minor updates were made to the comprehensive plan, public hearings were held to educate the community and receive feedback on the proposed changes. Public hearings will also be held to inform the community and receive feedback on the proposed partial update of the Comprehensive Plan in a similar fashion. When the full update of the Comprehensive Plan is undertaken, community meetings, public hearings, and other methods of public participation will be undertaken to ensure that as much of the community as possible will be able to participate in the update.

## *Appropriate Businesses*

*A community should encourage the development and expansion of businesses and industries that are compatible with the goals and resources of the area. Communities should not only consider the job skills required, but the sustainability, cohesiveness with other economic linkages, impact on resources, the potential for expansion, and the creation of higher skilled job opportunities of a business or industry as well.*

The Development Authority of Forsyth County, in conjunction with Forsyth County government and the Cumming-Forsyth County Chamber of Commerce, has just completed the first target market analysis for Cumming and Forsyth County. This analysis covers strengths, challenges, and opportunities for both the city and county which was incorporated into the development of the county's business strategy plan. The analysis determined that despite the recent decline in activity, the sagging national housing market, and the dipping consumer confidence, Forsyth County has and will continue to experience growth due to factors such as its location within the Atlanta metropolitan region, its workforce talents, and its lower tax rate in comparison to surrounding jurisdictions. The business analysis strategy has taken into consideration not only the factors listed above, but also input from the community, the existing economic base, and desired industries as well as national industrial trends.

Pharmaceutical manufacturing and testing is a new growth industry target that the County is interested in pursuing in addition to companies that create sustainable products and

create an environmentally ‘green’ footprint based on their product and corporate philosophy.

The County has a mixed job base, ranging from professional and business services which constitute forty-three percent of the current workforce, to manufacturing which also holds a strong presence in the county comprising twelve percent of the current workforce. Other job classifications include, but are not limited to financial services, education and health services, leisure and hospitality, trade, transportation, and utilities.

## *Employment Options*

*A community should strive to provide a range of job types to meet the diverse needs of the local workforce.*

The Cumming-Forsyth County Chamber of Commerce operates a small business center which develops programs and initiatives to assist the local small business community. Forsyth has been labeled as Georgia’s 30th Entrepreneur Friendly County, and through the Chamber it offers year round small business classes such as long range strategic planning, job market trends, and advertising 101, in addition to a business expo and entrepreneur conference.

In 2008, the Chamber created the community’s first small business accelerator which is designed to seek out small business owners and entrepreneurs who are established and ready to grow in their business. This service also provides mentoring and business coaching through community business leaders and stakeholders to foster business growth, and create an initiative centered around new job creation and community based “economic gardening.”

Forsyth County is a community offering a diverse field of employment opportunities from technology to manufacturing. Because of the highly educated and easily trainable workforce, thirty international companies are currently housed within the county. Corporations such as Scientific Games, Inc., United Parcel Services Worldwide Data Center, and Alltel, have found their home in Forsyth County. Forsyth County residents enjoy a variety of employment options from entrepreneurial start up companies to Fortune 500 firms.

## *Housing Options*

*A community should be able to provide a variety of housings options such as size, cost, and density so that those who work in the community can also live there. Through the provision of housing options, a community will promote a mixture of incomes and age groups in areas where these populations would otherwise become segregated and isolated.*

In January of 2008, Forbes Magazine, an American publishing and media company, listed Forsyth County as the thirteenth richest county in the nation and the richest county in Georgia, based on 2006 U.S. Census data regarding median household income. With a median household income of \$83,682 and housing prices at \$1 million dollars for a six bedroom house, Forsyth County does not have enough housing choices for its low income population. Although the majority of the people who work in the county also reside there, housing stock is limited for those with low median income levels.

The Forsyth County Unified Development Code allows multi-family housing in three residential zoning districts. There are currently vacant parcels within the county that have been rezoned to one of the above districts and are awaiting development. There are also provisions for both a planned unit development district and master planned district that promotes mixed-use communities which may incorporate multi-family units. These developments are intended to provide for neo-traditional development and allow design flexibility including vertical integration of residential and commercial uses with no minimum lot size requirements.

The Forsyth County Unified Development Code allows for attached and detached accessory apartments in most residential districts, with some requiring a conditional use permit. The county's code contains specific supplementary regulations that are required in the development of these structures once they have been approved.

Although the county does not currently meet the need for affordable housing nor does it sponsor any programs that focus on households with special needs, the county, along with North Fulton, Cherokee, and Dawson County merged to form Habitat for Humanity-North Central Georgia in 2006. To date, Habitat for Humanity-North Central Georgia has built over 250 homes throughout their service area.

## *Educational Opportunities*

*Education and training opportunities should be readily available in each community. Residents should have access to programs and facilities that will enable them to acquire improved job skills, keep pace with technological advances, or pursue entrepreneurial opportunities.*

Lanier Technical College serves as the leading workforce development resource for eight counties, including Forsyth, by providing adult education and technical training to support the economic development and well being of the community. Lanier Technical College has a branch located in Forsyth County which provides an economic development program called Quick Start. This program specializes in customized workforce training free of charge to qualified businesses in Georgia. Today, the program is one of the state's key assets for supporting new and expanding industries by training and educating residents within the community to successfully obtain and excel in various employment opportunities.

Forsyth County firmly believes that investment in educational infrastructure is the foundation for success with both its businesses and residents. Lanier Technical College provides technical certificates of credit, technical diplomas, and associate of applied science degree programs. North Georgia College and State University emphasizes strong liberal arts, pre-professional, professional, and graduate programs, including a satellite Masters in Business Administration (MBA) program in the City of Cumming.

Being located on Georgia's science and technology corridor, Forsyth County hosts a number of renowned corporate locations including Tyson Foods, Johnson Controls, Scientific Games International, Siemens Energy, and Automation. College graduates within the county have a wealth of opportunity to obtain professional employment without relocating outside of the area.

## *Regional Solutions*

*Regional solutions to needs shared by more than one local jurisdiction are preferable to separate local approaches, particularly where this will result in greater efficiency and less cost to the tax payer.*

Forsyth County is part of the Georgia Mountains Regional Development Center (GMRDC) which was created by local governments in 1962. The GMRDC offers a variety of services to 51 local governments, which includes 13 counties and 38 municipalities. The county also participates in the Lanier Joint Development Authority, administered by the Georgia Department of Community Affairs with neighboring Hall County. Regional partnerships are rewarded in the State of Georgia in the form of additional job tax credits for companies hiring new employees. The Development Authority was created in 1995 and is an additional development tool for the community.

Forsyth County is within the Metropolitan North Georgia Water Planning District and participates in the implementation of the Metropolitan River Protection Act (MRPA), which was enacted in 1973 by the Georgia General Assembly to establish a 2000 foot corridor on both sides of the Chattahoochee River from Buford Dam to Peachtree Creek. In 1998, an additional 36 miles of corridor was added to MRPA. The Georgia Mountains Regional Development Center (GMRDC) oversees the plan to maintain the corridor and reviews all development proposals along the river for compliance.

Forsyth County falls under the non-attainment area of the Atlanta region for ozone and particulate matter, which means that the county exceeds the National Ambient Air Quality Standards (NAAQS). Because the county is classified as a non-attainment area, all developments of regional impact (DRIs) are reviewed by the Georgia Regional Transportation Authority (GRTA) to reduce negative impacts on the county's transportation network.

The Cumming-Forsyth County Chamber of Commerce is a joint effort between the city and the county to provide information and resources to the citizens both within the city

limits and in the unincorporated areas. The Chamber provides information on community events, education, economic development, new arrivals, and sporting events. The county also thinks regionally and is involved with various regional organizations such as the Atlanta Regional Commission (ARC), the Georgia Regional Transportation Authority (GRTA), and the Georgia Mountains Regional Development Center (GMRDC). The county's affiliation and participation with these organizations allows it to incorporate planning strategies that benefit its residents and the surrounding communities.

## *Regional Cooperation*

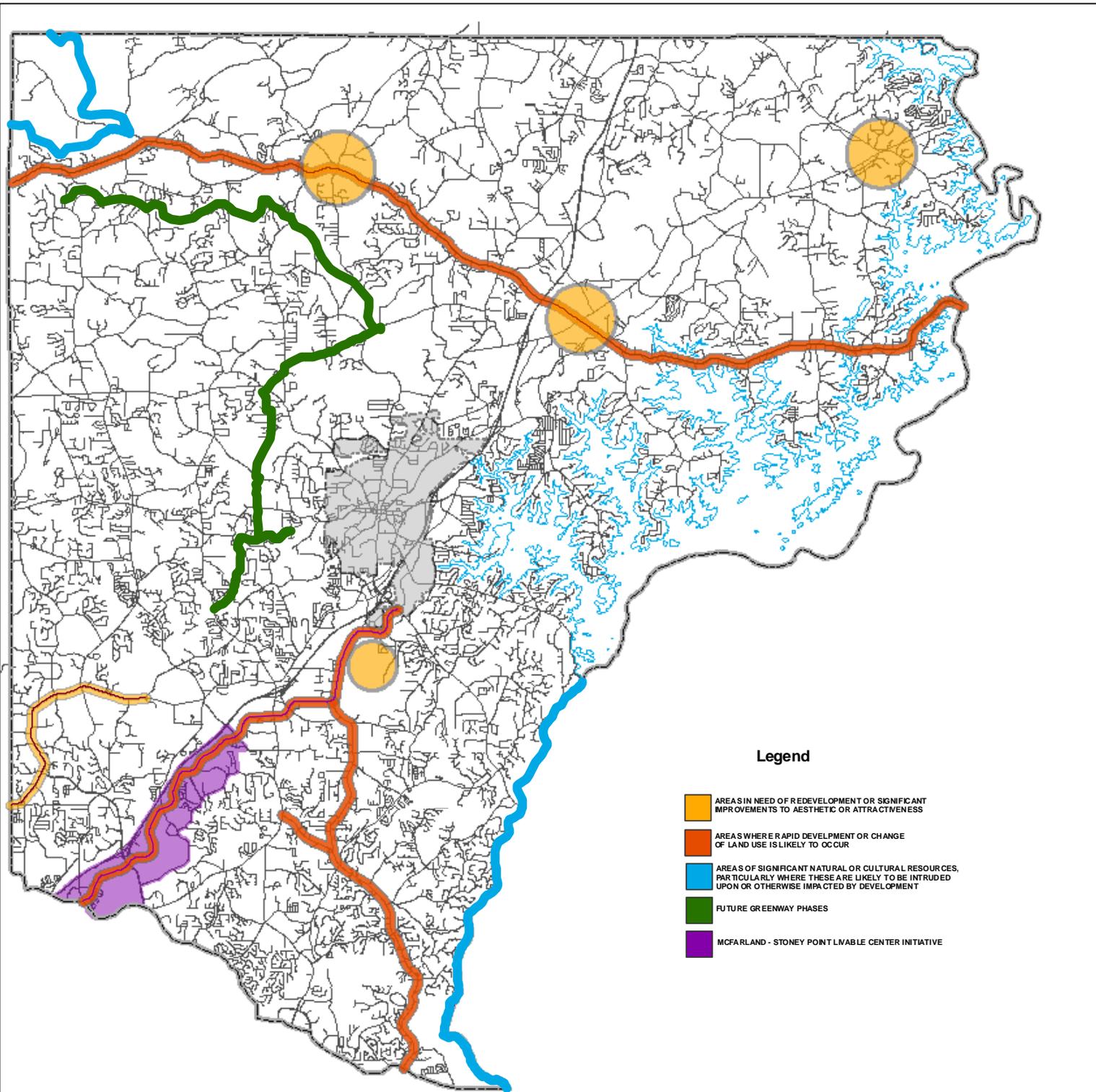
*In order to ensure that ventures, such as protection of shared natural resources or the development of transportation networks are successful, regional cooperation should be encouraged. Such cooperation is also helpful when setting priorities, identifying shared needs, and finding collaborative solutions.*

Although Forsyth County and the City of Cumming participate in a joint chamber of commerce endeavor, they do not work together on comprehensive planning issues. For the past twenty years, there has been a joint agreement between the two jurisdictions in regards to the Special Purpose Local Option Sales Tax (SPLOST) funding where a percentage of the collected tax revenues is agreed upon and distributed between the two parties.

In 2004, Forsyth County and the City of Cumming completed an update to their Service Delivery Strategy. The county is satisfied with the service delivery strategies and is optimistic about a possible update via the upcoming Comprehensive Plan full update required by 2012.

Forsyth County periodically initiates contact with local governments and institutions and fully participates with other jurisdictions regarding regional issues such as water conservation.

In an effort to maintain and strengthen contacts with neighboring jurisdictions, a representative from the county participates in meetings with the Georgia Mountain Regional Development Center (GMRDC), the Land Use Coordinating Committee (LUCC) through the Atlanta Regional Commission (ARC), and the Georgia Department of Transportation (GDOT), in addition to other agency meetings as necessary.



**Legend**

- AREA IN NEED OF REDEVELOPMENT OR SIGNIFICANT IMPROVEMENTS TO AESTHETIC OR ATTRACTIVENESS
- AREA WHERE RAPID DEVELOPMENT OR CHANGE OF LAND USE IS LIKELY TO OCCUR
- AREA OF SIGNIFICANT NATURAL OR CULTURAL RESOURCES, PARTICULARLY WHERE THESE ARE LIKELY TO BE INTRUDED UPON OR OTHERWISE IMPACTED BY DEVELOPMENT
- FUTURE GREENWAY PHASES
- MCFARLAND - STONEY POINT LIVABLE CENTER INITIATIVE

**MAP OF AREAS REQUIRING SPECIAL ATTENTION**

 <p style="font-size: 8px;">             FORSYTH COUNTY EXPRESSLY              DISCLAIMS ANY RESPONSIBILITY              OR LIABILITIES OR              DAMAGES FROM THE USE              OF THIS MAP.              THIS MAP IS FOR DISPLAY PURPOSES              ONLY AND IS NOT TO BE              USED FOR TAX ASSESSMENT              SURVEY OR ENGINEERING PURPOSES.         </p>	<p><b>FORSYTH COUNTY GEORGIA</b>  <b>PLANNING AND DEVELOPMENT</b></p> <p style="font-size: 8px;">             PRODUCTION FORSYTH COUNTY DEPARTMENT OF PLANNING AND DEVELOPMENT AND GEOGRAPHIC INFORMATION SERVICES              PROJECT NUMBER: 020509         </p>	
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## AREAS REQUIRING SPECIAL ATTENTION MAP NARRATIVE

### Areas in need of redevelopment or significant improvements to aesthetics or attractiveness

- There are three intersections in the county that have been identified as being areas requiring special attention. These intersections are located in the northern area of the county: Keith Bridge Road (SR 306) and Old Keith Bridge Road/Dawsonville Highway (SR 53) that is also identified as a commercial node on the future land use map; Keith Bridge Road (SR 306) and Browns Bridge Road (SR 369); and Matt Highway (SR 369) and Bannister Road/John Burruss Road that is also identified as a commercial node on the future land use map. These intersections have not fully developed so there is still an opportunity to address architectural standards and site design regulations prior to the intersections becoming built out. Focus on these intersections will be based on public participation if and when this is a stated community objective for these areas.
- A segment of Atlanta Highway (SR 9) from the Fulton County line to Castleberry Road is an older commercial area which would benefit greatly from architectural guidelines and site design standards as this corridor moves into redevelopment.
- The quarry site on Ronald Reagan Boulevard will require an exit strategy and redevelopment plan in the long range planning period.

### Areas where rapid development or change of land use is likely to occur

- Matt Highway/Browns Bridge (SR 369) from the Cherokee County line to the Hall County line is considered an area of rapid growth and development. Travel volumes on this road have increased dramatically with the county's gain in population and employment. Based on the Comprehensive Plan's future land use map and four of the subarea vision statements, this area is proposed to be primarily residential use with a rural character and limited commercial development. A network of greenways is projected to run throughout the area connecting passive parks via a trail system. With the Georgia Department of Transportation's proposed widening and roadway improvement plans for Matt Highway/Browns Bridge (SR 369) from the Cherokee County line to the Hall County line, the rural atmosphere of the area may be compromised with increased commercial development.

- Forsyth County’s Major Transportation Plan provides a list of committed projects from the Georgia Department of Transportation 2006 – 2011 Transportation Improvement Program (TIP) that reflects roadway improvements including widening and roadway operational upgrades for Old Atlanta Road and Sharon Road as well as the completion of Ronald Reagan Boulevard. These expansions may usher in land use changes as the roadway character is modified.
- The Comprehensive Plan’s future land use map indicates that Old Atlanta Road is primarily a residential corridor. The proposed widening will significantly change the character of the areas involved, possibly changing land uses as a result; hence the designation as an area requiring special attention. When fully constructed, Ronald Reagan Boulevard will extend throughout the Livable Center Initiative (LCI) study area. In addition, the proposed Taubman development project, at the intersection of Union Hill Road and Ronald Reagan Boulevard, includes up to 1,400,000 square feet of gross leaseable area of retail, 900,000 square feet of rental office space, a 500 room hotel, and 875 residential dwelling units. This development proposal alone constitutes a significant increase in density and intensity of use which warrants Ronald Regan Boulevard as an area requiring special attention.

Areas of significant natural and cultural resources, particularly where these are likely to be intruded upon or otherwise impacted by development

- Forsyth County contains two protected river corridors; the Etowah, which is located in the northern section of the county, and the Chattahoochee, which runs between Forsyth County and Gwinnett County. Both rivers are environmentally protected, but the Chattahoochee is under stricter regulations through the Georgia Metropolitan River Protection Act (MRPA). The Forsyth County Bicycle Transportation and Pedestrian Walkways 2025 Plan includes two greenways and a blueway proposal. One greenway project consists of the Chattahoochee Greenway which is to be developed in two phases: Phase I – from Settles Bridge to McGinnis Ferry Road and Phase II – from Buford Dam Road to Settles Bridge. The other is the Etowah Greenway, which will stretch between Cherokee and Dawson Counties, and also includes a design for a blueway or canoe trail. Although the rivers are protected by both state and local regulations, there is concern regarding access management and the promotion of water quality as these facilities are developed and used by recreationists.
- Lake Lanier’s shoreline is managed by the U. S. Army Corps of Engineers. This is an area requiring special attention since the lake is both a regional water supply reservoir and recreation destination for the county.

### Future Greenway Phases

- Forsyth County's Big Creek Greenway multi-use trail, located in the southern portion of county, will provide recreational opportunities for pedestrians and bicyclists. The development of the greenway has been divided into five phases and extends from McFarland Road to the entrance of the Sawnee Mountain Preserve. Phase I runs from McFarland Road to Atlanta Highway (SR 9) ending at Fowler Park and is proposed to be completed in July 2009. Phase II and III of the greenway begins at Atlanta Highway (SR 9) and travels along the Big Creek River and then terminates at Bethelview Road. These sections of the project are scheduled to be completed in June 2009.
- Future plans to develop phases IV and V of the Big Creek Greenway are still being determined. Phase IV is planned to begin at Bethelview Road and proceed north to Kelly Mill Road with Phase V proposed to continue from Kelly Mill Road and conclude at Spot Road, in front of the Sawnee Mountain Preserve. Properties or easements along these intended portions of the greenway trail need to be acquired once engineered plans are finished in order to guarantee trail completion and the recreational connectivity from the southern end of the county to the Sawnee Mountain Preserve.
- Forsyth County has future plans to create a Sawnee Mountain Greenway which would extend from the Sawnee Mountain Preserve to Poole's Mill Park.

### McFarland – Stoney Point Livable Center Initiative

- The Livable Center Initiative (LCI) was created by the Atlanta Regional Commission in 1999 to encourage local governments in the Atlanta region to plan and implement strategies that link transportation improvements with land use development strategies to create mixed use communities consistent with regional development policies and air quality requirements. Through the LCI program, federal transportation funds matched with local funds provide planning grants to local governments and select non-profit organizations to conduct studies in their area. The primary goals of the LCI program are to encourage a diversity of mixed income residential neighborhoods, employment, shopping, and recreation choices; provide access to a range of travel options including buses, roadways, walking and biking; and to engage the community's stakeholders in the planning process, including groups not previously involved in community planning activities. In Forsyth County, the implementation of the McFarland-Stoney Point LCI study area should consider the incorporation of an overlay district to achieve high quality design standards; changes to the future land use map to support the 2006 adopted plan; and other minor Comprehensive Plan amendments to sustain the LCI study area concepts as outlined in the McFarland-Stoney Point LCI plan.

Areas where the pace of development has or may outpace the availability of community facilities and services

- Forsyth County has master plans for water and sewer service, transportation, parks and recreation, which are regularly updated to reflect current conditions and future trends in order to plan for population growth. A capital improvements element, updated annually, focuses on essential facilities planning as well. In addition, the Forsyth County Board of Education manages planning initiatives for public education facilities. County master plans are based on aggressive population projections in order to ensure adequate service countywide. Service expansions throughout the county are anticipated and strategized within these plans, which take appropriate phasing into account as the county continues to experience population increase. The county will need to continue to monitor infrastructure capacity and development patterns in all geographic areas to make certain community facilities and services maintain citizen expectations.

Large abandoned structures or sites, including those that may be environmentally contaminated

- In the subsequent decades, large abandoned sites such as the quarry on Ronald Reagan Boulevard, as identified previously within this narrative, the landfill along the Etowah River, and the surface mine near the vicinity of Peachtree Parkway, will need to undergo mitigation measures for land use conversion. At this time, these sites are not abandoned and therefore are not ready for environmental remediation.

Areas with significant infill development opportunities

- Forsyth County contains large tracts of undeveloped land particularly north of the City of Cumming while areas south of the city have undergone substantial development over the last twenty five years as population growth has sharply risen. Significant infill areas will not emerge until the county matures as a suburban region. Currently, the county has sizable greenfield developments that do not warrant infill planning.

Areas of significant disinvestment, levels of poverty, and/or unemployment substantially higher than average levels for the community as a whole

- Forsyth County does not presently have identifiable areas that are experiencing disinvestment although current economic conditions may create such neighborhoods if the national recession persists long term.

# Identification of Potential Issues and Opportunities

The following represents issues and opportunities for Forsyth County as identified through the Partial Comprehensive Plan update process. This list also incorporates concerns as noted within departmental master plans. Forsyth County shall consider this inventory during future activities as it moves forward with the Full Comprehensive Plan update in 2012.

## Land Use

### Issues

- There is a need for more mixed use developments that optimize pedestrian connectivity and vertical integration of commercial and residential uses. The location of these developments would require specific analysis to ensure adequate infrastructure and compatibility with surrounding land uses since such uses would be appropriate in some, not all, areas of the county.
- Forsyth County does not currently provide an extensive sidewalk network.
- More safe routes to schools are needed to promote alternative modes of transportation for school age children and teenagers.
- Forsyth County does not offer design guidebooks that illustrate desired development forms for new developments.
- Conservation subdivisions do not presently represent a substantial portion of residential housing projects in subareas where rural character is an objective.
- Open space, although required by the code, does not necessarily result in usable and contiguous areas.
- Natural and cultural resources need to be protected as the county continues to experience rapid population growth. As part of this protection, green infrastructure should continue to be identified and linked with regional planning initiatives.

## **Opportunities**

- Forsyth County code presently allows for mixed use developments which could be further incentivized to encourage more projects of this type.
- Forsyth County will continue to update the Bicycle Transportation and Pedestrian Walkways Plan as necessary in order to ensure that an extensive sidewalk and trail network is created throughout the county.
- Funding opportunities exist for safe routes to school that can be pursued to realize a pedestrian and bike option for students.
- Forsyth County will continue to expand and improve the design overlay program which may include design guidebooks to illustrate preferred development alternatives.
- Forsyth County code permits conservation subdivisions and can update regulations to attract developers to this residential development type in order to preserve increased amounts of open space.
- Forsyth County may update open space requirements to maximize open space areas so that they provide contiguous areas that are accessible to all residents or users of a given development.

## **Transportation System**

### **Issues**

- Traffic congestion is prevalent along some arterial roads in Forsyth County during peak hours.
- Developments along the county line have resulted in congestion problems on major county roads.
- Recent trends indicate that, geographically, residential growth continues to outpace employment growth, thereby increasing the jobs/housing balance.
- The limited number of east/west connectors in Forsyth County causes congestion on these facilities. East/West travel is generated in large measure by trips from adjacent counties connecting with SR 400.
- Forsyth County has nine state designated truck routes and an additional nine county roads that serve as truck routes. Truck traffic contributes to congestion along the 2-lane sections of roadway throughout Forsyth County.

- The increase in traffic volume on all roads indicates the need to have a balanced program that addresses the needs of both county roads (which are the responsibility of the county) and state roads (the responsibility of GDOT).
- In 2000, those roads in Forsyth County with segments having a traffic volume to road capacity (v/c) ratio of 0.85 and greater are state routes except for one, McGinnis Ferry Road between McFarland Road and the Gwinnett County line. Forsyth County has little control over the type of improvements and the timeline for improvements on state routes.
- Projections show that even after the 2030 road improvements are completed, 35% of Forsyth County roadways will operate at a level of service (LOS) of E or F. If funding shortfalls arise and some projects are not completed, those roadways could experience increased congestion resulting in countywide traffic problems.
- All but four of the Forsyth County roads that are projected to operate at a LOS of E or F in 2030 are state routes.
- As state, federal, and local government budgets experience shortfalls, funding for bicycle and pedestrian projects could be hard to find.
- The Forsyth County Board of Education is not currently implementing projects that could make the school system eligible for Safe Routes to Schools funding from the Georgia Department of Transportation (GDOT).
- The *Atlanta Region Bicycle Transportation & Pedestrian Walkways Plan* identifies three roadways in Forsyth County as located in the Strategic Bicycle Corridor: State Route 9, McGinnis Ferry Road, and Buford Highway. In regards to the Atlanta Regional Commission's (ARC) network, the level of accommodation for bicycles and pedestrians on these roads is below average.
- It could be difficult for Forsyth County to coordinate connections with the Big Creek Greenway in the City of Alpharetta due to large areas of privately owned land bisecting the routes.
- Funding shortfalls and intergovernmental disputes could delay or eliminate the possibility of the coordination and continuation of bicycle and pedestrian facilities among local governments.

## **Opportunities**

- Forsyth County has representation on the Transportation Coordinating Committee (TCC) of the Atlanta Regional Commission (ARC). The TCC, along with the ARC Transportation Division planning staff, is responsible for providing technical advice to the Transportation & Air Quality Committee (TAQC)

regarding metropolitan or multi-jurisdictional transportation matters potentially affecting the Atlanta Region.

- The Livable Centers Initiative (LCI) area located in southern Forsyth County provides opportunities for mixed use development that could decrease traffic in and around Forsyth County.
- Several federal and state funding sources are available that Forsyth County could potentially use for transportation improvements. Funding sources include: National Highway System (NHS) for major roadways; Recreational Trails Program (RTP) for the creation, rehabilitation, and maintenance of multi-use trails; Surface Transportation Programs (STP) for improvements for roads classified as urban collectors or higher; programs that improve quality of life such as Livable Centers Initiative (LCI) projects; Safe Routes to Schools for pedestrian and bicycle projects within two miles of a school; and Federal Transit Administration (FTA) programs such as Section 5310, Elderly and Persons with Disability.
- The Forsyth County Planning and Development Department shall continue periodic reviews of the Forsyth County Unified Development Code to improve and expand upon bicycle and pedestrian facility requirements within developments.
- Forsyth County planners, engineers, and geographic information systems (GIS) personnel have the opportunity to continue working together as a technical resource for the implementation and future updates of the Forsyth County Bicycle Transportation and Pedestrian Walkways Plan.
- As more roadways in Forsyth County are added, widened, or reconstructed, the opportunity arises for the implementation of projects outlined in the Forsyth County Bicycle Transportation and Pedestrian Walkways Plan.
- The Forsyth County Board of Education can begin implementing programs that may make the school system eligible for Safe Routes to Schools funding from the Georgia Department of Transportation (GDOT).
- The infrastructure is either currently in place or shall be in place by 2030 so that the majority of Forsyth County school students will have the option to walk or bike to school.
- Forsyth County has the opportunity to increase the level of accommodation for bicyclists and pedestrians on the three roadways identified in the Atlanta Region Bicycle Transportation & Pedestrian Walkways Plan through the addition of sidewalks, multi-use trails, or bicycle friendly shoulders. The Forsyth County Bicycle Transportation and Pedestrian Walkways Plan calls for sidewalks and

multi-use paths to be installed over the entire length or portions of these roadways by the year 2025.

- Forsyth County can remain eligible for funding from the Atlanta Regional Commission (ARC) for projects such as the construction of sidewalks in the McFarland-Stoney Point Livable Centers Initiative (LCI) study area by demonstrating progress toward implementation of the LCI plan.
- Forsyth County should encourage the development of additional park and ride lots as well as additional public transit programs to supplement the Dial-A-Ride bus service.
- Forsyth County and Cherokee County can work together to ensure the continuation of the signed shared roadways for bicyclists along Drew Campground Road and Bentley Road, and the continuation of the Etowah Greenway River Trail through both counties.
- Forsyth County and the City of Milton can coordinate bicycle and pedestrian facility connections at Bethany Bend, Morris Road, Francis Road, and Lively Road.
- Forsyth County and the City of Alpharetta can work together to coordinate bicycle and pedestrian facility connections at McGinnis Ferry Road, Union Hill Road, and Windward Parkway as well as connections for the Big Creek Greenway.
- Forsyth County has the opportunity to continue bicycle and pedestrian facility projects along McGinnis Ferry Road, Brookwood Road, and Peachtree Parkway currently being completed in the City of Johns Creek.
- Forsyth County and Gwinnett County can coordinate the construction of a multi-use trail along the abandoned steel truss bridge in Settles Bridge Park.
- Forsyth County, Gwinnett County, the City of Johns Creek, and the Chattahoochee River National Recreation Area should take steps to ensure the creation of an integrated system of trails along the Chattahoochee River.
- Forsyth County has the opportunity to continue bicycle and pedestrian facilities from Hall County along Browns Bridge Road (SR 369) and Dawsonville Highway (SR 53).
- Forsyth County can create a scenic route connection with Dawson County along SR 9 by continuing bicycle access from the existing signed shared roadway along Bannister Road north to SR 9 into Dawson County where SR 9 is frequently used by bicyclists.

## Natural and Cultural Resources

### Issues

- As one of the 10 fastest growing counties in the nation since 2000 based on population estimates from the U. S. Census, pressure on natural resources continues to grow.
- The extreme drought conditions across the state have severely impacted Lake Lanier as both a water supply reservoir and a recreation destination for county as well as metro area residents and visitors.
- Existing and future development within the county will have long term impacts on rivers and streams including the Chattahoochee and Etowah rivers.
- Future development will impact viewsheds across the county due to topographical variability found throughout the jurisdiction.
- The continual rezoning and development of former agricultural property is reducing the amount of farmland and pastures.
- Existing tree canopy continues to be reduced from land clearing for new development.
- Impervious surfaces are increasing from the expansion of residential and commercial development.
- Demolition of historic resources occurs as property is rezoned and then cleared for development.
- Archeological resources may be compromised as land is developed, particularly along the Etowah River where such resources have been documented.
- Agricultural outbuildings and historic landscapes are in jeopardy with substantial increases in population that necessitate more land development.

### Opportunities

- Forsyth County can continue opportunities to educate the public on water conservation.
- Forsyth County can implement additional water conservation measures such as potential code changes that address drought tolerant landscapes that will aide in addressing the regional wide issue of drought conditions and the need to safeguard water supply.

- Forsyth County may pursue the construction of a future water reservoir along the Etowah River as a long term solution to water supply concerns.
- Forsyth County will continue to evaluate the tiered water rate system in order to sustain conservation efforts.
- Forsyth County has completed an initial survey for groundwater wells and will move forward with test drilling in the near future. The use of groundwater wells would supplement water supplies during peak use times when surface supplies are down.
- Forsyth County will maintain cooperation with agencies involved with water supply and conservation including the U. S. Corps of Engineers, the Metropolitan North Georgia Water District, City of Cumming, the state Environmental Protection Division, and other metro jurisdictions.
- Forsyth County has code requirements in place to protect state waters, floodplains, and wetlands. In addition, both the Chattahoochee and Etowah rivers have protection overlay districts to comply with state law. The county will continue to refine code requirements to ensure adequate protection of water resources.
- Forsyth County is currently working on a greenspace acquisition plan to address areas that would be suitable for purchase through a voter approved greenspace bond as well as donations. One of the criteria for selection is the preservation of scenic resources. The county still has a substantial amount of agriculturally zoned property from which conserved open space can be created.
- Initiatives to preserve open space and scenic viewsheds include the future full implementation of the master plan for the Sawnee Mountain Preserve which consists of 963 acres. Other plans within the county include upcoming phases of the Big Creek Greenway, Sawnee Mountain Greenway, and the implementation of greenways along the Etowah and Chattahoochee Rivers.
- Forsyth County will be able to move forward to expand the greenspace plan in order to incorporate data from the current greenspace acquisition study to identify areas suitable for open space preservation once that study is completed.
- Forsyth County's tree ordinance and other code measures require the replacement of trees when new development clears existing vegetation in order to generate an adequate canopy over the long term. Future donations to the county tree fund and pursuing grant opportunities can assist with tree plantings throughout the county to increase tree canopy to supplement code requirements.

- Impervious surface is limited with maximum building coverage code regulations as well as requirements for large scale retail to provide pervious parking if exceeding the minimum parking space requisite. There is further opportunity to address impervious surfaces through potential code revisions.
- Forsyth County can continue to utilize resources available from Georgia Mountains Regional Development Center to determine the feasibility of a historic preservation program.

## **Population**

### **Issues**

- Significant population growth has put a strain on the county's infrastructure. Water, sewer, roads, and public services (police, fire, schools and parks) have all been affected because of the county's rapid growth.
- Forsyth's population growth has exceeded that of the state and nation for nearly two decades. From 1990 to 2000 the county's population increased by approximately 123%. From 2000 to 2007 the population increased again by approximately 59%.
- The rise in population has increased the demand for housing leading to large residential developments.
- Continued rapid increase in population could necessitate adjustments of county regulations which may lead to future moratoria on development while code and policy modifications are being completed.
- The 2007 U. S. Census shows Forsyth County as having a lack of diversity in the community. American Indians and African Americans are the two ethnic groups least represented.
- The USDA Economic Research Service indicated that the number of residents 60 years and older grew by 15% in the county between 1990 and 2000 due to immigration.

### **Opportunities**

- An increase in population also means an increase in revenue for the county via taxes.
- The increase in population enhances the possibility of a more diverse community.

- Based on the 2000 U. S. Census, the prominent age group in the county is between 35 to 44 years, with a median age of 34.5 years in 2007. This could be beneficial to both new and existing industries that are looking to establish or increase their employee base.
- County residents are categorized as having higher disposable incomes than those in the surrounding jurisdictions. Based on the U. S. Census Bureau of Economic Analysis, the per capita income in 2006 for Forsyth County, Georgia, and the U.S. was \$31,560, \$23,567, and \$25,267, respectively.

## **Community Facilities and Services**

### **Issues**

- Private sewer systems could fail, resulting in environmental contamination or Forsyth County taking over the systems sooner than expected.
- Topography makes the provision of infrastructure to the Lake Lanier drainage basin difficult.
- Currently, there are a large number of individual on-site sewage disposal systems in the Lake Lanier drainage basin. Septic tanks are considered a consumptive use by the proposed Apalachicola-Chattahoochee-Flint Basin (ACF) Compact, which means that the water used is not credited as a return to the watershed from which it was withdrawn. Also, many of the existing septic tanks in this basin are located in close proximity to the primary drinking source, Lake Lanier, and contamination is a potential problem.
- In those areas currently not serviced by public sewer, there is the possibility of water supply contamination due to septic tank failure. As development increases in areas that do not have access to public sewer, eventual contamination of the water supply may occur from failed septic systems.
- Year to year fluctuations in population and demand have made it difficult to anticipate future infrastructure demands.
- Drought conditions continue throughout Forsyth County and the entire southeast region.
- Over the short term, one to two years, rainfall has a larger impact on demands in Forsyth County than either population growth or conservation.
- Projections show that between 2005 and 2025, the population connected to the Forsyth County water system could increase by up to three times from 99,000 to 340,000. Infrastructure planning will need to accurately anticipate this increase in

order to properly serve an enlarged population. Updates to the water distribution plan must be executed as conditions change in order to meet future demand.

- Forsyth County's current water contract with the City of Cumming ends in 2012. This contract will have to be renegotiated in the future. The Water Distribution System Master Plan does consider future scenarios with and without water being supplied by the City of Cumming.
- Receiving water from neighboring counties could be costly for Forsyth County.

### **Opportunities**

- Forsyth County can take over private sewer systems and increase projected future capacity either by contracting with the current systems' owners or by using revenue and tap fees to purchase the present assets at the plants and assume ownership.
- Forsyth County can continue the current practice of using treated waste water effluent for irrigation and expand the service area in the future.
- Forsyth County can continue studying the advantages and disadvantages of returning treated effluent to the Chattahoochee River and Lake Lanier.
- Persisting drought conditions could create community support for Forsyth County to research more efficient ways of storing and conserving water.
- Receiving water from neighboring counties could be very beneficial for Forsyth County in times of emergency.

## **Economic Development**

### **Issues**

- The lack of public transportation in the county is a concern for some businesses relocating into the area.
- With the county's rapid growth and current water issues, it may be difficult for new businesses to sustain long term returns on their investments.

### **Opportunities**

- Forsyth County is located off of GA 400, approximately 30 miles from Atlanta. It is strategically placed along Georgia’s science and technology corridor which is a benefit in attracting new corporations.
- The county has relatively low taxes compared to other jurisdictions. Based on data provided by the Georgia Department of Revenue, during the past five years, the county collected an average of \$130 per capita in property taxes, which is less than the average of \$163 per capita collected by similarly-sized counties within the state.
- The county has several business parks that are available for new corporations to quickly move into the area.
- Because the county has much to offer new businesses in terms of current growth, investment trends, and a high quality of life, it has the advantage of being selective when recruiting firms.
- Amenities such as proximity to the mountains and Atlanta, the availability of higher education, and recreational possibilities, make the county very appealing to both first and second career workers.
- The county has nine state designated truck routes that could serve as a catalyst for future industrial growth.
- The Cumming-Forsyth County Chamber of Commerce has a wide variety of programs that assist both entrepreneurs and Fortune 500 firms.
- The county’s decision making body exhibits a ‘pro-business’ mind set by encouraging new businesses into the area through accommodating codes and policies.

## **Housing**

### **Issues**

- The county currently needs additional affordable housing opportunities for its low income residents.
- The county is currently facing an excess inventory in the housing market.
- The county currently needs more mixed use communities in selected areas of the county.

## **Opportunities**

- Forsyth County can address the need for affordable housing through future code revisions that may incorporate an incentive-based provision for the development of workforce housing.
- Based on the county's 2007 GIS data, approximately 21% of its jurisdiction is classified as undeveloped land, which would help to meet the needs of future growth and development. The current excess housing inventory will be immediately available as the market improves throughout the metro region.
- The county's unified development code provides guidance and regulations for the future development of both mixed use and neo-traditional communities via its residential, planned unit and master plan districts. Code revisions can continue to be made as needed to incentivize mixed use developments.

## **Intergovernmental Coordination**

### **Issues**

- Forsyth County and the City of Cumming do not prepare a joint comprehensive plan. This could lead to discrepancies in future plans for both jurisdictions, especially in those areas of unincorporated Forsyth County most likely to be annexed into the City of Cumming.
- The City of Cumming challenged Forsyth County in two separate lawsuits in regards to the legality of the SPLOST VI resolution before and after the February 2008 election where the measure was approved by Forsyth County citizens. An intergovernmental agreement between the City of Cumming and Forsyth County was reached in May 2008 to resolve the dispute. Future challenges concerning SPLOST funds between the city and the county could lead to additional legal interventions and potential funding shortfalls for the county.

### **Opportunities**

- The Cumming-Forsyth County Chamber of Commerce can continue to improve their efforts to promote economic development as well as brownfield and greyfield projects.
- Forsyth County and the City of Cumming can enhance the marketing of the area in terms of agri-business and cultural events through the Georgia 400 Hospitality Highway tourist campaign.

- Forsyth County has the opportunity to expand the existing relationships with higher education institutions to make additional programs available to the residents of Forsyth County through satellite campuses and study programs.
- Forsyth County can coordinate with adjacent communities to create an interconnected bicycle and pedestrian facilities network including the Etowah Greenway River Trail, the Big Creek Greenway, and a proposed greenway along the Chattahoochee River.
- Forsyth County can continue working with adjacent jurisdictions to ensure the protection of the region's natural resources such as Lake Lanier, the Chattahoochee River, and the Etowah River.
- The Forsyth County Water and Sewer Department can extend the current intergovernmental agreements that supply Forsyth County with water and wastewater treatment.
- Forsyth County can maintain its role in regional and state organizations such as the Georgia Mountain Regional Development Center (GMRDC), the Atlanta Regional Commission (ARC), the Georgia Department of Transportation (GDOT), the Georgia Regional Transportation Authority (GRTA), and the Metropolitan North Georgia Water District.

# Supplement to Potential Issues and Opportunities

The following represents content revisions to a select number of potential issues and opportunities as identified through the Comprehensive Plan partial update process. These changes are based on information received from continued dialogue concerning the Water Distribution System Master Plan. These amendments accurately reflect the most current water and sewer infrastructure conditions.

## Community Facilities and Services

### Issues

- ~~• The Lake Lanier drainage basin is a high growth area. The rapid growth could make it difficult for the county to keep pace with infrastructure improvements.~~

This is being removed based on the Lake Lanier drainage basin having moderate versus high development growth.

- ~~• Residential development in the Etowah drainage basin has increased beyond the population projections shown in the Sewer System Master Plan of December 2002.~~

The February 2004 addendum to the sewer system master plan regarding the Etowah Basin adjusted the original basin population projections indicated in the 2002 plan so this issue has been adequately addressed.

- ~~• The 2004 update to the Forsyth County Sewer Master Plan states that sub-basins 1 and 2 of the Etowah drainage basin are not projected to develop to the extent necessary to warrant public sewer service. Based on the other areas of the Etowah drainage basin exceeding development projections, development in these sub-basins could also exceed projections and require public water and sewer services Forsyth County is not prepared to provide.~~

Sub basins 1 and 2 within the Etowah drainage basin are not significant enough in size to create an infrastructure issue. As stated above, the projected increase in population to this area has been addressed within the February 2004 addendum.

- ~~• Water will no longer be supplied to Forsyth County from the City of Cumming from three pump stations. These pump stations are located along Castleberry Road, Old Atlanta Road, and Dr. Bramblett Road. This could lead to possible supply interruptions to customers in these areas if county infrastructure is not adequate to serve the population.~~

Forsyth County has a contract with the City of Cumming for the provision of a portion of the county's water. Although this contract will expire in 2012, infrastructure is in place if the service contract is not renewed.

- Projections show that between 2005 and 2025, the population connected to the Forsyth County water system could increase by up to three times from 99,000 to 340,000. ~~Forsyth County may not be prepared to provide water to this number of people.~~ Infrastructure planning will need to accurately anticipate this increase in order to properly serve an enlarged population. Updates to the water distribution plan must be executed as conditions change in order to meet future demand.

This potential issue has been reworded to indicate that although current infrastructure cannot meet the projected population, the purpose of the water distribution plan is to anticipate adequate expansions to satisfy the projected influx of users.

# Policies

## Land Use

- We will be committed to encouraging pedestrian scaled developments in select areas of the county that are mixed use and focused on multimodal transportation options.
- We will support walkable and safe neighborhoods. Where appropriate, these neighborhoods should have easy access to a variety of land uses including schools, parks, and necessary commercial services without having to travel by motorized vehicle.
- We want design elements that add value to the community and enhance visual context.
- We will endorse compact, nodal commercial development to increase land use efficiency and improve the appearance and functionality of major roadways.
- We will encourage development that is environmentally sensitive, receptive to cultural resource protection, and that maintains or creates a sense of place for community members.
- We will preserve portions of the community's rural character through greenspace planning, encouragement of conservation subdivisions, and the utilization of functional open space.
- Creation of greenspace is important to our community and we will support land uses that contribute to natural resource conservation.
- We will be committed to providing public gathering spaces, parks, and recreational facilities throughout the county.
- We want to contribute to the retention of our historic built environment through the support of cultural resource preservation education for area residents and property owners.
- Our gateways and corridors will create a sense of place for our community.
- We will be open to land development concepts that may be new to our community, but have been tried successfully in other places.

## Transportation System

- We will ensure that prime commercial and industrial acreage is served with the necessary transportation infrastructure.
- Our new and reconstructed roadways will continue to be designed to accommodate multiple functions, including pedestrian facilities and bicycle routes as well as local vehicular circulation.
- Our new and reconstructed roadways will be appropriately designed, using context sensitive design considerations, to enhance community aesthetics and to minimize environmental impacts.

- We will continue to encourage mixed use development and other options to allow residents to live in close proximity to their place of employment.
- We will continue to make decisions that encourage walking, biking, car-pooling, and other alternative transportation choices.
- We will continue to support the creation of a community-wide pedestrian and bike path network.
- We will encourage new development that supports and ties in well with existing and planned public transit options in the community.
- We will continue to enhance our transportation corridors with upscale design regulations.
- We will explore alternatives to improve the existing Dial-A-Ride program.
- We will explore the possibility of starting a county-wide public transportation system.
- We will continue to coordinate bike and pedestrian trails and greenways with the local school board and neighboring jurisdictions.
- We will continue to implement the McFarland-Stoney Point Livable Centers Initiative (LCI) plan so that we can provide alternative transportation options in that area.

### **Natural and Cultural Resources**

- We will ensure safe and adequate supplies of water through protection of surface and ground water sources.
- We will recommend more compact development in order to preserve natural and cultural resources.
- We will be committed to preserving greenspace and meaningful open space.
- We will maintain tree replacement efforts including the pursuit of funding, when available, for tree planting projects.
- We will encourage the reduction of impervious surfaces including the use of pervious parking surfaces, where appropriate.
- We will support cultural resource preservation education in order to promote available preservation options for property owners.
- We will support waste reduction and recycling initiatives throughout the county.

### **Community Facilities and Services**

- Our community will make efficient use of existing infrastructure and public facilities in order to minimize the need for costly new or expanded facilities.
- We will protect existing infrastructure investments by encouraging infill development and compact development patterns.
- We will ensure that new development does not cause a decline in existing levels of service for the community's residents and employers.

- We will monitor development within our community to ensure that new areas of growth are served by public infrastructure.
- We will continue to coordinate provisions for public facilities and services with land use planning to promote more compact development.
- The community will use sequential, phased extension of utilities and services to encourage rational expansion of development to areas immediately contiguous to already developed areas of the community.
- Our community will use planned infrastructure expansion to support development in areas identified in our comprehensive plan as suitable for such development.
- We will continue to invest in accessible parks, open space, recreational facilities, and public gathering places to enhance the quality of life for our citizens.
- We will support the local school board and encourage school location decisions that support the community's overall growth and development plans.
- We will continue to ensure that new and existing development is supported adequately by necessary infrastructure; particularly roads, schools, public safety protection, and wastewater treatment systems.
- We will continue to encourage high design standards for community facilities to generate local community pride and to establish standards for quality private sector development within the community.
- The Forsyth County Sheriff's Department will continue to serve and protect the citizens and visitors of the county through dedication, professionalism, active cooperation with the community, and respect for human dignity.
- The Forsyth County Parks and Recreation Department will continue to improve the quality of life for the citizens of the county by providing quality programs, facilities, and opportunities.
- The Forsyth County Board of Education will continue to provide quality education, programs, and facilities to the citizens of the county.
- We will continue to investigate water conservation measures for the community to offset prolonged drought conditions.

## **Economic Development**

- We will seek to balance the supply of housing and employment in our community and consider their location in relation to each other.
- We will explore alternatives to improve the county's existing Dial-A-Ride program and other options to promote public transit opportunities.
- We will support programs for retention, expansion, and creation of businesses that enhance our economy.
- We will take into account impacts on infrastructure and natural resources in our decision making on economic development projects.
- We will continue to partner with the Georgia Department of Community Affairs, Georgia Mountains Regional Development Center, Cumming-Forsyth County Chamber of Commerce, and other entities to find solutions to establishing diverse,

long-term employment opportunities and to advance the economic development of the county.

- We will carefully consider costs as well as benefits in making decisions on proposed economic development projects.
- We will target reinvestment in declining, existing corridors to further encourage private sector redevelopment and accommodate future growth.
- We will continue to work closely with the Cumming-Forsyth County Chamber of Commerce, citizens, and the developers to promote the county as an attractive area for high tech corporations to locate.

## **Housing**

- We will continue to seek opportunities to expand affordable housing opportunities to assist those who work in the county with a viable option to live in the county.
- We will encourage development of housing opportunities that enable residents to live close to their places of employment.
- We will promote the concept of “lifecycle” housing within the community by encouraging the development of a variety of housing types, styles, and price ranges.
- We will encourage interactive neighborhoods where people have easy access to parks, common open space, residences, and businesses through walkways, bike paths, and roads.
- We will work to ensure that high quality housing is constructed and maintained in the county.
- We will encourage the development of senior living facilities in order to keep up with the changing demographics of our community.
- We will continue to encourage subdivision designs that highlight the layout of the land and that are screened from the major roadways with natural buffers or geographical features.

## **Intergovernmental Coordination**

- We will continue to seek opportunities to share services, facilities, and information with neighboring jurisdictions when mutually beneficial.
- We will continue to share services and information with other public entities within the jurisdiction.
- We will continue to work jointly with neighboring jurisdictions on developing solutions for shared regional issues such as growth management, alternative transportation, watershed protection, and the provision of services.
- We will continue to pursue joint processes for collaborative planning and decision-making with neighboring jurisdictions.
- We will continue to consult other public entities in our area when making decisions that are likely to impact them.

- We will continue to provide input to other public entities when they are making decisions that are likely to have an impact on our community or our plans for future development.
- We will engage in cooperative planning between the local government and local school board.
- We will continue to support existing educational institutions and encourage development of new opportunities to educate our citizens.
- We will work together to achieve community objectives and promote community involvement in future county improvement efforts.
- We will continue to participate in regional economic development organizations.
- We will continue to participate in regional environmental organizations and initiatives.
- We will continue to meet regularly with neighboring jurisdictions to maintain contact, build connections, and discuss issues of regional concern.
- We will continue to think regionally, especially in terms of issues such as land use, transportation, and housing, understanding that these go beyond local government borders.

**FORSYTH COUNTY**  
**SHORT TERM WORK PROGRAM REVISED FOR THE 2008 - 2012 PERIOD**

Description	2008	2009	2010	2011	2012	2013 - 2020	2021 - 2030	Responsibility	Funding Source(s)	Estimated Cost (\$)	Explanation of Project Status
<b>GENERAL</b>											
Update the Unified Development Code. Address existing inconsistencies and include modifications to reflect the goals and objectives of the Comprehensive Plan.	✓							Department of Planning and Development	Forsyth County	400 Hours	In-Progress. In 2007, the Unified Development Code was revised four times, each revision worked to eliminate inconsistencies and incorporate the vision of the Comprehensive Plan. The first scheduled revision in 2008 will focus on outdoor lighting. Additional revisions are anticipated.
Modify development regulations to encourage mixed-use developments in appropriate land use designations with appropriate controls.		✓						Department of Planning and Development	Forsyth County	80 Hours	Completed. The Master Planned District zoning classification was added to the Unified Development Code in December 2004. In 2009, the planning staff will study the effectiveness of the Master Planned District and determine if revisions are necessary.
Examine the rezoning process with focus on submittal requirements and the revision process.	✓							Department of Planning and Development	Forsyth County	80 Hours	Completed. The November 2007 revisions to the Unified Development Code modified the rezoning process. Staff will monitor the new requirements and revisit the issue if problems are identified.
Modify development regulations to encourage the installation of sidewalks, bike paths and trees along roadways as they are improved or created.		✓	✓					Department of Planning and Development	Forsyth County	120 Hours Per Project Year	On-Track. The Bicycle Transportation and Pedestrians Walkways 2025 Plan update was adopted in August 2008. Potential changes to the Unified Development Code will be examined.
Review the County's rules, regulations, and ordinances to ensure that adequate measures are in place to protect and encourage the preservation of trees and vegetative cover.	✓	✓	✓	✓	✓			Department of Planning and Development	Forsyth County	40 Hours Per Project Year	On-Going. The February 2007 revisions to the Unified Development Code modified landscape requirements and the November 2007 revisions to the Unified Development Code modified stream buffer requirements. Staff will continue to monitor rules, regulations, and ordinances to ensure there is adequate preservation of trees and vegetative cover.
Investigate measures to achieve a balanced mix of dwelling types, sizes, and prices in order to meet the diverse needs of the community's workforce and support desired commercial and industrial growth.	✓	✓	✓	✓	✓			Department of Planning and Development	Forsyth County	80 Hours Per Project Year	On-Going. The December 2007 revisions to the Unified Development Code added provisions for senior housing. Forsyth County will continue to seek opportunities for housing diversity.
Investigate amending the Unified Development Code to establish a voluntary, incentive-based provision for the development of workforce housing.			✓	✓				Department of Planning and Development	Forsyth County	40 Hours Per Project Year	On-Track. Staff will continue to collect information and prepare to discuss the issue at a future work session with the Board of Commissioners.

**FORSYTH COUNTY**  
**SHORT TERM WORK PROGRAM REVISED FOR THE 2008 - 2012 PERIOD**

Description	2008	2009	2010	2011	2012	2013 - 2020	2021 - 2030	Responsibility	Funding Source(s)	Estimated Cost (\$)	Explanation of Project Status
Revise the permitting and enforcement procedures that are related to the sign ordinance to help preserve the scenic features of the county.	✓	✓						Department of Planning and Development  Code Enforcement	Forsyth County	120 Hours Per Project Year	In-Progress. The 2007 budget added a full-time staff member to work on sign permit applications. This allowed the development of revised permitting and review process in 2007. Staff will continue to refine enforcement procedures.
Revise the sign ordinance to improve the readability of the document.	✓	✓						Department of Planning and Development	Forsyth County	80 Hours Per Project Year	On-Track. The sign ordinance was revised in 2003 and became one of the first content neutral sign ordinances in the Atlanta area. This new approach has been effective in providing opportunities for free speech, but can be a difficult code to interpret. Staff should seek to clarify the procedures and requirements of the ordinance.
Prepare a greenway/open space master plan to reflect the goals and objectives of the Comprehensive Plan.		✓	✓					Department of Planning and Development	Forsyth County	160 Hours Per Project Year \$130,000 Consultant Funding	On-Track. November 2007 revisions to the Unified Development Code strengthened the requirements for open space in conservation subdivisions. This effort should be supplemented with the development a greenway/open space master plan. The master should consider the feasibility of transferable development rights and other methods identified in the Comprehensive Plan.
Review, and update as necessary, the County's rules, regulations, and ordinances to ensure that adequate measures are in place to protect water resources.	✓	✓	✓	✓	✓			Countywide	Forsyth County	200 Hours Per Project Year	On-Going. The November 2007 revisions to the Unified Development Code modified the stream buffer requirements. Staff will continue to monitor all rules, regulations, and ordinances related to the preservation of water resources. Additionally, local procedures will be evaluated to ensure long-term compliance with state and federal requirements.
Modify the Unified Development Code to incorporate water conservation policies. Follow the procedures outlined by the Metropolitan North Georgia Water Planning District, as well as other sources.	✓							Department of Planning and Development  Department of Water and Sewer	Forsyth County	200 Hours	In-Progress. Recommendations will be presented to the Board of Commissioners at a work session.
Identify an annual review and update process for the Comprehensive Plan and continue to monitor development to determine if the goals and objectives of the plan are being attained.	✓	✓	✓	✓	✓			Department of Planning and Development	Forsyth County	160 Hours Per Project Year	On-Going. Planning staff presented the methodology to the Board of Commissioners in 2007. Modifications to the Future Land Use Map will consider recent zoning activity and existing project density. The initial update is expected to be completed in early 2008.

FORSYTH COUNTY											
SHORT TERM WORK PROGRAM REVISED FOR THE 2008 - 2012 PERIOD											
Description	2008	2009	2010	2011	2012	2013 - 2020	2021 - 2030	Responsibility	Funding Source(s)	Estimated Cost (\$)	Explanation of Project Status
Major update the Comprehensive Plan.		✓	✓	✓				Department of Planning and Development	Forsyth County	1,000 Hours Per Project Year \$150,000 Consultant Funding	On-Track. Major update of the Comprehensive Plan is expected to be a three year process.
Continue to expand and improve the Overlay District program.	✓	✓	✓					Department of Planning and Development	Forsyth County	1,500 Hours Per Project Year	On-Going. Staff has completed background work for the Matt and LCI overlays. Future overlay work will attempt to group major transportation corridors, with common traits, into one overlay district. Future overlays will continue to consider design criteria
Coordinate with the City of Cumming to identify further opportunities for joint service delivery.	✓	✓	✓	✓	✓			All Service Providers HB 489 identifies	Forsyth County	80 Hours Per Project Year	On-Going.
Work with the City of Cumming, the Forsyth County Board of Education, and other local entities to examine the feasibility of establishing a joint processes for collaborative planning and decision-making for facilities, etc.	✓	✓	✓	✓	✓			Countywide	Forsyth County	80 Hours Per Project Year	On-Going.
Continued compliance with the procedures for annual review and update of Capital Improvements Element and Short Term Work Program as required by Impact Fees.	✓	✓	✓	✓	✓			Department of Planning and Development, Finance Department, Department of Engineering, and all departments participating in the Impact Fee Program	Forsyth County	200 Hours Per Project Year	On-Going.
Utilize resources available from Georgia Mountains Regional Development Center to determine the feasibility of a historic preservation program.		✓	✓					Department of Planning and Development	Forsyth County	40 Hours Per Project Year	On-Track. Present concept to Board of Commissioners at future work session.
<b>PUBLIC SAFETY</b>											
Sheriff's Administration Bldg	✓							Sheriff	County	\$13,888,194	On-Track.
New Precinct - South	✓							Sheriff	County	\$2,434,573	On-Track.
New Precinct - North	✓							Sheriff	County	\$2,434,573	On-Track.
Auxiliary Building	✓							Sheriff	County	\$1,255,333	On-Track.
Additional Precinct (Northwest)				✓				Sheriff	County	\$2,544,000	On-Track.
Additional Precinct (Southeast)				✓				Sheriff	County	\$2,035,200	On-Track.
Detention Facility		✓	✓	✓				Sheriff	County	\$27,291,386	On-Track.

**FORSYTH COUNTY**  
**SHORT TERM WORK PROGRAM REVISED FOR THE 2008 - 2012 PERIOD**

Description	2008	2009	2010	2011	2012	2013 - 2020	2021 - 2030	Responsibility	Funding Source(s)	Estimated Cost (\$)	Explanation of Project Status
Microwave Communications Link for 800 MHz Radio System			✓					County	County	\$1,000,000	On-Track.
Voice and Data Channels for 800 MHz Radio System			✓					County	County	\$500,000	On-Track.
New Tower Site for NW Sector of Forsyth County		✓						County	County/ Impact Fees	\$1,200,000	On-Track.
Upgrade to 800 MHz Radio System				✓	✓			County	County	\$3,000,000	On-Track.
Fire Station 16 - John's Creek			✓					Fire and Rescue	County/ Impact Fees/ SPLOST	\$3,340,000	On-Track.
Fire Station 6 - Vickery		✓						Fire and Rescue	County/ Impact Fees/ SPLOST	\$2,021,000	On-Track.
Fire Station 17 - Matt/Old Federal			✓					Fire and Rescue	County/ Impact Fees/ SPLOST	\$3,460,000	On-Track.
Fire Station 7 - Silver City		✓						Fire and Rescue	County/ Impact Fees/ SPLOST	\$2,021,000	On-Track.
New Ladder Truck		✓						Fire and Rescue	County/ Impact Fees/ SPLOST	\$825,000	On-Track.
Fire Station 3- Replacement				✓				Fire and Rescue	County/ SPLOST	\$3,450,000	On-Track.
Fire Station 4- Replacement				✓				Fire and Rescue	County/ SPLOST	\$3,160,000	On-Track.
Fire Station 8- Replacement					✓			Fire and Rescue	County/ SPLOST	\$3,550,000	On-Track.
<b>PARKS AND RECREATION</b>											
Fowler Park		✓						Parks & Recreation	County/ SPLOST	\$19,100,000	On-Track.
South Recreation Center at Fowler Park	✓	✓	✓					Parks & Recreation	County/ Park Bond/ Impact Fees	\$6,500,000	On-Track.
Northwest Park - Land (AKA "Community Park")		✓						Parks & Recreation	County/ Park Bond	\$4,000,000	On-Track.
Northwest park - Development (AKA "Soccer Complex II")					✓			Parks & Recreation	County/ Impact Fees	\$12,000,000	On-Track.

**FORSYTH COUNTY**  
**SHORT TERM WORK PROGRAM REVISED FOR THE 2008 - 2012 PERIOD**

Description	2008	2009	2010	2011	2012	2013 - 2020	2021 - 2030	Responsibility	Funding Source(s)	Estimated Cost (\$)	Explanation of Project Status
Upgrade Coal Mountain Park (Miracle Field)	✓							Parks & Recreation	County/ Impact Fees	\$1,600,000	In-Progress.
Bennett Park	✓							Parks & Recreation	County/ SPLOST/ Park bond	\$1,000,000	In-Progress.
Midway Park	✓							Parks & Recreation	County/ SPLOST/ Park bond	\$970,000	In-Progress.
Sawnee Park Facilities	✓							Parks & Recreation	County/ SPLOST	\$320,000	On-Track.
Skate Park	✓							Parks & Recreation	County/ Impact Fees	\$1,000,000	On-Track.
Sharon Springs	✓							Parks & Recreation	County/ SPLOST/ Park bond	\$730,000	On-Track.
Charleston Park Phase 1	✓							Parks & Recreation	County/ SPLOST	\$1,100,000	On-Track.
Big Creek Greenway Phases 2 & 3	✓	✓	✓					Parks & Recreation	County/ Park Bond/ Impact Fees	\$11,400,000	On-Track.
Sawnee Mountain Preserve Phase 3		✓						Parks & Recreation	County/ SPLOST	\$3,500,000	On-Track.
Fowler Park Pool	✓	✓	✓					Parks & Recreation	County/ Park Bond	\$10,000,000	On-Track.
Threatt Park					✓			Parks & Recreation	County/ SPLOST	\$12,000,000	On-Track.
Develop North Park		✓						Parks & Recreation	County/ SPLOST	\$12,000,000	On-Track.
<b>PUBLIC LIBRARIES</b>											
Hampton Branch	✓	✓						Public Libraries	County/ SPLOST/ Impact Fees/ State Grant	\$6,815,882	In-Progress
Post Road			✓	✓				Public Libraries	County/ SPLOST	\$7,200,000	On-Track.
Northwest Branch Library		✓						Public Libraries	County/ SPLOST	\$1,148,400	On-Track.
Headquarters Rear Parking Lot		✓						Public Libraries	County/ Impact Fees	\$700,000	On-Track.
<b>TRANSPORTATION/ROADS</b> (Note: If road impact fee program is adopted, it will be used as a funding source)											
								<b>Sponsor at Current Phase</b>			
PE = Design RoW = Right of Way Acquisition CST = Construction -L = Local -S = State -F = Federal -D = Develop											

**FORSYTH COUNTY**  
**SHORT TERM WORK PROGRAM REVISED FOR THE 2008 - 2012 PERIOD**

Description	2008	2009	2010	2011	2012	2013 - 2020	2021 - 2030	Responsibility	Funding Source(s)	Estimated Cost (\$)	Explanation of Project Status
SR 20 (Buford Highway): Segment 4 - Samples Road/Trammel Rd to James Burgess Rd [TIP: FT-061D; SPLOST: R-1]	PE-L	RoW-F,-S				CST-F,S		Local	Local/State/ Fed	See Note 1	In-Progress.
SR 9 (McFarland Road TO SR 371 (Post Rd) [TIP: FT-001B; SPLOST: R-2]	PE-S						RoW-F,-S; CST-F,-S	State	Local/State/ Fed	See Note 1	In-Progress.
McGinnis Ferry Road (Sargent Road to Union Hill Road) [TIP:FN-233A ;SPLOST: R-5]	PE-L	RoW-L		CST-F,S				Local	Local/State/ Fed	See Note 1	On-Track.
Collector Road (Buford Dam Rd. to Baldrige Marina Road) AKA: Market Place Blvd: Segment 1 [TIP: FT-078A; SPLOST: R-8]	CST-L,S							Local/ State	Local/State	See Note 1	In-Progress.
SR 371 (Post Rd) - SR 9 (Atlanta Highway) to SR 20 (Kelly Mill Rd) [TIP: FT-030; SPLOST: R-9]		PE-L					RoW-F,-S; CST-F,-S	Local	Local/State/ Fed	See Note 1	On-Track.
Bethelview Road (SR 9 - SR 20) [TIP: FT-008; SPLOST: R-10]	RoW-S,F,L					CST-F,-S		Local	Local/State/ Fed	See Note 1	In-Progress.
SR 306 (Keith Bridge Road): Segment 2 - SR 400 to SR369 [TIP: FT-306B; SPLOST: R-12]	PE-S,F			RoW-F,-S			CST-F,-S	State/ Fed	State/Fed	See Note 1	In-Progress.
SR 369 (Browns Bridge Rd): Segment 1 - SR 9 (Dahlonega Hwy) to SR 306 (Keith Bridge Rd) - Includes new interchange at SR 400 [TIP: FT-062A; SPLOST: R-13]	PE-F,S	RoW-F,-S					RoW-F,-S; CST-F,-S	State/ Fed	State/Fed	See Note 1	On-Track.
Castleberry Road - (Bethelview Rd to Hutchinson Rd) [TIP: FT-038; SPLOST: R-14]	RoW-L			CST-L				Local	Local	See Note 1	In-Progress.
Chamblee Gap Road (Bethelview Road to Pavement - current end of graveled section) [ SPLOST: R-15]	PE-L	RoW-L	CST-L					Local	Local	See Note 1	On-Track.
Brookwood Road - SR141 (Peachtree Pkwy.) to McGinnis Ferry Rd. [TIP: FT-067A; SPLOST: T-17]						RoW-L; CST-L,		Local	Local	See Note 1	In-Progress.
Union Hill Road: McGinnis Ferry Rd to McFarland Rd (Segment 1) [TIP: FT-063A; SPLOST: T-18]	RoW-L			CST-L				Local	Local	See Note 1	In-Progress.
Collector Road (Ronald Reagan Boulevard) - McFarland Rd to Union Hill Rd (Segment 1) [TIP: FT-077A; SPLOST: T-19]	CST-L							Local	Local / Developer	See Note 1	In-Progress.
McFarland Road: GA 400 to McGinnis Ferry Rd (Segment 1) [TIP: FT-65A; SPLOST: T-20]				PE-L	CST-L			Local	Local	See Note 1	In-Progress.

**FORSYTH COUNTY**  
**SHORT TERM WORK PROGRAM REVISED FOR THE 2008 - 2012 PERIOD**

Description	2008	2009	2010	2011	2012	2013 - 2020	2021 - 2030	Responsibility	Funding Source(s)	Estimated Cost (\$)	Explanation of Project Status
Buford Dam Road - SR 9 (Atlanta Rd) to Sanders Road [SPLOST: T-21]	RoW-L	CST-L,S						Local	Local/State	See Note 1	In-Progress.
Pilgrim Mill Road - City Limits to Freedom Parkway [SPLOST: T-22]	PE-L					RoW-L; CST-L,S		Local	Local/State	See Note 1	In-Progress.
Union Hill Road / Mullinax Road: McFarland Road to SR 9 (Atlanta Hwy) Segment 2 [TIP: FT-063B; SPLOST: T-23]	PE-L		RoW-L	CST-L				Local	Local	See Note 1	On-Track.
Intersection Improvements [TIP: FT-307, FT-308; SPLOST: T-25]	CST-F,-S,-L	CST-L	CST-L	CST-L	CST-L	CST-L		Local/ State/ Fed	Local/State/ Fed	See Note 1	In-Progress.
Traffic Safety Improvements [SPLOST: T-]	CST-L	CST-L	CST-L	CST-L	CST-L	CST-L		Local	Local	See Note 1	In-Progress.
Pavement Widening/ Reclamation [SPLOST]	CST-L	CST-L	CST-L	CST-L	CST-L	CST-L		Local	Local	See Note 1	In-Progress.
Upgrade Gravel Roads [SPLOST: T-]	CST-L	CST-L	CST-L	CST-L	CST-L	CST-L		Local	Local	See Note 1	In-Progress.
Resurfacing [SPLOST: T-]	CST-L	CST-L	CST-L	CST-L	CST-L	CST-L		Local	Local	See Note 1	In-Progress.
Old Atlanta Road - McGinnis Ferry Rd to Sharon Road [TIP: FT-028; SPLOST: X1]	PE-L	PE-L				RoW-L	CST-L	Local	Local	See Note 1	On-Track.
Sharon Road - SR 141 (Peachtree Pkwy.) to Old Atlanta Rd [TIP: FT-027; SPLOST: X2]	PE-L	PE-L				RoW-L	CST-L	Local	Local	See Note 1	On-Track.
Kelly Mill Road - SR 371 (Post Rd) to Bethelview Rd [TIP: FT037-; SPLOST: X3]	PE-L	RoW-L					CST-L,-F	Local	Local/Fed	See Note 1	On-Track.
Ronald Reagan Boulevard- McFarland Road to Shiloh Road Segment 2 [TIP: FT-077B; SPLOST: X4]					PE-L	RoW-L; CST-L,		Local	Local	See Note 1	In-Progress.
Ronald Reagan Boulevard - Shiloh Road to Majors Road [TIP: FT-077C; SPLOST: X5]					PE-L	RoW-L; CST-L,		Local	Local	See Note 1	In-Progress.
Browns Bridge Road - SR306 to County Line [TIP: FT-062B.FT-062C; SPLOST: X6]	PE-F,S						CST-F,S RoW-F,S	State/ Fed	State*/Fed	See Note 1	In-Progress.
Metro Arterial Connector-SR 20 -(Canton Hwy)- SR369 (Hightower Rd) to (Post Rd) SR 371 [TIP: FT-061A]	PE-F,S					CST-F,S RoW-F,S		State	State/Fed	See Note 1	In-Progress.
McGinnis Ferry Road (Sargent Road to Chattahoochee River) [TIP: ;SPLOST: R-5]	CST-L,-S	CST-L,S						Local/ State	State/ Fulton Co./ Local/ Developer	See Note 1	In-Progress.
Peachtree Parkway - John's Creek Pkwy to SR9 [TIP: FT-; SPLOST: X9]	CST-F,-S	CST-F,S						State/ Fed	Local*/ State/ GRB Bond	See Note 1	In-Progress.
<b>Transportation - Bike/Ped Sidewalk</b>											

**FORSYTH COUNTY**  
**SHORT TERM WORK PROGRAM REVISED FOR THE 2008 - 2012 PERIOD**

Description	2008	2009	2010	2011	2012	2013 - 2020	2021 - 2030	Responsibility	Funding Source(s)	Estimated Cost (\$)	Explanation of Project Status
James Burgess Road - Old Atlanta Road to near Rivermist Sub-division [TIP: FT-AT-BP002; <b>SPLOST</b> ]	CST-L,F; RoW-L	CST-L,F						Local	Local/Fed	See Note 1	In-Progress.
Big Creek Greenway Extension: Segment 1	CST-L,-F							Local	Local/Fed	See Note 1	In-Progress.
Big Creek Greenway Extension: Segment 2	CST-L							Local	Local- Impact Fees/ Fed	See Note 1	In-Progress.
Big Creek Greenway Extension: Segment 3	CST-L							Local	Local- Impact Fees/ Fed	See Note 1	In-Progress.

Note 1: Estimated Total Project Cost per Major Transportation Plan and Regional Transportation Plan.

**INTRODUCTION**

Examining the historic, current and future changes of population in Forsyth County provides the opportunity to inventory and assess trends in growth and demographic characteristics. When combined with the physical opportunities and constraints for future growth found in the natural and historical resources elements, projections can then be made concerning housing, employment opportunities and community facilities needed to support the existing and future population. From these findings, the county vision and land use patterns can be designed to reflect the goals and policies established by the community. This element of the Forsyth County Comprehensive Plan inventories and analyzes past trends, present status, and projected future growth patterns of the population. Breakdowns in composition and characteristics are discussed, and implications for future development are considered.

**INVENTORY AND ASSESSMENT**

**Total Population**

Forsyth County experienced periods of both population increase and decrease during the six decades between 1920 and 1980. Prior to 1920, cotton was the main crop grown in the county, and the cotton crash of the 1920s was responsible for the 9.6 percent decrease in population which took place that decade. During the Depression of the 1930s, Forsyth County’s population was boosted by a general exodus from urban centers to rural counties due to the great reductions in urban job opportunities and the appeal of the agrarian economy. The decade of the 1940s and World War II caused a slight drain in the county’s population. Wartime relocations, defense industry job opportunities in large cities, and the rapid urbanization of metropolitan Atlanta caused a general population decrease in many rural Georgia counties.

During the 1950s, there was a gradual rise in the population, followed by greatly accelerated growth during the 1960s and 1970s. The growth factors which contributed to this increase include: improved transportation, the location of industries in the county, and the creation of Lake Lanier. During this twenty year period, Forsyth County began an urbanization process which has steadily gained momentum. Between 1970 and 1980 there was a 65.2% increase in population, and the county was ranked as one of the top nine growth counties in Georgia for the decade. The trend in housing construction shifted from vacation cottages to permanent residences countywide.

Although the demand for the natural features of Lake Lanier was an important influence fostering growth in Forsyth County during the 1980s, the expansion of Atlanta northward became the predominant growth factor. With its 1980 population total of 27,958, the density (persons per square mile) in Forsyth County was 123, which exceeded the State’s total density

of 93. This was the first time that the county density surpassed the State total in this century, emphasizing the significance of the county's progression.

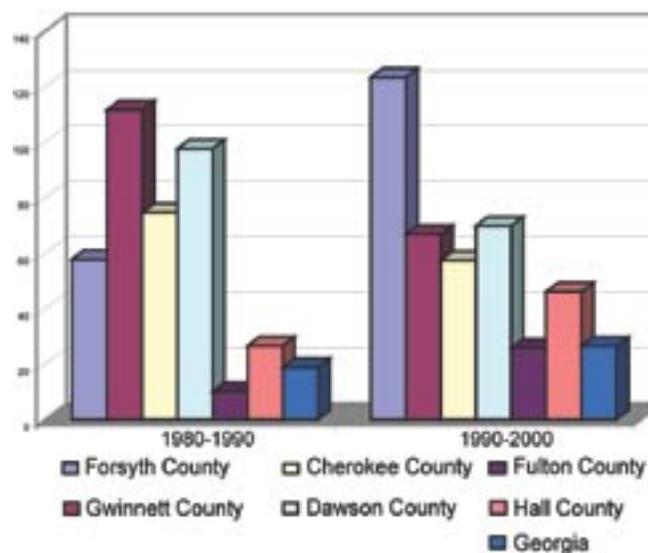
The rapid pace of growth continued to increase throughout the next twenty years. **Table 1.1** indicates that from 1980 to 1990 there was a 57.7% increase in the county's population, three times the State average. The 1990s brought about an even higher intensity of growth as accessibility provided by State Route 400 made it feasible to commute to metropolitan Atlanta from all areas in the county. It was during this decade that Forsyth surpassed the adjacent counties' increase percentages, represented in **Figure 1.1**. Forsyth County experienced a 123% change over the decade, while Gwinnett's population increased 66% and Cherokee by 57%. Despite the high numbers in growth, **Table 1.2** shows that Forsyth County continues to be lower in population than many of these other fast growing counties. In 2000, Forsyth County's population was 490,041 less than Gwinnett's. Even with Forsyth County's increase of 54,324 residents over the last decade, the county still had a population of only 98,407. Of this number, 95.7% of the county's population were living in the unincorporated parts of the county, as indicated in **Table 1.3**.

**TABLE 1.1: TOTAL POPULATION AND PERCENT CHANGE 1980 - 2000  
FORSYTH COUNTY AND GEORGIA**

	1980	1985	1980-1990	1990	1995	1990-2000	2000
Jurisdiction	Population		% Change	Population		% Change	Population
Forsyth	27,958	33,780	57.7	44,083	59,300	123.2	98,407
Georgia	5,463,105	5,962,720	18.6	6,478,216	7,323,980	26.4	8,229,820

Source: Woods and Pool Economics, Inc..

**FIGURE 1.1: GROWTH RATE COMPARISON OF FORSYTH,  
SURROUNDING COUNTIES AND GEORGIA**



The fast growth trend of the county continues into the new century. In 2001, the U.S. Census Bureau declared Forsyth County the fastest-growing county in Georgia and the second-fastest in the United States .

Population projections are shown in **Table 1.4 and 1.5**. From the year 2000 to 2025, Forsyth County is expected to add 129,412 new residents to its population, reaching a total of 227,819 residents by 2025. This continued increase is fueled by the quantity of developable land and the proximity to many of north Georgia’s assets. **Figure 1.2** illustrates the assumptions used in determining these population projections. These factors include birth and death rates, persons per household, new housing units, vacancy rates, birth rates, death rates, and the county and city population distribution.

As **Figure 1.3** indicates, the highest population densities of the county are in the south end of the county with additional buildup near the City of Cumming and along Lake Lanier.

**TABLE 1.2: TOTAL POPULATION AND CHANGE IN FORSYTH AND SURROUNDING COUNTIES 1980 to 2000**

County	1980	1990	2000	Total Change
Cherokee	51,697	90,206	141,903	90,206
Dawson	4,774	9,429	15,999	11,225
Forsyth	27,959	44,082	98,407	70,448
Fulton	589,922	648,949	816,006	226,084
Gwinnett	166,889	352,910	588,448	421,559
Hall	75,409	95,427	139,277	63,868

Source: U.S. Bureau of the Census

**TABLE 1.3: PAST POPULATION TRENDS  
1980-2000 CITY OF CUMMING AND FORSYTH COUNTY**

Jurisdiction	1980	Percent	1990	Percent	2000	Percent
City of Cumming	2,059	7.4%	2,828	6.4%	4,220	4.3%
Unincorporated County	25,899	92.6%	41,255	93.6%	94,187	95.7%
Total Forsyth County	27,958	100%	44,083	100%	98,407	100%

Source: U.S. Bureau of the Census.

**TABLE 1.4: FORSYTH COUNTY ANNUAL TOTAL POPULATION PROJECTIONS, 2001-2007**

Jurisdiction	2001	2002	2003	2004	2005	2006	2007
Forsyth County	106,096	112,627	119,158	125,689	131,569	137,449	143,329

Source: Jerry Weitz & Associates, Inc. 2002.

**TABLE 1.5: FORSYTH COUNTY TOTAL POPULATION PROJECTIONS, 2005-2025**

Jurisdiction	2005	2010	2015	2020	2025
Forsyth County	131,569	160,219	185,019	206,419	227,819

Source: Jerry Weitz & Associates, Inc. 2002.

### **Daytime Population**

The daytime population of Forsyth County is affected by its employment centers and Lake Lanier. Although a large percentage of the county's residents commute outside the county for their jobs, the county is also gaining reverse commuters. According to the 2000 census data, 21,470 workers enter Forsyth County from the surrounding areas each day. This represents half of the county's workforce. In the summer months, recreational opportunities on Lake Lanier attracts seasonal daytime visitors to the county.

**FIGURE 1.2: POPULATION PROJECTIONS METHODOLOGY**

The cohort component method of population projections, where future population is a result of natural increase (births minus deaths) plus migration, was used. The following assumptions were used in the projections:

**a) Persons per household**

Year	1980	1990	2000-2001	2002-2004	2005-2009	2010-2014	2015-2019	2020-2024
Persons Per Household	2.97	2.75	2.83	2.75	2.75	2.70	2.65	2.65

**b) New Housing Units per Year**

Year	1980-1990	1990-2000	2000-2001	2002-2004	2005-2009	2010-2014	2015-2019	2020-2024
New Units Per Year	690/year	1,863/year	2,860/year	2,500/year	2,250/year	2,000/year	1,700/year	1,700/year

**c) Vacancy Rate = 5% of all units annually**

**d) Birth Rate = Rate per 1,000 total population annually**

Year	1997-1999	2000-2001	2002-2004	2005-2009	2010-2014	2015-2019	2020-2024
Birth Rate per 1000 population	18.7%	18.0%	17.5%	17.0%	17.0%	16.5%	16.5%

Note: 1999 State of Georgia birth rate is 16.3% per 1,000

**e) Death Rate = Rate per 1,000 total population annually**

Year	1997-1999	2000-2001	2002-2004	2005-2009	2010-2014	2015-2019	2020-2024
Death Rate per 1000 population	5.3%	5.4%	6.0%	6.3%	6.3%	6.5%	6.5%

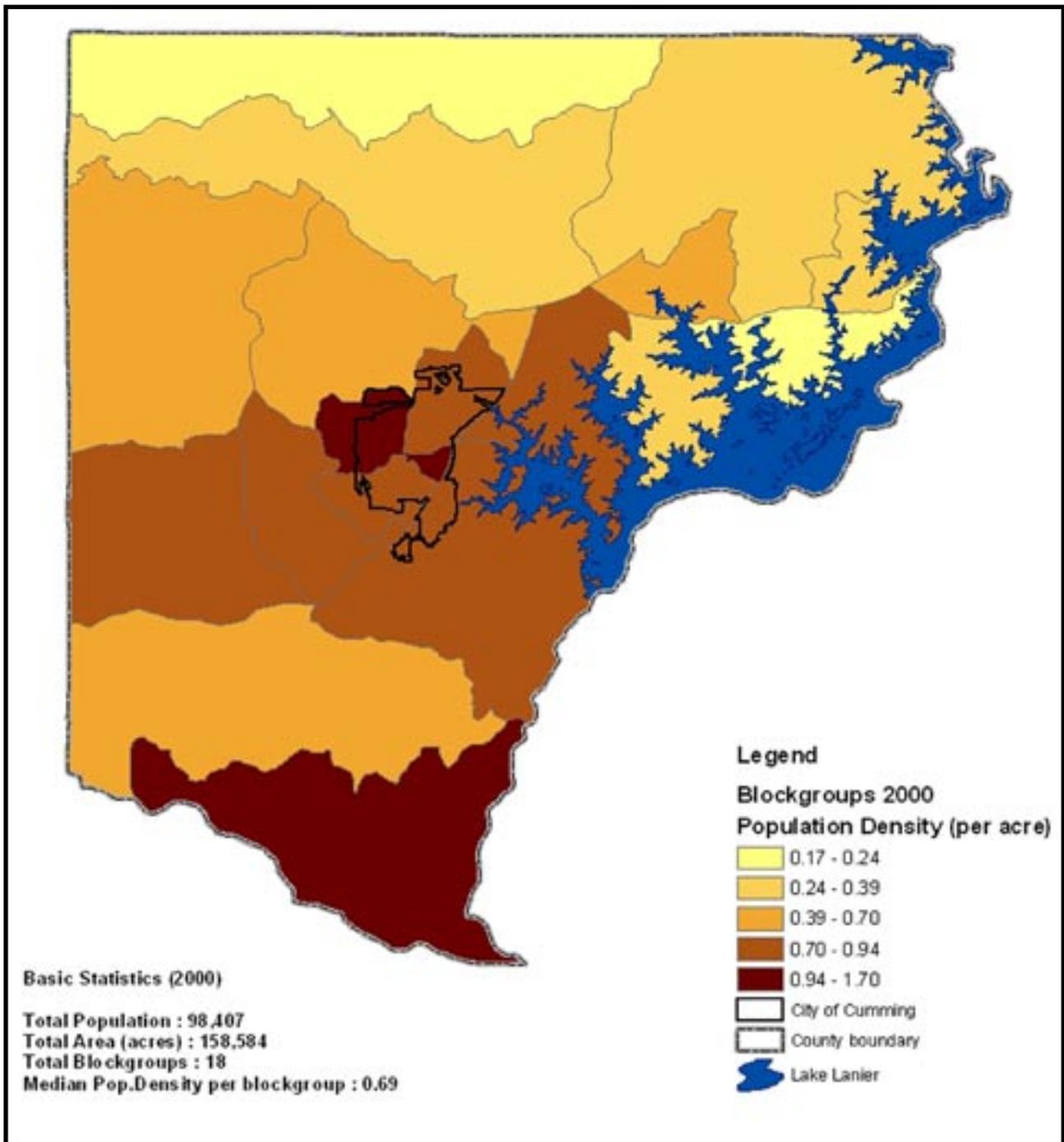
Note: 1990-1998 State of Georgia death rate is 8.0% per 1,000

**f) Forsyth County and City of Cumming Population Distribution**

Jurisdiction	1980	%	1990	%	2000	%	2002-2009	2010-2014	2015-2019	2020-2024
City of Cumming	2,059	7.4	2,828	6.4	4,220	4.3	4.0	3.5	3.5	3.5
Unincorporated County	25,899	92.6	41,255	93.6	94,187	95.7	96.0	96.5	96.5	97.0
Total Forsyth County	27,958	100	44,083	100	98,407	100	100	100	100	100

Prepared by: Jerry Weitz & Associates, Inc. 2002.

FIGURE 1.3 FORSYTH COUNTY POPULATION DENSITY BY YEAR 2000 CENSUS BLOCKGROUP



## Households

A household can be defined as a group of people, who may or may not be related, occupying a single housing unit. The number of households in Forsyth County is increasing due to net population increases and declining household size. In 1980, there were a total of 9,470 households in Forsyth County. In 2000, the number households had increased to 35,040. By the year 2025, it is projected that there will be 85,281 households in the county. **Table 1.6** lists the past and future projections for the average household size. The average household size has fallen from 2.96 persons per household in 1980, to 2.83 in 2000. Forsyth County will continue to follow the State trend of decreasing household size over the next twenty years, with an average household size of 2.65 by 2025. This is still higher than the State average of 2.63 and U.S. average of 2.58, but indicates there will be an increase in the proportion of individuals and smaller family units living in the county.

It is anticipated that the rate of growth in housing units should meet the future demands of the population. Some of the new housing stock will consist of redevelopment and infill of existing developed areas. There will also be a demand for the conversion of rural areas to suburban development.

**TABLE 1.6: FORSYTH COUNTY NUMBER OF HOUSEHOLDS AND AVERAGE HOUSEHOLD SIZE**

Year	# of Households	Household Size
1980	9,470	2.96
1985	12,421	2.71
1990	16,034	2.77
1995	21,605	2.72
2000	35,040	2.83
2005	47,460	2.75
2010	57,795	2.75
2015	67,977	2.70
2020	77,270	2.65
2025	85,281	2.65

Source: Jerry Weitz & Associates, Inc. 2002.

## Age Distribution

The age distribution figures in **Table 1.7** on the following page, indicates the age distribution in Forsyth County is changing. The largest percentage of the population was the 10 to 14 year old category in 1980 with 9.3% of the residents in that category. By 2000, the largest percentage had shifted to 35 to 39 years of age. As the general population continues to age, the percentage of 30 to 39 year olds is expected to decrease, and the 60 years and older to increase. By 2025, it is projected that the largest segment of the population will be 65 and older, as indicated in **Table 1.8**. The aging of Forsyth County will have an impact on the types of housing and community facilities needed in the county. Smaller homes designed

with low maintenance features will increase in popularity, and recreational needs will shift from active sports to more passive forms of exercise. The demand for alternative modes of transportation will also rise. Also, an increase in health-care facilities and associated services should be expected.

Despite the shift in age distribution, the number of school age children will continue to grow. In 2025, it is estimated there will be 47,088 school age children in the county, more than double the amount enrolled in 2000. This will continue the demand for additional classrooms throughout the community.

**TABLE 1.7: HISTORIC AGE DISTRIBUTION**

<b>Age Group</b>	<b>1980</b>	<b>1980 %</b>	<b>1990</b>	<b>1990 %</b>	<b>2000</b>	<b>2000 %</b>
0 to 4	2,148	7.7	3,377	7.7	9,366	9.5
5 to 9	2,499	8.9	3,129	7.1	7,977	8.1
10 to 14	2,603	9.3	2,974	6.8	6,734	6.8
15 to 19	2,493	8.9	3,132	7.1	5,232	5.3
20 to 24	2,268	8.1	3,099	7	4,171	4.2
25 to 29	2,362	8.5	3,915	8.9	6,583	6.7
30 to 34	2,412	8.6	4,262	9.7	9,940	10.1
35 to 39	2,047	7.3	3,920	8.9	11,012	11.2
40 to 44	1,705	6.1	3,578	8.1	9,002	9.1
45 to 49	1,407	5	2,947	6.7	6,958	7.1
50 to 54	1,328	4.8	2,314	5.2	6,318	6.4
55 to 59	1,208	4.3	1,892	4.3	4,850	4.9
60 to 64	1,125	4	1,623	3.7	3,324	3.4
65 +	2,353	8.5	3,921	8.8	6,940	7.1
<b>TOTAL</b>	<b>27,958</b>	100	<b>44,083</b>	100	<b>98,407</b>	100

Sources: Compiled from 1980 and 1990 data in Forsyth County Comprehensive Plan, 1994, Table 2.5. 2000 data from [www.gadata.org/information\\_services/sf3ageandsex.htm](http://www.gadata.org/information_services/sf3ageandsex.htm) and from printouts <http://factfinder.census.gov>

\*Extrapolated 75-79, 80-84 and 85+ based on U.S. Census data.

## **Racial Composition**

In 1980, there were 170 non-white residents in Forsyth County, as indicated in **Table 1.9**. By the year 2000, the non-white population had increased to 4,876, or 4.9% of the total population. The black population has shown the largest percent change of 4785.7% from 1990 to 2000. The Hispanic population (regardless of race), has increased by 762.5 percent from 1990 to 2000.

In the future, the non-white population is expected to increase at a faster pace than the white population. The Hispanic population is also expected to continue to expand. However, due to the overall increase of the total population, the percentage of these minority populations is expected to remain low. It is not anticipated that this low percentage of the population should require any special programs.

**TABLE 1.8: PROJECTED AGE DISTRIBUTION**

Age Group	2005	2005 %	2010	2010 %	2015	2015 %	2020	2020 %	2025	2025 %
0 to 4	10,634	8.1	12,353	7.7	14,166	7.7	15,710	7.6	17,365	7.6
5 to 9	10,482	8	11,970	7.5	13,432	7.3	14,847	7.2	16,345	7.2
10 to 14	9,879	7.5	11,969	7.5	13,333	7.2	14,465	7	15,728	6.9
15 to 19	7,855	6	10,432	6.5	12,314	6.7	13,751	6.7	15,015	6.6
20 to 24	6,372	4.8	8,722	5.4	10,871	5.9	12,574	6.1	14,021	6.2
25 to 29	7,546	5.7	8,881	5.5	10,465	5.7	12,117	5.9	13,670	6
30 to 34	9,854	7.5	10,284	6.4	11,022	6	12,025	5.8	13,368	5.9
35 to 39	12,652	9.6	12,748	8	12,691	6.9	12,874	6.2	13,637	6
40 to 44	13,299	10.1	14,655	9.1	14,621	7.9	14,275	6.9	14,385	6.3
45 to 49	11,252	8.6	14,146	8.8	15,164	8.2	15,139	7.3	14,990	6.6
50 to 54	9,291	7.1	12,584	7.9	14,701	7.9	15,466	7.5	15,568	6.8
55 to 59	7,347	5.6	10,061	6.3	12,669	6.8	14,333	6.9	15,104	6.6
60 to 64	5,574	4.2	7,904	4.9	10,370	5.6	12,487	6	13,930	6.1
65+	9,532	7.2	13,510	8.4	19,202	10.4	26,355	12.8	34,693	15.2
<b>TOTAL</b>	<b>131,569</b>	100	<b>160,219</b>	100	<b>185,019</b>	100	<b>206,419</b>	100	<b>227,819</b>	100

Source: Jerry Weitz & Associates, Inc. 2002.

**TABLE 1.9 : RACIAL COMPOSITION OF FORSYTH COUNTY POPULATION 1980 TO 2000**

	1980		1990			2000		
	Population	% of Total	Population	% of Total	% Change	Population	% of Total	% Change
TOTAL Population	27,959	NA	44,082	NA	NA	98,407	NA	NA
White	27,789	99.4	43,573	98.9	56.8	93,531	95.1	114.7
Black	1	0.0	14	0.03	1300.0	684	0.70	4785.7
Native American	127	0.45	98	0.22	-22.8	247	0.25	152.0
Asian or Pacific Islander	12	0.04	81	0.18	575.0	798	0.81	885.2
Other	24	0.09	317	0.72	1220.8	2,236	2.8	605.4
Two or More Races	NA	NA	NA	NA	NA	911	0.93	NA
Persons of Hispanic Origin (regardless of race)	138	0.49	635	1.4	360.1	5,477	5.6	762.5

Source: U.S. Bureau of the Census

## Educational Attainment

The educational attainment level of a population can be an indicator of the types of businesses and industries that are appropriate for a community. In the year 2000, 15,272 of Forsyth County residents over 25 years of age had reached high school graduation, while 16,950 held a bachelor's degree and 5,540 achieved a graduate or professional degree (**Table 1.10**). In comparison, **Table 1.11** and **Figure 1.4** indicates that Dawson, Cherokee and Hall had higher percentages of adults attaining high school diplomas only, and lower percentages of residents holding a bachelor's degree or higher at 18.1%, 27% and 18.7% respectively. The same applies to the State, which has a high school graduation rate of 28.7%, and a bachelor's degree or higher of 24.3%. As indicated in **Table 1.12**, the percentage of Forsyth County high school dropouts has been steadily decreasing from 7.7% in 1995, to 4.6% in 2001. The high school graduation test scores in Forsyth County have been consistently higher than the State averages. In 2001, Forsyth students were in the 74 percentile compared to the 65 percentile of the State. Forsyth County's high level of educational attainment, above average test scores and relatively low dropout rate, indicates that businesses and industries requiring a skilled workforce should be encouraged to develop in this county.

**TABLE 1.10: EDUCATIONAL ATTAINMENT OF ADULTS 25 YEARS AND OLDER IN FORSYTH COUNTY**

Category	1990	2000
TOTAL Adult Population 25 & Over	28,374	65,027
Less than 9th Grade	3,737	3,617
9th to 12th Grade (No Diploma)	5,462	5,669
High School Graduate (Includes GED)	8,697	15,272
Some College (No Degree)	4,676	9,807
Associate Degree	1,389	3,917
Bachelor's Degree	3,159	16,950
Graduate or Professional Degree	1,255	5,540

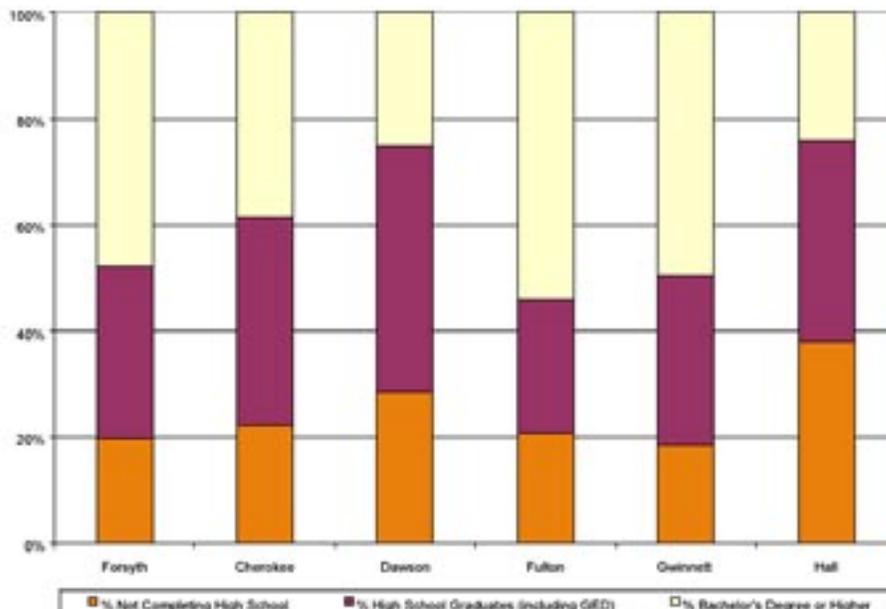
Source: U.S. Bureau of the Census

**TABLE 1.11: EDUCATIONAL ATTAINMENT LEVELS OF PERSONS 25 YEARS OR OLDER IN FORSYTH, SURROUNDING COUNTIES AND STATE, YEAR 2000**

Education	Forsyth	Cherokee	Dawson	Fulton	Gwinnett	Hall	Georgia
% Not Completing High School	14.3	15.6	20.5	16	12.7	29.5	21.4
% High School Graduates (including GED)	23.5	27.3	33.2	19.4	22	29.6	28.7
% Some College and/or Associate Degree	21.6	23.7	22.8	18.5	23.9	17.9	20.4
% Bachelor's Degree or Higher	34.6	27	18.1	41.4	34.1	18.7	24.3

Source: U.S. Bureau of the Census

**FIGURE 1.4: COMPARISON OF EDUCATIONAL ATTAINMENT LEVELS OF PERSONS 25 YEARS OR OLDER IN FORSYTH, SURROUNDING COUNTIES AND GEORGIA, 2000**



**TABLE 1.12: FORSYTH COUNTY EDUCATION STATISTICS**

Category	1995	1996	1997	1998	1999	2000	2001
H.S. Graduation Test Scores (All Components)	88%	85%	79%	79%	80%	84%	74%
H.S. Dropout Rate	7.7%	9.1%	6.2%	5.6%	5.2%	5.7%	4.6%
Grads Attending Georgia Public Colleges	31.3%	35.6%	41.9%	41.1%	41.8%	NA	NA
Grads Attending Georgia Public Technical Schools	5.3%	4.8%	7.0%	4.8%	7.2%	6.4%	NA

Source: Georgia Department of Education

### Household Income

**Table 1.13** compares the per capita income between Forsyth and the State in 1996 dollars, and the mean household income in current dollars. Both the per capita income and the mean household income of Forsyth County continue to be higher than the State.

The distribution of households by income group is compared in **Table 1.14**. In 1980, the highest percentage of households in Forsyth County, at 16.73%, earned an income of \$10,000 to \$14,999 annually. This was a greater income amount than the State's highest percentage of 14.64%, at \$5,000 to \$9,999. By 2000, the highest percentage of the households in Forsyth County, at 27.24%, earned \$100,000 or more. This far exceeded the State's highest income group of 12.74% at an annual income of \$20,000 to \$29,999. The high household income can be partially attributed to the rapid development of upscale housing subdivisions with amenity areas and golf courses. Close access to major transportation routes such as Georgia State Route 400 have also allowed skilled workers to commute to their jobs in other counties while enjoying the benefits of the county's relatively rural feel.

**TABLE 1.13: INCOME PER CAPITA AND MEAN HOUSEHOLD INCOME IN FORSYTH AND GEORGIA**

		1980	1985	1990	1995	2000
Income Per Capita (1996 \$)	Forsyth	\$15,895	\$21,177	\$21,858	\$28,043	\$31,484
	Georgia	\$15,353	\$18,512	\$20,715	\$22,287	\$25,433
Mean Household Income (current \$)	Forsyth	NA	NA	\$41,876	\$51,435	\$56,104
	Georgia	NA	NA	\$33,259	\$35,692	\$42,158

Source: U.S. Bureau of the Census

**TABLE 1.14: DISTRIBUTION OF HOUSEHOLDS BY INCOME GROUP, 1980 - 2000**

Category		1980	1990	2000
TOTAL Households	Forsyth	100.00%	100.00%	100.00%
	Georgia	100.00%	100.00%	100.00%
Income less than \$5,000	Forsyth	12.40%	4.85%	NA
	Georgia	16.20%	7.90%	NA
Income \$5,000 - \$9,999	Forsyth	14.64%	4.40%	4.32%
	Georgia	17.10%	8.87%	10.13%
Income \$10,000 - \$14,999	Forsyth	16.73%	6.58%	2.88%
	Georgia	16.28%	8.62%	5.85%
Income \$15,000 - \$19,999	Forsyth	15.84%	7.13%	3.26%
	Georgia	14.19%	8.87%	5.91%
Income \$20,000 - \$29,999	Forsyth	13.29%	15.27%	7.20%
	Georgia	11.53%	17.13%	12.74%
Income \$30,000 - \$34,999	Forsyth	8.70%	9.02%	3.89%
	Georgia	8.23%	7.90%	6.22%
Income \$35,000 - \$39,999	Forsyth	6.50%	7.59%	3.93%
	Georgia	5.53%	6.77%	5.87%
Income \$40,000 - \$49,999	Forsyth	4.17%	13.77%	8.46%
	Georgia	3.36%	11.03%	10.85%
Income \$50,000 - \$59,999	Forsyth	2.00%	10.15%	8.55%
	Georgia	2.04%	7.61%	9.24%
Income \$60,000 - \$74,999	Forsyth	1.44%	9.44%	12.70%
	Georgia	1.47%	6.85%	10.48%
Income \$75,000 - \$99,999	Forsyth	3.32%	6.61%	17.57%
	Georgia	2.57%	4.63%	10.36%
Income \$100,000 or more	Forsyth	1.02%	5.23%	27.24%
	Georgia	1.52%	3.81%	12.34%

Source: U.S. Bureau of the Census

**INTRODUCTION**

The housing element provides Forsyth County the opportunity to inventory the existing housing stock and its condition, occupancy and affordability characteristics; to assess its adequacy and suitability for serving current and future population and economic development needs; to articulate community housing goals; and to formulate an associated implementation program for the adequate provision of housing for all sectors of the population.

Housing is an important part of Forsyth County’s land use and economy. The type, location, availability, affordability, and quality of housing will determine what kinds of neighborhoods are contained in Forsyth County. Dilapidated and deteriorated housing can depress entire neighborhoods, as well as provide a location for illegal activities and create conditions for rodent and vermin infestation. On the other hand, attractive, well-designed neighborhoods can foster strong communities and are an asset to the residents of Forsyth County.

Housing can also impact economic development. Commercial development generally follows rooftops, and major employers are concerned about having an available workforce, reasonably close to the job site. Construction of new housing, as well as improvement of existing units, create jobs and foster spending for construction materials and home furnishings. While the housing industry creates positive economic activity, those housing rooftops also represent new demands for government services. New residential development can exacerbate existing traffic, pollution, and water usage problems and creates additional costs to the local government for streets, sewer lines, schools and other infrastructure.

**INVENTORY AND ASSESSMENT**

**Types of Housing Units**

Data on the types of housing units provides a measure of the diversity of the housing stock and can provide insight to future community housing needs and goals. The current and historic number of single-family, multifamily, and manufactured dwellings are listed in **Table 2.1**.

**TABLE 2.1: HISTORIC AND CURRENT HOUSING TYPES**

Year	Single-Family		Multi-Family		Manufactured		Total
	#	%	#	%	#	%	
1980	8,299	75.7	407	3.7	2,263	20.6	10,969
1990	13,320	74.5	520	2.9	4,030	22.6	17,870
2000	31,921	87.4	795	2.2	3,789	10.4	36,505

Source: U.S. Bureau of the Census

From 1980 to 2000, multifamily units have experienced a slight decline, from 3.7% to 2.2% of the total housing stock. The availability of multifamily units is an essential component of a diversified housing stock. The lack of a diversified housing stock can create challenges to the economic health of the community. One possible outcome is a housing supply that is inconsistent with the incomes of workers in the community. Forsyth County will need to continue to develop policy and procedures that will insure that all those who work in the community have a viable choice or option to live in the community.

Forsyth County has experienced a significant reduction in the number of manufactured dwelling units, as a percentage of the total housing stock. Manufactured dwelling units represented over 23% of the housing stock in 1990 and fell to 10% by the year 2000. A continued decline in the number of manufactured dwelling units, as a percentage of total dwelling units, is anticipated over the 20 year planning horizon. The continued suburbanization of Forsyth County, combined with development regulations requiring increased lot sizes for manufactured homes will be the primary cause of this shift in housing units.

### **Seasonal Units**

Beginning in the 1950s, the development around Lake Lanier consisted mainly of vacation cottages for seasonal lake users. Over the past two decades, there has been a shift in the growth to year-round housing units. Most of the cottages have also been converted into permanent residences. In 2000, the US Bureau of the Census identified a total of 828 housing units used for seasonal, recreational or occasional uses within the county. This number is too low to be a significant factor in the community.

### **Age And Condition Of Housing**

The age and condition of housing in a community can be an important indicator of housing needs and can assist in identifying housing that requires special attention to continue to provide safe and decent shelter. Declining housing conditions can be an indication of unsafe and inadequate shelter for some residents.

**Table 2.2** contains information on the age and condition of housing units in Forsyth County, the Georgia Mountains Regional Development Center's region, and the State. In 1990, 3% of Forsyth's housing stock was built prior to 1939. This same figure was 7.3% for the region and 8.0% for the State. In 2000, 1.5% of the housing stock in Forsyth County was built prior to 1939. Over this same period the region fell to 4.5% and the State fell to 5.9%. When compared to the region or the State, Forsyth County has a comparatively low number of housing units that were built prior to 1939.

The housing stock of Forsyth County is comparatively strong when examining the number of units lacking plumbing. In 1990 and 2000, the percentage of housing units in Forsyth County without plumbing was approximately half the number for the region and the State.

Based on the number of units built prior to 1939 and the percentage of units without plumbing, housing conditions in Forsyth County are steadily improving. There are no concentrated

areas of substandard housing. However, the elimination of individual cases of substandard and dilapidated housing is an obstacle. The creation of a housing authority could help to address this issue and at the same time ensure that landlords are responsibly managing their property.

**TABLE 2.2: AGE AND CONDITIONS OF HOUSING IN FORSYTH, THE REGION AND THE STATE, 1980 - 2000**

	1980			1990			2000		
	Forsyth	Region	State	Forsyth	Region	State	Forsyth	Region	State
Housing units built prior to 1939	1,013	13994	29,662	530	9800	212,294	545	8629	192,972
% of housing units built prior to 1939	NA	NA	NA	3.0%	7.3%	8.0%	1.5%	4.5%	5.9%
Housing units lacking plumbing	331	4120	35,769	102	1754	28,462	147	1450	29,540
% of housing units lacking plumbing	NA	NA	NA	0.6%	1.3%	1.1%	0.4%	0.8%	0.9%
Total housing units	NA	NA	NA	17,870	133476	2,638,418	36,505	191432	3,281,737

Source: U.S. Bureau of the Census

### Owner And Renter Occupied Units

Forsyth County must contain the right mix of housing units in order to maintain economic vitality and attract and retain residents. In addition to ownership characteristics, an analysis of vacancy rates can help identify whether or not the community should encourage or discourage the development of various types of housing.

Information on owner occupied and renter occupied housing units are displayed in **Table 2.3**. Compared to the Georgia Mountains Regional Development Center's region and the State, Forsyth County has experienced a low vacancy rate from renter occupied housing from 1990 to 2000. Since 1990, the owner to renter ratio of vacancy, for Forsyth County, has been much higher than the regional or state ratio. This information suggests Forsyth County lacks a diversified housing stock and likely has too few rental opportunities in the community. To address the lack of rental opportunities, future modifications to the development regulations should attempt to allow greater flexibility for rental units, when appropriate.

**TABLE 2.3: OWNER AND RENTER OCCUPIED UNITS, FORSYTH, REGION AND STATE**

	1980			1990			2000		
	Forsyth	Region	State	Forsyth	Region	State	Forsyth	Region	State
Owner occupied units	7,807	64,763	1,215,206	13,052	86,057	1,536,759	30,436	130,235	2,029,293
Renter occupied units	1,588	19,705	654,548	2,886	26,512	829,856	4,129	36,052	977,076
Vacancy rate - owner occupied	NA	Na	NA	4.0	2.3	2.4	2.2	2.5	2.2
Vacancy rate - renter occupied	Na	NA	NA	8.8	11.7	12.4	4.1	8.2	8.5
Owner to renter ratio of vacancy	NA	NA	NA	2.0	0.8	0.3	3.9	1.5	0.5

Source: U.S. Bureau of the Census

### Cost Of Housing

The cost of housing in a community should be compatible with the income of its residents. If affordable housing is not available in a community, many workers will be forced to live elsewhere and commute to their jobs. Conversely, if there is not an adequate supply of middle and upper-income housing, the future economic development potential of the community may be hindered.

**Table 2.4** contains information on current and historic median property values and median rent for Forsyth County, the Georgia Mountains Regional Development Center’s region, the Atlanta Regional Commission Regional Development Center’s region, and the State. Due to Forsyth’s proximity to Atlanta, comparisons between median property values and median rents between Forsyth County and the Georgia Mountains Regional Development Center’s region can be misleading. Data for the Atlanta Regional Commission (ARC) has been added to this table to provide a better comparison for the cost of housing in Forsyth County.

**TABLE 2.4: MEDIAN PROPERTY VALUE AND MEDIAN RENT FORSYTH AND GEORGIA**

	1980		1990				2000			
	Forsyth	State	Forsyth	Region	ARC	State	Forsyth	Region	ARC	State
Median Property Value	\$44,700	\$23,100	\$96,240	\$68,848	\$93,128	\$71,278	\$177,900	\$114,583	\$144,504	\$100,600
Median Rent	\$141	\$153	\$402	\$422	\$422	\$365	\$558	\$661	\$661	\$505

Source: U.S. Bureau of the Census

The continued suburbanization of Forsyth County has resulted in a significant increase in housing prices over the last 20 years. Outside of the continued expansion of Metro-Atlanta, there are no significant special circumstances that impact the cost of housing in Forsyth County. When compared to the ARC's data, the cost of housing in Forsyth County is comparable. However, continued increases in the median property values will begin to put Forsyth County outside the average price range of the ARC's region and will contribute to existing barriers that can prevent the county's workforce from residing in the community.

### Cost Burdened and Overcrowded Households

The U.S. Department of Housing and Urban Development (HUD) has determined that households should spend no more than 30% of their incomes on housing. Using definitions established by HUD, cost burden is calculated as gross housing costs, including utility costs, as a percentage of gross income. Households that pay more than 30% of their incomes on housing are considered to be cost burdened; households that pay more than 50% of their incomes are considered to be severely cost burdened. Cost burdened households will find it difficult to meet all their household's needs; severely cost burdened households may be in danger of homelessness. By considering the number and characteristics of these households, the community can more easily develop a response to the need.

An analysis of the cost of housing compared to household income can provide valuable information on the availability of housing that is affordable to the workforce. **Tables 2.5 and 2.6** provide a breakdown of cost burdened and severely cost burdened households for owner occupied and renter occupied housing units. In Forsyth County, renter occupied households are more likely to be cost burdened, or severely cost burdened, than owner occupied households. Over 78% of owner occupied households are not cost burdened and only 64% of renter occupied households fall into this same category. Specifically, within renter occupied households, 21.4% are cost burdened and 14.5% are severely cost burdened.

**Table 2.7** provides information on the relationship of cost burdened and severely cost burdened households to the housing type. From this information, it is clear that housing affordability is a major problem in multi-family housing. Specifically, 43.8% of multi-family households fall into the cost burdened or severely cost burdened classifications.

**TABLE 2.5: MONTHLY OWNER COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1999, FORSYTH COUNTY (SPECIFIED OWNER-OCCUPIED HOUSING UNITS)**

Monthly Owner Costs as a Percentage of Household Income in 1999	Specified Owner-Occupied Housing Units	% of Units
Less than 30% (not cost burdened)	20,639	78.8
30 to 49 percent (cost burdened)	3,656	14.0
50 percent or more (severely cost burdened)	1,883	7.2
Total Specified Owner-Occupied Housing Units	26,178	100.0
Median Monthly Owner Cost as a Percentage of Household Income in 1999	19.6	NA

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

Typically, units with more than one occupant per room are considered to be crowded. As **Table 2.8** illustrates, overcrowding is not an issue with owner occupied housing units, as ninety-eight percent of the housing units have one occupant or less per room. In renter occupied units, six percent of the housing units are overcrowded and three and a half percent are severely overcrowded. This indicates that there is a need for increased rental availability and affordability within Forsyth County.

**TABLE 2.6: GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1999, FORSYTH COUNTY (SPECIFIED RENTER-OCCUPIED HOUSING UNITS)**

Gross Rent as a percentage of Household Income in 1999	Specified Renter-Occupied Housing Units	% of Units
Less than 30 percent (not cost burdened)	2,247	64.1
30 to 49 Percent (cost burdened)	750	21.4
50 percent or more (severely cost burdened)	507	14.5
Total Specified Renter-Occupied Housing Units	3504	100.0
Median Gross Rent as a Percentage of Household Income in 1999	NA	23.5

Source: U.S. Census Bureau, 2000 Census, SF 3, Table H69 and H70

**TABLE 2.7: GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1999 BY HOUSING TYPE FORSYTH COUNTY**

Gross Rent as a Percentage of Household Income in 1999	One Family Detached or Attached		Multi-Family		Mobile Home	
	Units	% Burdened or Severely Burdened	Units	% Burdened or Severely Burdened	Units	% Burdened or Severely Burdened
30 percent or more (burdened or severely burdened)	597	15.1	301	43.8	359	30.1

Source: U.S. Census Bureau, 2000 Census

**TABLE 2.8: OVERCROWDED HOUSING UNITS, FORSYTH COUNTY (SPECIFIED RENTER-OCCUPIED HOUSING UNITS)**

Occupants Per Room	Owner Occupied		Renter Occupied	
	Units	%	Units	%
1.00 or Less	29,964	98.4	3,738	90.5
1.01 to 1.50	354	1.2	256	6.2
1.51 or more	146	0.4	145	3.5

Source: U.S. Census Bureau, 2000 Census

## Housing And Community Characteristics

Certain aspects of the population and economy can have a direct impact on current and future housing needs. Information on characteristics of the population that relate to housing needs are included throughout the Comprehensive Plan. Specific areas include age; income; household size; average wages of jobs within the jurisdiction; and data on commuting patterns of the resident and nonresident workforce. Additionally, specific groups with special housing needs include elderly residents; the homeless; victims of domestic violence; migrant workers; persons with disabilities; persons with HIV/AIDS; and those recovering from substance abuse. These special housing needs are provided through a variety of groups. Existing housing for these groups is appropriate to the current and future needs and desires of the community.

## Future Housing Needs

Future housing demand to satisfy projected population growth is a critical component of the comprehensive plan. Housing development is typically market driven, but the market may not be providing the right types of housing for various sectors of the population (such as in-commuting workers) or the market may be straining the local government revenue stream by providing too much of a single type of housing.

**Table 2.9** contains the historic and projected number of dwelling units from 1990 to 2025. Based on projections in the population and economic development elements, Forsyth County will have to establish policy and procedures to ensure additional dwelling units include a greater level of diversity. The current housing stock lacks affordable housing units as well as renter occupied units.

Forsyth County's land use patterns, zoning, subdivision ordinances, and infrastructure result in a challenging environment for the development of affordable, renter occupied housing units. Current improvements to the water and sewer system will provide additional opportunities to develop outside of the traditional large lot, single-family housing product. While this will allow a greater number of opportunities for affordable rental units, the county must be cautious of future development that would be poorly served by other infrastructure or make inefficient use of county infrastructure.

As the county's population ages, there will be an increased demand for housing that accommodates the associated change in lifestyle. One story dwellings with minimal outdoor maintenance requirements will likely become more desirable. Neighborhoods that provide close access to everyday goods and services will offer more opportunities to older residents who are no longer comfortable driving in traffic.

**TABLE 2.9: FORSYTH COUNTY PROJECTED DWELLING UNITS TO 2025**

Year	Dwelling Units
1990	17,869
2000	36,505
2005	49,957
2010	60,837
2015	71,554
2020	81,336
2025	89,769

Source: Jerry Weitz & Associates, Inc. 2002.

## COMMUNITY GOALS

- Encourage residential development in locations that are accessible to services, employment, and existing infrastructure.
- Preserve the character of residential areas from encroaching nonresidential development.
- Examine the feasibility of a code enforcement program aimed at reducing dilapidated and substandard property.
- Promote residential development that fosters a sense of community and pedestrian mobility.
- Design quality and long-term value into residential development as a means of maintaining high standards, quality image, and property values.
- Achieve a balanced mix of dwelling types, sizes, and prices in order to meet the diverse needs of the community's workforce and support desired commercial and industrial growth.
- Preserve existing neighborhoods as a source of affordable housing.
- Take advantage of existing state and federal housing programs that address the identified housing needs and goals of the community.
- Consider modifying the development regulations to encourage mixed-income and mixed-use neighborhoods.
- Encourage the creation of housing within walking distance to employment and commercial centers.
- Consider developing policy that would encourage developers of large non-residential projects to evaluate the need for affordable housing generated by persons to be employed in the proposed development. Developers of large non-residential projects that are determined to create a significant need for affordable housing not currently available within the community should be encouraged to supply moderate income housing.
- Consider amending the UDC to establish a voluntary, incentive-based "inclusionary" housing program where developers of new residential projects are encouraged to set aside a certain percent of the total units in the development for moderate income residents.

Chapter Ten, the Implementation Program, provides the overall strategy for the comprehensive plan implementation. The policy recommendations listed above are merged and coordinated with the policies of the other elements to form the implementation program. The associated Short-Term Work Program designates the actions the county will take in the next five years to achieve these goals. The list is not all-inclusive. There are some actions that may not be addressed due to time, budget and administrative constraints. These items will be included as part of the work program at some point over the twenty-year planning period.

**INTRODUCTION**

This element provides the opportunity to inventory and assess Forsyth County’s economic base, labor force characteristics, and local economic development opportunities and resources; to determine economic needs and goals; and to merge this information with data collected in other elements to develop a strategy for the economic well-being of the community.

**INVENTORY**

**Economic Base**

Forsyth County’s economic base refers to the industries or economic sectors that serve the community as well as those outside of the community. The main theme of economic base theory is that the economic growth of an area is dependent on outside demand. An area’s growth depends on its ability to export goods and services outside of its territorial boundaries. The economic base, or basic sector, is made up of the export industries of the community and the nonbasic, or local service sector, is made up of those industries that service the community’s residents and workers.

The economic base includes items such as employment and earnings rates, economic sectors, wage levels, unique local economic activities, and sources of income. Using this data, it is possible to assess the viability of the local economy and the adequacy of the economic development tools and programs in use.

**Employment and Earnings**

The total employment in each economic sector in Forsyth County has been identified from 1980 to the present and projected to the year 2025 in **Table 3.1**. Data for Forsyth County is compared with data for the State of Georgia in **Table 3.2**. The total number of persons employed in Forsyth County during 1980 was 7,815. By 2000, this number had jumped to 42,942. By 2025, it is expected to increase to 83,167.

Employment and earnings figures help to identify growing and declining job markets, as well as in assessing the types of wages being paid in those sectors. It is important to identify trends in these areas so that local economic developers can strive for a healthy, balanced economy and provide employment opportunities that pay well. Some highlights within Forsyth County include:

- Employment within the farming sector has experienced a steady decrease over the last twenty years. In 1980, the farming sector represented 13.59% of employment in Forsyth County. By 2000, employment within the farming sector had fallen to 1.45%. It is

**TABLE 3.1: EMPLOYMENT BY SECTOR IN FORSYTH COUNTY**

EMPLOYMENT	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025
Total	7,815	12,848	18,094	27,500	42,942	51,492	60,053	68,413	76,234	83,167
Farms	1,062	884	806	666	623	646	643	630	613	596
Agricultural Services, Other	86	307	473	751	1,088	1,276	1,480	1,676	1,847	1,978
Mining	43	71	71	80	134	140	144	148	152	156
Construction	737	1,565	2,274	3,759	6,293	7,628	8,927	10,149	11,247	12,182
Manufacturing	1,565	2,642	3,666	5,186	7,338	8,312	9,199	9,921	10,435	10,714
Transportation, Communication, Utilities	417	587	747	722	1,159	1,433	1,634	1,792	1,905	1,968
Wholesale Trade	167	306	1,069	2,382	4,040	5,150	6,300	7,483	8,647	9,740
Retail Trade	1,073	2,226	2,819	4,546	6,151	7,217	8,308	9,341	10,268	11,048
Finance, Insurance, & Real Estate	615	876	1,028	1,472	2,360	2,719	3,019	3,262	3,437	3,535
Services	878	2,065	3,342	5,682	10,034	12,380	15,088	18,088	21,269	24,491
Federal Civilian Government	45	69	95	115	156	186	208	225	237	241
Federal Military Government	116	166	197	257	366	372	376	379	381	382
State & Local Government	1,011	1,084	1,507	1,882	3,200	4,033	4,727	5,319	5,796	6,136

Source: Woods & Pool Economics, Inc.

anticipated that the steady suburbanization of Forsyth County will result in a continued decline in this sector.

- Construction employment grew from 1980 to 2000. Total sector employment in 2000 for the construction sector was 6,293 people. Construction employment is expected to remain constant as a percentage of employment.
- The percentage of manufacturing employment declined through the 1980's and 1990's and is projected to continue to decline in Forsyth County. In 2000, 17.09% of the people were employed in the manufacturing sector.
- The wholesale trade sector has grown overall, employing 4,040 people in 2000. By 2025, the number of people employed is projected to be 9,740.
- Retail is a significant employer in Forsyth County. In 2000, retail employed approximately 6,151 people. This sector is expected to remain constant averaging 13.76 percent of total employment.

**TABLE 3.2: PERCENT EMPLOYMENT BY SECTOR FORSYTH AND GEORGIA (in %)**

Category		1980	1985	1990	1995	2000	2005	2010	2015	2020	2025
Farm	Forsyth	13.59	6.88	4.45	2.42	1.45	1.25	1.07	0.92	0.80	0.72
	Georgia	3.51	2.55	2.01	1.63	1.39	1.24	1.11	1.00	0.90	0.82
Agricultural Services, Other	Forsyth	1.10	2.39	2.61	2.73	2.53	2.48	2.46	2.45	2.42	2.38
	Georgia	0.60	0.76	0.85	1.06	1.13	1.15	1.16	1.17	1.17	1.16
Mining	Forsyth	0.55	0.55	0.39	0.29	0.31	0.27	0.24	0.22	0.20	0.19
	Georgia	0.32	0.32	0.29	0.22	0.20	0.18	0.17	0.17	0.16	0.15
Construction	Forsyth	9.43	12.18	12.57	13.67	14.65	14.81	14.87	14.83	14.75	14.65
	Georgia	5.07	6.11	5.75	5.58	6.10	6.05	5.94	5.80	5.66	5.52
Manufacturing	Forsyth	20.03	20.56	20.26	18.86	17.09	16.14	15.32	14.50	13.69	12.88
	Georgia	19.25	17.53	15.51	14.27	12.63	12.07	11.56	11.03	10.50	9.97
Trans, Comm, & Public Utilities	Forsyth	5.34	4.57	4.13	2.63	2.70	2.78	2.72	2.62	2.50	2.37
	Georgia	5.55	5.51	5.86	5.72	6.10	6.17	6.19	6.16	6.09	5.97
Wholesale Trade	Forsyth	2.14	2.38	5.91	8.66	9.41	10.00	10.49	10.94	11.34	11.71
	Georgia	6.34	6.65	6.18	5.73	5.69	5.74	5.73	5.71	5.69	5.66
Retail Trade	Forsyth	13.73	17.33	15.58	16.53	14.32	14.02	13.83	13.65	13.47	13.28
	Georgia	14.84	16.13	16.44	17.14	16.80	17.08	17.32	17.51	17.65	17.76
Finance, Insurance, & Real Estate	Forsyth	7.87	6.82	5.68	5.35	5.50	5.28	5.03	4.77	4.51	4.25
	Georgia	7.28	6.98	6.64	6.36	7.12	7.05	6.98	6.91	6.83	6.76
Services	Forsyth	11.23	16.07	18.47	20.66	23.37	24.04	25.12	26.44	27.90	29.45
	Georgia	18.30	20.61	23.75	26.61	28.63	29.27	30.10	31.07	32.16	33.35
Federal Civilian Government	Forsyth	0.58	0.54	0.53	0.42	0.36	0.36	0.35	0.33	0.31	0.29
	Georgia	3.08	2.87	2.79	2.33	1.90	1.76	1.63	1.53	1.43	1.35
Federal Military Government	Forsyth	1.48	1.29	1.09	0.93	0.85	0.72	0.63	0.55	0.50	0.46
	Georgia	3.36	3.05	2.46	2.24	1.93	1.82	1.71	1.61	1.51	1.42
State & Local Government	Forsyth	12.94	8.44	8.33	6.84	7.45	7.83	7.87	7.77	7.60	7.38
	Georgia	12.51	10.92	11.46	11.11	10.39	10.44	10.40	10.33	10.22	10.10

Source: Woods & Pool Economics, Inc.

- The service sector is currently the largest employment sector in the County providing 10,034 people employed in 2000. It is estimated that in 2025, the sector will continue to be the largest employer with approximately 24,491 workers.

The total earning in each sector in Forsyth County has been identified from 1980 to the present and projected to the year 2025 in **Table 3.3**. The percentage of earnings from each sector is identified and compared with the State in **Table 3.4**. Earnings of employees are the sum of wages and salaries, other labor income and proprietor’s income; they also include personal contributions for social insurance. Earnings are not a measure of company profits.

Over forty percent of earnings in Forsyth County are provided by manufacturing and service

jobs. Another 17.5% of earnings come from construction employment. By 2025, earnings within the service sector are projected to represent 28.10% of total earnings within the County. Manufacturing is projected to be the second largest sector with 16.74% of total earnings.

**TABLE 3.3: EARNINGS BY SECTOR IN FORSYTH COUNTY**

<b>EARNINGS (in millions of dollars)</b>	<b>1980</b>	<b>1985</b>	<b>1990</b>	<b>1995</b>	<b>2000</b>	<b>2005</b>	<b>2010</b>	<b>2015</b>	<b>2020</b>	<b>2025</b>
Total	140.8	264.4	400.8	718.2	1,319.7	1,673.7	2,053.0	2,452.6	2,859.9	3,259.6
Farms	5.3	19.0	22.5	19.8	18.7	21.6	24.0	26.0	28.1	30.1
Agricultural Services, Other	1.1	4.6	7.0	12.2	18.8	23.4	28.7	34.2	39.6	44.5
Mining	1.5	2.1	2.1	3.2	5.5	5.8	6.0	6.2	6.5	6.7
Construction	18.4	39.0	54.3	118.2	232.0	291.2	351.7	411.9	470.0	523.8
Manufacturing	33.5	64.8	98.2	175.6	274.6	333.2	393.3	451.0	502.8	545.7
Transportation, Communication, Utilities	10.6	16.3	21.3	19.2	38.5	50.7	61.2	70.9	79.2	85.8
Wholesale Trade	4.4	6.6	36.4	111.2	196.0	256.7	322.2	392.2	464.2	535.1
Retail Trade	20.0	39.3	43.7	66.4	107.4	129.2	152.5	175.7	197.8	217.9
Finance, Insurance, & Real Estate	5.3	8.7	12.4	31.7	44.0	55.2	66.3	77.0	86.8	95.0
Services	19.6	34.0	57.2	99.2	267.0	355.6	465.1	596.4	747.8	916.1
Federal Civilian Government	1.9	3.1	3.8	5.1	7.7	9.5	11.0	12.4	13.5	14.2
Federal Military Government	0.8	1.9	2.2	2.9	4.7	5.0	5.3	5.6	5.8	6.1
State & Local Government	18.2	24.9	39.7	53.6	104.8	136.7	165.9	193.3	218.0	238.7

Source: Woods & Pool Economics, Inc.

**TABLE 3.4: PERCENT EARNINGS FORSYTH AND GEORGIA**

Category		1980	1985	1990	1995	2000	2005	2010	2015	2020	2025
Farm	Forsyth	3.74	7.20	5.61	2.75	1.42	1.29	1.17	1.06	0.98	0.92
	Georgia	0.16	1.27	1.36	1.40	0.98	0.93	0.89	0.85	0.82	0.79
Agricultural Services, Other	Forsyth	0.81	1.73	1.75	1.69	1.43	1.40	1.40	1.39	1.38	1.36
	Georgia	0.37	0.41	0.46	0.53	0.59	0.60	0.61	0.62	0.62	0.62
Mining	Forsyth	1.10	0.80	0.53	0.44	0.42	0.35	0.29	0.25	0.23	0.21
	Georgia	0.65	0.48	0.36	0.29	0.27	0.25	0.22	0.21	0.19	0.18
Construction	Forsyth	13.06	14.76	13.56	16.45	17.58	17.40	17.13	16.80	16.43	16.07
	Georgia	5.66	6.57	5.82	5.39	6.00	5.86	5.67	5.46	5.26	5.06
Manufacturing	Forsyth	23.82	24.51	24.49	24.44	20.81	19.91	19.16	18.39	17.58	16.74
	Georgia	22.54	20.03	17.51	16.84	14.86	14.45	14.05	13.59	13.08	12.53
Trans, Comm, & Public Utilities	Forsyth	7.56	6.15	5.30	2.68	2.92	3.03	2.98	2.89	2.77	2.63
	Georgia	9.33	8.85	8.75	9.43	9.89	9.99	10.01	9.96	9.84	9.63
Wholesale Trade	Forsyth	3.09	2.50	9.08	15.48	14.85	15.33	15.69	15.99	16.23	16.42
	Georgia	8.87	9.04	8.86	8.17	8.44	8.36	8.21	8.05	7.88	7.71
Retail Trade	Forsyth	14.25	14.85	10.90	9.25	8.14	7.72	7.43	7.16	6.92	6.68
	Georgia	10.33	10.64	9.17	9.08	8.99	8.97	8.93	8.87	8.80	8.71
Finance, Insurance, & Real Estate	Forsyth	3.76	3.29	3.09	4.42	3.33	3.30	3.23	3.14	3.03	2.91
	Georgia	5.44	5.59	6.43	6.86	7.57	7.66	7.73	7.78	7.81	7.82
Services	Forsyth	13.89	12.88	14.27	13.82	20.23	21.24	22.66	24.32	26.15	28.10
	Georgia	15.63	17.36	21.95	24.33	26.77	27.78	29.02	30.44	32.02	33.73
Federal Civilian Government	Forsyth	1.38	1.18	0.95	0.71	0.58	0.57	0.54	0.50	0.47	0.44
	Georgia	5.64	5.11	4.66	4.17	3.39	3.11	2.87	2.67	2.49	2.33
Federal Military Government	Forsyth	0.58	0.74	0.54	0.40	0.36	0.30	0.26	0.23	0.20	0.19
	Georgia	3.72	3.68	2.69	2.49	2.06	1.94	1.83	1.72	1.62	1.53
State & Local Government	Forsyth	12.96	9.43	9.92	7.46	7.94	8.17	8.08	7.88	7.62	7.32
	Georgia	11.67	10.97	11.97	11.01	10.18	10.10	9.95	9.78	9.58	9.37

Source: Woods & Pool Economics, Inc.

## Wages

Data on average weekly wages for employment within Forsyth County helps direct community economic development and labor force development goals. Data on wages by employment sector can provide insight into what segments of the employment base are providing the most economic benefit to workers in the community.

**Table 3.5** shows the average weekly wages for Forsyth County and Georgia from 1989 to 1999. In Forsyth County, in 1999, the highest paying sector was wholesale paying on average \$914 per week; the lowest was retail at \$325. These sectors also represented the highest and lowest paying sectors in Georgia, at \$932 and \$335 per week.

**TABLE 3.5: FORSYTH AVERAGE WEEKLY WAGES (in dollars)**

Category	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
All Industries	347	356	389	414	433	457	487	508	524	562	600
Agriculture, Forestry, Fishing	NA	NA	295	275	315	319	340	388	414	452	455
Mining	NA	NA	NA	NA	550	570	685	767	812	NA	NA
Construction	NA	405	415	449	464	501	515	543	575	615	632
Manufacturing	NA	382	426	451	482	497	519	573	569	629	664
Transportation, Comm, Utilities	NA	410	432	473	470	488	502	549	629	654	661
Wholesale	NA	537	580	641	667	761	825	830	800	866	914
Retail	NA	230	244	252	255	265	274	283	297	310	325
Financial, Insurance, Real Estate	NA	382	424	430	476	505	496	524	584	680	695
Services	NA	305	343	384	404	422	487	456	484	513	583
Federal Government	NA										
State Govgovernment	NA	417	NA	NA	NA	NA	NA	555	557	577	584
Local Government	NA	NA	NA	NA	NA	NA	449	478	NA	NA	NA

Source: U.S. Bureau of Labor Statistics

## Income

Personal income can come from five different sources: wages and salaries; “other labor”; proprietor’s income; dividends, interest, and rent income; and transfer payments. **Table 3.6** indicates the level of income earned in Forsyth County and Georgia for each of these sources and **Table 3.7** compares the percentages. The figures are income earned and received in the county and Georgia, including income earned by non-residents. Therefore, a “residence adjustment” has been made to show the net flow of personal income in and out of Forsyth County and Georgia. A positive sign means there is a net flow of personal income into Forsyth County and Georgia, a negative sign represents a net out flow.

Personal income in Forsyth County and Georgia is growing. In 2000, total personal income in Forsyth County and Georgia was \$3,142,920,000 and \$209,309,000,000, respectively. By 2025, total personal income in Forsyth County and Georgia is projected to be \$7,669,660,000 and \$373,728,000,000, respectively.

**TABLE 3.6: LEVEL OF INCOME EARNED (IN MILLIONS), FORSYTH COUNTY AND GEORGIA**

Category		1980	1985	1990	1995	2000
Total (in 1996 \$)	Forsyth	\$447.5	\$715.4	\$978.4	\$1,663.0	\$3,142.9
	Georgia	\$84,202.1	\$110,382.0	\$134,782.0	\$163,230.0	\$209,309.0
Wages & Salaries	Forsyth	\$91.6	\$168.0	\$279.5	\$525.2	\$1,005.5
	Georgia	\$53,972.9	\$68,598.8	\$81,355.6	\$96,422.8	\$128,049.0
Other Labor Income	Forsyth	\$10.4	\$20.9	\$37.0	\$65.8	\$93.2
	Georgia	\$5,484.9	\$9,626.2	\$11,702.3	\$14,092.0	\$14,308.0
Proprietors Income	Forsyth	\$38.8	\$75.6	\$84.2	\$127.2	\$221.0
	Georgia	\$5,484.9	\$7,694.7	\$9,584.3	\$12,998.9	\$18,105.4
Dividends, Interest, & Rent	Forsyth	\$50.5	\$93.0	\$157.2	\$282.0	\$478.5
	Georgia	\$10,987.0	\$17,428.3	\$23,366.9	\$26,625.0	\$35,169.0
Transfer Payments to Persons	Forsyth	\$35.1	\$47.0	\$70.5	\$112.9	\$167.7
	Georgia	\$9,867.4	\$11,841.3	\$14,749.8	\$20,606.7	\$23,300.9
Less: Social Insurance Contributions	Forsyth	\$6.2	\$13.9	\$23.4	\$45.0	\$81.7
	Georgia	\$9,978.2	\$4,527.9	\$5,839.7	\$7,270.3	\$9,398.0
Residence Adjustment	Forsyth	(\$227.2)	(\$324.7)	(\$373.4)	(\$594.9)	(\$1,258.7)
	Georgia	(\$211.2)	(\$279.8)	(\$136.8)	(\$245.3)	(\$224,740.0)

Category		2005	2010	2015	2020	2025
Total (in 1996 \$)	Forsyth	\$3,955.7	\$4,825.8	\$5,747.7	\$6,703.3	\$7,669.7
	Georgia	\$236,962.0	\$266,921.0	\$299,617.0	\$335,164.0	\$373,728.0
Wages & Salaries	Forsyth	\$1,279.4	\$1,573.4	\$1,884.4	\$2,203.0	\$2,517.6
	Georgia	\$144,760.0	\$162,812.0	\$182,588.0	\$204,172.0	\$227,684.0
Other Labor Income	Forsyth	\$117.0	\$142.0	\$167.8	\$193.5	\$218.2
	Georgia	\$15,909.5	\$17,605.1	\$19,429.5	\$21,384.6	\$23,476.2
Proprietors Income	Forsyth	\$277.3	\$337.7	\$400.5	\$463.4	\$523.8
	Georgia	\$20,196.6	\$22,501.7	\$25,001.5	\$27,696.8	\$30,597.4
Dividends, Interest, & Rent	Forsyth	\$607.0	\$747.9	\$901.7	\$1,068.5	\$1,248.3
	Georgia	\$39,713.0	\$44,582.2	\$49,772.6	\$55,274.6	\$61,073.9
Transfer Payments to Persons	Forsyth	\$217.0	\$274.0	\$340.3	\$417.4	\$507.3
	Georgia	\$26,662.0	\$30,514.5	\$34,921.9	\$39,972.8	\$45,770.2
Less: Social Insurance Contributions	Forsyth	\$108.0	\$138.2	\$171.3	\$206.4	\$241.8
	Georgia	\$11,070.6	\$12,973.8	\$15,086.6	\$17,406.5	\$19,929.4
Residence Adjustment	Forsyth	(\$1,566.0)	(\$1,889.0)	(\$2,224.4)	(\$2,563.8)	(\$2,896.4)
	Georgia	(\$791.4)	(\$1,879.2)	(\$2,989.8)	(\$4,070.2)	(\$5,055.3)

Source: Woods & Pool Economics, Inc.

**TABLE 3.7 PERCENTAGE OF INCOME EARNED, FORSYTH COUNTY AND GEORGIA**

Category		1980	1985	1990	1995	2000	2005	2010	2015	2020	2025
Total % (in 1996 \$)	Forsyth	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	Georgia	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Wages & Salaries	Forsyth	20.47	23.48	28.57	31.58	31.99	32.34	32.60	32.78	32.87	32.83
	Georgia	64.10	62.15	60.36	59.07	61.18	61.09	61.00	60.94	60.92	60.92
Other Labor Income	Forsyth	2.32	2.92	3.79	3.95	2.97	2.96	2.94	2.92	2.89	2.84
	Georgia	8.41	8.72	8.68	8.63	6.84	6.71	6.60	6.48	6.38	6.28
Proprietors Income	Forsyth	8.68	10.57	8.61	7.65	7.03	7.01	7.00	6.97	6.91	6.83
	Georgia	6.51	6.97	7.11	7.96	8.65	8.52	8.43	8.34	8.26	8.19
Dividends, Interest, & Rent	Forsyth	11.29	13.01	16.06	16.96	15.22	15.34	15.50	15.69	15.94	16.28
	Georgia	13.05	15.79	17.34	16.31	16.80	16.76	16.70	16.61	16.49	16.34
Transfer Payments to Persons	Forsyth	7.85	6.58	7.20	6.79	5.34	5.48	5.68	5.92	6.23	6.61
	Georgia	11.72	10.73	10.94	12.62	11.13	11.25	11.43	11.66	11.93	12.25
Less: Social Insurance Contributions	Forsyth	1.39	1.94	2.39	2.71	2.60	2.73	2.86	2.98	3.08	3.15
	Georgia	3.54	4.10	4.33	4.45	4.49	4.67	4.86	5.04	5.19	5.33
Residence Adjustment	Forsyth	50.78	45.39	38.16	35.77	40.05	39.59	39.14	38.70	38.25	37.76
	Georgia	-0.25	-0.25	-0.10	-0.15	-0.11	0.33	0.70	1.00	1.21	1.35

Source: Woods & Pool Economics, Inc.

From 1980 through 2000, Georgia experienced a net outflow of personal income. Over the course of the study period, Forsyth County has experienced a net inflow ranging from a high of 50.78% in 1980, to a projected low of 37.76% in 2025. This decline is representative of the growing employment base within Forsyth County.

### Major Economic Activity

Recent and planned major economic development activities in Forsyth County have helped to diversify the economy and strengthen existing sectors. The most recent example of this is New York Life's acquisition of property in South Forsyth. On May 5, 2003, the New York Life Insurance Company completed its acquisition of a property at 5965 Cabot Parkway in south Forsyth County for a data center. New York Life plans to employ approximately 100 people initially, including a number of relocated employees, in the 95,000 square foot facility and will begin expanding that facility to meet the company's needs. Over the next few years, additional hires will bring the total number of employees to more than 140 individuals. The company plans to fill most of the jobs locally.

Continued efforts of the Chamber of Commerce, Development Authority, and Board of Commissioners will ensure that Forsyth County will be successful in attracting new industries. A highly skilled work force, low taxes, and an attractive location are resources to be utilized in promoting Forsyth County.

### Unique Economic Activity

As the previous analysis indicates, the economy of Forsyth County plays a unique role in Metro-Atlanta. The continued development of the GA 400 corridor will remain a dominant factor in the local economy. The County’s highly skilled labor force will be a major asset as Forsyth County continues to shift from a bedroom community to a source of employment. According to the 2002 Georgia County Guide, 34.6% of residents in Forsyth County have a bachelor’s degree or higher.

### Labor Force

Labor force data is used in assessing whether the jobs available in Forsyth County are appropriate for residents in terms of skills, education, commuting patterns and wages.

### Occupation

**Table 3.8** contains current and historic data on employment by occupation for Forsyth County, the State, and the United States. From 1990 to 2000, Forsyth County has experienced a significant increase in employment for the Executive, Administrative and Managerial sector. This is the largest sector within Forsyth County, with 22.51% of the workforce. In Georgia and the United States, the Executive, Administrative and Managerial sector represents 14.03% and 13.45%, respectively.

Within Forsyth County, the Precision Production, Craft, and Repair sector experienced the largest decline from 1990 to 2000. This sector decreased 10.78% in Forsyth County, while

**TABLE 3.8: EMPLOYMENT BY OCCUPATION IN FORSYTH, GEORGIA AND THE US (IN %)**

Category	1990			2000		
	Forsyth	Georgia	US	Forsyth	Georgia	US
Executive, Administrative and Managerial (not Farm)	13.75%	12.26%	12.32%	22.51%	14.03%	13.45%
Professional and Technical Specialty	9.34%	12.39%	14.11%	18.60%	18.68%	20.20%
Technicians & Related Support	3.10%	3.58%	3.68%	NA	NA	NA
Sales	13.04%	12.28%	11.79%	14.81%	11.64%	11.25%
Clerical and Administrative Support	14.68%	16.00%	16.26%	14.25%	15.14%	15.44%
Private Household Services	0.22%	0.51%	0.45%	NA	NA	NA
Protective Services	1.16%	1.70%	1.72%	NA	NA	NA
Service Occupations (not Protective & Household)	7.23%	9.77%	11.04%	9.76%	11.57%	12.01%
Farming, Fishing and Forestry	3.70%	2.20%	2.46%	0.48%	0.64%	0.73%
Precision Production, Craft, and Repair	16.05%	11.86%	11.33%	5.27%	9.02%	8.49%
Machine Operators, Assemblers & Inspectors	6.98%	8.50%	6.83%	10.96%	10.83%	9.45%
Transportation & Material Moving	5.97%	4.60%	4.08%	3.82%	6.63%	6.14%
Handlers, Equipment Cleaners, helpers & Laborers	4.78%	4.34%	3.94%	NA	NA	NA

Source: U.S. Bureau of the Census

Georgia and the United States both experienced a 2.84% decline in the Precision Production, Craft, and Repair sector.

### Labor Force Participation

**Table 3.9** shows labor force participation for Forsyth County, the State, and the United States. Employment status identifies the numbers of men and women employed in the military and civilian labor forces. Reflective of the rapid population growth, Forsyth County has not experienced a decline in any category.

**TABLE 3.9 LABOR FORCE PARTICIPATION**

Category	1990			2000		
	Forsyth	Georgia	US	Forsyth	Georgia	US
TOTAL Males and Females	33,991	4,939,774	191,293,337	73,145	6,250,687	217,168,077
In Labor Force	24,226	3,353,372	124,882,409	52,904	4,129,666	138,820,935
Civilian Labor Force	24,218	3,280,314	123,176,636	52,875	4,062,808	137,668,798
Civilian Employed	23,262	3,092,374	115,431,436	51,779	3,839,756	129,721,512
Civilian Unemployed	956	187,940	7,745,200	1,096	223,052	7,947,286
In Armed Forces	8	73,058	1,705,773	29	66,858	1,152,137
Not in Labor Force	9,765	1,586,402	66,410,928	20,241	2,121,021	78,347,142
TOTAL Males	16,883	2,357,580	91,866,829	36,923	3,032,442	104,982,282
Male In Labor Force	13,780	1,807,053	68,417,853	30,553	2,217,015	74,273,203
Male Civilian Labor Force	13,772	1,741,609	66,897,041	30,524	2,159,175	73,285,305
Male Civilian Employed	13,369	1,652,016	62,639,048	30,013	2,051,523	69,091,443
Male Civilian Unemployed	403	89,593	4,257,993	511	107,652	4,193,862
Male In Armed Forces	8	65,444	1,520,812	29	57,840	987,898
Male Not in Labor Force	3,103	550,527	23,448,976	6,370	815,427	30,709,079
TOTAL Females	17,108	2,582,194	99,426,508	36,222	3,218,245	112,185,795
Female In Labor Force	10,446	1,546,319	56,464,556	22,351	1,912,651	64,547,732
Female Civilian Labor Force	10,446	1,538,705	56,279,595	22,351	1,903,633	64,383,493
Female Civilian Employed	9,893	1,440,358	52,792,388	21,766	1,788,233	60,630,069
Female Civilian Unemployed	553	98,347	3,487,207	585	115,400	3,753,424
Female In Armed Forces	-	7,614	184,961	-	9,018	164,239
Female Not in Labor Force	6,662	1,035,875	42,961,952	13,871	1,305,594	47,638,063

Source: U.S. Bureau of the Census

### Unemployment

From 1990 to 2000, the unemployment rate in Forsyth County has been consistently lower than Georgia or the United States. Unemployment rates in Forsyth County have steadily decreased from 1990 to 2000. **Table 3.10** compares unemployment rates for Forsyth County with surrounding counties, the State, and the United States.

**TABLE 3.9 UNEMPLOYMENT PERCENTAGES FOR FORSYTH, SURROUNDING COUNTIES, GEORGIA AND THE U.S.**

Category	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Forsyth County											
Labor Force	24,871	25,249	26,630	28,372	31,088	33,592	37,705	42,398	48,703	54,134	55,727
Employed	23,728	24,135	25,157	27,293	30,119	32,568	36,919	41,513	47,833	53,264	54,864
Unemployed	1,143	1,114	1,473	1,079	969	1,024	786	885	870	870	863
Unemployment Rate	4.60%	4.40%	5.50%	3.80%	3.10%	3.00%	2.10%	2.10%	1.80%	1.60%	1.50%
Cherokee County											
Unemployment Rate	4.20%	3.70%	5.30%	4.10%	3.40%	3.50%	2.60%	2.40%	2.20%	2.00%	2.00%
Dawson County											
Unemployment Rate	5.10%	4.50%	6.10%	4.80%	4.00%	3.90%	3.10%	2.60%	2.40%	2.10%	1.60%
Fulton County											
Unemployment Rate	5.70%	5.30%	7.40%	6.40%	5.80%	5.40%	5.00%	4.60%	4.10%	3.90%	3.70%
Gwinnett County											
Unemployment Rate	4.20%	3.80%	5.30%	4.20%	3.70%	3.20%	2.80%	2.60%	2.50%	2.40%	2.30%
Georgia											
Unemployment Rate	5.50%	5.00%	7.00%	5.80%	5.20%	4.90%	4.60%	4.50%	4.20%	4.00%	3.70%
US											
Unemployment Rate	5.60%	6.80%	7.50%	6.90%	6.10%	5.60%	5.40%	4.90%	4.50%	4.20%	4.00%

Source: U.S. Bureau of Labor Statistics

## Commuting Patterns

**Table 3.11** shows the commuting patterns for Forsyth County from 1990 to 2000. The percentage of residents working inside the county has increased slightly from 1990 to 2000. In 1990, only 40% of the labor force worked within the county. This number increased to 42% in 2000.

**TABLE 3.11 : LABOR FORCE BY PLACE OF WORK**

Category	1990	2000
Worked in County of Residence	9,031	21,039
Percent of Labor Force Working in County of Residence	40%	42%
Worked Outside County of Residence	13,696	29,539
Percent of Labor Force Working Outside County of Residence	60%	58%

Source: U.S. Bureau of the Census

## Local Economic Development Resources

Local economic development resources are essential to a healthy community. Job Training, workforce development, chambers of commerce, and development authorities are just a few of the mechanisms for promoting business, industry and labor force. Ongoing efforts must be made to ensure that these types of programs are updated, advertised, and made available to the public.

## Economic Development Agencies

Two agencies, the Cumming - Forsyth County Chamber of Commerce and the Forsyth County Development Authority, work to improve the economy of Forsyth County. The Chamber of Commerce is comprised of businesses in the county, professionals, local leaders, and other interested individuals who have joined together to promote the economic development of the community by successfully marketing Forsyth County. The Chamber of Commerce's mission also encompasses enhancing the economic growth and development of Forsyth County and is primarily engaged in business recruitment, business expansions, and retention of businesses currently located in Forsyth County, Georgia. The Chamber of Commerce is the Economic Development Agency for Cumming and Forsyth County, Georgia.

## Economic Development Programs and Tools

The Cumming – Forsyth County Chamber of Commerce organizes monthly lunch meetings for its members with informative speakers to discuss important issues related to the economic growth. The Cumming – Forsyth County Chamber of Commerce launched a public relations and image building campaign that has been very successful. Forsyth County, Georgia has been featured in numerous publications that have real estate professionals and site selection professionals as the target reader audience. The Chamber of Commerce also sponsors events which Showcase Forsyth County to the brokers, agents, site selection professionals and state project managers. Over 200 attended the event last year. A quarterly Developers Roundtable meeting is held with 25-35 attending. This provides a great opportunity to update

the Development community on issues of importance and interest. This also provides a great line of communications so that the Chamber is always up to date on business activity, trends, and issues that relate to their plans for future buildings and site development.

The Chamber of Commerce is conducting an extensive business retention survey in 2003. Approximately 30 companies will be interviewed to determine future expansion plans.

'Business After Hours' provides an opportunity for local business owners and community leaders to network. Throughout the year the Chamber of Commerce promotes a Shop Forsyth County program to encourage more business in the community and thus increase sales tax revenues, jobs, and the tax base. An annual business exposition allows the community to see what products and services are available in Forsyth County and special events are scheduled for visiting government leaders. The Chamber is also active in promoting community development issues such as the extension of the Special Purpose Local Option Sales Tax for community improvements and the passage of the Special Purpose Sales Tax for Education.

In addition to the above, the Cumming – Forsyth County Chamber of Commerce is instrumental and actively engaged in the following activities, designed to enhance the economic growth and development of Forsyth County:

- Working with the developers to market sites and available space/ buildings and identify tracts for future development;
- Assuring the provision of sufficient water, sewer, electrical, natural gas, and telecommunication services to serve the needs of the business community through our committees which work hand in hand with the city and county governments;
- Facilitating the training and education of the local labor force through the collaboration of programs presented in conjunction with Lanier Technical College- Forsyth Campus;
- Serving as an advocate for existing business concerns, including taxation, labor, government/industry relationships and other issues;
- Pursues grant opportunities that facilitate a new business location or expansion of an existing corporate citizen;
- Facilitating comprehensive business and community development through the extensive provision of demographic and other information on Forsyth County, a partnership with the Small Business Development Center Program operated by the Small Business Administration and the University of Georgia for the provision of business counseling services for entrepreneurs or existing businesses, as well as a contractual partnership with the Cumming - Forsyth County Chamber of Commerce;
- The Leadership Forsyth program encourages and fosters the development of community leaders by using a formal study program;
- Forsyth County Youth Leadership Program is a community-wide leadership program for high school sophomores, juniors and seniors. The program is designed to develop leadership potential and to acquaint participants with community needs, problems and resources through interaction with community leaders and decision makers.

The Forsyth County Development Authority is engaged in the following activities:

- Facilitating financing of new and expanded businesses by issuing industrial revenue bonds. The Authority works in concert with the Chamber of Commerce’s Economic Development program for Forsyth County

## **Education And Training Opportunities**

The Forsyth County Public School System, various private schools, Lanier Technical College, and North Georgia College and State University provide education and training opportunities to the local labor force. Assorted job training programs are also available through state agencies.

- Lanier Technical College
  - o Attempts to meet the changing educational and technological needs of business in Forsyth County through continuing education and industry specific training.
  - o The Service Industry Academy provides training to support work force development in the service sector.
  - o Georgia’s Quick Start program is also operated through Lanier Technical College. The program provides high-quality training services at no cost to new and expanding businesses.
- North Georgia College and State University
  - o Provides a quality college educational option for Forsyth County residents.
- Public School System
  - o All 23 schools are accredited by the Southern Association of Colleges and Schools and have exceeded the standards as defined and measured by the Georgia Department of Education.
  - o Georgia Schools of Excellence include three elementary schools: Chattahoochee, Midway and Big Creek; two middle schools: North Forsyth and Otwell; and two high schools: Forsyth Central and North Forsyth. The Schools of Excellence Program began in 1984. The nomination process focuses on several vital areas: student focus and support; school organization and culture; challenging standards and curriculum; active teaching and learning; professional community; leadership and education vitality; school, family and community partnerships; and indicators of success.
  - o In 2001, Big Creek Elementary was named a National Blue Ribbon School. Otwell Middle was also named a National Blue Ribbon School and a Georgia School of the Future. North Forsyth High School is one of six high schools in the nation to be recognized as “Preparing America’s Future” under the United States Department of Education’s New American High Schools Program.

## **ASSESSMENT OF CURRENT AND FUTURE NEEDS**

Employment and earnings have remained fairly stable over the last ten years. Exceptions

include a significant decline of farm employment and a moderate increase in earnings for the wholesale trades sector. It is essential that Forsyth County continue efforts to ensure a diversified local economy. Due in part to the current growth rate, the construction and wholesale trade sectors represent a high percentage of employment and earnings when compared to the state. Specifically, in Forsyth County and Georgia these sectors represent 24.06% and 11.79% of employment, respectively; and 32.43% and 14.44% of earnings, respectively.

An examination of commuting patterns identifies a mismatch between job and residents. Approximately 58% of the Forsyth County labor force is commuting outside the county for employment. Additionally, the rural atmosphere, convenient location, strong school system, and reasonably priced middle and upper class housing markets make the county attractive for residential development. This has led to extremely high residential growth rates, which has outpaced the development of many employment sectors. Additionally, the lack of affordable housing has forced many workers to reside in surrounding counties. Continued efforts from the Cumming - Forsyth Chamber of Commerce and other economic development organizations will help to alleviate the current jobs/residents mismatch.

The expansion of Metro-Atlanta, specifically the continued development of the GA 400 corridor, will continue to be the primary regional issue to relate to the economy of Forsyth County. As identified in the Land Use Element, goals of Forsyth County must focus on quality economic expansion that minimizes the externalities associated with such activity. Existing local economic development programs and tools have experienced success in attempting to diversify the local economy and add jobs that match the needs of our residents. Continued efforts will be necessary to ensure a well-balanced economy.

## **COMMUNITY GOALS**

The following policies are intended to support community values and to define priorities regarding specific issues and the resources addressed in this element. The purpose of these policies is to provide guidance and direction to local government officials in making land use and capital investment decisions. These are not intended to be action items, or strategies, but rather guidelines to be interpreted at the time of decision-making. The policies work to achieve a growing and balanced economy that equitably benefits all segments of the population.

- Encourage the expansion of existing business/industry and the location on new business/industry to Forsyth in a manner that will:
  - Improve the existing quality of life while maintaining the environment
  - Prevent land use conflicts
  - Provide increased and improved employment opportunities for all segments of the community
  - Expand the nonresidential tax base
  - Maximize the return on community expenditures
  - Diversify the County's industrial and commercial base
- Use the Forsyth County Land Use Plan as a guide in prioritizing the locations where key

businesses and industries will be encouraged to locate and in coordinating provisions of transportation, utilities, and other support services.

- Encourage landscaping, signage, building design, and other development regulations that enhances the image of Forsyth County and creates value.
- Continue to encourage high quality vocational, high school and college training to increase the numbers of skilled workers, and to train high quality workers in fields with good employment opportunities.

Chapter Ten, the Implementation Program, provides the overall strategy for the comprehensive plan implementation. The policy recommendations listed above are merged and coordinated with the policies of the other elements to form the implementation program. The associated short-term work program designates the actions the county will take in the next five years to achieve these goals. The list is not all-inclusive. There are some actions that may not be addressed due to time, budget and administrative constraints. These items will be included as part of the work program at some point over the twenty-year planning period.

**INTRODUCTION**

An important aspect of land use planning is the inventory and analysis of the existing physical and biological environment. Growth patterns are inextricably tied to the limitations of the natural environment. Topography, soils and water availability can be assets or hindrances to various types of development. The understanding of the biological patterns and physical processes will allow the determination of the best manner in which to utilize, manage and preserve the natural resources found in a community. The intention of this chapter is to inventory the current status of the county’s natural resources, conduct an “opportunities and constraints assessment” to suggest areas best suited for preservation or for development, and establish the community’s priorities for the needs and goals for conservation.

**INVENTORY AND ASSESSMENT**

**Climate**

Forsyth County has a humid, continental climate, with an average annual temperature of 60 degrees. The winters are generally mild. The temperature often drops below freezing during the nights of December, January, and February, but seldom remains below the freezing point during the day. While some winter days are warm, summer days are usually hot, with cooler nights.

Annual precipitation is approximately 57 inches, and consists almost entirely of rainfall. An occasional snow may accumulate up to one or two inches. Usually, periods of heavy rainfall occur year-round, and are most common December through April. A dry period generally extends from late summer through fall.

The average freeze-free growing season is 209 days. Frost has occurred as early as October and as late as April, and in some years, crops and fruit have been damaged by late spring frosts.

**Geology and Topography**

The county is in the middle and upper parts of the Piedmont province just south of the Appalachian Mountains. The county is underlain by both igneous and metamorphic rocks. Most of the rocks are metamorphic gneiss, schist, and quartzite.

Forsyth County is characterized by a gently sloping terrain, with greater sloping in the northern portion. Sawnee Mountain extends in a southwest to northern direction across the central part of the county. The elevation at the top of the mountain, 1,967 feet above sea level, is the highest in the county. The lowest elevation, less than 900 feet, occurs where the Chattahoochee River crosses the southern boundary of the county. Average elevation is 1,315 feet above sea level.

## Soils

A knowledge of soil properties can be a useful planning tool to help determine the suitability of certain land uses in particular areas. A complete description, classification, and map of soils is available from the Natural Resources Conservation Service.

Although Forsyth County contains a minimum of 14 different soil associations, they can be grouped into five general soil areas, or kinds of soil patterns. The five general areas are discussed below. Best management practices should be used on all soil types, with particular care taken in the development of the highly erodible soil types.

**Cecil-Madison:** Well-drained, gently sloping and sloping soils on uplands. This general soil area makes up about 74 percent of the county. The soils are well suited to agricultural uses, and have slight limitations for urban and recreational development.

**Cecil-Louisa:** Well-drained, sloping and moderately steep soils on uplands. About five percent of Forsyth County is made up of this soil pattern, which is generally not suitable for crops or building construction. Steep, severely eroded, or shallow, the most desirable uses for this association are woodland, pasture, and wildlife habitat.

**Cecil-Habersham:** Well-drained, sloping and moderately steep soils on uplands. This general soil area makes up about 10 percent of the county. Characterized by permeable, sandy soils, they have severe limitation for urban development and most agricultural uses.

**Madison-Louisa:** Well-drained, sloping and moderately steep soils on uplands. Making up about four percent of county soils, these soils have a fine sandy loam surface soil and a red clay loam subsoil. Because this general area is very susceptible to erosion, little of it is suitable for cultivation or building construction.

**Congaree-Wickham:** Moderately well-drained or well-drained, level or gently sloping soils on flood plains and terraces. This general soil area makes up about five percent of the county. It consists mainly of soils which occur along the larger streams on bottom land and terraces. Most of this area is cleared and cultivated.

## Minerals

The only minerals now being extracted in Forsyth County are sand, gravel and crushed stone. Past mining activity, while including such minerals as talc, marble, mica, manganese and iron, centered for many years on gold. Other minerals either prospected or noted in early reconnaissance reports include silver, copper, lead, platinum, building stone, clay, graphite, kyanite, olivine, and semi-precious stones.

Only a few of these known minerals are commercially minable and developable as a resource. The Environmental Protection Division (EPD) lists eight mining operations within the county. Three are dredge operations, four are quarries and one is a pit mine. No precious metal or base metal mining operations are listed with EPD.

Due to the nature of geology in Forsyth County, the likelihood of future large scale mining of base metals and subsurface deposits would be extremely expensive and therefore remote. Gold mining may be economical in the future, but would probably be small scale. The greatest potential for mineral development in the county will continue to be in crushed granite (gravel),

and sand. The expected expansion of Atlanta and predicted growth of Forsyth County will lead to an increase in the demand for these products.

### **Steep Slopes**

There are 32,225 acres of steep slopes within Forsyth County as shown in **Figure 4.1**. Development of these sensitive areas can have an impact on the water quality of the region. When vegetation is removed from steep slopes, the soil surface is more susceptible to erosion. Also, stormwater runoff rates are faster on slopes with greater declines.

The county currently does not have an ordinance prohibiting development on steep slopes. However, due to engineering constraints, it is recommended that development is limited in these areas. In locations such as the Sawnee Mountain ridgeline and the steep banks around Lake Lanier and the Etowah River, low density development or parks may be the most appropriate uses.

### **Protected Mountains**

As defined by Georgia law, a protected mountain is an area of land located at 2,200 feet or more above sea level that has a 25% slope or greater for at least 500 feet horizontally. There are no mountains which fall under the Department of Natural Resources Criteria for Mountain Protection within the county of Forsyth.

### **Prime Agricultural Land and Forest Land**

Prime agricultural land was determined by the analyzing the soil types of the county. Typically, these are soils that consist of fine sandy loam and are gently sloping. **Figure 4.2** shows 24,442 acres of land suitable to be prime farmland. In 1997, 13,410 acres of the county were actually being used as cropland. This land consisted mainly of hay/alfalfa fields. The majority of agricultural business is in the form of cattle and poultry raising. These practices are not as dependant on the soil quality.

Agricultural practices have been a way of life for generations of Forsyth residents. As development from Atlanta continues to move northward, the pressure to develop agricultural land continues to increase. The county continues to investigate ways to ease this pressure and encourage the continuation of viable agricultural businesses.

Prime forest land is defined by the Natural Resources Conservation Service as land cover that is at least 10 percent stocked by single stemmed forest trees of any size which will be at least 4 meters (13 feet) tall at maturity. The prime forest land canopy cover is 25 percent or greater. Also included are areas bearing evidence of natural regeneration of tree cover (cutover forest or abandoned farmland) and not currently developed for nonforest use. The U.S. Department of Agriculture's Forest Service conducted a survey of the forest land of Forsyth County in 1998. The survey found 68,200 acres of the total 144,000 acres within the county were forested.

One of the most effective ways to preserve the existing quality of life in Forsyth County is to preserve the existing tree cover and to encourage reforestation practices within new

developments. Trees serve many vital functions, including reduction of airborne pollutants, control of stormwater run-off and contribution of food and shelter for wildlife. In recognition of their importance, Forsyth County adopted a tree preservation and replacement ordinance. The ordinance provides standards for the preservation and/or replacement of trees as part of the land development and building construction process.

### Plant and Animal Habitats

Prime habitats for the indigenous plants and animals of Forsyth County include streams and riverbeds, bottomland forests, grassy pastures, and upland forests. The ideal landscape mosaic should include large patches of similar habitat and corridors between the patches to allow gene flow. As development continues to spread across the county, habitat fragmentation is becoming an increasing concern. The creation of greenway connections between passive parks should be designed to allow wildlife movement as well as well as human.

The Georgia Department of Natural Resources maintains a working list of protected plants and animals of special concern in Forsyth County. The species are listed on **Table 4.1** below.

**TABLE 4.1 : PROTECTED SPECIES OF FORSYTH COUNTY**

Protected Species	Habitat
<i>Notropis stilbius</i> -Silverstripe Shiner	Medium-sized streams and rivers in flowing pools over sandy to rocky substrates
<i>Percina antesella</i> -Amber Darter	Riffles & runs of medium-sized rivers
<i>Amorpha nitens</i> -Shining Indigo-bush	Rocky, wooded slopes; alluvial woods
<i>Amorpha schwerinii</i> - Schwerin Indigo-bush	Rocky upland woods
<i>Aster georgianus</i> -Georgia Aster	Upland oak-hickory-pine forests and openings; sometimes with Echinacea laevigata or over amphibolite
<i>Platanthera integrilabia</i> -Monkeyface Orchid	Red maple-gum swamps; peaty seeps and streambanks with Parnassia asarifolia and Oxypolis rigidior

Source: Georgia Department of Natural Resources

The Silverstripe Shiner and the Amber Darter are limited to the Etowah River and possibly its tributaries. Best management practices should be used in the Etowah watershed to ensure the river’s water quality is not adversely affected by future development. All sites where a species of special concern are identified will be given priority for protection in the county’s greenspace plan.

### Major Parks, Recreation and Conservation Areas

There are several parks within Forsyth County which have regional impacts. The Army Corps of Engineers maintains over 600 acres of recreational sites along Lake Lanier. Sites include boat ramps, playgrounds, picnic tables, beaches and swimming areas. Approximately half of this acreage is devoted to campsites and day use facilities. **Table 4.2** lists the names

**TABLE 4.2: U.S. ARMY CORPS OF ENGINEERS PARKS AND ACCESS POINTS ON LAKE LANIER IN FORSYTH COUNTY**

NAME	GENERAL LOCATION
Buford Dam Park	Buford Dam Road
West Bank Picnic and Shelter	Buford Dam Road
Sawnee Campground	Buford Dam Road
Little Ridge Park	Off Buford Dam Road
Habersham Marina	Buford Dam Road
Mary Alice Park	Habersham Road
Baldrige Marina	Baldrige Marina Road
Baldrige Creek Public Use Area	Off Sinclair Shores Road
Tidwell Access	End of Pilgrim Mill Road
Young Deer Creek Access	End of Heard Road
Shady Grove Park	Shadburn Ferry Road
Charleston Access	Off Browns Bridge Road
Two Mile Creek Access	Bethel Road
Bethel Park	Swiss Air Road
Vanns Tavern Access	Vanns Tavern Road
Athens Park	Athens Park Road
Lan Mar Marina	Lan Mar Road
Long Hollow Access	Bryant Road
Keith Bridge Park	Keith Bridge Road
War Hill Park (part)	Near Dawson County

Source: Atlantic Mapping, Inc. Lake Lanier Recreation and Fishing Guide with Topography. 1984, Revised 1989.

and locations of the Corps parks. Just below Buford Dam, Forsyth contains a portion of Bowmans Island Park Unit, which is part of the Chattahoochee River National Recreation Area. The Forsyth County Parks and Recreation has obtained 750 acres on the Sawnee Mountain ridgeline to become the Sawnee Mountain Preserve. This park will include miles of walking trails and historically significant sites.

Conservation areas, such as wetlands, streambanks and floodplains are protected through buffers and best management practices. Further protection should be pursued for these sensitive areas. Additional protection options include conservation easements and fee simple acquisition.

**Significant Landmarks and Vistas**

The rolling topography, Lake Lanier, and the rural character of the northern portion of the county provide many scenic views within the county. The ridgeline of Sawnee Mountain, in the north-central portion of the county, can be seen from a distance in all directions. The Eagle’s Beak formation of the Etowah River, in the northwest corner of the county, holds cultural significance to the Cherokee Indians. The overlook at Buford Dam offers expansive views of Lake Lanier and the Chattahoochee River.

Forsyth County has begun to take steps towards protecting these significant landmarks

**FIGURE 4.1: STEEP SLOPES OF FORSYTH COUNTY**

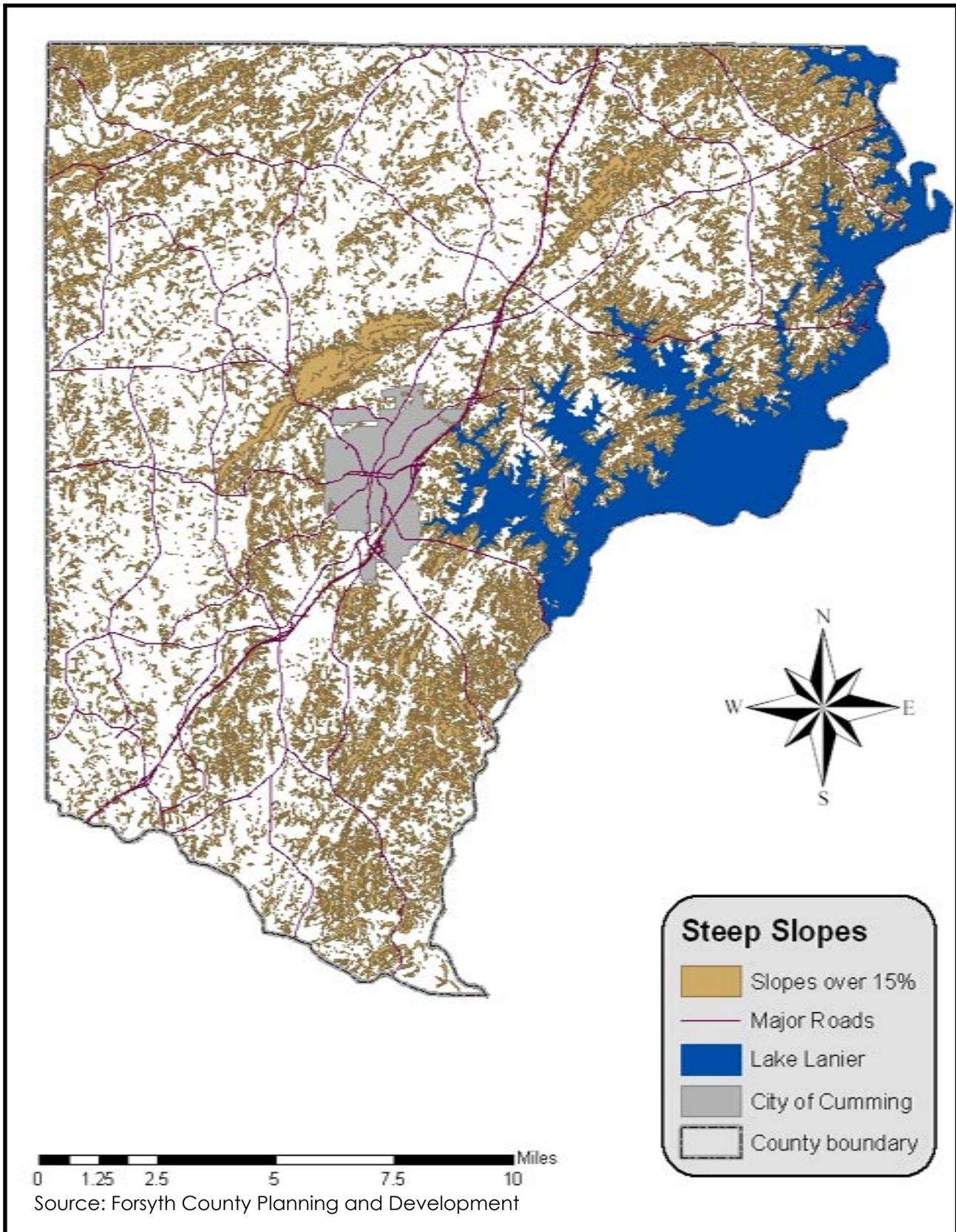
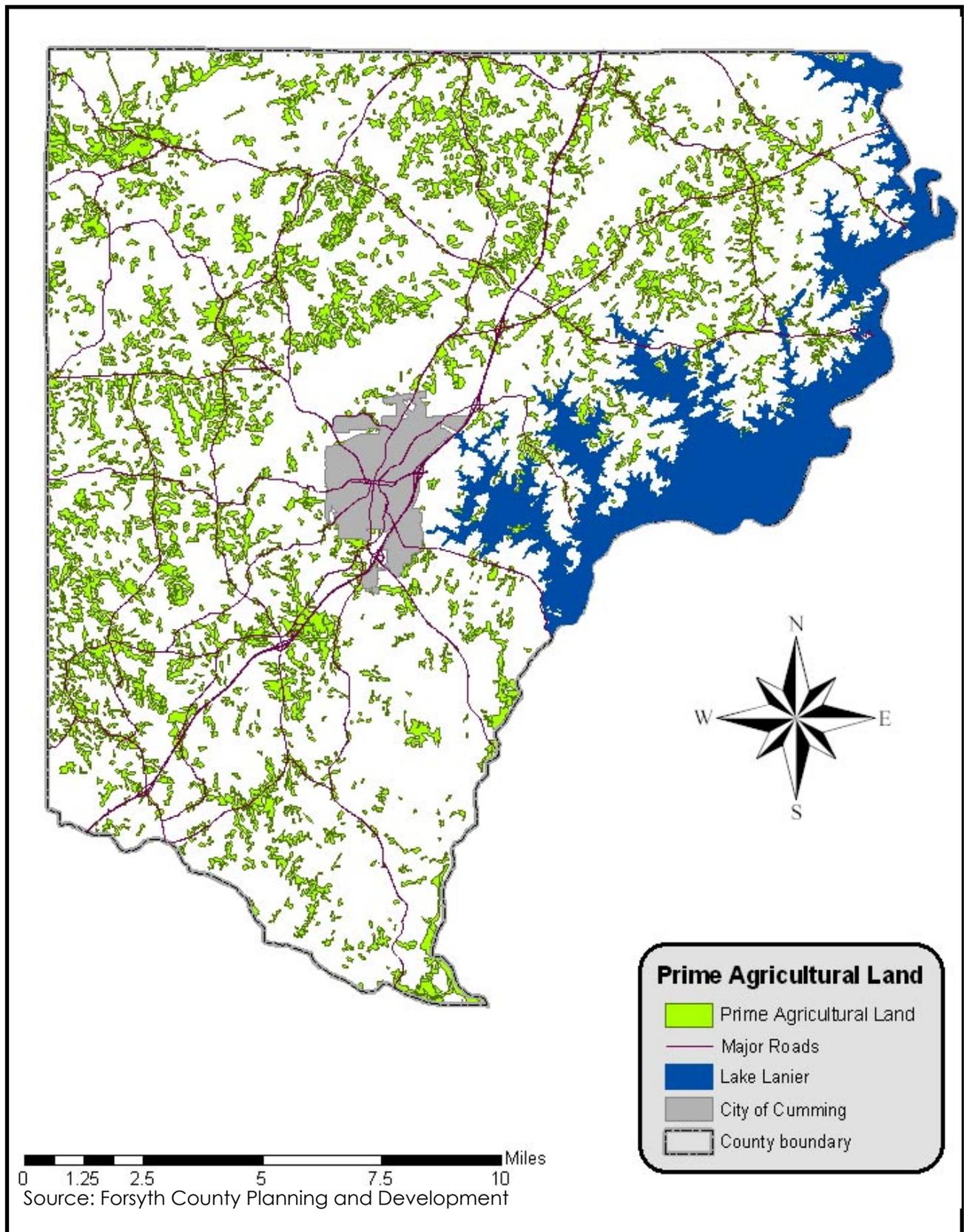


FIGURE 4.2: PRIME AGRICULTURAL LAND OF FORSYTH COUNTY



and vistas. The county has already purchased 750 acres of land on Sawnee Mountain to create a passive recreation park. The county also plans to update the Forsyth County Greenspace Plan. The updated plan will include consideration of methods to protect these significant areas. The county has also adopted a sign ordinance which restricts the heights of advertising signage throughout the county.

### **Greenspace Acquisition Areas**

Forsyth County is a participant in the Georgia Greenspace Program. To achieve the Department of Natural Resources goal of 20% of the county permanently preserved in a natural state, 29,000 acres of land must be protected through acquisition, conservation easements and transfer or purchase of development rights. The Forsyth County Greenspace Plan identifies steep slopes, wetlands, A2 zoned land and flood plains as potential greenspace acquisition areas. The county has currently purchased 750 acres of land on Sawnee Mountain to create a passive recreation park as well as 67 acres in South Forsyth. The Community Program Report for the Forsyth County Greenspace Plan is included in **Appendix B**.

### **Water Resources**

Forsyth County has a variety of water resources available for drinking water supply, wildlife habitat and recreation. These include surface waters, such as lakes, rivers, streams and wetlands, as well as below-ground aquifers. All streams in Forsyth County drain into two major river basins, the Chattahoochee River Basin to the southeast and the Coosa River Basin in the northwest.

The Chattahoochee River Basin is part of the larger Apalachicola-Chattahoochee-Flint (ACF) Rivers Basin, which drains into the Gulf of Mexico. In Forsyth County, the Chattahoochee River Basin can be sub-divided into three watersheds: Lake Lanier, Big Creek and Chattahoochee River. The man-made Lake Lanier, which is the largest lake to be entirely contained in the state of Georgia, occupies more than 38,000 acres in Forsyth County. Several tributaries drain into the lake including Six-mile Creek, Four-Mile Creek, Two-Mile Creek, Taylor Creek, Bald Ridge Creek and Sawnee Creek. Below the dam, water in the southeast portion of the county drains into the Chattahoochee River. These include Haw Creek, James Creek, Dick Creek, Caney Creek and John's Creek. The Big Creek watershed is in the western portion of the county and drains into the Chattahoochee River below the Roswell water supply intake in Fulton County.

The Etowah River watershed, which flows through the northwest portion of Forsyth, joins the Coosa River northwest of Atlanta, to form the Coosa River Basin. The rivers eventually drain into the Gulf of Mexico as part of the Alabama-Coosa-Tallapoosa (ACT) Rivers Basin. Settingdown Creek watershed flows into the Etowah River just west of Forsyth County.

In March 2000, the Community Watershed Assessment and Watershed Management Plan was produced for the county. The purpose of the study was to evaluate the environmental health of county streams and to develop a management plan to control pollution in selected watersheds. This report includes water quality and biological assessments, modeling development, impacts assessment and recommendations for future management.

## Water-supply Watersheds

A water-supply watershed is the area where rainfall runoff drains into a river, stream or reservoir used as a source of public drinking water supply. Protection of these watersheds is important to ensure public health and reduce the amount of purification needed to provide safe drinking water. All five major watersheds found in the county are water-supply watersheds (**Figure 4.3**). *Chapter 391-3-16-.01; Rules for Environmental Planning Criteria* in the *Rules of Georgia Department Natural Resources Environmental Protection Division*, require a set of criteria to be created that allows development of a water-supply watershed without contaminating the water source to a point where it cannot be treated to meet drinking water standards. The criteria to be used is determined by the water-supply watershed size and proximity to a water intake facility. Watersheds of less than 100 square miles in size are considered small water-supply watersheds. If greater than 100 square miles, the watershed is considered a large water-supply watershed. There are additional requirements for the seven mile radius surrounding a water intake facility.

The Big Creek watershed, in the southwest section of the county, is slightly smaller than 100 square miles and therefore considered a small water-supply watershed. The Etowah River, Settingdown Creek and Chattahoochee are large water-supply watersheds outside of the seven mile radius, with no impervious coverage restrictions. Although there is a water-intake site for the City of Cumming and Forsyth County within the Lake Lanier watershed, the Department of Natural Resources criteria does not apply to federal lakes. To protect the county's and adjacent municipalities' water supply, Forsyth County has adopted and follows the planning criteria set by the Georgia Department of Natural Resources.

### *Big Creek Watershed*

According to the Department of Natural Resources, the Big Creek Watershed constitutes 96.4 square miles. The City of Roswell withdraws water at an intake that is located less than seven miles south of Forsyth County boundary. For these reasons, the county has adopted a Protected Water Supply Watershed Overlay District for the area. Within the seven-mile radius, Georgia Department of Natural Resources requires the following:

- A buffer shall be maintained for a distance of 100 feet on both sides of the stream as measured from the stream banks.
- No impervious surface shall be constructed within a 150 foot setback area on both sides of the stream as measured from the stream banks.
- Septic tanks and septic tank drainfields are prohibited within the 150 foot setback.

The perennial stream corridors within Big Creek watershed upstream and outside the seven mile radius of the Roswell water intake point are to be protected by the following criteria:

- A buffer shall be maintained for a distance of fifty feet on both sides of the stream as measured from the stream banks.
- No impervious surface shall be constructed within a seventy-five foot setback area on both sides of the stream as measured from the streambanks.
- Septic tanks and septic tank drain fields are prohibited in the setback area on both sides of the stream as measured from the stream banks.

In addition to Big Creek itself, these buffer and setback requirements apply to a number of perennial stream tributaries, including, but not limited to: Bentley Creek, Cobb Creek, Harris Creek, Chatham Creek, Kelley Mill Branch, Sawmill Branch, Cumming Twin Lakes, and Bagley Creek.

The following criteria apply at all locations in a small water supply watershed:

- New sanitary landfills are allowed only if they have synthetic liners and leachate collection systems.
- New hazardous waste treatment or disposal facilities are prohibited.
- The impervious surface area, including all public and private structures, utilities, or facilities, of the entire water supply watershed shall be limited to twenty-five (25) percent, or existing use, whichever is greater.
- New facilities which handle hazardous materials of the types listed in Section 312 of the Resource Conservation and Recovery Act of 1976 (excluding underground storage tanks), and amounts of 10,000 pounds on any one day or more, shall perform their operations on impermeable surfaces in conformance with any applicable federal spill prevention requirements or the requirements of the Standard Fire Prevention Code.

A limitation of 25% impervious surface within the Big Creek Watershed applies to several jurisdictions. These include: Forsyth County, Cherokee County, Fulton County, the City of Alpharetta, the City of Cumming and the City of Roswell. The Department of Natural Resources suggests two basic approaches local governments can take to implement the limit:

1. All the local governments within the boundaries of the watershed may agree among themselves on an allocation program for impervious surfaces that yields a net 25% limitation throughout the watershed. This approach would require all the local governments within the watershed to reach a formal impervious surface allocation agreement, and such an agreement would have to be reflected in the comprehensive plan of each participating local government.
2. Each local government within a watershed may apply the 25% limitation to its jurisdiction individually. This approach does not require negotiations for an allocation system with neighboring local governments, since each city or county would operate by the same 25% standard.
3. Limit each lot within the watershed to a maximum 25% impervious surface coverage.

## **Wetlands**

Wetlands are areas with permanently or temporarily saturated soils that influence the unique plant and animal communities living there. They serve valuable ecological functions for the community in terms of flood water retention, soil erosion control, groundwater recharge and pollution filtration. The county has adopted a wetland protection district, and coordinates with the U.S. Army Corps of Engineers for review of projects that may be subject to the Clean Water Act 404 permitting process. The largest areas of wetlands can be found along Big Creek, Settingdown Creek and the Etowah River. Additional wetlands can be found in association with the shoreline of Lake Lanier and in small, man-made farm ponds. The U.S. Fish and Wildlife Service's National Wetlands Inventory Maps are used to identify potential

wetland sites shown in **Figure 4.4**.

### **Flood Plains**

Flood Plains are fluctuating water level ecosystems. These low-lying lands along streambeds absorb high waters during flooding events. They are ecotones, transitional areas between land and water, that in their natural state, support a high diversity of plants and animals. The flood waters provide rich, highly productive alluvial soil to the surrounding land. In return, flood plains enrich water bodies with high nutrient organic matter, producing the foundation for a healthy aquatic food web.

The 100-year flood plain is defined as the land area with a 1% chance of being flooded every year. Flood plain management is required under the National Flood Insurance Act of 1963 and the Flood Disaster Protection Act of 1973. **Figure 4.5** shows flood plains defined by the Federal Emergency Management Agency. No building development is recommended to occur in any 100 year flood plain within the county. To further protect this important resource, floodplains are identified as a potential greenspace acquisition area in the Forsyth County Greenspace Plan.

### **Significant Groundwater Recharge Areas**

Groundwater recharge occurs in areas composed of the topography and geology that allow percolation of surface water through the soil into an aquifer. These permeable surfaces raise the groundwater table and slow the flow of water into streams during rain events. They also provide a source of drinking water. If the aquifer becomes polluted, it is virtually impossible to decontaminate it. The groundwater recharge areas were mapped by the Department of Natural Resources (DNR) in Hydrologic Atlas 18 (1989) edition. The mapping was based on outcrop areas, lithology, soil type and thickness, slope, density of lithologic contacts, geologic structure, presence of “karst” topography, and potentiometric surfaces. Hydrologic Atlas 20 Groundwater Pollution Susceptibility Map of Georgia, indicates areas of high, average, and low pollution susceptibility. In the adoption of local ordinances, this map dictates the minimum lot sizes allowable for the construction of new homes and other structures that rely on septic tank systems. Forsyth County has low pollution susceptibility. **Figure 4.6** indicates the groundwater recharge areas and pollution susceptibility.

Forsyth County has adopted a list of criteria to be followed within any significant groundwater recharge area:

- DNR will not issue permits for sanitary landfills not having synthetic liners and leachate collection systems.
- DNR shall not issue permits for the land disposal of hazardous wastes.
- DNR shall require all new facilities permitted or to be permitted to treat, store, or dispose of hazardous waste to perform such operations on an impermeable pad having a spill and leak collection system.
- New above-ground chemical or petroleum storage tanks, having a minimum volume of 660 gallons, shall have secondary containment for 110% of the volume of such tanks or 110% of the volume of the largest tank in a cluster of tanks. Such tanks used for agricultural purposes are exempt, provided they comply with all federal requirements.

**FIGURE 4.3: WATER SUPPLY WATERSHEDS AND PUBLIC WATER SUPPLY OF FORSYTH COUNTY**

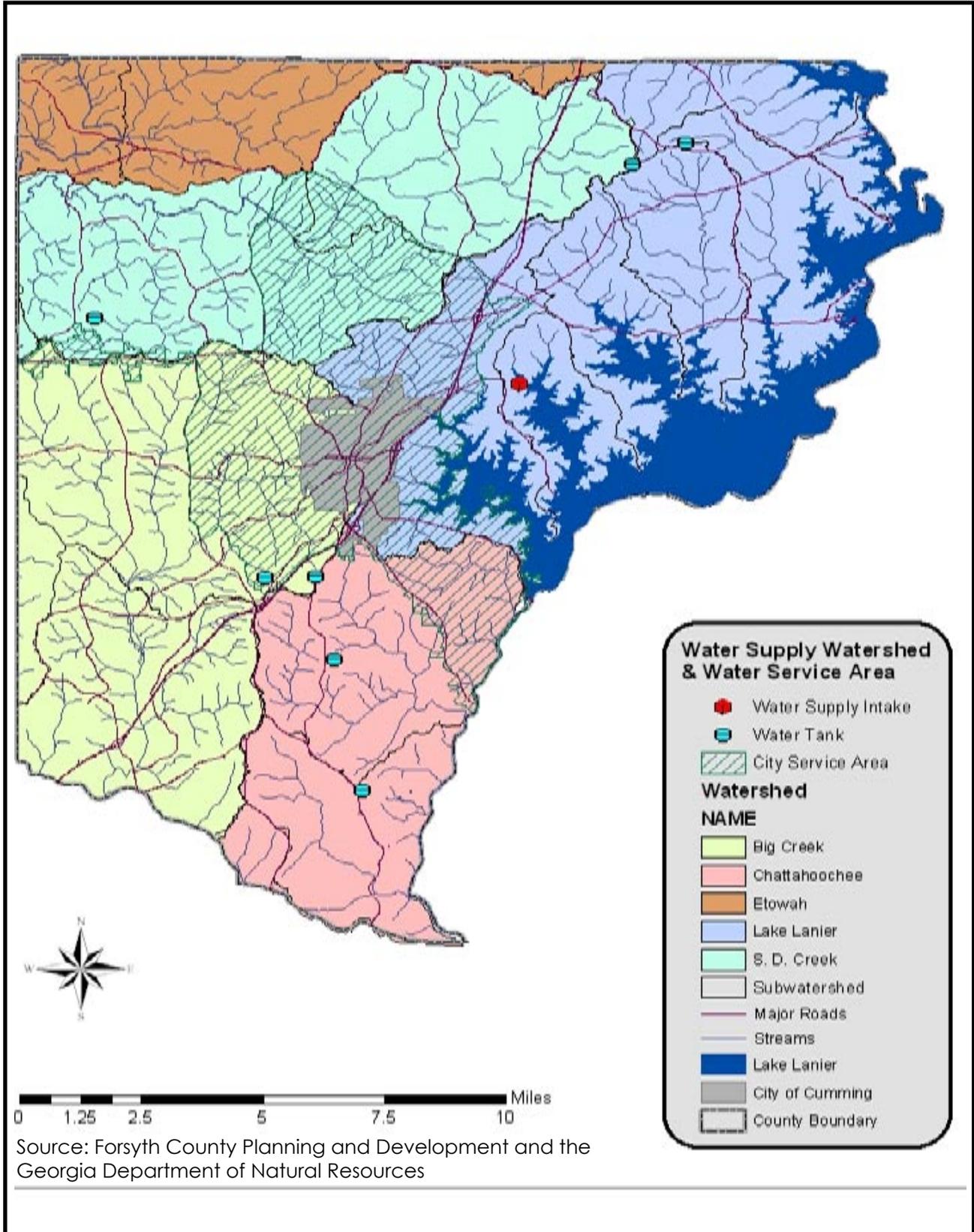
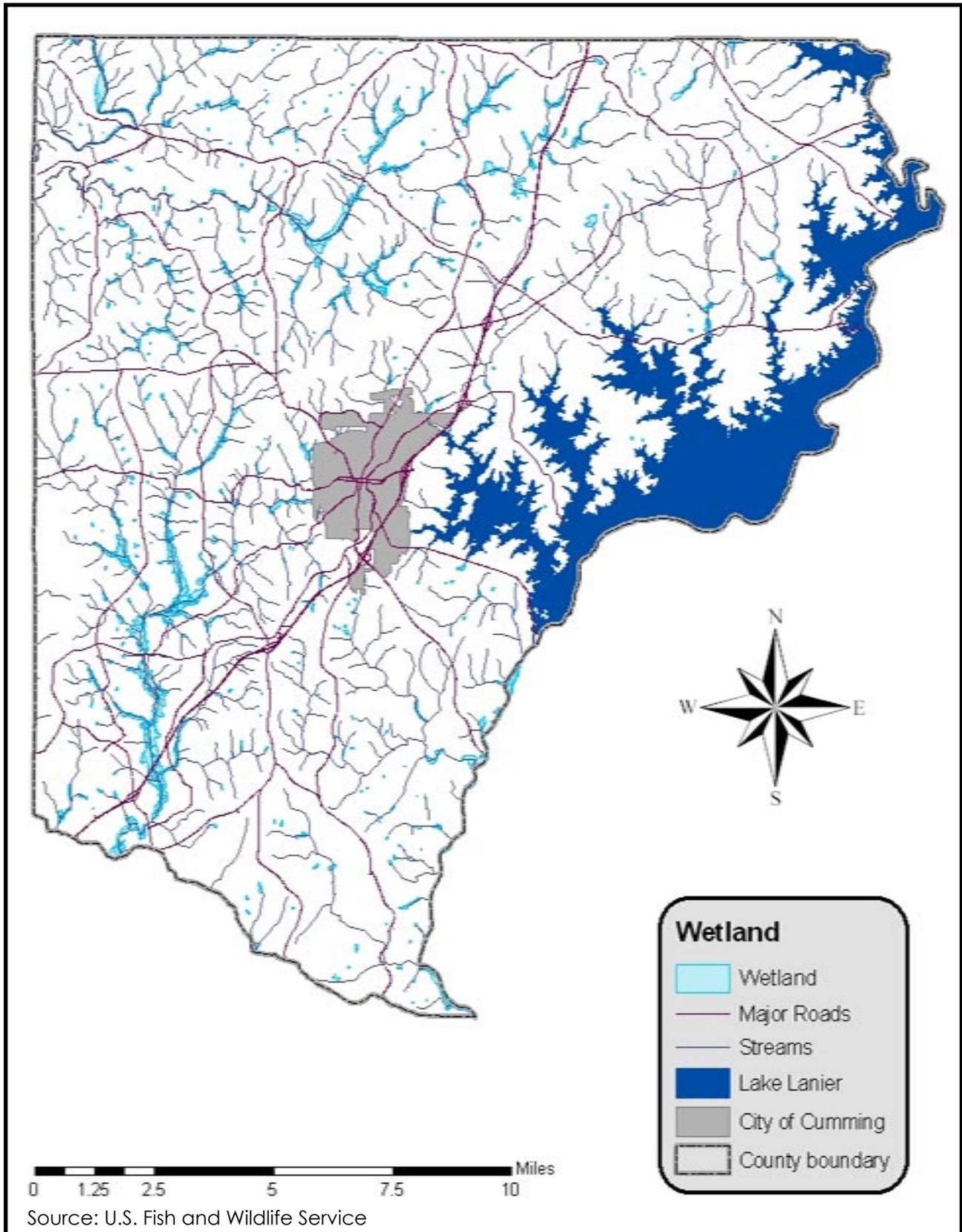


FIGURE 4.4: WETLANDS OF FORSYTH COUNTY



**FIGURE 4.5: FLOOD PLAINS OF FORSYTH COUNTY**

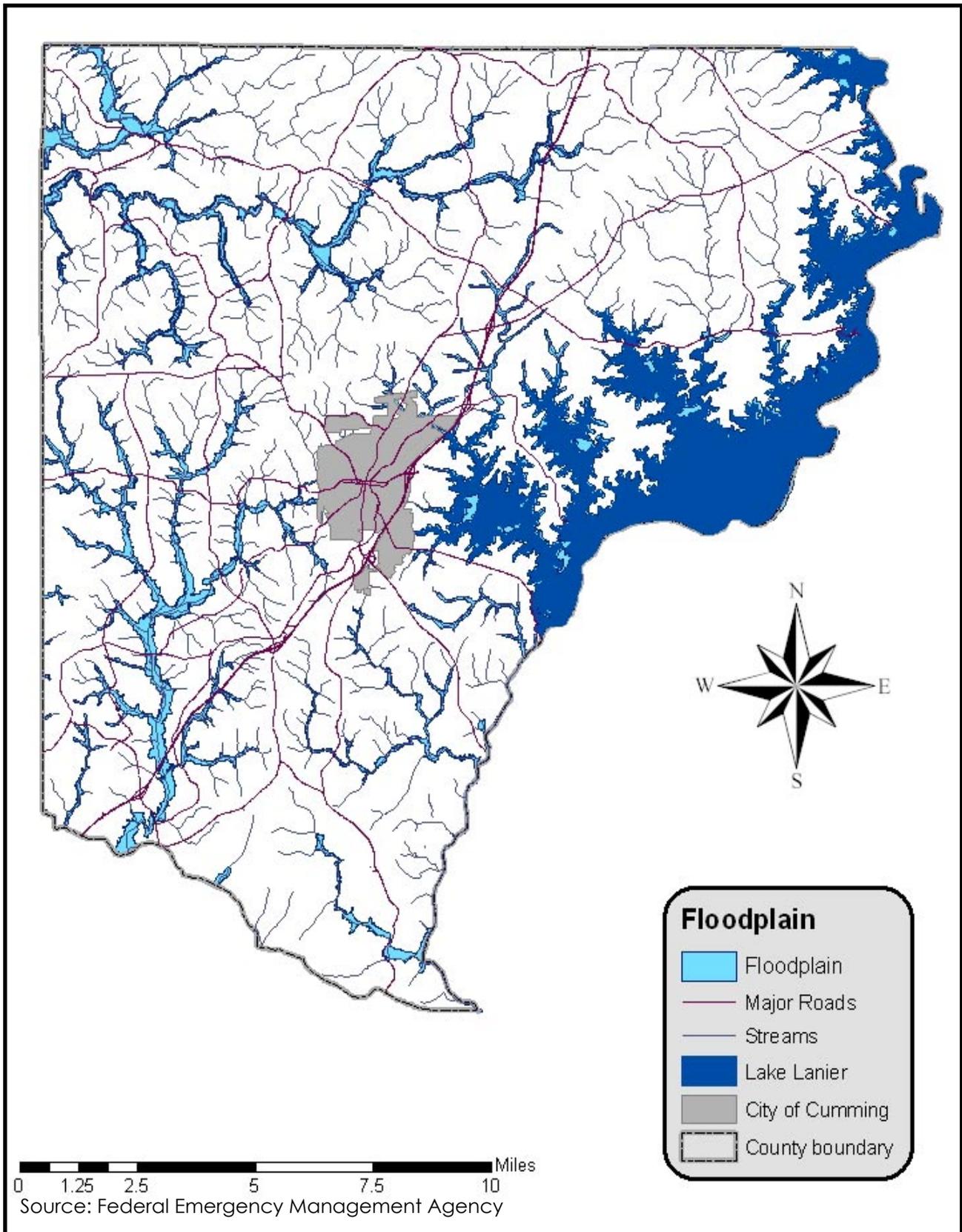
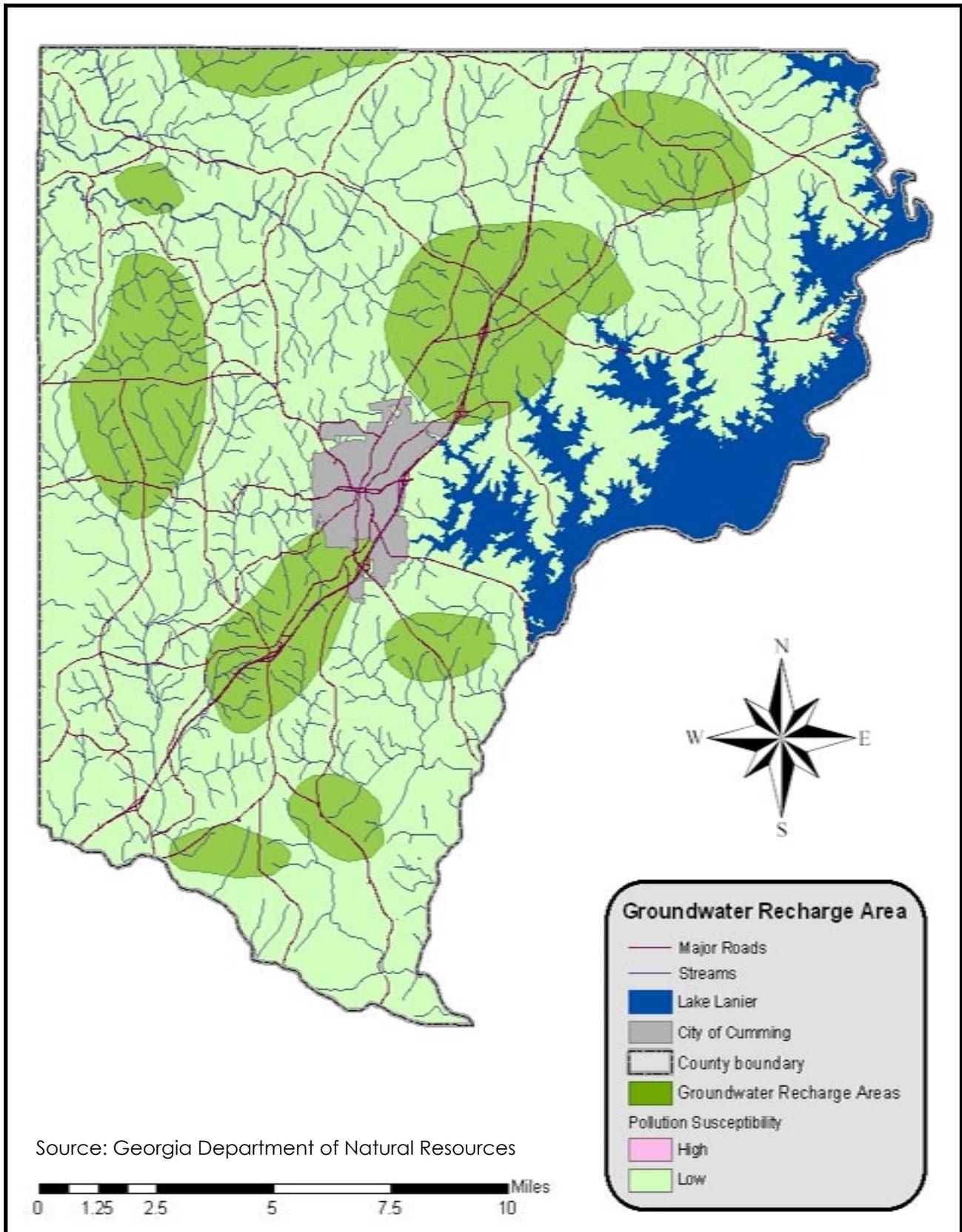


FIGURE 4.6: GROUND WATER RECHARGE AREAS OF FORSYTH COUNTY



- New agricultural waste impoundment site should be discouraged in significant groundwater recharge areas, Clay liners should be installed as approved by the U.S. Soil Conservation Service if an agricultural waste impoundment site is located in a significant groundwater recharge area.
- New dwellings, including mobile/manufactured homes, if served by septic tank/drain filed systems, should be located on a lot size of 110% of the minimum lot area required by the Georgia Department of Human Resources' "Manual For On-site Sewage Disposal Systems." Existing lots of record would be exempted.
- Permanent stormwater infiltration basins should be discouraged and should not be constructed in an area with high pollution susceptibility.
- Wastewater treatment basins should have liners if constructed in an area of high pollution susceptibility, and wastewater spray irrigation systems in high pollution susceptibility areas should only be permitted subject to approval by Georgia DNR.

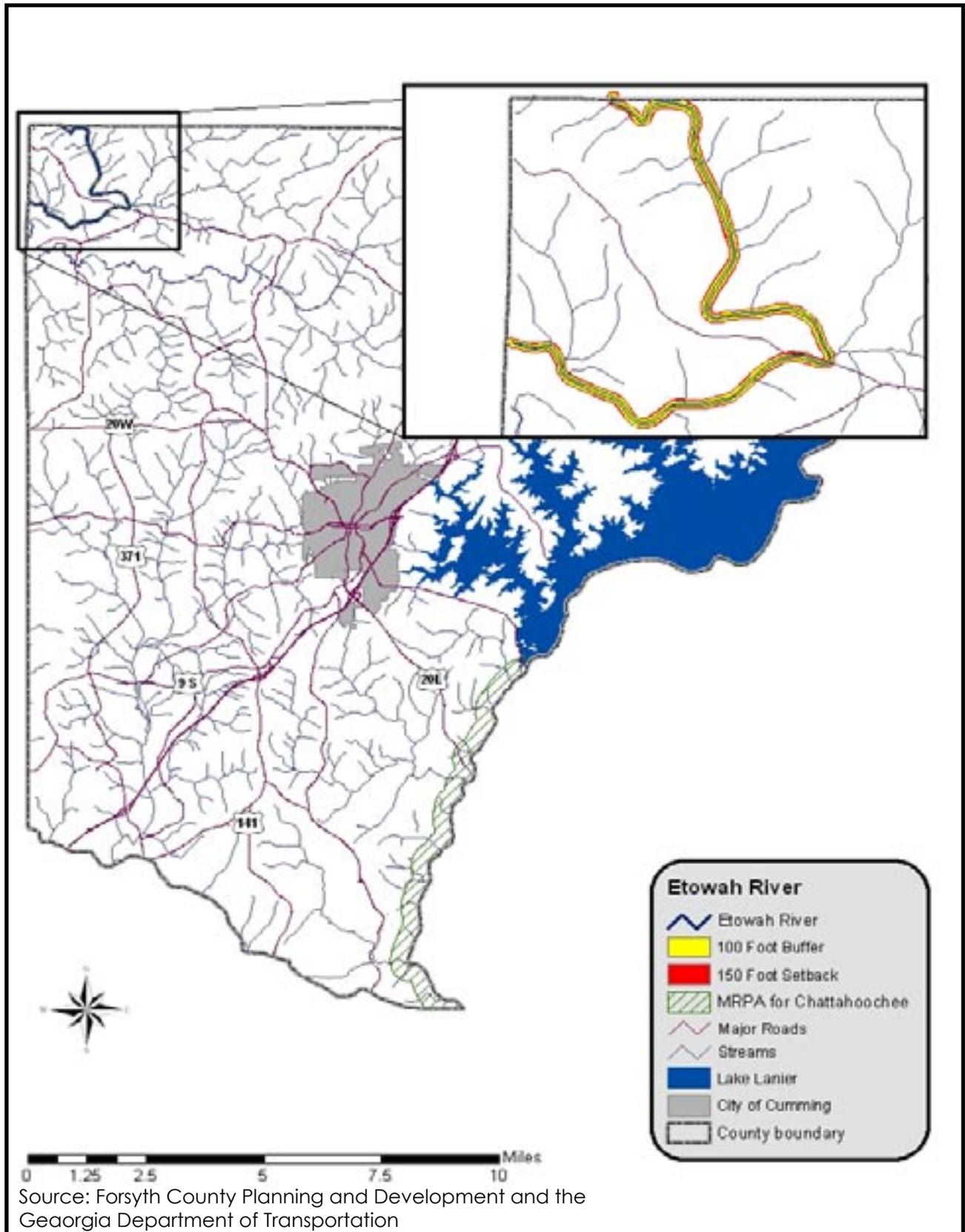
Due to the sensitive nature of recharge areas identified in **Figure 4.6**, it is recommended that development remain at a lower density and intensive industrial uses are avoided in these areas.

### **Protected River Corridors**

Forsyth County contains two protected river corridors, the Etowah River and the Chattahoochee River (**Figure 4.7**). The Department of Natural Resources, in Section 391-3-16-.04 of the *Rules for Environmental Planning Criteria* defines a "Protected River" as any perennial river or watercourse with an average annual flow of at least 400 cubic feet per second. Local governments which contain protected rivers within their jurisdiction must adopt River Corridor Protection Plans. The Etowah River, along its entire length in Forsyth County, has been determined to fit in the Protected River category. The River Corridor Protection Plan is provided **Figure 4.8**.

The Chattahoochee River qualifies as a protected river, but is superseded by the Georgia Metropolitan River Protection Act (MRPA). All construction and development actions, clearance, land disturbance, landscaping, occupancy and use of lands within the Chattahoochee River Corridor shall be undertaken in conformance to the provisions of the MRPA. Protection criteria are established for a 2000 foot corridor from the edge of the Chattahoochee River. This includes a 50 foot natural buffer on both sides of the river; a 150 ft building setback; a 35 foot buffer on tributaries; and controls on floodplain development and the extent of impervious surfaces. The Act specifies that local governments review land-disturbing activities and certify that development follows the guidelines for watershed protection.

FIGURE 4.7: FORSYTH COUNTY PROTECTED RIVER CORRIDORS



## FIGURE 4.8: ETOWAH RIVER CORRIDOR PROTECTION PLAN

### 1. Applicability.

This plan shall apply to all areas within one hundred (100) feet horizontally on both sides of the Etowah River, in Forsyth County.

### 2. Applicability to State Agencies.

This plan shall apply to all state owned or administered land that contains a protected river within its boundaries. All state agencies shall comply with these minimum standards. Failure by a state agency to comply with such standards shall be considered an indicia of a governmental action which may significantly adversely affect the quality of the environment under the Environmental Policy Act (O.C.G.A. 12-16-1 et seq.).

### 3. Prohibited Uses In The River Corridor.

3.1. Hazardous waste disposal and handling facilities.

3.2. Solid Waste Landfills.

3.3. Septic tanks and septic tank drain fields, except that septic tanks only are permitted within the river corridor for single-family dwellings on two acre or larger lots.

### 4.0 Uses Exempt From Natural Buffer Maintenance Requirements.

The following uses are permitted, subject to certain conditions, within the one-hundred foot (100') river corridor, without having to maintain a 100 foot natural vegetative buffer:

#### 4.1. Agriculture.

Agricultural production and management is permitted within the river corridor, subject to the following conditions:

- 1) Agricultural activity shall be consistent with best management practices established by the Georgia Soil and Water Conservation Commission;
- 2) Agricultural activity shall not impair the drinking quality of the river water as defined by the federal Clean Water Act, as amended; and
- 3) Agricultural activity shall be consistent with all state and federal laws, and all regulations promulgated by the Georgia Department of Agriculture.

#### 4.2. Forestry

Timber production and harvesting are permitted within the river corridor, subject to the following conditions:

- 1) Forestry activity shall be consistent with best management practices established by the Georgia Forestry Commission; and
- 2) Forestry activity shall not impair the drinking quality of the river water as defined by the federal Clean Water Act, as amended.

#### 4.3. Single-Family Dwellings.

Single-family dwellings, including usual accessory structures and appurtenances, are permitted within the river corridor subject to the following conditions:

- 1) The dwelling shall be located on a tract of land containing at least two (2) acres, excluding any property that lies within the banks of the river. This section shall not, however, prohibit the construction of any dwellings on lots less than two (2) acres lawfully existing on record prior to the adoption of regulations implementing this river corridor protection plan.
- 2) There shall be only one such dwelling on each two-acre or larger tract of land.
- 3) A septic tank or tanks serving such a dwelling may be located within the buffer area.

**ETOWAH RIVER CORRIDOR PROTECTION PLAN CON'T**

4) Septic tank drainfields shall not be located within the buffer area.

4.4. Existing Land Uses.

Any commercial, industrial, institutional, residential, or other land uses existing within the river corridor prior to the adoption of regulations implementing this river corridor protection plan, provided that:

- 1) They shall not impair the drinking quality of the river water; and
- 2) They shall meet all applicable state and federal environmental rules and regulations.

4.5. Mining.

Mining activities are allowed, if permitted by the Georgia Department of Natural Resources pursuant to the Georgia Surface Mining Act of 1968, as amended.

4.6. Wildlife and Fisheries Management.

These activities are allowed if consistent with the purposes of O.C.G.A. 12-2-8.

4.7. Waste-Water Treatment and Natural Water Quality Treatment or Purification.

4.8. Recreational Uses.

Paths, walkways, boat ramps and other recreational uses consistent with maintenance of a natural vegetative buffer or with river dependant recreation, but specifically excluding parking lots and hard-surface tennis courts.

4.9. Road Crossings and Utilities.

Roads and utilities must meet all requirements of the Erosion and Sedimentation Control Act of 1975, as amended, and any local ordinances on soil erosion and sedimentation control. If utilities cannot feasibly be located outside the river corridor/buffer area, as decided conservatively by the local government, then utilities are allowed subject to the following:

- 1) The utilities shall be located as far from the river bank as reasonably possible;
- 2) Installation and maintenance of the utilities shall be such as to protect the integrity of the buffer area as well as is reasonably possible; and
- 3) Utilities shall not impair the drinking quality of the river water.

4.10. Other Uses.

Other uses permitted by the Department of Natural Resources or under Section 404 of the Clean Water Act, shall be permitted within the river corridor.

5.0 Establishment and Maintenance of Natural Buffer.

Except for land uses specifically exempted by Section 4 of this plan, all construction of buildings or structures is prohibited within the river corridor, and the existing natural vegetative buffer within 100 feet of the stream bank shall remain undisturbed.

6.0 Assessment of Potential Development on Protected River Corridor.

Land development, if consistent with this plan, is not expected to adversely affect: 1) unique/significant flora and fauna (none identified in the corridor); 2) the uses, activities and quality of Etowah River water; 3) fishing or recreational uses (this segment is not a trout stream); 4) historical and archeological sites (none identified in the corridor); nor 5) adjacent sensitive natural areas (none identified except flood plains). Since flood plains are protected by the county's flood damage prevention ordinance, no adverse effects on flood plains are anticipated either.

## Summary

The land resources enjoyed by the residents of Forsyth County are both abundant and varied in nature. However, these represent a finite fund of resources. The number of uses and demands against that fund is large, varied and growing in number and complexity. Allocating decisions among competing uses is becoming increasingly more complex and considerably more difficult. The natural beauty of Sawnee Mountain is threatened from development on all sides and the water quality of Lake Lanier and its feeder streams has been steadily declining. Forsyth County must continue to balance the need for growth while maintaining the integrity of its natural resources. **Figure 4.8**, on page 4-22, shows an overlay of the natural resources that were used in the assessment and creation of the community goals.

## COMMUNITY GOALS

The following policies are recommended to conserve and protect the environmental resources of Forsyth County:

- Prepare a greenway/open space master plan.
- Establish standards to identify land in which development impacts should be minimized.
- Work toward the acquisition and preservation of greenbelt protected areas, such as the Chattahoochee River, Etowah River, and Big Creek.
- Strengthen appropriate rules, regulations, and ordinances to protect and encourage the preservation of trees and vegetative cover.
- Distribute open space opportunities across the county.
- Strictly enforce the sign ordinance to help preserve the scenic features of the county.
- Recognize the need for passive recreational spaces.
- Develop countywide strategies for improving watershed quality. Modify and improve upon stormwater management plan to improve water quality.
- Create development standards to encourage the linking of conservation lands to create greenway corridors.
- Encourage maximizing open space with density incentives.
- The county should work towards exceeding the state standard for greenspace in each subarea.
- Develop a plan to require mixed-use development to have a significant percentage of the area to remain protected greenspace.
- Protect residential areas by encouraging appropriate greenspace buffers around commercial developments.
- Examine measures to improve water quality, such as stream buffer requirements.
- Reduce the negative impact of impervious surfaces by studying mitigation factors and incorporating them into site development.
- Encourage the creation of hiking trails which interconnect with other existing greenways and trails from adjoining counties.

In addition to the goals set by the Countywide Land Use Steering Committee, future goals identified in the Parks and Recreation Masterplan which will work to preserve the county's natural resources include:

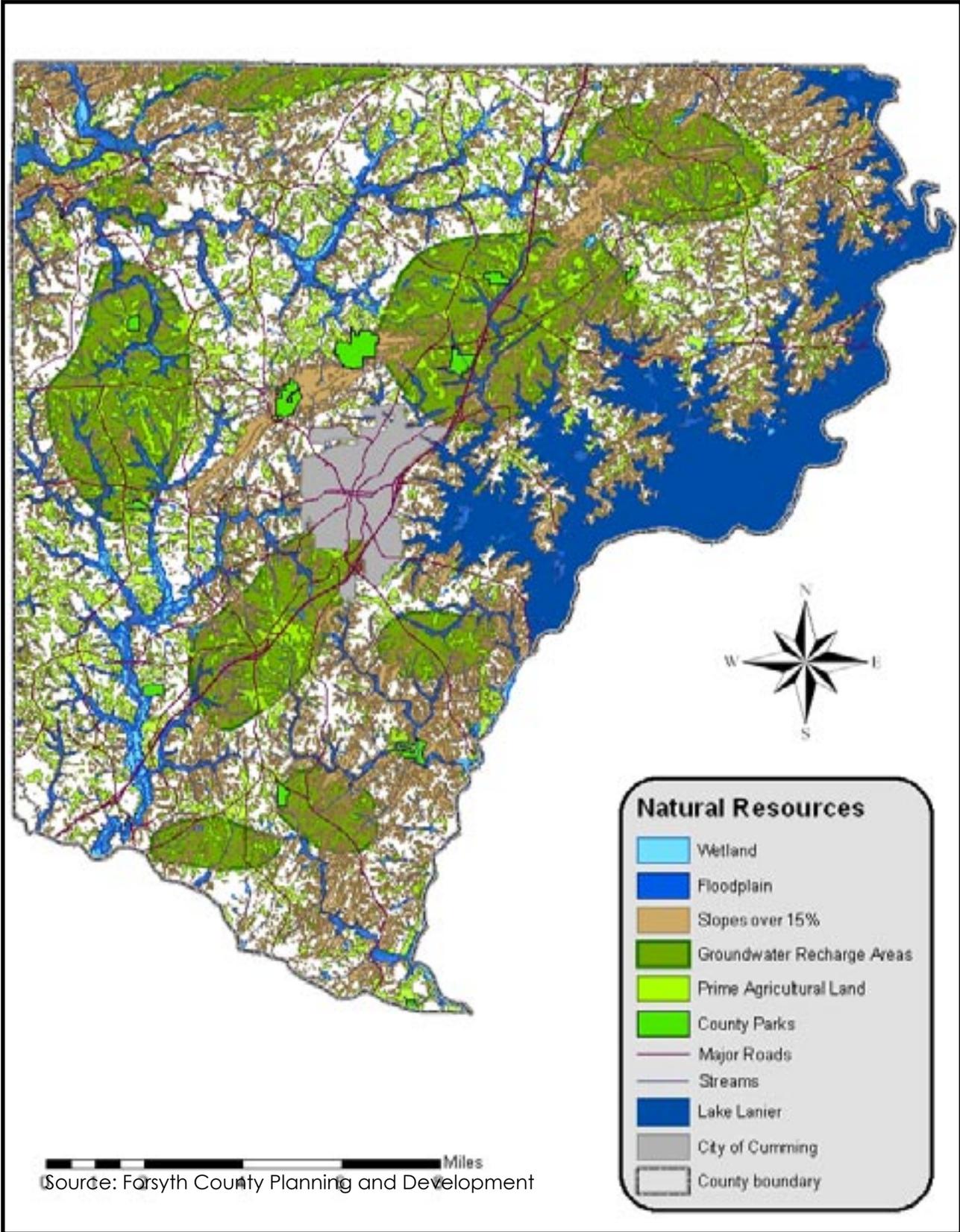
- Additional purchases of land on Sawnee Mountain.

## NATURAL RESOURCES

- Partner with other large-scale residential and mixed use developments to obtain conservation easements.
- Develop pedestrian trails linking recreation sites that will eventually result in a regional trail system.
- Add additional passive use facilities at Poole's Mill Park.
- Acquire land in the southern portion of the county for a new community park and greenway, to include passive use opportunities.

Chapter Ten, the Implementation Program, provides the overall strategy for the comprehensive plan implementation. The policy recommendations listed above are merged and coordinated with the policies of the other elements to form the implementation program. The associated short-term work program designates the actions the county will take in the next five years to achieve these goals. The list is not all-inclusive. There are some actions that may not be addressed due to time, budget and administrative constraints. These items will be included as part of the work program at some point over the twenty-year planning period.

FIGURE 4.8: NATURAL RESOURCES OF FORSYTH COUNTY



## **INVENTORY**

Cultural resources includes a variety of structures and sites that contribute to defining a particular community by contributing to its heritage, its economy, its neighborhoods, and its sense of who they are as a community. These resources are typically historical and archaeological resources that can define a people's way of life both current and past. They can also include those resources that are unique to a particular community, like a landmark or vista.

Cultural resources are important because they provide educational and informational services to the general public and they help us to learn about our past. But they are not just about the past. Such cultural characteristics are important definers of the way of life that exists within the community. They provide a living connection to it for people who reside or work there, as well as for those less frequent visitors, who nonetheless form an image of the place based upon what are often unique resources.

Forsyth County has a rich history which dates back to the Creek and Cherokee Nations. Several books have been written of the history of Forsyth County which outline and discuss in detail the events, places and personalities that took part in shaping and directing the development of this area.

### **Archeological Resources**

Forsyth County was part of territory controlled by the Cherokee Nation until their removal in the 1830s. There have been several archeological sites identified within the county. Listed below is an inventory of archaeological sites:

1. Four miles west of Silver City, a petroglyph on granite rock was found. It is now on display at the University of Georgia.
2. Indian mound and village in bottomlands of Settingdown Creek, along the north bank enclosed in a deep southward loop, about one mile upstream from the mouth of the Etowah River.
3. Indian village at Sawnee Field on Big Creek about 1-1/2 miles north of Cumming, near Sawnee Mountain and Kelly's Mill.
4. Three Indian mounds and possible council circle, out Alpharetta Road west of Cumming, about one mile to the right just before the road forks.
6. Indian village out Highway 20 going from Buford, just across bridge on Chattahoochee River on the south side.
7. Indian village on west bank of Chattahoochee River at Strickland Ferry Bridge between Buford and Cumming, just north of Dave Creek on left of road going north.
8. Indian Seats on the Sawnee Mountain ridge..

9. The Cherokee “Trail of Tears” which started in the Northwest corner of the county near the Etowah River.

### **Historic Resources Survey**

In 1993, the Forsyth County Board of Commissioners sponsored a survey of the County’s historic resources. The *Historic Resources Survey Report* was performed as an initial step to identify and document the county’s rich architectural heritage. The survey lists four hundred and ninety historic properties found in unincorporated Forsyth County. The location and addresses for the sites were recorded and the structures were analyzed for period of construction, physical condition and architectural style. The original use was also determined. Most of the sites were single family residences. Other structures were used for general stores, churches, schools, bridges, and commercial structures. Based on this analysis, 57 individual properties were determined to be eligible for the National Register of Historic Places. The following sections breakdown some of the 57 structures identified into the types of uses they served. Figure 5.1 identifies their location throughout the county. Some of these structures may have been removed since the time the survey was completed. Only two sites are on the National Register of Historic Places. Pooles Mill, a covered bridge on Settingdown Creek was added to the register in 1975. The Fowler House, off Atlanta Highway, was accepted into the register in 2003.

### **Historic Communities**

During the analysis of the Historic Resources Survey Report, an attempt was made to identify districts which may be eligible for National Register listing. Due to the sparsity and limited quality of historic areas, no districts within unincorporated Forsyth were identified as potential historic communities.

### **Historic Residences**

A majority of the historic structures in the 1993 survey were residential. Examples of sites that could be eligible include:

FO-OO-22 *Old Clements Home* - Located on the northwest corner of Peachtree Parkway; circa 1840 Plantation Plain style in excellent condition.

FO-OO-28 Residence - Located on the northwest side of Old Alpharetta Road, north of Caney Road; circa 1912 bungalow in excellent condition.

FO-OO-32 Residence - Located on Bagley Drive at Mathis Airport Road; circa 1890 Folk Victorian style in excellent condition.

FO-OO-135 *Tribble House* - Located on the northwest corner of Evans road and Post Road; circa 1905 in good condition.

FO-OO-170 Residence - Located on the west side of Karr Road; circa 1910 to 1925 Georgian house in excellent condition.

FO-OO-224 *A.B. Tollison Home* - Wallace Tatum Road west of Burnt Bridge Road; circa 1875-1905 no academic style but in good condition.

FO-OO-391 *Terry-Settle House* - Located on Southers Circle; circa 1830 - 1840 the house was quit-claimed to the Georgia Trust’s Revolving Fund for Historic Preservation.

FO-OO-450 *A.D. Kellogg House* - Located on the west side of Jot’em Down Road, north of Meadowbrook Road; circa 1900 - 1909 pyramid cottage in fair condition.

## CULTURAL RESOURCES

FO-OO-451 *Mitchell Martin House* - Located on the north side of Claude Martin Road; circa 1921 new south cottage in fair condition.

FO-OO-458 *Roy Holtzclaw House* - West side of Holtzclaw Road; circa 1889-1899 folk Victorian in excellent condition.

FO-OO-477 *William David Puckett House* - Located on the west side of Campground Road; high style Folk Victorian circa 1890.

FO-OO-485 *Fowler House* - Located on the south side of Atlanta Highway east of Castleberry Road; circa 1910. Added to the National Register of Historic Places in 2003.

### **Historic Commercial**

FO-OO-73 *Chadwick's Store* - Located on Tribble Gap on the northeast corner of Bramlett Road and Spot Road; circa 1860-1866 one room general store.

FO-OO-177 General Store - On the southwest corner of Watson Road and Hurt Bridge Road; circa 1910 one room in poor condition.

FO-OO-234 *Buffington's Tavern* - Originally located on Old Federal Road, the tavern was moved to the Cumming Fairgrounds to become part of a Cherokee Indian Village display. The date of the building's construction is unknown, but the tavern was an important part of Forsyth's history. It was where President James Monroe spent the night while traveling the Federal Highway and the infamous Cherokee Indian James Vann was shot and killed in 1809.

FO-OO-252 *Grogan's Grocery*- Located on Bannister and Namon Wallace Roads, the circa 1910 - 1919 general store served as a gathering place for long-time residents until it was converted into an office in the 1990s.

FO-OO-397 *Bagwell Store* - Located on the west side of Waldrip Road, south of Bryant Road; It was the only store in the area circa 1900.

FO-OO-414 General store - On the northwest corner of Bethel Road and Lake Hollow Drive; circa 1900-1909 in fair condition.

FO-OO-420 General Store - Located on the west side of Little Mill Road; circa 1900-1909, fair condition.

FO-OO-487 Mill/processing/manufacturing facility - Located on Burrus Mill Road north of Brown's Bridge Road; the structure is now a single family dwelling in excellent condition.

### **Historic Institutions**

FO-OO-3 *Brookwood Baptist Church* - Located on the east side of Brookwood Road; circa 1913 High Victorian Gothic style still in use as church.

FO-OO-024 *Old Big Creek Courthouse* - Located on the north side of Hemrick Road; circa 1917 one room courthouse.

FO-OO-108 School - Located on Kelly Circle Road east of Chamblee Gap Road; circa 1920 one room school house.

FO-OO-121 *Victory Post Office* - Located on the north side of Atlanta Highway east of Post Road; circa 1880 in fair condition.

FO-OO-237 *Mt. Tabor Church* - This is the oldest church in the county that still has an active congregation. It was established in 1833.

FO-OO-303 *Hopewell United Methodist Church* - Located on the corner of Hopewell Road and Burrus Road. The circa 1900 church is still in use.

FO-OO-481 *Midway United Methodist Church* - Located on the southeast corner of Atlanta Highway and Francis Circle; circa 1922 in good condition.

FO-OO-410 *Bethel Baptist Church* - Located on Bethel Road south of Brown's Bridge Road; circa 1900-1909 the church has some major additions.

### ***Historic Landscapes***

FO-OO-210 *Pooles Mill* - Crosses Settingdown Creek. Was used as access from the mill to the communities of Heardsville and Frogtown. The original bridge burnt in 1899. The covered bridge that stands today was built in 1901. It was added to the National Register of Historic Places in 1975 and is part of a passive recreation area run by the county Parks and Recreation.

FO-OO-223 *Burnt Bridge Road at Settingdown Creek* - circa 1925 riveted steel, pony truss bridge.

FO-OO-390 *Settles Bridge* - Crosses the Chattahoochee River. Built circa 1930-1939, the bridge replaced the ferry operation run by the Settles family. It was constructed with handmade steel, the decking has been removed so it can no longer be crossed.

## **ASSESSMENT**

Forsyth County recognizes that the preservation and maintenance of archeological sites and historic structures contribute to the cultural heritage of the county and are therefore in the long-term interest of the county. The historic resources survey conducted in the mid 1990s involved the identification and documentation of all buildings, districts, structures and sites which contribute to the historic character and significance of the area. The survey also examined how those resources identified in the inventory benefit the community and any potential threats to their survival. In response to this concern, Forsyth County has adopted regulations in the Unified Development Code concerning the demolition of historic structures. The regulations apply to those seeking to receive land disturbance permits on sites containing historic structures. Decisions still need to be made on how historic structures should be protected. In addition, many of the archeological sites have not been formally documented. The county should take action to protect these sites before they are destroyed.

## **COMMUNITY GOALS**

While the county has begun to work towards the goal of preserving the county's historic resources, there are additional steps that should be taken. These include:

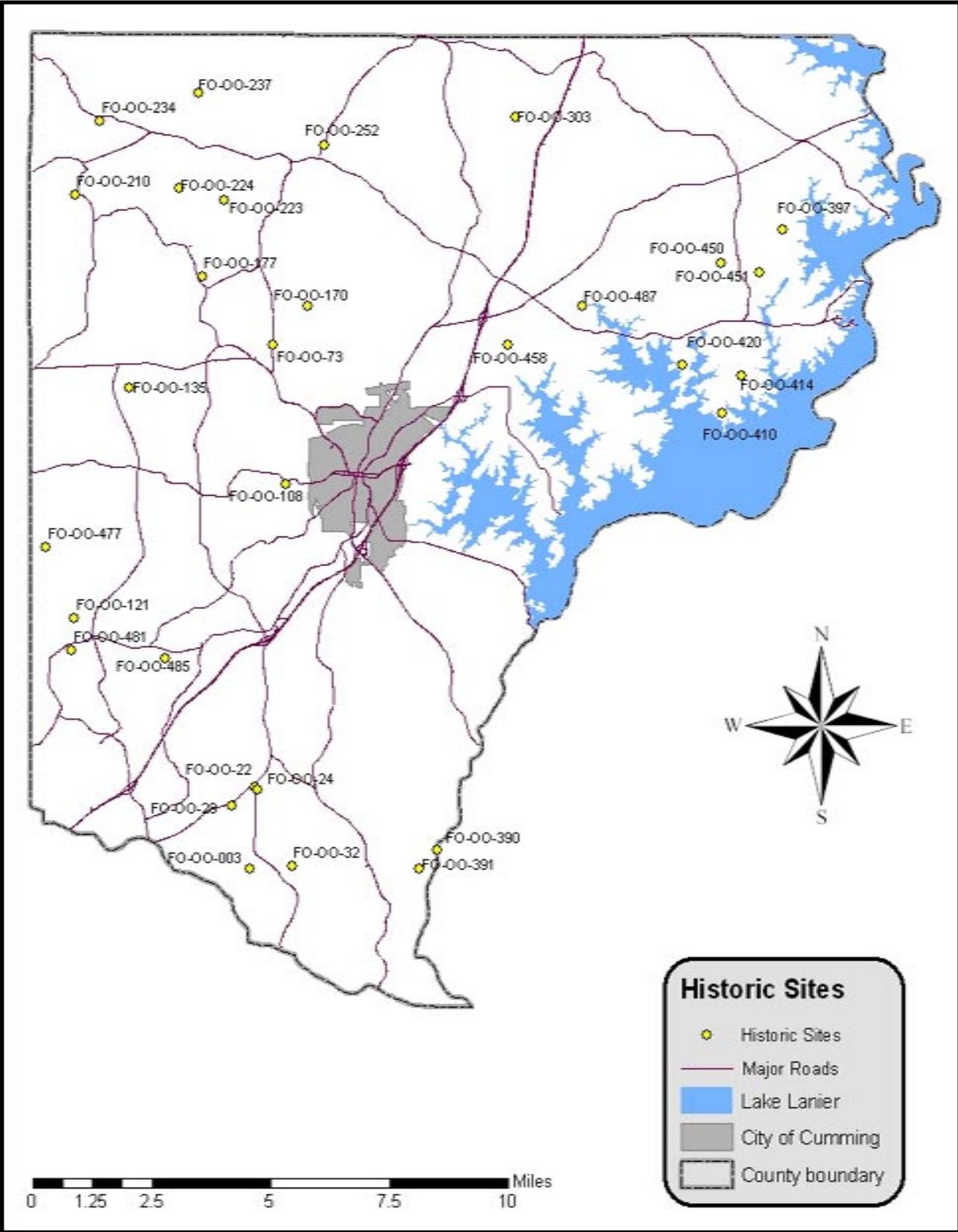
- Adoption of a county-wide historic preservation ordinance in compliance with the Georgia Historic Preservation act of 1980.
- Seek certification as a Certified Local Government under the Historic Preservation Division of the Georgia Department of Natural Resources.
- Investigate preservation incentives such as local property tax freeze or abatement programs.
- Utilize current state and federal programs which provide funding, staff and services in the area of historic preservation.

## *CULTURAL RESOURCES*

- Pursue funding for a survey to identify and document pre-historic and historic archeology in Forsyth County.

Chapter Ten, the Implementation Program, provides the overall strategy for the comprehensive plan implementation. The policy recommendations listed above are merged and coordinated with the policies of the other elements to form the implementation program. The associated short-term work program designates the actions the county will take in the next five years to achieve these goals. The list is not all-inclusive. There are some actions that may not be addressed due to time, budget and administrative constraints. These items will be included as part of the work program at some point over the twenty-year planning period.

FIGURE 5.1: FORSYTH COUNTY HISTORICAL RESOURCES



### INTRODUCTION

Community facilities and services are the foundation of a community. They include essential services such as water treatment and distribution, as well as fire and police protection. They add to the quality of life through schools and parks. They may also shape growth, as development must have access to a network of supporting infrastructure and community facilities, such as road frontage, potable water, and waste disposal. Property without these services generally has a lower value in land planning and development. Areas remote from other community services, such as schools and parks, also are less desirable for development. The availability of infrastructure and community services can literally change the landscape of the community by adding to the developable land supply, or postponing or precluding the development of certain land.

The purpose of the Community Facilities and Services chapter is to examine the positive and negative impact such infrastructure has on the county's land use. This chapter provides an overview of the existing facilities and services available to the Forsyth County community. Following each inventory is an assessment of the adequacy of these facilities to meet the current and future needs of the county and how the availability of these facilities will affect the future growth patterns. The goals for each facility/service type are also provided. These goals were set by the various departments to assure that the county will achieve the level of service needed by the current and future demand of the community.

### WATER AND SEWER FACILITIES

The Water and Sewer Department is in charge of the county's water supply and sewer treatment. The department operates from three facilities. The Forsyth County Administration Building houses the director and the administrative and engineering staff, along with Customer Service, Billing and Meter Services. The Field Operations Center on County Way Road houses the Field and Maintenance staff and is used as the workshop, meter assembly area, warehouse, and work area for the field operations personnel. The Forsyth County Water Treatment Plant on Antioch Road houses its management and operations staff.

The Department employs 60 full time staff (as of 2002) and employs six plant management and operations personnel on a contractual basis, through a private corporation.

#### Water Supply And Treatment

In 1987 the City of Cumming and Forsyth County entered into a formal agreement which defines the service areas of each water system **Figure 6.1**. The contract also established guidelines for a Wholesale Water User's Agreement for the City to supply water to Forsyth County on a wholesale basis. This agreement is good for a period of 25 years and will expire

in 2012. Presently, the county is required by contract to buy just over 4 million gallons per day of treated water. In 2012, when the agreement with the city expires, the county does not expect to renew the contract.

In April 2000, the county brought online the Forsyth County Water Treatment Plant (WTP) which has a current treatable capacity of 11.4 million gallons per day (MGD). The WTP is operated and managed on a contractual basis by Operations Management International (OMI). The county currently has a permit to produce a daily maximum of 16 MGD. In July of 2003, the WTP produced an average of 3.97 MGD, with a daily maximum of 5.66 MGD. The water treated at this plant is supplied by the City of Cumming through a Raw Water Agreement. Ten million gallons per day of raw water withdrawn from the City's Lake Lanier intake facility is available for use at the county's treatment plant. The Raw Water Agreement incorporates a sales and operating cost agreement, and has an open-ended contract period for the length of the agreement to sell raw water to the county. Due to estimated water demand projections, the facility is to be upgraded in 2004. The county also has an estimated 670 miles of water lines throughout the county along with 3 elevated storage tanks, 4 ground storage tanks, and 1 standpipe.

The current raw water pump station shared with the City of Cumming is able to deliver water to the WTP at one of the following flow rates: 6 mgd, 8 mgd, or 10.2 mgd. The WTP produces water to meet the demands of the consumers and fill the storage tank in the distribution system. However, with the current pumping scheme, Forsyth is unable to receive the 12.9 mgd of raw water from the shared pump station. Due to this situation, and the need for a redundant water source, construction of the new raw water pump station and intake is critical to the continued success of Forsyth County in delivering water to its customers. At the current time, the shared raw water pump station cannot deliver enough water for the WTP to operate at the temporary permit capacity.

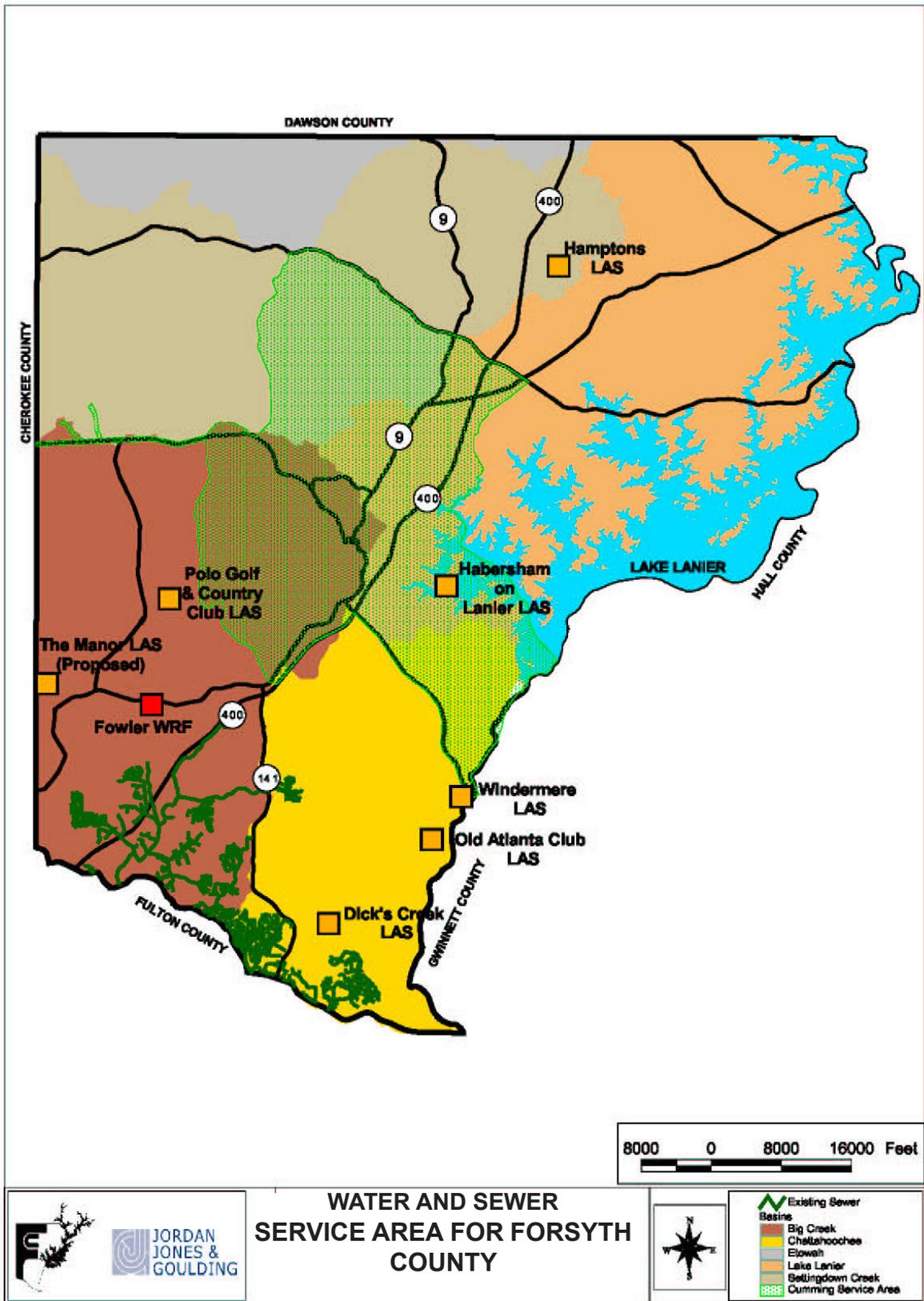
## **Water Supply Assessment**

Currently, the county is taking appropriate measures to ensure water for the future, including high rate filter studies, conservation efforts, and locating potential future water intake sites. The current water treatment plant was originally designed to be re-rated to higher capacities as demands increase. Currently, OMI (the WTP managers) is conducting high-rate studies with rates up to 6 gpm/ft<sup>2</sup> as the first step in obtaining a capacity re-rating by the Georgia Environmental Protection Division (EPD). The GAEPD Minimum Standards allow up to 4 gpm/ft<sup>2</sup> without additional high rate studies. Due to the high quality of the raw water source water (Lake Sidney Lanier), the filters have been designed to operate up to 8 gpm/ft<sup>2</sup>. Higher filter rates should be studied in the future as demands increase to postpone expansion of the water plant to meet peak demands.

Flow projections show that the county should continue expanding its water production capabilities. The following is a summary of each of the proposed milestones.

1. Filter Upgrading - Studies are already in progress. Forsyth County has received a temporary increase to 13.94 mgd for use during the peak summer period while the filter study is in progress. The filter upgrading studies should be continued and a permanent re-rating

FIGURE 6.1: WATER AND SEWER SERVICE AREA FOR FORSYTH COUNTY



requested when the studies are completed.

2. **New Raw Water Intake** - The county water demand may exceed the flow allotted by contractual obligations with the City of Cumming as early as 2004. In order to meet the water demands in the county, the new raw water intake must be upgraded by 2004. Following a temporary pump upgrade in 2003/2004, the next step is for the county to construct a new raw water intake. Typically, a two year construction period and an additional one year design period (including permitting, bidding, and traditional design) would be expected for a structure of this size. In addition, a new raw water main from the raw water intake to the existing WTP will be required. Conceptual design of the raw water intake, pump station, and pipeline was initiated in July 2002. Preliminary design of the raw water station and pipeline should begin in the fall of 2002 to meet this schedule.

3. **New Raw Water Main** - The county will need to examine options for the raw water main routing to the WTP. In addition, the county may be required to obtain additional easements for the raw water main. The design (including securing easements) and construction of the raw water main could be completed in the same time frame as the raw water intake.

4. **Expansion to Eight Filters** - The current projections show that the expansion to a minimum of six filters must be on-line in 2007 to meet the projected maximum day water demands. The expansion will require an upgrade/expansion to the proposed raw water pump station.

5. **Filter Upgrading** - Filter upgrading studies to investigate increasing the filters to 8 gpm/ft<sup>2</sup> should be started in 2010.

## **Sewerage System and Wastewater Treatment**

By the end of 2002, Forsyth County served 4,729 sewer customers. Sewer customer growth will continue to grow strong, as sewer capacity has become available. Sewer customer growth has averaged around 40 new accounts per month.

### **Existing Sewer Service Area**

The Forsyth County Sewer Service Area includes most but not all of the area outside the city limits of Cumming shown on **Figure 6.1** on the preceding page. The service area is divided into drainage basin boundaries. The major drainage basin boundaries include the following:

- *Big Creek Basin*, which is located west of the Cumming Service Area and west of SR 141 to the county line.
- *Chattahoochee River Basin*, which is located south of the Cumming Service Area to the border with Fulton County and east of SR 141 to the border with Gwinnett County.
- *Etowah River Basin*, which is located in the northwestern corner of the county with most of the area north of SR 369.
- *Lake Lanier Basin*, which is located in the northeastern quadrant of the county with SR 306 splitting the majority of the area.
- *Settingdown Creek Basin*, which is split in two by the Cumming Service Area. A portion of this basin is located north of the Cumming service area and includes GA 400 and SR 9. The remaining portion of this basin is located west of the Cumming service area to the boundary with Cherokee County and is roughly south of SR 369 and north of SR 20.

Currently, the Forsyth County Water and Sewer Department provides sewer service to a small portion of their service area. The majority of the existing service is located adjacent to the Fulton County line as a result of the explosive growth in that area and a contractual agreement with Fulton County for treatment of the wastewater. The existing wastewater flows in the southern portion of the county are in small, highly developed basins that flow into Fulton County and are metered at the Fulton County Boundary. This portion of Forsyth County is primarily residential with a few commercial customers. A small pocket is also served adjacent to the Cumming service area (near Bethelview Road) which is served by the City under a contractual agreement.

### **Existing Wastewater Treatment**

Forsyth County has contractual agreements for wastewater treatment with Fulton County and the City of Cumming, as well as ownership of capacity in two private treatment facilities. As part of these arrangements, Forsyth County collects the wastewater from its customers and discharges it into designated sewers which convey the wastewater to the appropriate treatment facility. **Table 6.2** summarizes these agreements.

In addition to the contractual agreements shown in Table 6.1, privately owned treatment facilities also treat wastewater in residential developments. These facilities comprise a significant amount of the existing capacity in the county. There are seven privately owned systems that serve residents. These private systems and their permitted capacities are identified in **Table 6.3**.

All of the privately owned facilities manage their treated effluent through reuse on golf courses and landscaped areas or through land application on dedicated sites. None of these facilities are permitted to discharge to surface waters. In addition to the existing private treatment plants, a new private plant is currently under design. This new plant will be part of The Manor, a golf course development in Fulton and Forsyth Counties. The plant will be located in one of the sub-basins of the Big Creek Basin, located along the western edge of Forsyth County, north of Highway 9. The plant will be owned by Innovative Water Solutions, LLC and has the capacity of 300,000 gallons per day (gpd) available for Forsyth County to purchase. The ultimate total plant capacity would be 500,000 gpd.

The county is completing construction of its first water reclamation facility, the Fowler WRP. This facility is being designed to treat up to 2.5 MGD on a maximum month basis. The effluent from the facility will be reclaimed for irrigation uses on golf courses and landscaped areas. If these uses are not sufficient to manage all the treated flow from the WRP, then the rest of the flow will be irrigated on the county-owned Threatt site, located in the southeastern corner of Forsyth County along the Chattahoochee River. The Threatt site is an undeveloped tract of land that the county purchased in order to land apply wastewater effluent or build a treatment facility. The Fowler WRP is currently permitted by the Georgia Environmental Protection Division (EPD) to treat 1.25 MGD of wastewater on a maximum month basis.

### **Sewer System Assessment**

In an area containing predominantly residential and commercial facilities, as is the case

**TABLE 6.1: SUMMARY OF EXISTING WASTEWATER TREATMENT AGREEMENTS**

System or Facility	Contract Limit or Capacity Owned (MGD)	Current Maximum Month Average Day Forsyth County Flows (MGD)
Fulton County		
Johns Creek	0.75	0.52
Big Creek	1.25	0.72
Total Fulton County	2.00	1.24
City of Cumming		
Bethelview Road/Hwy 9	0.35	0.065
NE Holtzclaw	0.15	0.00
Total City of Cumming	0.50	0.065
Dick's Creek*	0.60	0.00
The Hamptons*	0.50	0.00
Total	3.60	1.305

\* private facilities

**TABLE 6.2: PRIVATELY OWNED TREATMENT SYSTEMS SERVING RESIDENTS**

Facility	Permitted Maximum Month Average Day Flow Capacity (MGD)
Dick's Creek LAS	0.76
Habersham on Lanier LAS	0.11
The Hamptons LAS	0.275
The Manor LAS	New Facility*
Olde Atlanta Club LAS	0.262
Polo Golf and Country Club LAS	0.338
Windermere LAS	0.25

\* Currently under design with a planned capacity of 0.3 MGD available for purchase by Forsyth County.

in the county's Sewer Service Area, the wastewater flows can be directly related to the population. Flows from industrial facilities are not easily related to the population. However, industrial facilities that could generate large wastewater flows are not included in the Forsyth County land use plan. Also, with the concern for a potential water supply shortage in the region, adding any large volume water users within the region is not expected and should be discouraged. Therefore, the wastewater flow projections for the Sewer Service Area can be correlated to the future population projections. If any industrial facilities chose to locate in the Sewer Service Area, the availability of sewer and treatment capacity would need to be evaluated on a case-by-case basis.

### Future Wastewater Flows to Sewer Systems

In Forsyth County, the amount of wastewater that enters the public sewer system is much different from the total amount of wastewater that is generated. Of the 71,000 people currently located in the Sewer Service Area, slightly more than 11,000 are served by the county and

nearly 5,000 are served by private treatment plants. This means that the current sewer system collects approximately 22 percent of the total wastewater generated. The remainder is treated by on-site treatment systems, primarily septic tanks at individual homes.

Goals for providing sewer service in the Sewer Service Area established that, in general, 85 percent of the new population would be sewered while 25 percent of the existing unsewered population would be converted to sewers by the year 2025 at a conversion rate of 5 percent per 5 year increment. However, allowances were made to adjust for portions of the service area that are not expected to develop as rapidly, have low projected population densities, or where the installation of sewers would be more difficult. Therefore, a phasing plan was also established as follows:

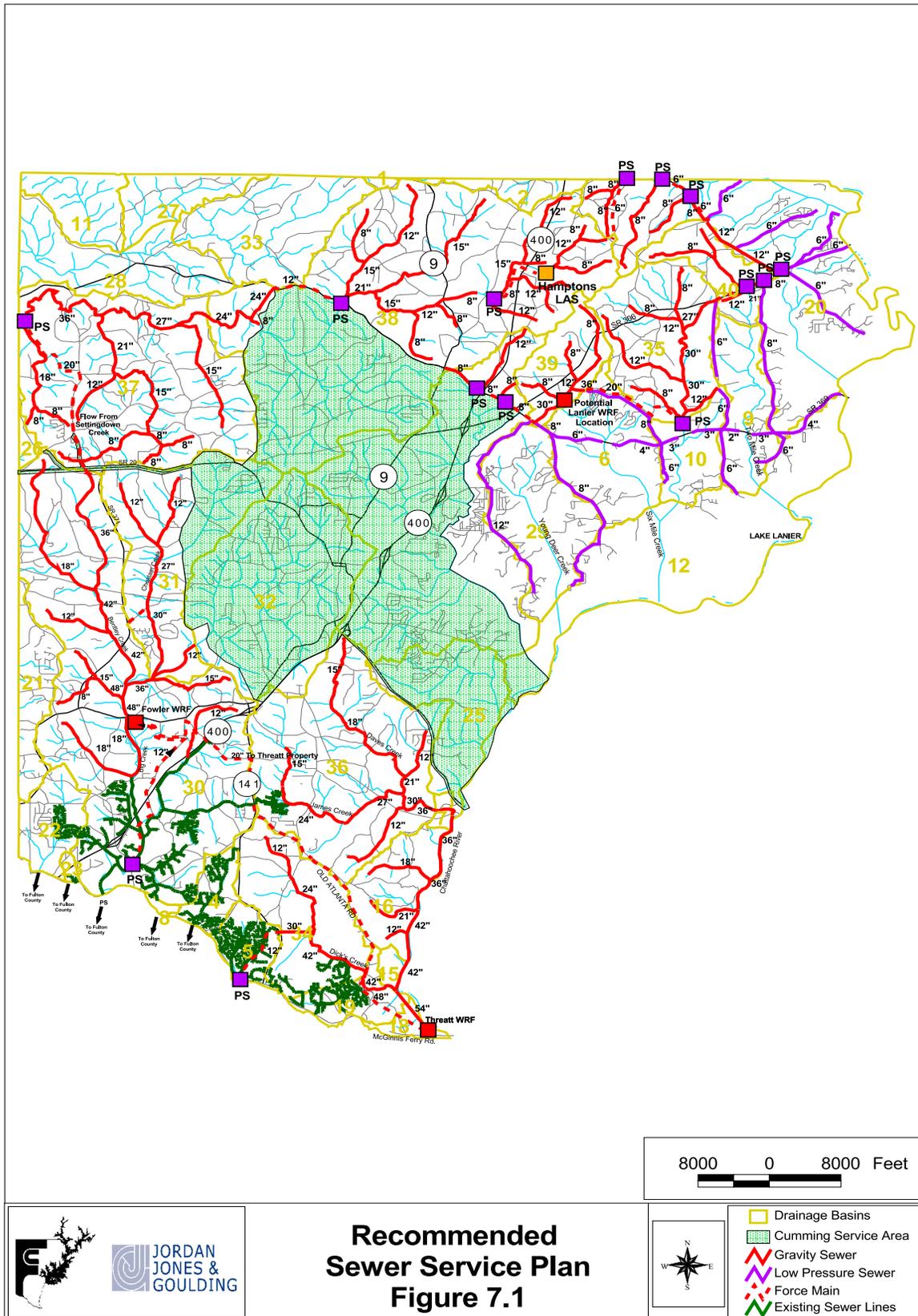
- Big Creek, Chattahoochee River and Upper Settingdown Creek (Basin 38): A goal of 85 percent of the new population sewered beginning in 2005 and remaining constant through 2025 was established for these basins. The existing unsewered population would be converted to sewers at a rate of 5 percent per 5 year increment.
- Etowah River: Only Basins 28 and 33 are expected to have sewer service by 2025 and these were assumed to be private systems, created as a part of the development of a subdivision.
- Lake Lanier: This drainage basin was split into two portions based on the anticipated growth rates. The first group, consisting of Basins 6, 24, 29, 35, and 39, had a goal of 20 percent of the new population sewered beginning in 2005 and increasing to 85 percent of the new population by 2015 and remaining at the same level through 2025. The existing population would be converted to sewers at a rate of 5 percent per 5 year increment beginning in 2010.
- Settingdown Creek: This drainage basin was split into two portions based on anticipated growth rates. Upper Settingdown Creek (Basin 38) was discussed previously. Lower Settingdown Creek includes Basins 26 and 37, which have a goal of 50 percent of the new population sewered beginning in 2010, increasing to 85 percent by 2015 and remaining constant through 2025. The existing population would be converted to sewers at a rate of 5 percent per 5 year increment beginning in 2010.

The total sewered wastewater flow in the sewer service area is expected to increase from 2.2 MGD to 19.7 MGD over the planning period. However, private systems are expected to continue to play a role in Forsyth County. Over time, these facilities will exceed their useful lives and may develop maintenance problems. When this occurs, these private systems could connect to a nearby Forsyth County sewer and take the treatment facility out of service. Conversely, the opportunity may arise for the County to take over the operation of some of the private facilities with the possibility of expanding them and providing additional service in the area.

In December 2002, a Sewer System Master Plan for the Forsyth County Sewer Service

Area was approved by the Forsyth County Board of Commissioners. This Plan presents alternatives and outlines a recommended strategy for the extension and development of the Forsyth County wastewater collection and treatment system. The Plan recommends the Sewer Service Plan shown in **Figure 6.2**.

FIGURE 6.2: RECOMMENDED SEWER SERVICE PLAN (ALTERNATIVE 10)



## **SOLID WASTE MANAGEMENT**

### **Inventory of Waste Disposal**

The Forsyth County Hightower Landfill located on Old Federal Road was closed in July of 2002. During the month of the landfill closing, a privately owned landfill opened its doors to county residents and private haulers for the disposal of household waste, construction and demolition debris, and “white goods”. Forsyth County is host to this privately owned Subtitle D landfill site. The privately owned site is owned by Advanced Disposal/Federal Road, LLC d/b/a Eagle Point Landfill (EPLF). The site is located on Federal Road, adjacent to the closed county landfill site. Total site comprises of 700 acres, with a 163-acre landfill footprint. The State, Georgia Environmental Protection, Land Protection Branch monitor this site. EPLF has the most current federal & state environmental controls in place to protect the environment. EPLF has two agreements with Forsyth County. One agreement provides a preferential disposal rate for ten years for county directed facilities. The second agreement, as required by state law, provides a host fee to Forsyth County. The host fee paid to Forsyth County is calculated at the rate of \$1/per ton for each ton deposited in the landfill site. EPLF also provides tonnage deposited in the landfill site to the Georgia EPD.

In February of 2003, Greenleaf Recycling established themselves as a privately owned construction and demolition landfill. The landfill will accept appropriate materials from private waste haulers and individual county residents. Greenleaf landfill has one disposal area for construction and demolition materials and another for “earth-like” products such as plant debris, tree limbs and leaf litter. This landfill is located on Highway 306 (Keith Bridge Road), adjacent to American Proteins.

### **Recycling Collection**

The County has two manned recycling centers where residents can bring their recyclable material free of charge and residential household waste for twenty-five cents a bag. The Tolbert Street Recycling Center is located at 351 Tolbert Street in downtown Cumming. The Old Atlanta Road Recycling Center is located at 3678 Old Atlanta Road in the south end of the county. Hours for both centers are Monday through Saturday 7:30AM to 5:00 PM and both close on major holidays. Forsyth County hauls the solid waste from the centers to Eagle Point Landfill and the recyclable items are transported to private material recovery and processing facilities.

In 2002, the Forsyth County Recycling Centers collectively received an average of 200 tons of household waste per month, 2090 lbs of aluminum per month, 62,154 lbs of newspapers per month, 10,757 lbs of plastic, 30,128 lbs of glass, 7,740 lbs of office paper, 19,945 lbs of magazines, 6,714 lbs of phonebooks, 38,500 lbs of cardboard, 2,090 lbs of aluminum cans, 3,150 lbs of tin/steel cans, and 718 gallons of oil.

### **Inventory of Waste Collection**

At present, there are seventeen private collection companies. These companies collect household waste and industrial waste throughout the County. Out of the seventeen, seven offer recycling. The City of Cumming has one (1) waste and industrial waste hauler

and do not offer recycling. These collection companies are required to obtain a county business license and a permit to transport waste to a landfill. **Table 6.3** contains a list of the companies that transport waste in Forsyth County\*. The locations of the landfills and recycling centers are shown in **Figure 6.3**.

**TABLE 6.3: WASTE TRANSPORT COMPANIES**

Company	Residential-Recycling	Commercial	Industrial	C&D
B&B Waste	<input type="radio"/> yes			
BFI	<input type="radio"/> yes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Caine Sanitation	<input type="radio"/> no			
Heard Sanitation	<input type="radio"/> no			
Holbrook	<input type="radio"/> yes	<input type="radio"/>		<input type="radio"/>
Jones Sanitation	<input type="radio"/> no			
Longhorn Sanitation	<input type="radio"/> no			
McCoy Sanitation	<input type="radio"/> no			
Patriot Waste	<input type="radio"/> yes	<input type="radio"/>		<input type="radio"/>
United/Robertson	<input type="radio"/> yes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mooney	<input type="radio"/> no			
Whitemire	<input type="radio"/> no			
BullDog		<input type="radio"/>		<input type="radio"/>
Evans		<input type="radio"/>		<input type="radio"/>
Sanitation Solutions	<input type="radio"/> yes			
Waste Mgt	<input type="radio"/> yes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
G&G		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

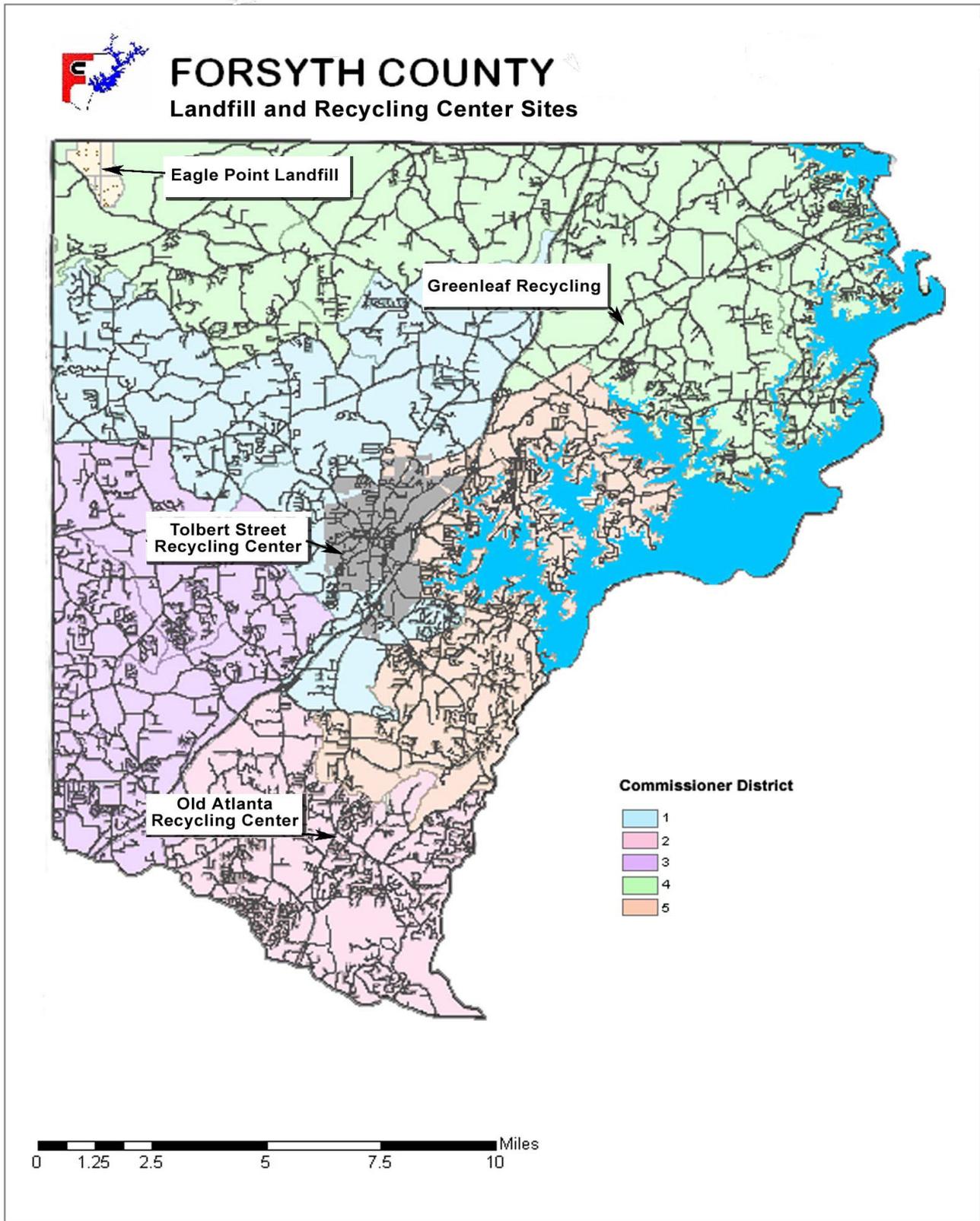
\* Companies listed are known entities; there may be other companies that are not listed

### Inventory of Waste Reduction

At present, Forsyth County’s waste reduction efforts at two (2) county recycling centers include the recycling of newspapers, office paper, phonebooks, magazines, cardboard, aluminum cans, steel/tin cans, #1 and #2 plastic, glass, motor vehicle oil, alkaline batteries, rechargeable batteries and printer cartridges. Additionally, 21 of 23 county schools and six of the Forsyth County Fire Stations accept mixed paper and newspaper for recycling. Several grocery stores in the county accept paper bags, plastic bags and polystyrene trays for recycling. Several office supply stores in the county accept printer cartridges for recycling and allow customers to return polystyrene peanuts. The county Home Depot and Lowe’s Home Improvement Stores accept rechargeable batteries for recycling. The Forsyth County administration building and courthouse recycle all mix papers, office paper, cardboard, magazines and phone books.

To successfully reduce our solid waste, the residents of the county have the opportunity to be educated on the importance of natural resources, conservation and the benefits of recycling. The education programs can be provided to businesses, schools, civic organizations and county citizens. Information and guidelines regarding source reduction and recycling is available from the Resource Coordinator of Keep Forsyth County Beautiful.

FIGURE 6.3: LANDFILL AND RECYCLING SITES



Data for municipal solid waste and recycling collected in Forsyth County are received from Eagle Point Landfill and the Forsyth County Recycling Centers. This data can be helpful for assessing the waste reduction needs of the county. Currently waste haulers who work in the county are not required to report the amount of waste or recycled materials they collect from Forsyth County residents.

The county is currently completing the Solid Waste Management Plan as a separate document. The document was prepared in accordance with the Georgia Comprehensive Solid Waste Management Act outlined in the Minimum Standards and Procedures for Solid Waste Management.

## GENERAL GOVERNMENT

### Inventory

**Forsyth County Administration Building** - Located at 110 East Main Street. The administration building houses the following departments:

Voter Registration

Board Of Commissioners

Administration

Finance

Law Department

Information Systems

Human Resources

Tax Commissioners

Tax Assessors

Public Relations

Public Buildings

Planning & Development

Planning & Development, Inspections

Planning & Development, Business License

Engineering Department

Water Business Office & Engineering

Forsyth Clean and Beautiful

**Forsyth County Courthouse** - Located at 100 Courthouse Square. The courthouse contains the following:

Superior Court

Clerk of Court

District Attorney

State Court

State Court Solicitor

Sheriff Court Services

**Forsyth County Courthouse Annex** - Located at 112 West Maple Street. The annex building contains:

Probate Court

Juvenile Court

Clerk of Court

Victim Witness Assistance

District Attorney's Office

**Purchasing Department** - Located at 118 Castleberry Rd.

**Forsyth County Government Building** - Located on 101 East Main Street. Contains the following:

Pre-Trial Services

Sheriff Dept. Office Administration Dept.

Public Relations Officers

CASA Offices

**Forsyth County Magistrate Court** - Located at 121 Dahlonega Street.

**Forsyth County Extension Service** - Located at 101 E. Maple Street. Also houses the Natural Resources and Soil Conservation Service and Emergency Management Service.

**Forsyth County Sheriff's Department Jail Detention Center** - Located at 202 Veterans Memorial Blvd/202 Old Buford Road

**Parking Deck** - 246 parking spaces in downtown Cumming.

**Sharon Spring Offices Tag Department** - 1950 Sharon Road.

**Forsyth County Department of Family & Children** - 426 Canton Hwy.

**Forsyth County Mental Health** - 125 North Corner Parkway.

**Forsyth County Public Health** - 428 Canton Hwy.

**Forsyth County Building Shop** - 351 Tolbert Street.

**Forsyth County Senior Citizens Center** - 595 Dahlonega Street

**Forsyth County Fleet Maintenance** - 4140 County Way

**Forsyth County Recycling Center** - 351 Tolbert Street.

**Forsyth County Recycling Center** - 3678 Old Atlanta Road

**Sheriff Dept. Firing Range** - 524 Haw Creek Road

## **Assessment**

As the county's population continues to grow, there will be a demand for more government services. This will lead to an increase in government employees and building space. The county is currently conducting an audit to project facility needs to 2018.

## **SHERIFF'S DEPARTMENT**

The Capital Improvements Element provides an inventory and assessment of the Sheriff's Department.

## **FIRE PROTECTION AND EMERGENCY MANAGEMENT SYSTEM**

Fire protection for the County is provided by the Forsyth County Fire Department. The fire department is a combination department with both paid and volunteer firefighters. At present there are 78 career firefighters and 100 plus volunteers. Also there are 20 employees working in administration.

The Forsyth County Fire Department operates 15 fire stations throughout the County. Ten of these stations are staffed by paid firefighters along with volunteers and five stations are staffed by volunteers only. They also provide fire protection for the City of Cumming. Plan review is handled by the Deputy Fire Marshall at Headquarters. The Fire Department Training Division consists of a Training Chief, a part-time Fire Instructor, and a part-time Emergency Medical Instructor. The Training Division is located within the Fire Department Headquarters on Settendown Road. Training facilities include: a classroom for small classes, an auditorium for large classes, library, 2 story live fire training facility, 5 story training tower (for repelling, search/rescue, etc.), a vehicle fire simulator, above/below confined space facilities, ventilation simulator, and a drafting pit.

The Forsyth County Swiftwater Rescue Team is currently operated out of Station 15 on Buford Highway. The team comprised of three engine companies and a rescue. They cover river related rescues on the Chattahoochee River from Buford Dam to McGinnis Ferry Road. There are 23 technician level team members. Rescue equipment includes an IRB or (Inflatable Rescue Boat), with a jet driven 35 horsepower motor and enough hardware to operate three separate rescue operations at once.

The Forsyth County Fire Safety Division is in charge of fire education programs. The Division's main emphasis gravitates towards school age children. Along with the basic fire safety programs, we have our "Fire Safety House". With this house we teach children what to do in case there is a fire in their home. The FDFC offers free smoke detectors and installation to senior citizens and lower income families. The staff is also ready and willing to assist any member of the community by checking their smoke detectors and addressing any concerns.

Other programs include:

- Church fire prevention and arson awareness
- Pre-School fire safety
- Juvenile Fire Setters Program
- Fire Station tours
- Fire safety for Senior Citizens
- Courtesy home fire inspections
- Fire extinguisher training

The Rural-Metro Ambulance Service is the emergency ambulance company serving the county. There are four 24-hour vehicles on call and a full-time staff of 12. The EMS service is based out of the fire stations spread across Forsyth County.

The Fire Station and EMS locations are shown on Figure 6.2, and descriptions and coverages are listed below:

***Forsyth County Fire Headquarters/Administration***  
3480 Settendown Road

Attached to Fire Station 12. Located at this facility are the Fire Maintenance Shops, the Fire Prevention Bureau, and Fire Training Division.

**Station 1**

212 Veterans Memorial Blvd.

This station has 24 hour coverage with 3 firefighters per 24 hour shift. Apparatus housed at this station include: 1 engine, 1 –75 foot tower/ladder, & 1 light/air truck. Battalion 1 operates from this station along with 1 Rural-Metro Ambulance.

**Station 2**

2633 Atlanta Highway

This station has 24 hour coverage with 2 firefighters per 24 hour shift. Apparatus housed at this station include: 1 engine, 1 tanker and 1 Rural-Metro Ambulance.

**Station 3**

4125 Dr.. Bramblett

This station has 24 hour coverage with 2 firefighters per 24 hour shift. Apparatus housed at this station include: 1 engine and 1 tanker.

**Station 4**

3805 Canton Highway

This station has 24 hour coverage with 3 firefighters per 24 hour shift. Apparatus housed at this station include: 1 engine and 1 tanker.

**Station 5**

2425 Holtzclaw Road

This station has coverage by volunteer firefighters. A 24 hour staffed station will respond if volunteers are unavailable. Apparatus housed at this station include: 1 engine and 1 tanker.

**Station 6**

5885 Highway 9 North

This station has coverage by volunteer firefighters. A 24 hour staffed station will respond if volunteers are unavailable. Apparatus housed at this station include: 1 engine and 1 tanker.

**Station 7**

5775 Dahlonga Highway

This station has coverage by volunteer firefighters. A 24 hour staffed station will respond if volunteers are unavailable. Apparatus housed at this station include: 1 engine and 1 tanker.

**Station 8**

6015 Keith Bridge Road

This station has 24 hour coverage with 2 firefighters per 24 hour shift. Apparatus housed at this station include: 1 engine and 1 tanker.

**Station 9**

7385 Browns Bridge Road

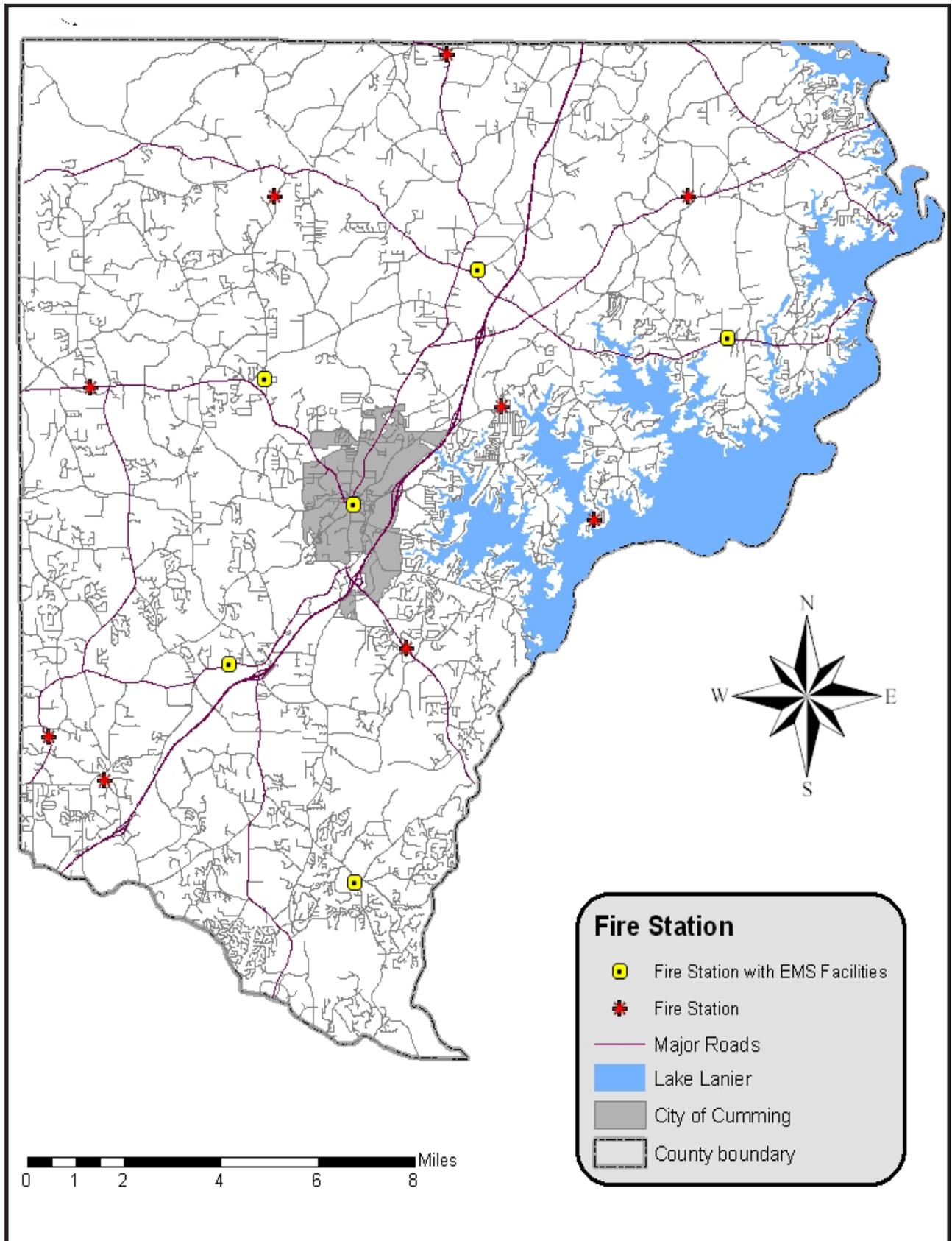
This station has 24 hour coverage with 2 firefighters per 24 hour shift. Apparatus housed at this station include: 1 engine, 1 tanker, 1 service truck, and 1 Rural-Metro Ambulance.

**Station 10**

3680 Old Atlanta Road

This station has 24 hour coverage with 3 firefighters per 24 hour shift. Apparatus housed at this station include: 1 engine, 1 tanker, and 1 Rural-Metro Ambulance.

FIGURE 6.4: FORSYTH COUNTY FIRE STATIONS AND EMS



**Station 11**

8115 Lanier Drive

This station has coverage by volunteer firefighters. A 24 hour staffed station will respond if volunteers are unavailable. Apparatus housed at this station include: 1 engine.

**Station 12**

3480 Settendown Road

This station has 24 hour coverage with 3 firefighters per 24 hour shift. Apparatus housed at this station include: 1 engine, 1 heavy rescue unit, 1 brush truck, 1 pontoon boat with dive trailer, and 1 Rural-Metro Ambulance.

**Station 13**

1525 Dr. Bramblett Road

This station has coverage by volunteer firefighters. A 24 hour staffed station will respond if volunteers are unavailable. The ambulance that responds from this station is staffed by Rural-Metro and provides 24 hour coverage. Apparatus housed at this station include: 1 engine, 1 service truck, and 1 Rural Metro Ambulance.

**Station 14**

800 McFarland Road

This station has 24 hour coverage with 3 firefighters per 24 hour shift. Apparatus housed at this station include: 1 engine, 1-100 foot ladder truck, and 1 Hazardous Material truck and trailer.

**Station 15**

1525 Buford Highway

This station has 24 hour coverage with 3 firefighters per 24 hour shift. Apparatus housed at this station include: 1 engine and 1 swift water rescue truck and boat.

**Assessment**

The Capital Improvements Element provides an assessment of the Fire Department and Emergency Management System.

## RECREATION FACILITIES

The Parks and recreation Department oversees all recreational facilities in the county. The Department completed a Comprehensive System-Wide Recreation Master Plan for the years 2001 through 2006. It includes short-term guidelines for upgrading existing recreation facilities and developing new facilities and activities to meet the needs of the community.

### Recreation Sites

Within Forsyth County there are eight developed recreation sites and four undeveloped recreation sites owned by Forsyth County and operated by the Parks and Recreation Department. The following paragraphs give a description of each parks, and their locations are shown in **Figure 6.6**.

#### ***Pool's Mill Park***

Poole's Mill Park is a passive use, historic neighborhood park located on Poole's Mill Road close to SR 369 in the northwest portion of the county. Constructed in 1995, Poole's Mill Park occupies a land area of approximately 10 acres. The park is devoted entirely to passive recreation and utilization is low to moderate.

The park is located on a creek and includes a recently restored covered bridge, a walking trail, creek access, a garden area with benches and a monument, playground, a covered pavilion with picnic tables and cooking grills, a horseshoe pit and restrooms. A portion of the site remains undeveloped.

#### ***Bennett Park***

Bennett Park, located on Burriss Mill Road is the county's oldest recreation site, constructed in 1978. The site is 30 acres and is devoted to active use. Facilities within the park include: five youth baseball/softball fields, one football field, two tennis courts, a playground & picnic pavilion.

#### ***Central Park***

Central Park, built in 2001, with SPLOST funding, is an 85 acre dynamic sports complex providing a variety of recreational opportunities. In the planning of the park, the Board of Commissioners recognized the need for a large, safe and easy-access playground. The result was a 1 +/- acre playground facility with safe play structures for all ages. The playground is one of the largest in the South. The Recreation Center opened in January, 2003 and provides Forsyth's first indoor activity center. Facilities at the park include:

Five youth baseball/softball fields, four adult softball fields, three soccer fields, eight tennis courts, a twenty-seven hole disc golf course, a playground, picnic pavilion, & recreation center. The recreation center includes two gymnasiums, fitness area, mezzanine walking area, game room, arts & crafts room, dance room, community room with kitchen.

#### ***Coal Mountain Park***

Located adjacent to Settingdown Road close to GA 400, Coal Mountain Park is a 26 acre site that is approximately ten years of age. Facilities include

eight youth baseball/softball fields, one soccer field, two tennis courts, two playgrounds, a walking trail & picnic pavilion.

### ***Midway Park***

Located on Post road in western Forsyth County, Midway Park is a 46 acre site constructed in 1985. Except for two acres, this park is devoted to active use. Midway Park contains baseball/softball fields, a football field, batting cages, a multi-purpose field, basketball and tennis courts, a large covered pavilion, community building, a playground and picnic area, a small nature trail, and support facilities. There are 20 acres of additional undeveloped land adjacent to Midway Park.

### ***Sharon Springs Park***

Constructed in 1994, Sharon Springs Park was the first sports complex in the county and was built to provide for the remarkable growth the county had undergone. Built with SPLOST funding, the park has had significant additions- a community building to answer indoor programming needs, day camps and cultural activities, and a football/soccer concession building. SSP remains the most consistently used park in the county.

### ***Sawnee Mountain Park***

Sawnee Mountain Park is defined by its spectacular view of Sawnee Mountain. Built in 1998, this 44 acre park was designed as a sports complex. In 2000, a large playground and community building was added. Facilities include: eight youth baseball/softball fields, one senior baseball field, one football field, one soccer field, outdoor basketball courts, four tennis courts, a playground, walking trail, picnic pavilion, community building/kitchen.

### ***Sawnee Mountain Preserve***

750 acre site that is presently being developed for walking/hiking trails, restrooms & pavilion and parking. The park will blend the scenic surroundings and emphasize the cultural history of the area.

### ***South Forsyth Soccer Complex***

This 31 acre park opened in 2003. It has four lighted soccer fields and one practice field.

### ***Chestatee Community Building***

The community building is the only special use area in Forsyth County. The building is located on a two-acre site on Keith Bridge Road and is used approximately 12-14 times per year. The building contains one meeting room, a kitchen and restrooms.

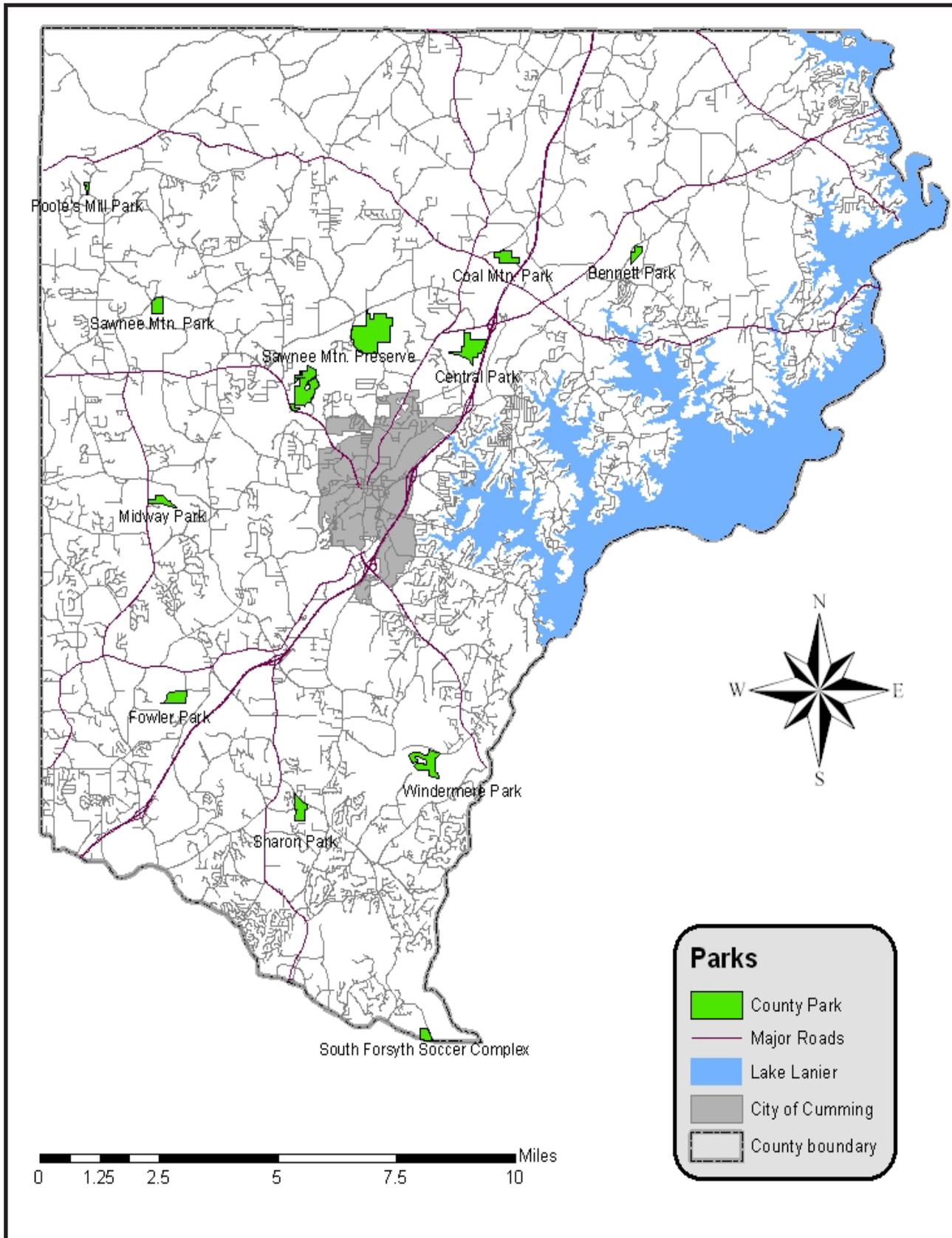
### ***Undeveloped Parks***

There are two park sites that have been acquired but not developed yet by the Parks and Recreation Department. One 87 acre tract is located in the Windermere mixed-use development. It is being master planned as a community park, with approximately 22 acres to be developed for active use and the remaining 65 acres will be permanently protected as open space under the Forsyth County Greenspace Program.

## *COMMUNITY FACILITIES*

The other site is adjacent to the future Fowler Water Treatment Facility. The 60 acre tract is anticipated to be developed as a community park, to include a wide range of both active and passive use facilities.

**FIGURE 6.5: FORSYTH COUNTY PARKS**



**School Recreation Areas**

There is no universal agreement in place with the Forsyth County School Board for joint-use of all school recreation facilities by the Parks and Recreation Department. Instead, joint-use agreements are negotiated with individual school Principals' for use of school recreation areas. At present, the Parks and Recreation Department utilizes facilities at eight school sites throughout the county. School recreation areas and the facilities used are as follows:

***Midway Elementary School***

Gymnasium is used for gymnastics programs.

***North Forsyth Middle School***

One indoor basketball court is used for adult men's basketball.

***Otwell Middle School***

Indoor multi-purpose court is used for adult volleyball (two courts) and adult men's basketball.

***South Forsyth Middle School***

Gymnasium is used for youth basketball.

***Vickery Creek Middle School***

Gymnasium is used for gymnastics programs.

***Central Forsyth High School***

The old gymnasium is used for youth basketball.

***North Forsyth High School***

Gymnasium (one court) is used for volleyball.

***South Forsyth High School***

Gymnasium (one court) is used for youth basketball.

***Corps of Engineers Recreation Areas***

Within the Forsyth County portion of Lake Lanier, the COE maintains over 600 acres of recreation sites. Approximately of this acreage is devoted to campsites and day use facilities.

The camping areas include walk-in campsites, showers, boat ramps, playgrounds, group camping areas, picnic tables, swimming areas, restrooms and support facilities. All facilities are accessible to the handicapped.

Day use areas consist of boat ramps, playgrounds, picnic tables, restrooms and support facilities. Some of the day use areas include beaches and permit swimming. Overnight camping is not permitted in day use areas.

## **Recreation Programs**

The Forsyth County Parks and Recreation Department offers a wide range of athletic and non-athletic programs to residents and non-residents of the county. Program offerings are well publicized in the Parks and Recreation Department's brochure, which is published every four months. This brochure contains a complete listing of program offerings including a description of each program, age groups, locations, times, fees, and registration forms.

### ***Youth Athletics***

Youth athletic programs are offered on a year around basis and utilize county parks and school athletic facilities. All programs are coordinated through the Parks and Recreation Department and utilize volunteers in the capacity of coaches and team assistants.

Athletic programs for youth generally include ages five through early teen years and include baseball, softball, soccer, football, tennis, basketball, gymnastics and cheer leading. Youth baseball and softball clinics are also offered on a seasonal basis.

The majority of youth athletic programs have not as yet reached capacity. The primary exception is the youth soccer program that is presently at enrollment limits. The gymnastics program uses a wait-list for participants.

### ***Adult Sports***

The county's adult sports program includes organized activities and league play for men's, women's and coed teams. These programs utilize county park sites and indoor facilities at several schools.

Sports programs offered for adult participation include: softball, flag football, basketball, indoor/outdoor volleyball and tennis (ALTA/USTA and Inner county Leagues). None of the adult sports programs are presently at enrollment capacity.

### ***Senior Citizens***

The Parks and Recreation Department provide several programs for seniors. These programs are passive in nature, and no active senior sports programs are presently being offered. Senior's programs are generally offered at Midway Park and include bingo, board and card games, arts and crafts instruction and covered dish luncheons. An additional feature of the county's senior's program is periodic bus trips for sightseeing and shopping. Senior citizen program enrollment has not yet reached capacity.

### ***Camps***

The County's camp program is two-phased. Camp offerings include Summer Day Camp for children and special interest camps focusing on sports and arts and crafts.

The summer Day Camp program is offered on a first come, first serve basis and is sometimes over-subscribed. The Summer Day Camp program consists of approximately six weekly sessions and is held at Midway Park.

Special interest camps are also held during summer months at county parks and at school recreation sites, the focus of the special interest camps includes tennis, golf, softball, cheer leading, drama, clay modeling, art introduction, history, safety and other activities as interest dictates.

**Art, Culture and Special Interest Programs**

The Parks and recreation Department offers many art, cultural and special interest programs on a seasonal basis. These programs are popular and some require use of a wait list due to interest levels.

Programs offered in these areas include art instruction (drawing, acrylics, clay, Christmas and nature crafts, fabric design stone design, basket weaving, painting, decoupage, quilting, tatting, home decoration and candy making) and dance (clogging, creative dance, ballroom, swing and shag). Special interest programs include kid’s cooking, kid’s night out, horseback riding, dog obedience, first aid/ CPR and coaches clinics and certification programs.

**Special Events**

The Parks and Recreation Department sponsors several county wide special events during the year. These are popular and well attended by all age groups. Some of the more popular special events include the Special Olympics, County-Wide Field Day, the County-Wide Track Meet and the “Bark-In-The-Park” dog show event.

**Assessment of Recreational Facilities**

An assessment of the county’s recreational facilities is included in the Capital Improvements Element.

**PUBLIC HEALTH FACILITIES**

Forsyth County residents have a number of health facilities available to them. Within the City of Cumming limits at 1200 Baptist Medical Center Drive, Northside Hospital–Forsyth (formerly Baptist Medical Center) is a 41-bed acute care hospital. Northside Hospital–Forsyth has a staff of more than 400 employees and 175 physicians and serves Forsyth, Dawson, North Fulton, west Gwinnett, east Cherokee and parts of Hall counties. The facility has ICU, certified trauma emergency room, inpatient and out-patient surgery, radiology and life flight unit. Next to the hospital is a medical office building which houses a cardiac and physical rehabilitation center, home health services, hospice, and ministry.

Other hospitals in the area include:

Northwoods Medical Specialists

1230 Bald Ridge Marina Road. This health care facility offers a wide range of diagnostic services, affiliated physician specialists and community health education classes.

#### Lanier Park Hospital

275 White Sulphur Rd., Gainesville. Lanier Park Hospital is an acute care facility offering a variety of outpatient procedures, 24 hour emergency room, MRI, neurosurgery, pulmonary medicine, pain management and women's health.

#### North Fulton Regional Hospital

3000 Hospital Blvd., Roswell. This is a full-service, 167 bed hospital with a women's health center, imaging center, level II adult trauma center, pain control center, critical care, cardio unit and sleep disorder center.

#### Northeast Georgia Medical Center

743 Spring Street, Gainesville. A full service hospital with in and out patient services, a cancer care unit, cardiac rehabilitation, home health services, mental health care, women's health, surgery and diabetes care.

#### Northside Hospital - Cherokee

201 Hospital Road, Canton

#### Northside Hospital - Sandy Springs

3400 Old Milton Parkway, Alpharetta

#### Chestatee Regional Hospital

227 Mountain Drive, Dahlonega

The Forsyth County Health Department is a referral and basic screening facility. They offer a variety of services including family planning, WIC, a woman's clinic, screening for HIV and STDs, screening for diabetes, giving shots and testing for tuberculosis. The department's goal for expanding outreach programs has been met through the hiring of a new nurse and going out into the community and to businesses to test for high blood pressure, diabetes and low blood sugar.

The Forsyth County Mental Health Department has a medical facility for mental health and a rehabilitation center. They also offer classes to educate people about life skills, substance abuse and anger management.

Forsyth County is one of only two counties in Georgia that have more than 100,000 residents and less than 100 beds available in their local hospital. As the population continues to grow, the area hospitals will need to grow as well. Additional beds will be needed as well as an expansion of the current emergency department space, laboratory and inpatient pharmacy. The county's health departments will also need to expand as the demand for services increases.

## EDUCATIONAL FACILITIES

### Public School System

The Forsyth County Board of Education is the governing body of the Forsyth County School System. The primary role of the Board is the legislation of the school system politics, which are executed under the direction of the school Superintendent. The Forsyth County Board of Education consists of five members who are elected at-large to staggered, four-year terms representing individual districts. Currently, there are twenty-three school facilities including fourteen primary/elementary schools, five middle schools, three high schools and one alternative school. In addition, there are twelve future schools planned across the county. The locations of the existing and proposed school sites are presented on **Figure 6.4**. For the 2002-2003 school year, five of the county's schools were over capacity. In **Table 6.13**, it is projected by the School Board that nine of the County's thirty-three schools will be over capacity.

The Forsyth County school system maintains a high standard of excellence. All 23 of the existing schools are accredited by the Southern Association of Colleges and Schools and have exceeded the standards as defined and measured by the Georgia Department of Education. Seven schools are Georgia Schools of Excellence including: Chattahoochee, Midway and Big Creek elementary schools; two middle schools: North Forsyth and Otwell; and two high schools: Forsyth Central and North Forsyth. The Schools of Excellence Program began in 1984. The nomination process focuses on several vital areas: student focus and support; school organization and culture; challenging standards and curriculum; active teaching and learning; professional community; leadership and education vitality; school, family and community partnerships; and indicators of success. In 2001, Big Creek Elementary was named a National Blue Ribbon School. Otwell Middle was also named a National Blue Ribbon School and a Georgia School of the Future. North Forsyth High School is one of six high schools in the nation to be recognized as "Preparing America's Future" under the United States Department of Education's New American High Schools Program.

### SECONDARY & ELEMENTARY (PRIVATE)

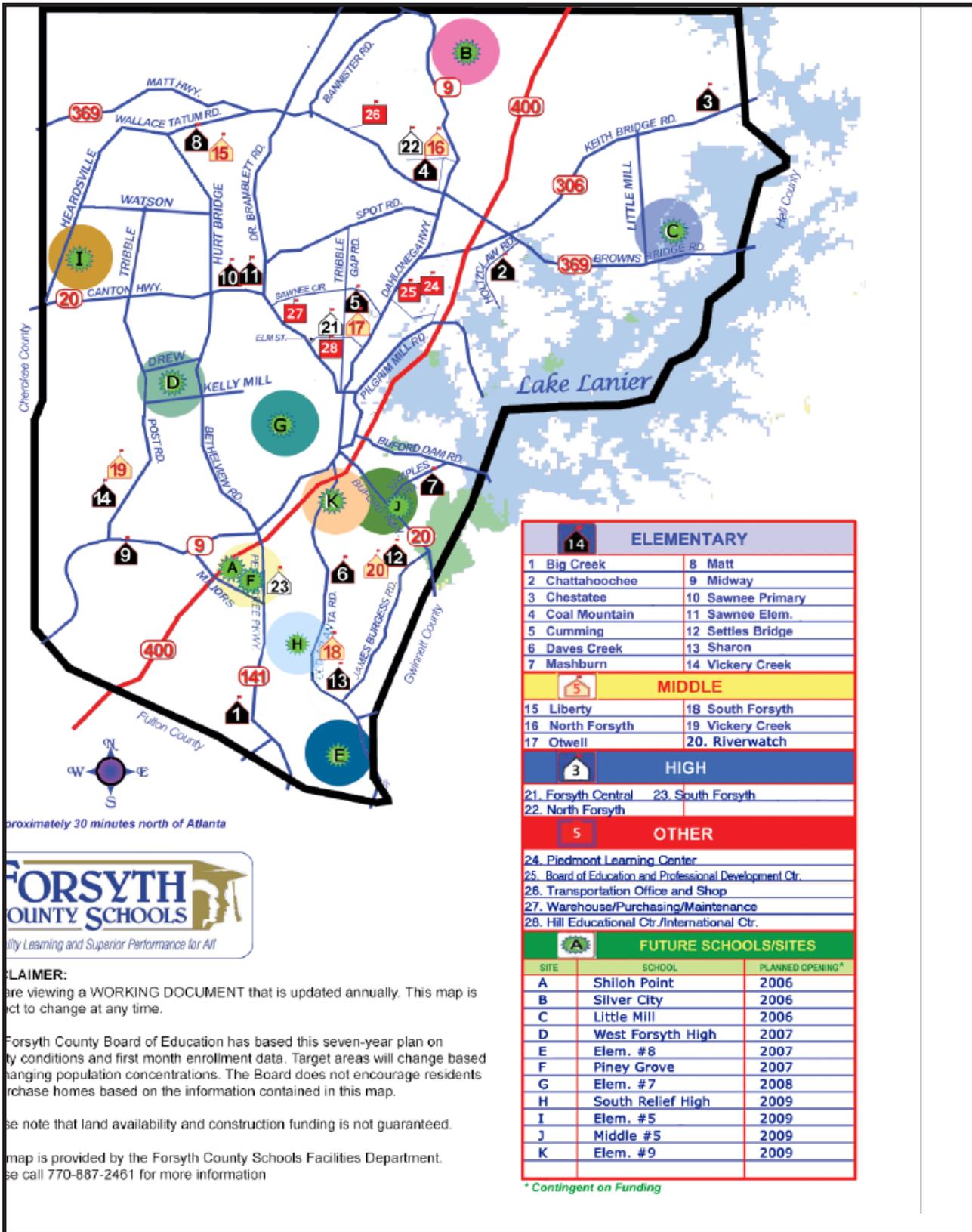
In addition to the public school system, Forsyth County residents have access to a number of private schools. These include:

Covenant Christian Academy 6905 Post Road Cumming  
 Cornerstone 5040 Shady Grove Road  
 Freehome Elementary Canton Hwy. Canton  
 Greater Atlanta Christian 1575 Indian Trail Lilburn Norcross  
 Horizon Christian Academy 610 Canton Hwy. Canton  
 Ivy League Montessori 1791 Kelly Mill Road Cumming  
 Lakeview Academy 796 Lakeview Academy Dr.. NE  
 Pinecrest Academy, 955 Peachtree Parkway, Cumming, 30041

### UNIVERSITIES & COLLEGES

Lanier Technical Institute Forsyth campus is located on Majors Road. In 2003, approximately 1,500 credit and noncredit students were enrolled in the college. The school offers a varie

FIGURE 6.7: FORSYTH COUNTY CURRENT AND FUTURE SCHOOL SITES



Source: <http://www.forsyth.k12.ga.us/admin/facilities/countymap.pdf>

TABLE 6.12 SCHOOL CAPACITY

Rev.1/21/2005

ENROLLMENT PROJECTIONS FOR 2004- 2009 SCHOOL DISTRICTS

Elem. School	Capacity	2004-2005 1st Mon.	2005-2006	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011
Chattahoochee	887	779	809	839	869	754	778	800
Chestatee Elem.	1062	1175	1253	833	885	939	995	1051
Coal Mountain	787	720	776	630	677	726	776	829
<b>B</b> Silver City Elem.	1112			910	971	1034	1099	1166
Matt Elem.	1062	930	991	850	903	957	850	898
Sawnee K-2	612	509	540	571	603	635	533	560
Sawnee 3-5	762	446	473	500	528	562	456	479
<b>I</b> Future Elem. #5	1112						859	909
Vickery Creek	1037	922	985	1050	1117	1186	830	878
Midway	637	667	690	563	581	597	614	629
Cumming	1062	1016	1081	1148	1217	938	990	1043
Mashburn	737	627	670	715	762	650	690	731
<b>A</b> Shiloh Point	1112			1090	1179	957	1031	1110
<b>G</b> Future Elem. #7	1112					970	1025	1082
Big Creek	887	1086	1204	843	754	831	915	1006
Daves Creek	1062	1173	1303	995	1102	1217	957	1053
<b>K</b> Future Elem. #9	1112						960	1045
Settles Bridge	1037	929	1019	1116	986	1076	882	961
Sharon	1187	1257	1384	1521	1079	1181	1009	1103
<b>E</b> Future Elem. #8	1112				1002	1103	1212	1330
<b>TOTALS</b>	19490	12236	13179	14174	15212	16314	17463	18665

Middle School	Capacity HB1187	2004-2005 1st Mon.	2005-2006	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011
<b>C</b> Little Mill	1037			701	763	831	905	986
North	1062	1006	1085	797	857	919	985	1053
Liberty	1037	852	928	830	900	975	1054	1137
Vickery Creek	1062	918	927	1018	796	871	951	1036
Otwell	1037	917	997	932	859	928	832	896
<b>F</b> Piney Grove	1037				720	804	898	1003
South	1012	784	882	990	860	963	810	904
Riverwatch	1037	813	899	993	1094	1203	831	911
<b>J</b> M.S.#5	1037						925	1014
<b>TOTALS</b>	9358	5290	5718	6260	6849	7495	8191	8939

High School	Capacity	2004-2005 1st Mon.	2005-2006	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011
North Forsyth	1437	1784	1952	2131	2008	2185	2373	2572
<b>D</b> West Forsyth	1987				1475	1624	1785	1958
Forsyth Central	2112	1867	2072	2296	2030	2241	2309	2540
South Forsyth	1837	2314	2599	2913	2610	2915	1635	1820
<b>H</b> South Relief High	1987						1775	1974
<b>TOTALS</b>	9360	5965	6623	7340	8122	8964	9877	10864

<b>GRAND TOTALS</b>	38208	23491	25520	27775	30184	32773	35531	38468
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7-Year District Plan  
Ga. Dept of Ed. 7/1/04 Capacity

Source: <http://www.forsyth.k12.ga.us/admin/facilities/countymap.pdf>

of programs in nursing, dental hygiene, auto repair and criminal justice. North Georgia College and State University offers night classes at the Board of Education Building and North Forsyth high School. Other nearby facilities include:

Brenau University, Gainesville

DeVry Institute of Technology, Alpharetta

Gainesville College, Gainesville

Masterteach Institute, Gainesville

North Ga. College and State, Dahlonega

Reinhardt College, Waleska

## **CULTURAL FACILITIES**

### **Sawnee Cultural Arts Center**

The Sawnee Cultural Arts Center opened in 1992, providing the community with an auditorium and stage for weddings, receptions, banquets, beauty pageants and much more. The center also features kitchen facilities and a number of meeting rooms accommodating 10 to 700 guests.

The Sawnee Cultural Arts Center (SCAC) offers an array of activities for residents of Forsyth County and surrounding areas. SCAC offers quarterly classes on a variety of subjects including art, theatre, dance, gardening and language classes. Each summer children are invited to participate in our week long Art & Drama Camps.

SCAC is also home to several non-profit organizations: Saturday on Stage (SoS), A Children's Theatre; Sawnee Art Association, a visual arts group; and Sounds of Sawnee Community Band.

### **Lanierland**

This 4,346 seat concert theater is located in the north east portion of the county. It hosts seasonal concerts and school graduations.

### **Forsyth County Library System**

An inventory and assessment of the Forsyth County library system is included in the Capital Improvements Element.

## COMMUNITY GOALS

### SHERIFF'S DEPARTMENT

The Sheriff's Department has adopted the following goal and associated objectives:

To serve and protect the citizens and visitors of Forsyth County through dedication, professionalism, active cooperation with community, and respect for human dignity.

- Provide the safest environment possible for citizens and others of Forsyth County.
- Maintain the professional image, discipline, and morale of assigned personnel.
- Enhance techniques in the education of citizens to increase awareness of crime, techniques in crime avoidance, and operations of the Sheriff's Office.
- Decrease the Average response Time Length (elapsed time from time of dispatch to the time of arrival) from current 20.41 minutes to the 8 to 10 range.
- Increase the ratio of Sworn Law Enforcement Officers per 1,000 population from current 1.47 Officers per 1,000 to 2.0 Officers per 1,000.

### FIRE PROTECTION AND EMS

The Fire Department has defined a set of goals as follows:

- Prevent incidents from occurring through code enforcement, public education, and fire prevention activities.
- To mitigate hazards by handling all requests for service in a professional manner.
- Provide the highest quality of service in a professional manner.
- Encourage and support employee development, enhancing proficiency and professionalism.
- Promote the health and safety of our employees.

### RECREATION FACILITIES

In 1999, a workshop was held with the Parks and Recreation Steering Committee to provide input that could be translated into goals and objectives. The goals are an expression of the Forsyth County Parks and Recreation Department's desire to address the needs and demands within the county for recreational opportunities and program delivery.

A mission statement is a statement of overall policy that is used as a guide for the decision-making process to be followed by the Parks and Recreation Department. When developed in the context of system-wide recreation master plan, the departmental mission statement addresses the future provision of recreation sites, facilities and programs as a means to enhance the use of leisure time. Using these principles as guidelines, the following mission statement reflects the aspirations of the Forsyth County Parks and Recreation Department.

*The Forsyth County Parks and Recreation Department is dedicated to improving the quality of life for the citizens of Forsyth County by providing quality programs, facilities and opportunities.*

Eight goals that were identified and their specific measurable objectives for each, are listed below:

**Forsyth County will acquire a minimum of 375 acres of new recreation land by the year 2006.**

- The county will make advance acquisition of recreation land a priority.
- Be within the acreage standard of 6.25 - 10.50 acres of land per 1,000 population by the year 2006.
- To locate and purchase three, 70 - 80 acre parcels for development of active and passive parks.
- The Parks and Recreation Department will endeavor to enter into a formal relationship with the County School System to acquire single large parcels of land on which to construct schools in conjunction with parks.
- The acquisition of land in the southern and eastern portions of the county will be a priority.
- The Parks and Recreation Department will investigate the potential to acquire Beaver ruin Park from the Corps of Engineers.
- New park land should be acquired at locations where there are compatible, adjacent land uses.

**To provide new sites that, when completed will result in adequate geographic coverage and accessibility to all residents of forsyth County**

- Three new community parks should be constructed in the south, southwest and northern portions of the county.
- A least one of the three community parks should be located to the east of GA 400
- Enlist the assistance of the Planning and Zoning Department to forecast the future location of recreation sites.
- Periodically update the needs assessment to insure that adequate parks and facilities are developed to meet the desires of county residents.
- System-wide, parks accessibility is to be improved by developing and implementing themed directional and entryway signage.
- Include, as feasible, indoor recreation centers at each new community park.

**To broaden the range of recreation opportunities for county residents by providing additional active and passive recreation facilities in existing and new parks.**

- Expanding the number of soccer fields, ball fields and other programmed athletic facilities.
- Constructing four new recreation centers, one of which shall be at a central location.
- Constructing an aquatic complex at a central location within the county.
- Continue to include walking/jogging trails in existing and future recreation sites.
- Providing additional passive use facilities including bikeways, nature trails and interpretive areas and greenways.
- Providing facilities to meet specific needs of special groups including senior citizens and dog owners.
- Developing adequate support facilities including parking, restrooms and concessions at existing and new parks.
- Improving the appearance of existing parks by implementing a landscape program.

**To provide an expanded variety of programs and instructional personnel as necessary**

**to meet the needs of all age groups.**

- Additional active recreation programs will be provided for adults not participating in athletics.
- New indoor programs will be developed commensurate with the construction of recreation centers.
- Offerings for senior citizens will be expanded to include active recreation program such as softball, horseshoes, shuffleboard etc.
- Additional programs geared to teenagers will be offered.
- The Parks and Recreation Department will add program personnel as necessary to meet demand.
- To provide the level of system-wide maintenance necessary to result in superior operation of parks, equipment and support facilities.
- An adequate maintenance staff will be provided to conduct routine and non-routine maintenance assignments.
- Maintenance personnel will receive training and obtain appropriate certifications in their specific disciplines.
- A maintenance program for support facilities will be implemented
- Full-service maintenance facilities will be constructed at all new parks.
- The Parks and Recreation Department will investigate the feasibility of privatizing some of the routine maintenance functions such as grass cutting.

**To provide appropriate security measures and personnel necessary to maintain a feeling of safety and comfort among park users.**

- Improve security at Poole's Mill Park.
- Do not locate a criminal detention facility adjacent to Central Park.
- Investigate the feasibility of locating future police precincts within, or proximate to county parks.
- Determine the most efficient method of providing long range park security - use of dedicated county police officers or establishment of a Park Ranger security department as part of the Parks and Recreation Department.
- Insure protection of pedestrians at ballfields by installing screens along foul lines.
- Evaluate current traffic levels at existing parks to develop measures to minimize traffic congestion during peak activity periods.
- To investigate and implement innovative methods to fund the acquisition of recreation land and the development of new facilities.
- Utilize the "school-in-a-park" concept as a means to provide new recreation land and facilities.
- Pursue opportunities to lease Corps of Engineers park land at Lake Lanier.
- Investigate the feasibility of holding periodic bond referendums as a means of funding future recreation projects.
- Pursue development and implementation of a county impact fee ordinance.
- Develop "partnering" agreements with large corporations, industries and the YMCA as a means of providing more recreation opportunities for county residents.
- Using additional SPLOST initiatives as a continuing funding mechanism for land acquisition and park development.

- Consider a user fee surcharge for teams and players involved in park programs to be dedicated exclusively to maintenance.
- To initiate and implement a mechanism or mechanisms that will incorporate participation of county residents and elected officials in the on-going recreation planning process.
- Keep intact the Steering Committee used to assist in preparing this plan; seeking their input to the decision making process as relates to the development of future recreation facilities and programs.
- Hold semi-annual public meetings to inform the public of the status of proposed system-wide improvements, and to elicit input relative to additional needs.
- Administer a leisure survey similar to the survey used in this plan at least once every two years.
- Post information relative to proposed system-wide improvements and new program offerings in conspicuous locations in every park.

## EDUCATIONAL FACILITIES

In 1992-93, the Cumming-Forsyth County Chamber of Commerce, in response to a member survey, began to address the issue of county growth. Together with the efforts of the Forsyth County Board of Commissioners and the Forsyth County Board of Education, the Vision 20/20 citizens group was formed to address growth, education and the image of the county. In the spring of 1995, using the findings of the Vision 20/20 as a basis, 120 business, education and civic leaders worked diligently to prepare guidelines for policy-making and school administration. This Strategic Plan was adopted by the Board of Education in December 1995. In the plan the community cross section, which included natives and newcomers from all geographic regions of the county, called for a “proactive, accountable system that prepares students to compete successfully in the international market place.”

The following 6 goals were established:

To function as an effective system;

To establish a seamless curriculum with defined benchmarks for highest achievement which serves all students;

To develop channels and attitude that insure clear, consistent communication flow;

To provide appropriate facilities;

To establish a human resource department;

To integrate technology into system-wide management and classroom instruction

As the Forsyth County Schools continue to experience rapid, enormous growth and progress in the new millennium, decisions are constantly focused on a proactive, high-energy, top quality educational process and product as described in the community-developed Strategic Plan. The specific goals and objectives outlined in the original plan continue to be appropriate.

The Board of Education, the Superintendent, and staff continue to search for and identify methods to achieve the high standards described by the task forces and steering committee. Following is the latest update to the community on the district’s progress toward the goals of the Strategic Plan.

**1. TO FUNCTION AS AN EFFECTIVE SYSTEM.**

- Initiate efforts to insure that each school, program, and area of responsibility should function as an integral part of the whole system.
  - Monthly newsletter, Nitty Gritty, posted electronically for all staff from Teaching and Learning Division
  - System calendar on intranet
  - Next year's calendar developed by the end of January, with staff development dates determined
  - Weekly meetings of Teaching and Learning Staff to stay abreast of events and responsibilities
  - Regular meetings at all levels; principals, assistant principals, support staff, instructional areas.
- Employ and support leaders who are proactive and foster teamwork.
  - Support staff developed comprehensive plans
  - Leadership trained in components of continuous school improvement (A.I.M.)
  - Director of Staff Development employed
  - Comprehensive Professional Development Plan to meet system needs developed
  - Continue Leadership development through CLSR continued
  - Member of ASCD Standards Consortium.
- Encourage every student, parent, employee, and elected official to strive to attain a vision of international excellence.
  - Develop assessments grading and reporting against international standards.
  - Understanding by Design training for CORE Teams
  - Academic goals communicated
  - Chattahoochee Elem. and Forsyth Central High School named "Ga. Schools of Excellence 2001."
- Establish policies to standardize opportunities and routine procedures to insure equality and accountability.
  - Teaching and Learning Department realigned to function as support team to schools
  - Training opportunities based on school improvement efforts offered to schools.
- Pursue and write grants for funds
  - Awarded Foreign Language Model Program Grant
  - Third year of Next Generation Schools Grant to be implemented
  - Awarded Children's Trust Fund Grant to expand Second Step Program
  - Awarded Abstinence Education Grant
  - Awarded NE GA Community Services Grant.
- Establish internal audit with online software.
- Implement technology-based accountability systems in the form of a new fund accounting system, TestTrax, to provide longitudinal data on student assessment results.
  - Generate comprehensive baseline data for each student, class, and grade level, for both performance and content standards

- Examine student work
- Analyze performance data and identify each student's academic strengths and weaknesses as well as monitor gains in student proficiency on a continuous basis
- Provide ongoing review and evaluation of all school improvement efforts
- Plan new interventions for individual students, groups of students, classes and/or grade levels using relevant, up-to-date information and provide feedback to instructors regarding the effectiveness of new intervention strategies.

## **2. TO ESTABLISH A SEAMLESS CURRICULUM WITH DEFINED BENCHMARKS FOR HIGHEST ACHIEVEMENT WHICH SERVES ALL STUDENTS.**

- Organize school schedules and instructional programs to support curriculum that ensures students to be internationally and locally competitive.
  - Student/teacher ratio continues to be lowered to comply with HB1187
  - Appoint Advanced Placement committee to expand classes in all high schools, requiring the examination be taken at the completion of course
  - Pilot distance learning courses through Class.com
  - Begin 9th grade academies in all high schools
  - Study of alternative calendar by committee
  - Implement extended learning opportunities at all schools.
- Block Scheduling.
  - Block Schedules at 3 HS allows for 32 Carnegie units.
- Implement International Baccalauréat curriculum.
  - IB Program at South Forsyth High School approved by International Committee, first classes started.
- Establish higher-level content specific benchmarks.
  - Standards & Benchmarks established for K-12 updated 2000-2001.
  - Core Team training begins in 2001-2002 school year.
- Allow advanced elem./MS students to move at an accelerated pace.
  - Students grades K-8 may advance in mathematics and reading.
- Administer annual standardized tests showing progress in each academic subject.
  - Introduce SAT9 in grades 3, 5, 8 and New Standards Reference Exams at end of grade 4 and beginning of grade 9
  - CRCT, grades K-8
  - TestTrax allows longitudinal data to be kept on all students.
- Initiate foreign language instruction at an age that will enable students to communicate in an international environment.
  - Expanded middle school foreign language from exploratory to academic program
  - Add one Foreign Language in each elem. school (grades K-5, 75 minutes minimum per week)
- Identify and evaluate practices as effective including Core Knowledge and High Schools That Work.
  - Midway, Sawnee Elementary, and Mashburn Elementary use elements of Core Knowledge.

- All high schools joined Southern Regional Education Board's HSTW.
- Industry Certification of technical-career courses.
  - Pilot Youth Apprenticeship Model in all high schools
  - Articulated agreements with Lanier Technical College.
- Instructional strategies to raise academic standards.
  - Teacher evaluation process (PAC) based on teachers designing quality work for students
  - Implement CRISS Strategies
  - Implement Primary Literacy
  - Implement Core Teams.
- Staff development to enhance professional growth and raise professional Standards.
  - All staff development offerings based on teacher need/school improvement plans
  - Developed comprehensive Professional Development Plan for system
  - Hired Director of Staff Development.

### **3. TO DEVELOP CHANNELS AND ATTITUDE THAT INSURE CLEAR, CONSISTENT COMMUNICATION FLOW.**

- Establish link to the business community to listen to ideas and insure relevance of curriculum.
  - Post updates on Internet site: [www.forsyth.k12.ga.us](http://www.forsyth.k12.ga.us)
  - Workforce development (see action plan)
  - Study the feasibility of creating an International Center as suggested by the Forsyth County Changing Demographics Committee
  - Chamber of Commerce and schools sponsor Classroom Partners, mentorships, Career Days, Youth Leadership Program and semiannual Bus Tours of Schools
  - 100% school membership in Chamber of Commerce.
- Charge each school with implementing the school level components of the Communication Task Force report.
  - Each school communicates regularly to parents and community through handbooks, newsletters, website, PTA/PTO/LSC meetings. BOE receives monthly Local School Council (LSC) meeting minutes from each school
  - Staff receives "Informed Source," a brief outline of information from BOE meetings.
- Increase visibility of board members and superintendent at community and school functions.
  - Supt. and BOE involved in many community organizations and events – United Way, Relay for Life, Scouts, Council on Youth, and others. Schools and Central Office active in community events: Raised \$50,000 United Way, \$43,000 for FC Relay for Life, \$17,000 for Walk America.
  - Superintendent serves on Family Connection State Board.
- Appoint a person at each school to serve on a countywide public relations committee.
  - Established media contact and procedures. Department directors regularly

- provide update articles and special programming to media.
  - Employed a communications specialist at district level.
- Create a countywide PTA/PTO Council.
  - The Superintendent meets monthly with PTA/PTO/LSC leadership
  - PTA Council established 1997.
- Implement a program that fosters communication with parents and their involvement in school.
  - Implement “Parent Connect” a web-based system to provide home-school connection that gives parents timely information about their children’s progress (including attendance, discipline and grade information) and a “distributed” student information system, SASI, to provide greater flexibility in scheduling students and allow for comprehensive reporting to monitor student progress across grade levels.
  - Parents may access information to digitally interact with their child’s school, communicate with their teachers, and track their progress. School system technology resources have been implemented to individualize instruction through use of online information.
  - The district, all schools, and many teachers have websites containing information on issues pertinent to parents and community members.
  - Implemented a Supt. Student Advisory with MS & HS representatives from each school.

**4. TO PROVIDE APPROPRIATE FACILITIES.**

- Explore new avenues for providing facilities to keep pace with our growing population.
  - Local Bond & State Funding to construct 276 instructional units at existing schools to maximize their core facilities and two new schools (Matt ES & Otwell MS) with 134 new units total. In addition, more than 320 instructional units were updated, including new mechanical systems at three high schools. New replacement Sawnee Elem. & Cumming Elem. Schools will open Aug. 2002 along with new Middle School in the NW sector. One remaining new elementary school to be constructed & opened in August 2003
  - Additional 1997 SPLOST and State Funding to construct 134 additional instructional units beyond the original anticipated building plan.
- Recommended SPLOST Issue because research showed no better way to finance for immediate classroom need.
  - Passed 2001 SPLOST to fund 306 new instructional units in two elementary schools, one middle school, and one high school.
- Reuse building plans.
  - Middle school prototype developed from NFMS used for four additional schools. The next MS proposed is based on the same plan. ES prototype developed from Matt ES used for the New Cumming ES. Due to overall size in relation to site development cost, a new design is being considered for better site adaptability. New high school plan will be an original plan due to the changes and need assessments for high school.
- Add classrooms to existing schools to house maximum number.

- All schools were reviewed to determine the maximum size allowed by the BOE based on core capacity. Any facilities whose capacity did not meet or exceed this number were identified for new additions. Site was a limiting factor at Big Creek, Midway, Sawnee Primary, and North Forsyth High.
- Fund new central office by
  - Interest on bond proceeds
  - Bond Referendum
  - Certificate of Participation
  - New BOE / Professional & Development Center was constructed & opened in November 1999. New Transportation Administration Building is planned under remaining funds from the 1999 Bond.
- Stagger bus schedules.
- Stagger school start times.
  - Separated Elem. from MS & HS 1996-97. HS and MS now separated in all areas except small section of North. Continue to monitor and modify schedules for efficiency and effectiveness. Buses added are now in state replacement cycle. Since 1995 over \$5,153,559 spent to purchase buses.
- Assess and improve utilization (including responsibility) of facilities
  - Maintenance hired licensed leadmen in areas of HVAC, plumbing, electrical, & carpentry. Implementing on-line work order system to improve performance & accountability.
- Share facilities with Parks & Rec.
  - BOE supports use of facilities by Forsyth Co. & Cumming Parks & Rec. & YMCA.
  - Establish Purchasing & Central Warehousing.
  - Warehouse (on Hwy. 20 W) allows Purchasing Dept. to buy in bulk and save financially. FC Govt. purchases through school board contracts.
  - Also establishing parts inventory for maintenance to reduce response time on work orders.
- Outsource services
  - Outsourcing services that are beyond the capabilities of existing staff, or that can be provided at a cost savings for the school system. Examples are grounds maintenance and infestation.
- Purchase land for five-year building plan recommended by the Facilities Task Force.
  - Land purchased (Otwell Meadows) for central growth, for Settles Bridge site on James Burgess Rd., Wallace Tatum Rd. schools. Purchased additional properties with Sept. '99 Bond for West High School on Drew Road and under negotiations for sites in south and north Forsyth for elementary school placement.

#### **5. TO ESTABLISH A HUMAN RESOURCE DEPARTMENT.**

- Seek, employ, and retain best personnel.
  - Local supplement gives credit for total years experience, 4.5% raise for certified and classified in 2000-01.
- Recruit and hire only the best and most qualified.

- Effective recruitment and retention plan established
- Web-based application and review process implemented
- Expanded recruitment through on-site job fairs, membership in Metro-Atlanta Recruitment Consortium (MATReC).
- Evaluate compensation and benefits package.
  - Accumulated sick leave may be used for retirement, benefits package reevaluated, added flexible spending accounts and a cancer plan
  - Increased local contributions to Public School Employee Retirement Program participants
  - Expanded local salary supplements to become more competitive with surrounding counties
  - Responsibility supplement increase tied to salary increase.
- Increase recognition of accomplishments of system employees.
  - Implemented REACH Awards program, which recognizes exemplary service, staff accomplishments reported in StaffComm newsletter. Chamber of Commerce sponsors Teacher of the Year banquet
  - National Teacher Certification ([www.nbpts.org](http://www.nbpts.org)) encouraged. Local NBPTS supplement exceeds state minimum requirement in several ways.
- Design training programs to upgrade the personal and professional skills of employees and complement system-wide goals.
  - Annual assessment identifies staff training needs
  - Extensive staff development focuses on integration of technology into instruction and providing quality work for students
  - Personnel evaluation instruments (PAC and LAC) include Professional Growth Plans.
  - Master's degree obtainable in county through Piedmont College Cohort program
  - Leadership certification obtainable through Georgia State University cohort program.
- Install position of Human Resource Director.
  - Human Resources Department reorganized to focus with service orientation.
- Standardize job descriptions, hiring procedures, and evaluations.
  - Constantly updating and revising due to growth and program changes. Personnel intake process improved to provide more efficient service
  - Job description on line.
- Develop manuals for personnel.
  - Employee and administrative handbooks developed and on-line.

## **6. TO INTEGRATE TECHNOLOGY INTO SYSTEM-WIDE MANAGEMENT AND CLASSROOM INSTRUCTION.**

- Adopt Technology Task Force plan.
- Form system-wide technology committee consisting of school personnel, parents, and business people.
  - To focus on integration of technology into daily classroom activities, training for teachers is being provided through the delivery of the "InTech" professional

development program. The InTech program includes five critical areas: use of modern technologies, curriculum integration, classroom management, pedagogy, and designs for learning.

- A technology skills continuum is used as a framework to provide benchmarks for personal technology fluency. The “Teacher Technology Skills Continuum” is a living document that changes as technology changes. It has four levels: Minimum, User (these have a basic functional knowledge of hardware and software and an ability to use them within their instructional program), Demonstrator (capable of incorporating technology into instruction to meet a variety of student needs), and Designer (facilitates and designs student learning that incorporates real life applications while fostering technological growth).
- The MUNIS system, a complete set of integrated applications designed to manage the financial and human resources needs of the school system, is in the implementation stage.
- The Board of Education “Board Book” and agendas are all “on-line.”

Chapter Ten, the Implementation Program, provides the overall strategy for the comprehensive plan implementation. The policy recommendations listed above are merged and coordinated with the policies of the other elements to form the implementation program. The associated short-term work program designates the actions the county will take in the next five years to achieve these goals. The list is not all-inclusive. There are some actions that may not be addressed due to time, budget and administrative constraints. These items will be included as part of the work program at some point over the twenty-year planning period.

## INTRODUCTION

The Land Use Element is the central component of the comprehensive plan. It serves as the synthesis of all other elements of the plan and as a mechanism to guide and control future growth in a community. Its overarching intent is to guide the intensity, location, and timing of new development and redevelopment and to ensure compatibility with existing development, future population and economic development trends, community infrastructure, and natural and cultural resources.

### Methodology

This element is the result of a very extensive public involvement program. The county was divided into ten subareas, with individual committees established to develop specific land use policies and a future land use map for their subarea. The subarea boundaries were determined by a variety of factors including: physical barriers, historical communities, economics and transportation corridors. **Figure 7.1** shows the location of the ten subareas:

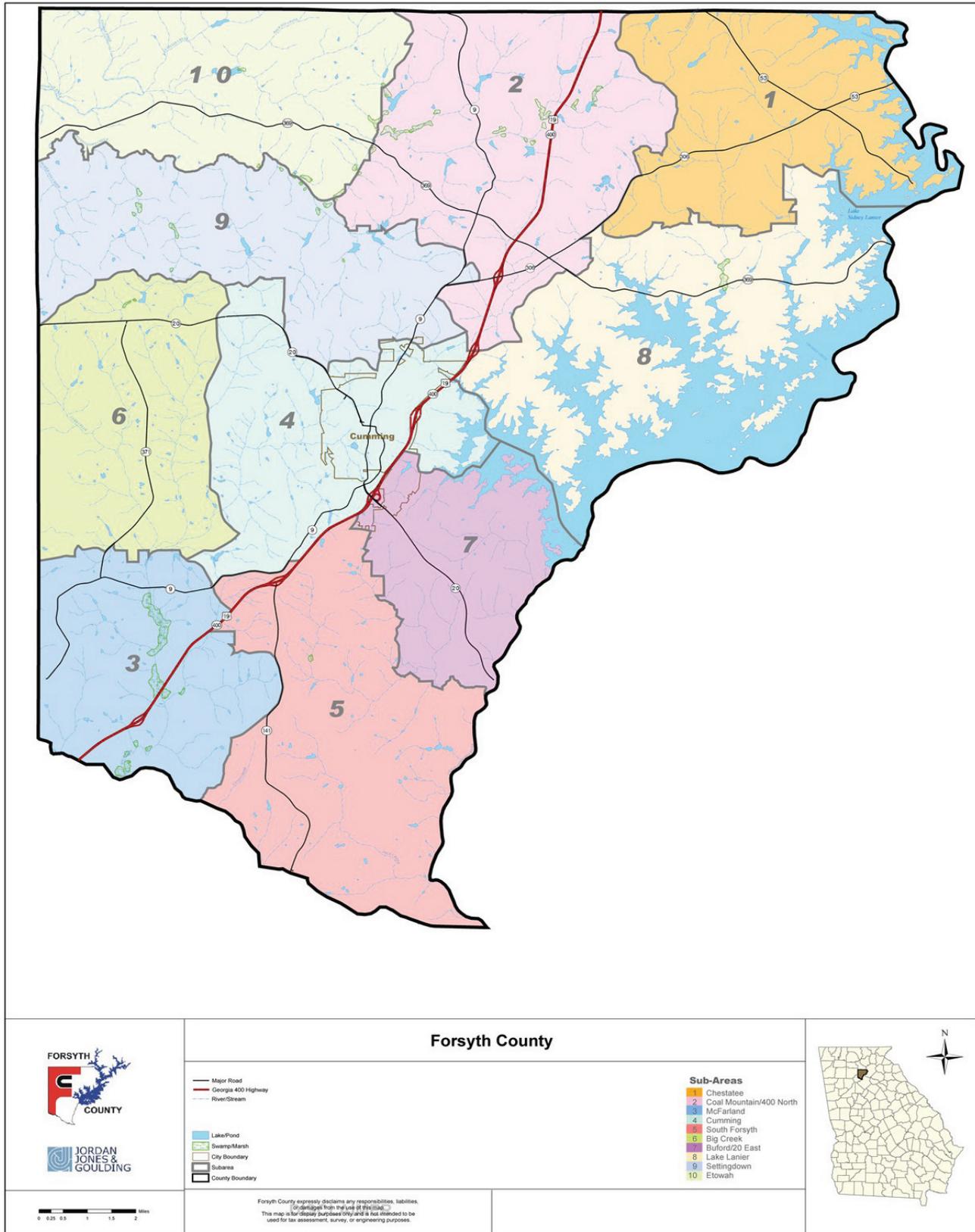
1. Chestatee
2. Coal Mountain/ 400 North
3. McFarland
4. Cumming
5. South Forsyth
6. Big Creek
7. Buford/ 20 East
8. Lake Lanier
9. Settingdown
10. Etowah

Each subarea committee met at least twice over a four-month period (April-July 2003), with the exception of the Etowah subarea committee. The Etowah subarea had been the focus of its own planning effort several years earlier. Only one meeting was held in the Etowah subarea during the four-month planning period to update the findings of the previous planning effort. On August 14, 2003, an open house was held to present the findings of the ten subarea committees and to take public comment.

Individual subarea plans were developed summarizing the existing demographics and land use characteristics of each subarea, as well as the final recommendations of the subarea committees. **Appendix D** contains the ten subarea land use reports.

A twenty-five member Countywide Land Use Steering Committee was formed. The Board of Commissioners appointed fifteen members, and the ten subarea committees each selected one representative. The committee formally met twice following the open house in August 2003 to develop a countywide vision, land use goals and policies.

**FIGURE 7.1 SUBAREA LOCATIONS**



## Inventory of Existing Conditions

### Existing Land Use Map

A comprehensive land use survey was conducted for Forsyth County in the Summer of 2002 using tax parcel maps, aerial photographs and field review. In April 2003, field surveys and a review of aerial photographs were conducted to verify the land uses in the county. The Georgia Department of Community Affairs (DCA) has established a statewide land use classification system for regional and local government agencies in Georgia. The land uses shown in **Figure 7.2** on the following page and summarized in **Table 7.1** follow these standards. A breakdown of existing land uses for each subarea can be found in the subarea land use reports, **Appendix D**.

**TABLE 7.1 FORSYTH COUNTY EXISTING LAND USE: 2003**

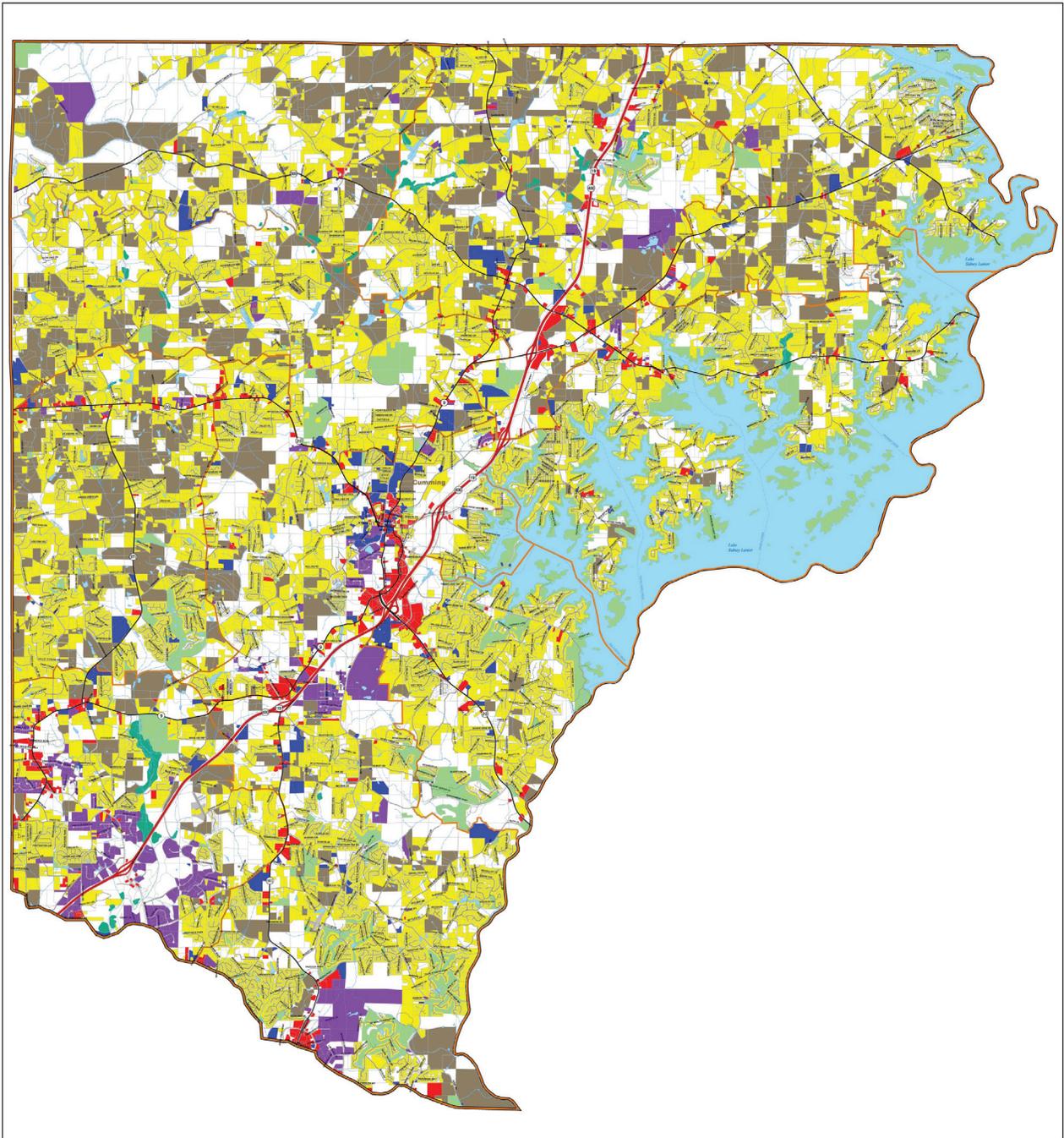
Land Use	Acres	Percent
Residential	55,198	38.1%
Undeveloped	39,075	27.0%
Agriculture	23,341	16.1%
Parks/Recreation/Conservation	9,053	6.3%
Road Right-of-way (TCU)	8,762	6.1%
Industrial	4,283	2.9%
Commercial	2,737	1.9%
Institutional/Public	2,297	1.5%
Transportation/Communications/Utilities	77	0.1%
Total Land Acreage for the County	144,823	100.0%
Total Land Sq. Miles for County	226.3	--
Note: County total does not include lake and other water features.		

The largest land use category in the county is Residential land, comprising approximately 38 percent of the total land area. Residential development is found throughout the county with the largest concentration in the southern and central portions of the county, and along the Lake Lanier's perimeter. The predominate form of residential use is single-family homes in subdivisions. There are an estimated 43,847 housing units in the county associated with this residential land, which equates to an overall housing density of 0.79 units per residential acre.

The second largest category is Undeveloped land, which makes up almost 27 percent of the total land area. Undeveloped land is found primarily in northern portions of the county, though it is dispersed throughout the county. For example, in the McFarland subarea in the southwestern corner of the county, undeveloped land is the largest single land use category and comprises over 30 percent of the total land in that subarea.

The third largest area is Agriculture, which accounts for just over 16 percent of the total land area. Most of the agricultural land can be found in the northern portions of the county, particularly in the Etowah, Settingdown, Coal Mountain, and Chestatee subareas. There is very little if any crop production in the county. Most of the agricultural uses are poultry and cattle related. There is no active forestry in the county.

**FIGURE 7.2 EXISTING LAND USE**



 <p><b>FORSYTH COUNTY</b></p>  <p><b>JORDAN JONES &amp; GOULDING</b></p>	<p style="text-align: center;"><b>Existing Land Use</b></p> <table border="0"> <tr> <td> <ul style="list-style-type: none"> <li>— Road</li> <li>— Major Road</li> <li>— Georgia 400 Highway</li> <li>— River/Stream</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>Residential</li> <li>Commercial</li> <li>Industrial</li> <li>Institutional/Public</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>Transportation/Communication/Utilities</li> <li>Parks/Recreation/Conservation</li> <li>Agriculture</li> <li>Undeveloped</li> </ul> </td> </tr> </table> <p style="font-size: small;">Forsyth County expressly disclaims any responsibilities, liabilities, or damages from the use of this map. This map is for display purposes only and is not intended to be used for tax assessment, survey, or engineering purposes.</p>	<ul style="list-style-type: none"> <li>— Road</li> <li>— Major Road</li> <li>— Georgia 400 Highway</li> <li>— River/Stream</li> </ul>	<ul style="list-style-type: none"> <li>Residential</li> <li>Commercial</li> <li>Industrial</li> <li>Institutional/Public</li> </ul>	<ul style="list-style-type: none"> <li>Transportation/Communication/Utilities</li> <li>Parks/Recreation/Conservation</li> <li>Agriculture</li> <li>Undeveloped</li> </ul>	<p style="text-align: center;"><b>Sub-Areas</b></p> <ol style="list-style-type: none"> <li>1 Chestatae</li> <li>2 Coal Mountain/400 North</li> <li>3 McFarland</li> <li>4 Cumming</li> <li>5 South Forsyth</li> <li>6 Big Creek</li> <li>7 Buford/20 East</li> <li>8 Lake Lanier</li> <li>9 Settlingdown</li> <li>10 Etowah</li> </ol> 
<ul style="list-style-type: none"> <li>— Road</li> <li>— Major Road</li> <li>— Georgia 400 Highway</li> <li>— River/Stream</li> </ul>	<ul style="list-style-type: none"> <li>Residential</li> <li>Commercial</li> <li>Industrial</li> <li>Institutional/Public</li> </ul>	<ul style="list-style-type: none"> <li>Transportation/Communication/Utilities</li> <li>Parks/Recreation/Conservation</li> <li>Agriculture</li> <li>Undeveloped</li> </ul>			

The remaining land uses make up almost 19 percent of the county, and include all commercial, industrial, public/institutional and parklands. Most of the commercial land uses are concentrated along the GA 400 corridor, particularly around Cumming. Industrial uses are concentrated in the southern portions of the county, particularly along the GA 400 and Peachtree Parkway corridors.

## **EXISTING LAND USE ASSESSMENT**

### **Historical Factors**

Prior to the construction of Buford Dam and the creation of Lake Lanier in the mid 1950s, unincorporated Forsyth County was primarily utilized as farmland. After that time and until the widening and construction of GA 400 in the mid 1980s, most of the new growth was associated with the development of lake front homes. Over the last 15 years, however, the growth of metropolitan Atlanta has been the catalyst for further development. In particular, the development of suburban employment centers in Fulton and Gwinnett counties has led to an explosion of single-family housing, and the development of a strong employment base in Forsyth itself.

The rapid nature of this recent growth is pointed out by comparing the 1996 Existing Land Use Survey prepared for the previous Comprehensive Plan with the 2003 Existing Land Use Survey prepared as part of this plan. In 1996, 36% of the county was undeveloped and 26% was residential, whereas in 2003 those figures have reversed with only 27% of the county being undeveloped and 38% being residential. The other notable change in comparing the existing land use surveys is that agricultural land has decreased from covering 23% of the county in 1996 to only 16% percent today.

Transportation has had a significant impact on Forsyth County's development pattern. Georgia 400, Peachtree Parkway, and Georgia 20 in particular have served as magnets for development in the county. These roads have made it easier for people to live in Forsyth County and commute into the city of Atlanta.

The availability or lack of availability of sewer has also had a significant impact on Forsyth County's development patterns. The availability of sewer aids in determining the density of certain developments, and to some extent, the location as well. High-density developments such as apartments, manufacturing, or multi-story facilities require the availability of sewer; whereas, low-density developments can be supported by septic tanks that require relatively large drainage fields. Presently, public sewer service is only available in a small portion of the southern edge of the county and close to the City of Cumming. As a result, residential densities have been kept relatively low compared to the county's more urbanized neighbors to the south, Fulton and Gwinnett Counties.

### **Land Use Patterns In Relation To Infrastructure**

Due to the rapid pace of Forsyth's recent population and employment growth, the county's public infrastructure has been placed under considerable strain in its attempts to keep up with

the rising demand. In particular, the county has spent considerable resources to improve its transportation network and water and sewer infrastructure in order to keep up with this growth. The rapidly growing southern portions of the county have placed the most demands on the infrastructure, yet the problem really is one that can be considered countywide. As described later under “Needs Assessment”, one key factor that exacerbates this problem is that of the low density, auto-oriented growth patterns that have developed in the county.

### **Blighted And Transitional Areas**

The development in the unincorporated portions of Forsyth County is relatively young. Yet, like most suburban counties in metropolitan Atlanta, Forsyth County has some areas that may be considered to be in transition. In particular these include residential areas in older neighborhoods that are aging and need reinvestment and repair. These transitional neighborhoods are primarily located along the perimeter of Lake Lanier and a few older subdivisions located close to the City of Cumming.

Although the term “transitional” connotes places that are in decline, transition can be a positive sign. The county is experiencing such strong development pressure as a result of the expansion of metropolitan Atlanta that land values are generally on the rise, particularly close to Lake Lanier and GA 400 where most of these transitional areas are located. These areas need development guidelines to ensure that new development is balanced, of high quality, respects environmental resources, and are coordinated with infrastructure improvements.

### **Environmentally Sensitive Or Locally Valued Land**

Forsyth County is fortunate to possess a number of natural and cultural resources that are worthy of protection. In particular, state and local laws help to protect all the county’s water resources including Lake Lanier, the Chattahoochee River, and the Etowah River. There are approximately 11,814 acres of 100-year floodplains in the county. Development is regulated in this area by the Federal Emergency Management Agency, the Georgia Floodplain Management Program of DNR and by local ordinances.

There are 33,593 acres of land associated with groundwater recharge areas in the county. Significant recharge areas have been mapped by the Georgia Department of Natural Resources at the state level. If a significant recharge area is identified, the local government must comply with the Official Code Georgia Annotated 12-2-8. This Code outlines restrictions on locating landfills and hazardous waste facilities, above ground chemical or petroleum storage tanks, agricultural waste, impoundment sites, septic tank drain fields, slow rate land treatment, storm water infiltration basins, and waste treatment basins.

There are 32,225 acres of steep slopes (15% grade or greater) in the county. This amounts to approximately 22 percent of the total land area. Most of these steep slopes are associated with Sawnee Mountain and the major rivers and creeks. Where slopes are greater than 15 percent, greater care must be taken to control erosion and sedimentation and developing the land is more expensive and often cost prohibitive.

Besides natural resources, there are a number of man-made resources that are valued by

the community. The most notable of which is Lake Lanier, which serves as the major water source for the region as well as a favorite recreation site. Besides Lake Lanier, there are over 1,100 acres of public parkland in the county, the largest of which is associated with Sawnee Mountain Preserve, which occupies over 725 acres in the north-central portion of the county.

There are also a number of archaeological and historic sites in the county. The famous Trail of Tears began in Forsyth County, and there are a few known sites of Cherokee Indian villages and mounds dotted throughout the county. In the mid-1990s a historic resources inventory was completed which identified 490 historic resources in unincorporated Forsyth County. These historic sites are widely scattered.

### **Problems With Existing Development Patterns**

Forsyth County is like many other rapidly growing suburban counties across the country. It has developed with auto-oriented growth patterns commonly known as “urban sprawl.” There are three commonly recognized types of urban sprawl:

- 1) Large expanses of low-density, single-purpose development;
- 2) Leap-frog development; and
- 3) Unbounded strip commercial development along major highways.

Strip commercial development and expanses of low-density residential development are probably the most prevalent form of urban sprawl in Forsyth County today, particularly in the southern portions of the county and along its major transportation routes, such as GA 20. However, as infrastructure expands, leap-frog development could become perhaps the most costly manifestation of sprawl. Leap-frog development is the premature construction of low-density housing in areas away from existing development. The consequences of this premature development include higher costs of infrastructure. According to a study by the Urban Land Institute (ULI), the costs of providing infrastructure and services to an area that is over 10 miles away from current services is \$15,000 more per lot than the cost of providing the same services to a lot close to central facilities and services. In some cases, a community may pay twice for infrastructure and services - once for the infrastructure and services where growth was planned and again where the leap-frog development was permitted.

In addition, the quality and capacity of infrastructure may not be upgraded to suburban standards in the short time frame that motivated the developer to sell houses. Therefore, the lots have to be bigger to accommodate wells, septic tanks, and ditched streets. This means lower “yield” for the developer, but also may cause a lower tax base for the local government to pay the costs of schools and public services. It also reduces the buying power of customers available to the stores and commercial services coming to serve the new area.

These are some of the characteristics of sprawl in terms of its impact on the quality of development. However, urban sprawl also has an important impact on the quantity of land use available for future generations. Sprawling suburban communities all over the country are finding that with each new wave of growth, the amount of land being consumed by

development is increasing at a faster rate than is population. For example, recent studies in suburban Atlanta have shown that for every ten percent increase in population, developed land areas increase by up to fifty percent.

Over the long run, this rapid outward expansion puts a squeeze on the quantity of land that a county has available for its future. As the quantity of land required for development expands outward, the residual supply of developable land becomes squeezed tighter and tighter. Eventually, the diminishing supply of developable land drives land prices, causing the price of housing, and even public facilities to grow.

Given its diminishing supply of developable land, Forsyth County should incorporate land use planning tools that direct and orient development patterns and economic incentives away from urban sprawl patterns to ones that support compact development. Compact development is not synonymous with higher residential density. Residential density is a shorthand measure of the quantity of development, or number of housing units per acre. It is not, however, a reliable measure of many more important, qualitative characteristics, such as the amount of open space, impervious area, building mass, or jobs-housing balance. These attributes relate more directly to the quality of living within a community, and relate more to the arrangement of uses, types of uses, and site design factors than on the abstract concept of density.

Compact development manages density and intensity of development through design to conserve land, reduce impacts on traffic and storm water for a given amount of development, and make maximum use of existing infrastructure. It also protects against the negative impacts of urban sprawl by placing varied but complementary land uses in proximity to each other. Compact development promotes a mix and arrangement of land uses that are conducive to pedestrian activity and alternative modes of transportation. With well-designed compact development, more everyday destinations - shops, churches, and schools- are within convenient walking distance. The primary benefits of compact development include:

- Reductions in land consumption – preservation of open space, natural resources, and farm and agricultural land;
- Lower infrastructure costs;
- Balance of supportive land uses;
- Distinct neighborhoods with more amenities and higher quality of life; and
- Reductions in auto-dependency and promotion of a more pedestrian-friendly environment.

### **Potential Sites For Infill And Traditional Neighborhood Development**

The American Planning Association defines infill development as:

“The construction of a building on a vacant parcel located in a predominately built up area. It also refers to the reuse or change of use of a previously developed parcel or group of parcels, or the intensification of use or change or use by remodeling or renovating an entire structure.” (APA Planning Advisory Service Report Number 491/492.)

Since most of the county’s building stock is relatively new, and since there is a general lack

of sewer service that would promote higher density development patterns, there are very few potential sites for infill development. In fact, just the opposite has held true in many of the redeveloping areas around Lake Lanier, where it is common for several smaller residential lots to be consolidated for the construction of a larger single-family home that can meet the current minimum standards for the installation of a septic tank.

The opportunities for Traditional Neighborhood Development (TND) are much greater. A TND can be defined as:

“An innovative development approach that fosters more compact, walkable communities. TND emphasizes a return to the way we used to build neighborhoods. The planning and urban design of new TND developments take their form from the structure and layout of pre-automobile neighborhoods, with their human, walkable scale and lively mix of uses. TND neighborhoods typically include small-lot single-family homes, multi-family residences and neighborhood commercial developments within easy walking distance of one another.” (Georgia Quality Growth Partnership Web site, [www.dca.state.ga.us/toolkit/index.html](http://www.dca.state.ga.us/toolkit/index.html))

In recent years there have been a number of large-scale planned communities approved in the county that come close to fitting the definition of a TND. The best example of which would be the Vickery, a Hedgewood Homes development under construction off of Post Road. It is a mixed-use development with 744 residential units offered in a variety of styles and 73,200 square feet of commercial space on 214 acres. Depending on the success of the Vickery and other developments like it, more TND style developments are likely to be developed in the county. Throughout the public involvement process of this plan, great interest was expressed in developing appropriate guidelines that would promote this style of development.

### **Local Policies That Could Affect Future Land Use Patterns**

Market demand, population growth, economic development, community infrastructure, and the environmental suitability of land are the major factors affecting Forsyth County future land use needs and development patterns. Adopted land use goals and implementation strategies are also influential in defining those patterns. Whether qualitative or quantitative, these factors will play a significant role in guiding the intensity, location, and timing of future growth in the county.

The major growth shapers in a community typically involve the availability of community facilities and services such as roads, water and sewer, schools, social and cultural institutions such as libraries, and fire and police. From both a social and market perspective, land that provides access to a network of supporting infrastructure and community facilities has greater development value. As such, the availability of these facilities and services is key in determining land that is fiscally suitable and desirable for urban development.

As previously indicated, current transportation routes in Forsyth County play a significant role in the accessibility of land parcels, and thereby the potential for development. As in most communities, extensions of transportation, water, and sewer infrastructure greatly expand the supply of land for urban development.

Also influential to future growth in Forsyth County are established environmental standards, which have played a more significant role in shaping community growth in the last decade. Recent air and water quality programs at the Federal and State level recognize the connection

between land use and environmental quality. At the local level, this is likely to necessitate more sophisticated studies of environmental quality and more precise performance standards for environmentally sensitive lands such as wetlands and floodplains.

Finally, a policy of promoting TND and activity center type developments can have a strong affect on the future land use patterns of the county. Such developments will offer a greater variety of housing choices and help to promote easier access to retail markets and employment opportunities. These types of development also lend a greater sense of character and community identity, which could help distinguish Forsyth from other surrounding counties.

## **ANALYSIS OF THE FUTURE LAND USE NEEDS**

Population, housing, and employment forecasts are helpful in determining the amount of land necessary to accommodate both residential and non-residential future land uses needs. Based on countywide future population projections of 227,819 persons by 2025 as stated in the Population Element and the future housing projection of 89,769 housing units by 2025 identified in the Housing Element, Forsyth County (including the City of Cumming), will likely see construction of 45,922 new housing units from 2002 to 2025. These housing units will need an estimated 58,433 additional acres of land at the current housing density of 0.79 units per residential acre. Many citizens involved in the development of this plan, expressed an interest in a 1 unit per acre goal density. At this higher density, only an additional 34,571 acres of residential land would be needed to accommodate future growth (89,769 future residential acres less 55,198 existing residential acres = 34,571 additional acres). It is reasonable to assume that as the county matures and more people move in that the overall housing density will rise. The determining factor will be at what density future developments are approved at, and the requirements of the county's *Unified Development Code*.

Future non-residential land use needs for the economic sector were based on Forsyth County job forecasts presented in the Economic Development Element. As **Table 7.2** illustrates a total of approximately 2,688 additional acres of industrial and commercial land are needed to accommodate the projected 2025 employment.

Generally, public uses and rights-of-way occupy around 15% of the total developed land in non-urbanized areas. So assuming 34,571 acres are needed for new residential development and 2,688 acres are needed for employment-based land, 5,589 new acres of public uses and rights-of-way will be needed to accommodate projected growth. **Table 7.3** shows that altogether there will be a demand for over 42,634 acres of land development and redevelopment in Forsyth County by 2025. There is no accurate form of estimating the amount of redevelopment versus new development that will occur over the next 20 years, but a very conservative estimate would be around 10%. As land prices continue to rise, and amount of available undeveloped land shrinks, then the finance incentives for redevelopment will become greater.

**TABLE 7.2: FUTURE EMPLOYMENT LAND REQUIREMENTS IN FORSYTH COUNTY, 2005-2025**

Employment Category	Land Use Type	2005 Employment	2025 Employment	Change Employ.	Acres/Employee*	New Acres
Agricultural Services	Office	1,276	1,978	702	0.04	28
Construction	Industrial	7,628	12,182	4,554	0.125	569
Manufacturing	Industrial	8,312	10,714	2,402	0.125	300
Transportation, Communication, Utilities	Industrial	1,433	1,968	535	0.125	67
Wholesale Trade	Warehouse	5,150	9,740	4,590	0.125	574
Retail Trade	Retail	7,217	11,048	3,831	0.10	383
Finance, Insurance, & Real Estate	Office	2,719	3,535	816	0.04	32
Services	Office	12,380	24,491	12,111	0.04	484
Federal Civilian Government	Office	186	241	55	0.04	38
State & Local Government	Office	4,033	6,136	2,103	0.04	84
Federal Military Government	Industrial	372	382	10	0.125	1
Other (Agriculture, Mining, etc.)	Resource based	786	752	-34	NA	NA
	<b>Total</b>	<b>51,492</b>	<b>83,167</b>	<b>31,675</b>		<b>2,560</b>
Vacancy Adjustment (+5%)						128
<b>Total additional acres required</b>						<b>2,688</b>

Source: Jordan, Jones & Goulding, Inc.

\* Note: Based on density standards published in *Urban Land Use Planning*, 4<sup>th</sup> edition by Edward J. Kaiser, David R. Godschalk, and F. Stuart Chapin, Jr., University of Illinois Press, 1995, p. 331.

Industrial/Warehouse = 8 employees/acre; 1,250 square feet/employee; 10,000 square feet/acre  
 Retail = 10 employees/acre; 1,000 square feet per employee; 10,000 square feet per acre  
 Office = 25 employees/acre; 320 square feet per employee; 8,000 square feet per acre

**TABLE 7.3: TOTAL NEW LAND USE REQUIREMENTS, 2000-2025**

Residential Land	34,571 acres
Employment Based Land	2,688 acres
Public/ ROW	5,589 acres
<b>TOTAL Used</b>	<b>42,634 acres</b>
Land used for redevelopment (-10%)	-4,263 acres
<b>TOTAL Planned</b>	<b>38,371 acres</b>

Source: Jordan, Jones & Goulding, Inc.

This is a broad estimate that is intended to provide an order of magnitude appreciation for the amount of land development activity Forsyth should anticipate over the next 20 years. Considering that the existing land use survey indicated that there are 62,000 acres of undeveloped or agricultural based land in 2003, there should be enough space to handle the projected level of growth.

In addition to the total land use requirements listed above, the county has accepted the

statewide goal of preserving 20% of the total land for greenspace. This 20% would amount to 28,965 acres. According to the Forsyth County Parks and Recreation Department, there are 785 acres currently classified as permanently protected greenspace. That leaves a goal of 28,180 acres of additional greenspace to be acquired.

### **Development of Community Goals**

The Steering Committee developed the following community goals to help guide future land use decisions in the county. These goals were based on the recommendations of the subarea committees, and public comments.

GOAL 1: Encourage responsible development patterns and policies that maximize the resources of both the public and private sector.

GOAL 2: Improve opportunities for citizen involvement in the land development process.

GOAL 3: Provide an efficient, equitable and compatible land use plan that combines the community's desire for a high quality of life with respect for private property rights.

GOAL 4: Encourage creative and flexible site design to accommodate site-specific conditions.

GOAL 5: Protect the natural, historic, and scenic qualities of the county.

GOAL 6: Encourage the development of a sustainable tax base through an increase in business/commercial land use.

GOAL 7: Ensure consistency of residential development with the subareas' visions and balance the needs of landowners and residents.

This last goal refers to "subarea's visions". As part of the subarea planning process, separate visions for each subarea were developed to reflect their unique character and identity. These individual subarea visions can be found in the implementation element, and **Appendix D**.

## **Implementation Program**

There are two parts to the implementation program for this element. The first part of this implementation program is the future land use map. The map is parcel based and depicts a 2025 future land use scenario. The future land use map is a policy guide that is taken into account at the time of making land use and capital improvement decisions. The second part is comprised of a list land use of objectives and short-term action items designed to help achieve the long-range vision for the community. This list was developed by the steering committee.

The guiding force behind this implementation program is a vision statement that was developed as a result of the public involvement effort and hard work of the steering committee. The countywide vision statement they recommended reads as follows:

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#### **Vision Statement**

*Forsyth County will be a dynamic, thriving community, which melds the development of an exemplary quality of life with the preservation of its unique natural and cultural resources. We will continue to build upon and encourage the unique characteristics found throughout our community while working together towards our common goals.*

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**Future Land Use Map**

The future land use plan is a central component of the Comprehensive Plan. It is an extension of the goals and values of the community and a culmination of the subarea planning effort. This future land use map is intended to depict a 2025 future land use scenario. The acreages and percentages of each land use are compiled in **Table 7.4** below and a map showing the location of future land uses is included in **Figure 7.3**.

**TABLE 7.4: FORSYTH COUNTY FUTURE LAND USE: 2025 (Updated 09/04/08)**

Land Use	Acre	Percent
Low Density Residential	54,539	37.7%
Medium Density Residential	38,805	26.8%
High Density Residential	7,359	5.1%
General Commercial	7,509	5.2%
Corridor Commercial (Corridor Transitional)	1,529	1.1%
Neighborhood Commercial	848	0.6%
Industrial	7,192	5.0%
Activity Center (Commercial)	1,406	1.0%
Public/Institutional	1,834	1.3%
Public Park (PUP)	1,544	1.1%
Private Park (PRP)	3,335	2.3%
Transportation/Communication/Utilities	490	0.3%
Conservation (Lake Lanier US Corps land only)	3,748	2.6%
Landfill (Industrial)	714	0.5%
Road Right-of Way (TCU)	10,633	7.3%
Total Land Acreage for the Unincorporated County	141,485	97.7%
Cumming	3,338	2.3%
Total Land Acreage for the County	144,823	100.0%
Conservation Overlay	17,748	12.3%

Note: County total does not include lake and other water features

**Future Land Use Narrative**

There are fourteen land use designations depicted on the future land use map, including three residential designations and six commercial/industrial/mixed-use designations. Below is brief definition of each.

**Low Density Residential (LDR)** - This category is intended for single-family detached residential dwellings typically on septic sewer systems. Minimum lot size is 30,000 square feet, or the overall density is up to 1.5 units per acre. Institutional uses that are considered complimentary in this area include churches, schools, and libraries.

**Medium Density Residential (MDR)** - Consists of single-family detached residential dwellings typically on sewer, with overall densities up to 2.5 units per acre. Institutional uses that are considered complimentary in this area include churches, schools, and libraries. Private recreational uses, such as golf courses, tennis courts, walking trails and swimming pools are encouraged in these areas in developments greater than 50 lots.

**High Density Residential (HDR)** - Typical uses include single-family detached and attached dwellings (such as townhouses) as well as multifamily condominiums and apartments, at densities of up to 6 units per acre. These developments should incorporate some amount of central outdoor public space for their residents. A limited number of churches, schools, libraries, other miscellaneous institutional uses and daycare facilities would be complimentary in these areas. An urban-density residential area is usually located near areas of high employment concentration, large commercial nodes, transportation nodes and mixed-use developments. It is essential that these developments include proper buffering between adjacent land uses.

**Neighborhood Commercial (NC)** – The Neighborhood Commercial category allows a limited range of retail and service activities to serve the everyday needs of local residents. This category includes shopping centers at commercial nodes and limited commercial development along roadways.

In commercial nodes, the site should be designed to encourage the development of neighborhood-scale shopping that offers retail goods, and the furnishing of selected services. Individual commercial establishments are limited to less than 70,000 square feet. Along roadways, the NC land use category is intended to allow for the redevelopment of existing residential structures to commercial or office use. It also allows for new office development that is constructed in a manner consistent with surrounding land uses. Developments in these areas are typically on shallow lots and should not exceed 10 acres in size. Limitations should apply to size, use and design of individual establishments based on surrounding land uses.

**General Commercial (GC)** - This category includes standard retail and commercial service activities such as shopping centers, general retailers, specialty shops, grocery stores, drug stores, banks, restaurants, theatres, hotels, dry cleaners and entertainment facilities. These establishments should be located on appropriate transportation corridors to easily serve the public. Visual impacts of these developments should be minimized by requiring buffers, landscaping, and architectural controls.

**Activity Center (AC)** - The Activity Center land use category concentrates an integrated mix of uses in convenient locations. Activity Centers promote efficient patterns of land use as well as reductions in the number and length of auto trips; as such, AC designations should be appropriately spaced apart. The types of uses that are desirable in the AC category should at a minimum combine local and/or regional retail establishments with offices, but may also include entertainment, governmental facilities, and/or medium- and high-density residential. Development proposals shall be designed to promote pedestrian accessibility. Individual commercial establishments are limited to less than 100,000 square feet. Residential uses shall be considered accessory and should be predominately townhouses or apartments mixed into the commercial establishments.

**Corridor Transitional (CT)** - The Corridor Transitional category is intended to focus on the portions of major transportation corridors that presently contain a mix of agricultural,

residential, and isolated commercial land uses. Such corridors are unlikely to sustain small scale, low-density development over the course of the planning period. Corridor Transitional allows flexibility in future land use determination while ensuring the appropriate gradation between higher-intensity development abutting the major roadway and adjacent properties. To minimize traffic impacts, inter-parcel connectivity and side street access is highly encouraged.

Typical uses include standard retail and commercial service activities such as general retailers, specialty shops, drug stores, banks, restaurants, dry cleaners, entertainment facilities, multiple tenant offices, small single occupant structures, as well as residential development.

The transitional nature of the category is achieved by two primary methods. First, site design should incorporate such features as buffers, landscaping, and architectural controls to minimize the impacts on surrounding lower intensity land uses. Second, gradation of use will be expected in CT designated areas, from higher-intensity along corridors to lower-intensity further away. Thus CT is ideal for mixed-use projects.

**Industrial (IND)** - The primary purpose of this category is to provide for areas where light industrial uses can be located. These light industrial uses include technology/business parks, light manufacturing, warehousing, wholesale/distribution and assembly. More intensive industrial uses that are characterized by noise, fumes, vibration and other forms of pollution that might be viewed as objectionable by surrounding uses are acceptable only on a case-by-case basis if well screened and buffered from other uses. Limited commercial uses are also allowed in industrial areas if they compliment existing industrial uses, such as cafeterias and day cares.

**Public / Institutional (PI)** - Includes uses such as schools, colleges, hospitals, municipal community centers, churches, cemeteries, municipal buildings and post offices.

**Public Park (PUP)** - This category includes land dedicated to active and passive recreation uses. These areas are publicly owned and may include sports fields, recreation areas, greenways, and similar uses.

**Private Park (PRP)** - Privately owned land that is used for active and passive recreation. This may include subdivision amenities areas, golf courses and Army Corps of Engineers recreation areas.

**Conservation (CONS)** - This classification includes environmentally sensitive areas that are regulated at the local and state levels. Areas included in this category are the 35 ft. buffer along all county streams, a 100 ft. buffer along the Etowah River and land that is part of the 100-year floodplain of local waterways. This land has the potential to be used as public greenways or multi-purpose paths. Land classified as Conservation alerts government officials and property owners to the presence of environmental conditions that shall be factored into the rezoning and permitting process.

**Transportation / Communication / Utilities (TCU)** - This category includes such uses as landfills, water treatment plants, wastewater treatment plants, power substations, rail yards, mass transit facilities, airports, etc. These uses may be either public or private.

**Commercial Nodes** - The Future Land Use Map includes ten areas targeted for commercial nodal development:

Bethelview Road (S.R. 141) and Castleberry Road  
Atlanta Highway (S.R. 9) from Francis Circle to Fowler Road  
Canton Highway (S.R. 20) from Hyde Road to Friendship Circle  
Keith's Bridge Road (S.R. 306) and State Farm Road  
Matt Highway (S.R. 369) and Dahlonga Highway (S.R. 9)  
Georgia 400 and Jot'em Down Road  
Matt Highway (S.R. 369) and Bannister Road  
Keith's Bridge Road (S.R. 306) and Jot'em Down Road  
Keith's Bridge Road (S.R. 306) and Dawsonville Highway (S.R. 53)  
Dawsonville Highway (S.R. 53) and Westbrook Road

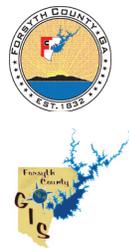
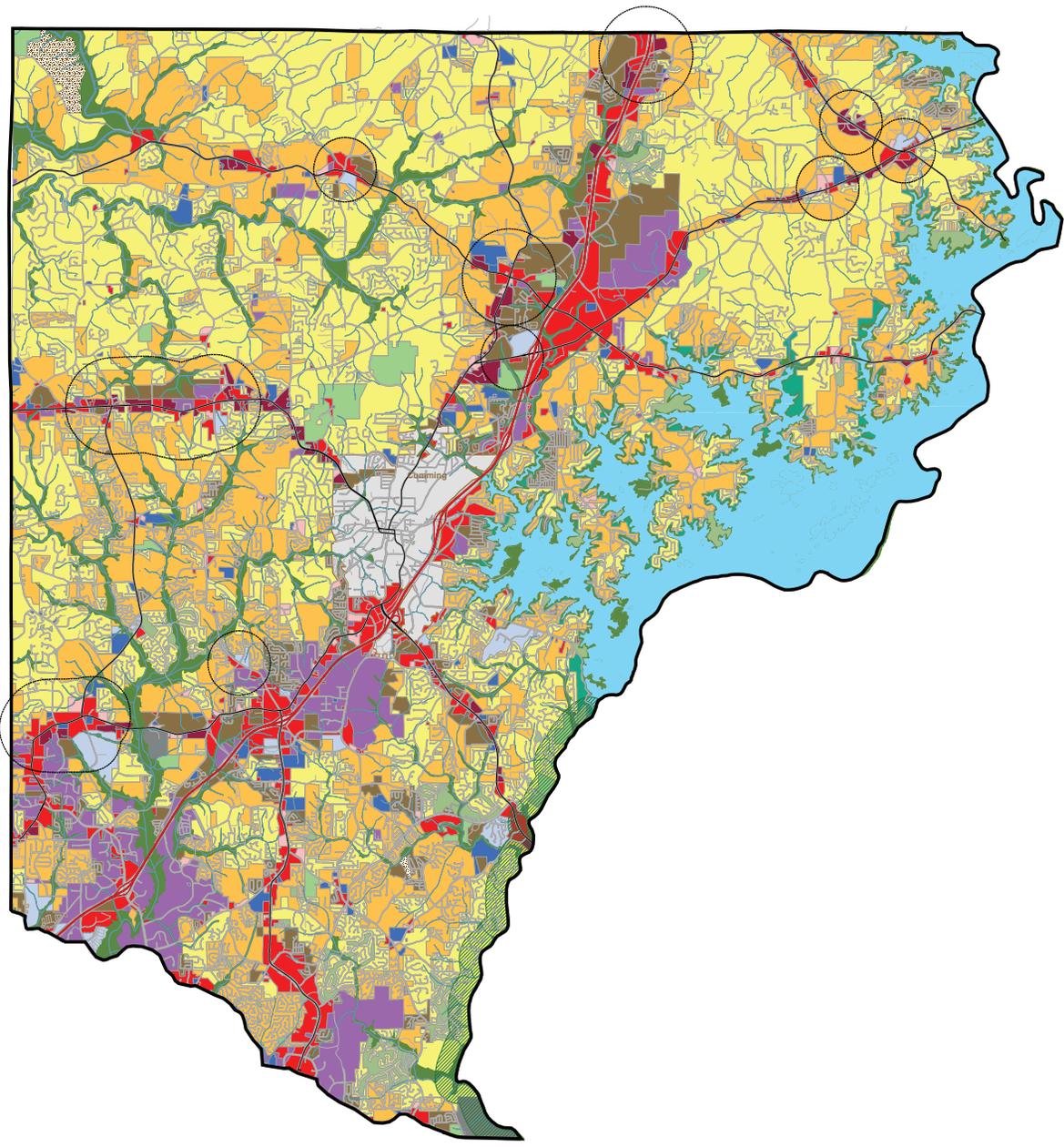
The intent of these nodes is to concentrate commercial and high intensity development into compact patterns, reducing the need for commercial strip or leap-frog development along roadways. Increased flexibility of land use determination within the nodes is allowed. However, developments are expected to transition from the most intensive uses in the center to uses compatible with those found along the perimeter of the node. In addition, particular attention will be paid to a proposal's projected densities and effects on roads, utilities, and surrounding land uses. Development should coordinate with existing and planned surrounding commercial developments when feasible to encourage transitions, shared parking, shared curb-cuts, landscape quality, and design compatibility. Mixed-use and pedestrian-oriented designs are highly encouraged in these areas.

The future land use map indicates that most of the future development will continue to occur in the southern and central portions of the county, with most of the industrial and commercial growth occurring along the GA 400 corridor. Toward this end, this plan recommends that higher priority be given to infrastructure improvements in these more urbanized areas.

Agricultural and forestry uses are notably absent from the map as individual land use features. There is no active forestry in the county, so there was no need to designate such areas for future use. Agriculture on the other hand, will likely still be present 20 years in the future, though it is a declining industry.

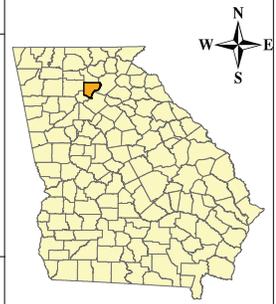
While the future land use map does offer guidance in land use and capital investment decisions, there are many elements to this plan that the map cannot depict. To address these other elements and recommendations, the next section presents a number of objectives and short-term action items that were developed with the input of the Steering Committee.

FIGURE 7.3: FORSYTH COUNTY FUTURE LAND USE: 2025



**Future Land Use (2004 - 2025)**

- |                       |   |   |
|-----------------------|---|---|
| — Road                | Low Density Residential (~ 1.5 units per acre)        | Activity Center   |
| — Major Road          | Medium Density Residential (1.5 - 2.5 units per acre) | Public/Institutional                                    |
| — Georgia 400 Highway | High Density Residential (2.5 - 6 units per acre)     | Public Park   |
| — River/Stream        | General Commercial                                    | Private Park  |
| — Lake Lanier         | Corridor Transitional                                 | Transportation/Communication/Utilities                  |
| — City Boundary       | Neighborhood Commercial                               | Conservation  |
| — County Boundary     | Industrial  | Conservation Streambuffer                               |
| — Commercial Node     | Landfill  | Metropolitan River Protection Act<br>2000-foot Corridor |



THE INFORMATION, CONTENT, AND SUBJECT MATTER INCLUDED ON THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCES, AND IS SUBJECT TO CHANGE WITHOUT NOTICE AS A RESULT OF CHANGING CIRCUMSTANCES AND OTHER DATA. USERS OF THIS MAP SHOULD BE AWARE THAT THE PRESENTATION OF INFORMATION ON THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT INTENDED TO BE USED AS A BASIS FOR ANY LEGAL OR OTHER ACTION. THE USER ASSUMES ALL LIABILITY FOR ANY USE OF THIS MAP. THE INFORMATION ON THIS MAP IS NOT TO BE USED FOR ANY PURPOSES OTHER THAN THAT FOR WHICH IT WAS PROVIDED BY FORSYTH COUNTY.

Production: Forsyth County Department of Geographic Information Services 09/04/09

## COMMUNITY GOALS

*GOAL 1: Encourage responsible development patterns and policies that maximize the resources of both the public and private sector.*

Long Range Objectives /Short Term Action Items :

- Implement development patterns that would make the extension of public facilities or services economically feasible.
- Increase connectivity between and within commercial, industrial and residential land uses.
- Encourage alternative modes of transportation.
- Encourage cooperation between Federal, State and Local government agencies to maximize the use of public parks and land.
- Encourage activity centers at major intersections and discourage land use changes that lead to “strip development” patterns.
- Modify development regulations to require installation of sidewalks, bike paths and trees along roadways as they are improved or created.
- Promote countywide co-location of public facilities.

*GOAL 2: Improve opportunities for citizen involvement in the land development process.*

Long Range Objectives/Short Term Action Items:

- Increase public awareness and education through the use of various media and electronic forums.
- Develop a methodology for the continuation of the subarea planning process.
- Continue efforts to have an efficient and adequate level of public participation in the land development process.
- Examine the rezoning process with focus on submittal requirements and the revision process.

*GOAL 3: Provide an efficient, equitable and compatible land use plan that combines the community’s desire for a high quality of life with respect for private property rights.*

Long Range Objectives/Short Term Action Items:

- Adopt a land use plan that will accommodate the projected population of 227,000 and an employment base of 79,000 by the year 2025.
- Annually review the land use element of the comprehensive plan and consider changes in response to previously unforeseen opportunities.
- Update the Unified Development Code to reflect the future land use plan.
- Study the feasibility of transferable development rights (TDRs) and other tools to provide incentives to preserve green space, open space, and to retain small farms and agricultural related businesses.
- Add additional county staff to enforce development and zoning conditions and erosion control with substantial fines for noncompliance.
- Develop a process to continue public participation in planning issues through appropriate

subarea(s) committee(s) and a steering committee.

- Create a feasibility study to develop a bubble or corridor specific future land use map.
- Continue to use the comprehensive plan as part of the considerations for rezoning requests and conditional use applications.

*GOAL 4: Encourage creative and flexible site design to accommodate site-specific conditions.*

Long Range Objectives/Short Term Action Items:

- Modify development regulations to encourage mixed-use developments in appropriate land use designations with appropriate controls.
- Establish architectural and design standards with a citizen based design committee.
- Non-residential design standards should promote policies to reduce urban heat islands and minimize light pollution.
- Encourage street designs that improve traffic flow and reduce congestion, such as grid pattern streets.
- Study engineering requirements for road improvements and modify as needed to improve traffic flow and safety.

*GOAL 5: Protect the natural, historic, and scenic qualities of the county.*

Long Range Objectives/Short Term Action Items:

- Prepare a greenway/open space master plan.
- Establish standards to identify land in which development impacts should be minimized.
- Work toward the acquisition and preservation greenbelt protected areas, such as the Chattahoochee River, Etowah River, and Big Creek.
- Strengthen appropriate rules, regulations, and ordinances to protect and encourage the preservation of trees and vegetative cover.
- Distribute open space opportunities across the county.
- Strictly enforce the sign ordinance to help preserve the scenic features of the county.
- Recognize the need for passive recreational spaces.
- Develop countywide strategies for improving watershed quality. Modify and improve upon stormwater management plan to improve water quality.
- Create development standards to encourage the linking of conservation lands to create greenway corridors.
- Encourage maximizing open space with density incentives.
- The county should work towards exceeding the state standard for greenspace in each subarea.
- Develop a plan to require mixed-use development to have a significant percentage of the area to remain protected greenspace.
- Protect residential areas by encouraging appropriate greenspace buffers around commercial developments.
- Examine measures to improve water quality, such as stream buffer requirements.
- Connect activity centers to adjoining residential neighborhoods with sidewalks.

- Reduce the negative impact of impervious surfaces by studying mitigation factors and incorporating them into site development.
- Encourage the creation of hiking trails which interconnect with other existing greenways and trails from adjoining counties.

*GOAL 6: Encourage the development of a sustainable tax base through an increase in business/commercial land use.*

Long Range Objectives/Short Term Action Items:

- Achieve a tax base that is approximately 60% residential and 40% nonresidential.
- Manage the rate of growth so as to not overburden the county infrastructure.
- Encourage the recruitment of clean non-polluting industry.
- Encourage the availability of adequate housing opportunities for the county workforce.

*GOAL 7: Ensure consistency of residential development with the subareas' visions and balance the needs of landowners and residents.*

Long Range Objectives/Short Term Action Items:

- Protect residential areas from negative impact by incompatible adjoining uses or adverse environmental conditions.
- Usability of land may be a factor in calculating density.
- Promote and encourage residential densities and designs that ensure a variety of housing types.

*GOAL 8: Develop overlay districts.*

Long Range Objectives/Short Term Action Items:

- Develop overlay districts for major transportation corridors. The major transportation corridor study should consider design criteria, alternative development regulations, and increased flexibility in accepted land uses. Develop a procedure for community involvement, such as a community task force.

Chapter Ten, the Implementation Program, provides the overall strategy for the comprehensive plan implementation. The policy recommendations listed above are merged and coordinated with the policies of the other elements to form the implementation program. The associated short-term work program designates the actions the county will take in the next five years to achieve these goals. The list is not all-inclusive. There are some actions that may not be addressed due to time, budget and administrative constraints. These items will be included as part of the work program at some point over the twenty-year planning period.

## INTRODUCTION

The transportation element provides the County an opportunity to inventory components of the local transportation network; to assess their adequacy for serving current and future population and economic needs; and to articulate community goals and an associated implementation program for providing the desired level of transportation facilities and services throughout the planning period. A Major Transportation Plan Update was adopted in October of 2002. This plan update has been developed using an inventory of the existing street and highway network, an analysis of socio-economic data for the county, and information about land use, growth trends, and emerging development patterns. Data and information about the existing transportation facilities and their capacity, posted vehicle speeds, average running speed, and traffic volumes have been compiled. All roads with the classification of collector and higher (arterials and freeways) were field inspected to determine the number of lanes, width of road, type of traffic control, and speed limits.

In addition to the information on the existing highway network, the assessment of existing conditions also includes an analysis of employment, population and income in the county. A description of the land use types, their intensity, and their location have been considered in the plan update as well as an analysis of travel demand for the area. In order to predict future transportation needs, it was necessary to determine the capacity of the existing transportation system and to develop and validate the computerized transportation model. Information on current transportation, development, and socio-economic conditions in the Forsyth County area has been compiled, organized for each traffic zone, and summarized for the existing transportation system.

## ROAD INVENTORY

### Roadway Functional Classification

The existing highway and street system in Forsyth County consists of a network of facilities serving multiple uses and functions throughout the region. Highways and streets can be classified according to their respective functions in terms of the character of the transportation service they provide. All roadways in the Forsyth County road network were classified using the following five categories: freeways, major arterials, minor arterials, collectors, and local roads. The functional classification of the highways and streets is important because it identifies the desired or minimum rights-of-way which exist now or may be needed in the future to expand the network as the need materializes over the twenty-year planning period.

#### *Freeways*

This type of highway usually consists of limited access freeways, including interstate highways and other expressways serving high volumes of high speed auto and truck traffic. The major purpose of these facilities is to provide mobility between metropolitan areas, regions or states and generally is not designed to provide access to private property. A

considerable amount of traffic on these facilities consists of through traffic. These highways generally have a minimum of four lanes, with some freeways being much wider, especially in major metro areas. Typical rights-of-way range from 200-400 feet, with medians or barrier walls to separate directional traffic.

### *Major Arterials*

This type of highway or street serves the major activity centers of a metropolitan or urban area and consists mainly of the highest traffic volume corridors. These highways usually carry a high proportion of trips with origins and destinations within the region as well as a considerable amount of through trips. This type of roadway is intended to provide mobility within major metropolitan areas or cities and may provide some access to private property. Controlled access facilities can be classified within this system. Major arterials typically have 100 to 200 feet right-of-way, four or more lanes, and may have a median to improve operational characteristics of the roadway.

### *Minor Arterials*

Streets and highways that interconnect with and complement the major arterials are classified as minor arterials. This system serves trips of moderate length and puts more emphasis on land access than the major arterial system. All arterials not classified as primary are included in this class. Minor arterials will have 80 to 120 feet right-of-way, wider intersections with turning lanes, and may have up to five lanes of traffic.

### *Collectors*

The main purpose of streets within this system is to collect traffic from local streets in residential areas, major activity centers, and central business districts, and to carry it to the arterial highway system. Thus, collector streets provide a large amount of access to private property and usually go through residential areas to facilitate traffic circulation to commercial, industrial, medical, educational, and other public facility areas. Collectors typically have rights-of-way of 80 to 100 feet with two to four undivided lanes.

### *Local Roads*

This system consists of all other streets within a community or region that are not included in the four classifications described above. The primary purposes of these streets are to provide access to abutting land and connection to the collector streets. These streets can often be found in neighborhoods; thus, through traffic is deliberately discouraged on these roads. Local roads generally have rights-of-way of 50 to 80 feet, and in some cases, will allow on street parking.

## **Functional Classification Assignments**

**Table 8.1** provides a listing of all the existing roadways in Forsyth County with their respective functional classification and typical minimum right-of-way. All roadways not identified in the table are classified as local roads. **Figure 8.1** provides a map of Forsyth County showing the functional classification system.

TABLE 8.1 ROADWAY FUNCTIONAL CLASSIFICATION TABLE

Roadway Name	From/To	Functional Classification	Required Minimum R-O-W
A.C. Smith Road	SR 9 to Hopewell Road	Collector	80
Aaron Sosbee Road	SR 20 to Bethelview Road	Collector	80
Antioch Road	Pilgrim Mill Road to SR 9	Collector	80
Bagley Drive	SR 141 to Mathis Airport Road	Minor Arterial	100
Bagley Road	SR 141 to Mathis Airport Road	Collector	80
Bannister Road	SR 369 to SR 9	Minor Arterial	100
Bentley Road	Campground Road to Post Road	Collector	80
Bethelview Road	SR 9 to Kelly Mill Road	Major Arterial	120
	Kelly Mill Road to SR 20	Minor Arterial	100
Bettis-Tribble Gap Road	SR 306 to Spot Road	Collector	80
Brannon Road	SR 141 to Old Atlanta Road	Collector	80
Brookwood Road	McGinnis Ferry Road to SR 141	Collector	100
Buford Dam Road	SR 9 to Gwinnett Co. Line	Minor Arterial	100
Burruss Mill Road	SR 369 to Little Mill Road	Collector	80
Burruss Road	SR 9 to Hopewell Road	Collector	80
Campground Road	Cherokee Co. Line to SR 9	Collector	80
Caney Road	Brookwood Road to Chris. Robin Road	Collector	80
Castleberry Road	SR 9 to W. Main Street	Minor Arterial	100
Chamblee Gap Road	SR 20 to Kelly Mill Road	Collector	80
Chattahoochee Road	Holtzclaw Road to Shady Grove Road	Collector	80
Christopher Robin Road	McGinnis Ferry Rd. to Old Alpharetta Rd	Collector	80
Cross Roads Road	SR 400 to Jot-Em-Down Road	Collector	80
Crystal Cove Trail	SR 53 to Lake Lanier	Collector	80
Dr. Bramblett Road	SR 20 to SR 369	Minor Arterial	100
Drew Road	Cherokee Co. Line to Post Road	Collector	80
Elmo Road	Mt. Tabor Road to SR 369	Collector	80
Freedom Parkway	SR 306 to Pilgrim Mill Road	Minor Arterial	100
Fowler Road	Mullinax Road to SR 9	Collector	80
Francis Road	Fulton Co. Line to SR 9	Collector	80
Friendship Circle	S.R. 20 to Hurt Bridge Road	Collector	80
GA 400	Fulton Co. Line to Dawson Co. Line	Major Arterial	Varies
Hamby Road	Fulton Co. Line to SR 9	Collector	80

Heardsville Road	SR 20 to Heardsville Circle	Collector	80
Hendrix Road	John Burruss Road to SR 369	Collector	80
Holtzclaw Road	Pilgrim Mill Road to Shady Grove Rd	Collector	80
Hopewell Road	SR 9 to Dawson Co. Line	Collector	80
Hubbard Town Road	Hopewell Road to SR 400	Collector	80
Hurt Bridge Road	Friendship Circle to Heardsville Road	Collector	80
Hutchinson Road	Castleberry Road to SR 9	Collector	80
Hyde Road	Drew Road to SR 20	Collector	80
James Burgess Road	Old Atlanta Road to SR 20	Collector	80
John Burruss Road	Karr Road to SR 369	Collector	80
Jot-Em-Down Road	Hopewell Road to SR 369	Collector	100
Kelly Mill Road	SR 371 to Bethelview Road	Minor Arterial	100
	Bethelview Road to SR 20	Minor Arterial	100
Laurel Springs Parkway/Westminster Lane	SR 141 to Old Atlanta Road	Collector	80
Little Mill Road	SR 369 to SR 306	Collector	80
Majors Road	Post Road to SR 141	Collector	80
Market Place Boulevard	SR 20 to Pilgrim Mill Road	Major Arterial	100
Market Place Parkway Martin Road	SR 20 to McGinnis Ferry Road SR 9 to SR 306	Minor Arterial Collector	100-120 80
Mary Alice Park Road	SR 9 to Lake Lanier	Collector	80
Mathis Airport Road	SR 141 to SR 20	Minor Arterial	120
Mayfield Drive	SR 306 to Jot-Em-Down Road	Collector	80
McFarland Road	SR 9 to McGinnis Ferry Road	Major Arterial	150
McGinnis Ferry Road	Fulton Co. Line to Union Hill Road	Collector	80
	Union Hill Road to McFarland Road	Minor Arterial	100
	McFarland Road to Gwinnett Co. Line	Major Arterial	120
Mt. Tabor Road	SR 369 to Elmo Road	Collector	80
Mullinax Road	SR 9 to Union Hill Road	Collector	100
Oak Grove Circle	SR 9 to Riley Road	Collector	80
Old Atlanta Road	McGinnis Ferry Road to Sharon Road	Minor Arterial	120
	Sharon Road to SR 9	Minor Arterial	100
Old Alpharetta Road	McGinnis Ferry Road to SR 141	Minor Arterial	100

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Old Buford Road	SR 9 to Main Street	Major Arterial	120
Old Keith Bridge Road	SR 306 to Lake Lanier	Collector	80
Parks Road	SR 306 to Little Mill Road	Collector	80
Pea Ridge Road	Jot-Em-Down Road to SR 53	Collector	80
Pendley Road	SR 9 to Old Atlanta Road	Collector	80
Pilgrim Mill Road	Main Street to Lake Lanier	Collector	80
Piney Grove Road	Castleberry Road to SR 9	Collector	80
Pittman Road	Post Road to Bethelview Road	Collector	80
Pleasant Grove Road	Hurt Bridge Road to Dr. Bramblett Road	Collector	80
Riley Road	Oak Grove Circle to Bannister Road	Collector	80
Samples Road	SR 20 to Buford Dam Road	Collector	80
Sanders Road	SR 20 to Mary Alice Park Road	Collector	80
Settingdown Road	SR 369 to Cross Roads Road	Collector	80
Shadburn Road	Martin Road to SR 306	Collector	80
Sharon Road	From SR 141 to Old Atlanta Road	Minor Arterial	120
Shiloh Road	McFarland Road to SR 9	Collector	80
Spot Road	Dr. Bramblett Road to SR 9	Collector	100
Stoney Point Road	Shiloh Road to SR 141	Collector	80
Strickland Road	McGinnis Ferry Road to SR 9	Collector	80
SR 9	Fulton Co. Line to Main Street	Major Arterial	120
	Main Street to SR 369	Major Arterial	100
	SR 369 to Dawson Co. Line	Minor Arterial	100
SR 20	Cherokee Co. Line to Maple Street	Major Arterial	120
	SR 9 to Gwinnett Co. Line	Major Arterial	150-200
SR 53	Dawson Co. Line to SR 306	Minor Arterial	100
	SR 306 to Hall Co. Line	Major Arterial	120
SR 141	Fulton County Line to SR 9	Major Arterial	150-200
SR 371 Extension	SR 20 to SR 369 (Heardsville Road)	Minor Arterial	100
SR 306	SR 20 to SR 9 (Proposed)	Major Arterial	100
	SR 9 to GA 400	Major Arterial	120
	GA 400 to SR 369	Major Arterial	150
	SR 369 to Hall Co. Line	Major Arterial	120
SR 369	Cherokee Co. Line to SR 306	Minor Arterial	100
	SR 306 to Hall Co. Line	Major Arterial	120
SR 371 (Post Road)	SR 9 to Kelly Mill Road	Minor Arterial	100
	Kelly Mill Road to SR 20	Major Arterial	120

Trammell Road	Old Atlanta Road to SR 20	Collector	80
Tribble Road	SR 20 to Watson Road	Collector	80
Union Hill Road	McGinnis Ferry Road to Mullinax Road	Collector	100
	Mullinax Road to Shiloh Road	Collector	80
Vanns-Tavern Road	SR 369 to Lake Lanier	Collector	80
Waldrip Road	SR 369 to SR 306	Collector	80
Wallace Tatum Road	Heardsville Road to SR 369	Collector	80
Watson Road	Heardsville Road to Hurt Bridge Road	Collector	80
Westbrook Road	SR 306 to SR 53	Collector	80

### Highway Infrastructure and Traffic Volumes

Inventories were also made of the existing transportation road network to determine present number of lanes, present roadway and intersection geometry and their capacity, average travel speed, and present traffic volumes. Average Annual Daily Traffic for the Year 2000 (AADT) was determined from the raw field count data and adjustment factors provided by GDOT.

**Figure 8.2** shows 2000 base year AADTs for the major roads in Forsyth County. **Figure 8.3** shows the base year speed limits for the major roads. **Figure 8.4** shows the current lane configurations (i.e. two-lane, three-lane, etc.).

### Major Roadways

Several major roadway corridors exist in Forsyth County that are state roads or county facilities. A brief description of each major roadway in Forsyth County follows:

#### *GA 400/U.S. 19*

State Route (SR) 400/U.S. 19 is the most significant transportation facility in Forsyth County. The four-lane, freeway provides access to the City of Atlanta and Fulton County to the south and Dawson County to the north. Much of the growth and development in Forsyth County and the northern area of Metropolitan Atlanta have occurred and continues to locate near this multi-lane freeway. S.R. 400/U.S. 19 provides access to employment centers and other key activity centers in Fulton County and Atlanta from residential communities in Forsyth County. S.R. 400/U.S. 19 is considered as a high growth corridor in the Greater Atlanta region and is increasingly being used by residents, visitors, and businesses as a major artery in the region.

The GA 400 corridor and its surrounding area (Northern Sub-area) is the subject of a large regional transportation and land use study being undertaken by the Georgia Regional Transportation Authority (GRTA). The study's short-term focus is the identification of near term highway, transit, traffic operations, intelligent transportation system and related projects which could bring relief to this major congested corridor within the near future. The project is expected to identify short-term improvements for the corridor.

FIGURE 8.1: FUNCTIONAL CLASSIFICATION SYSTEM

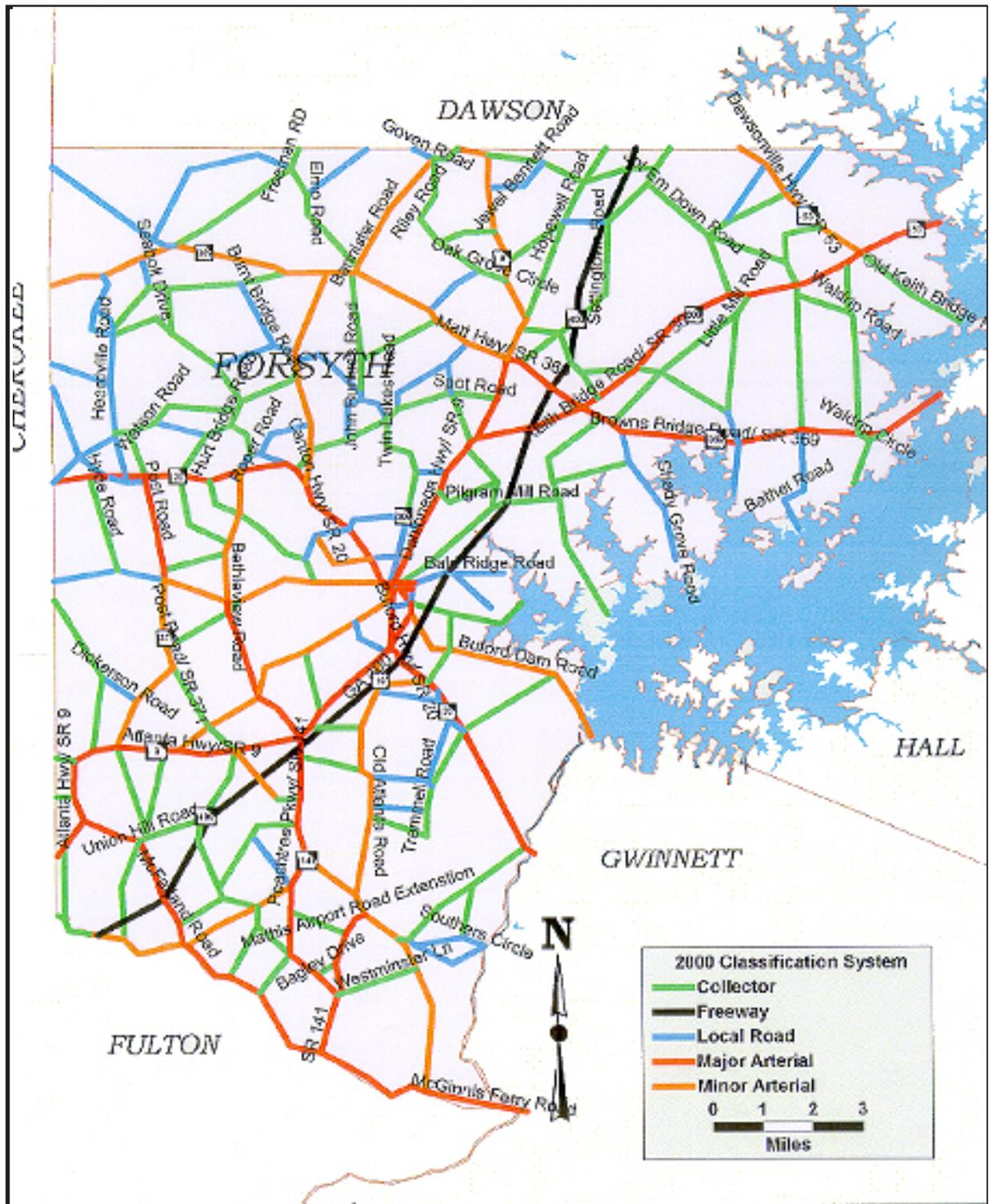


FIGURE 8.2: 2000 ANNUAL AVERAGE DAILY TRAFFIC (AADT) - BASE YEAR

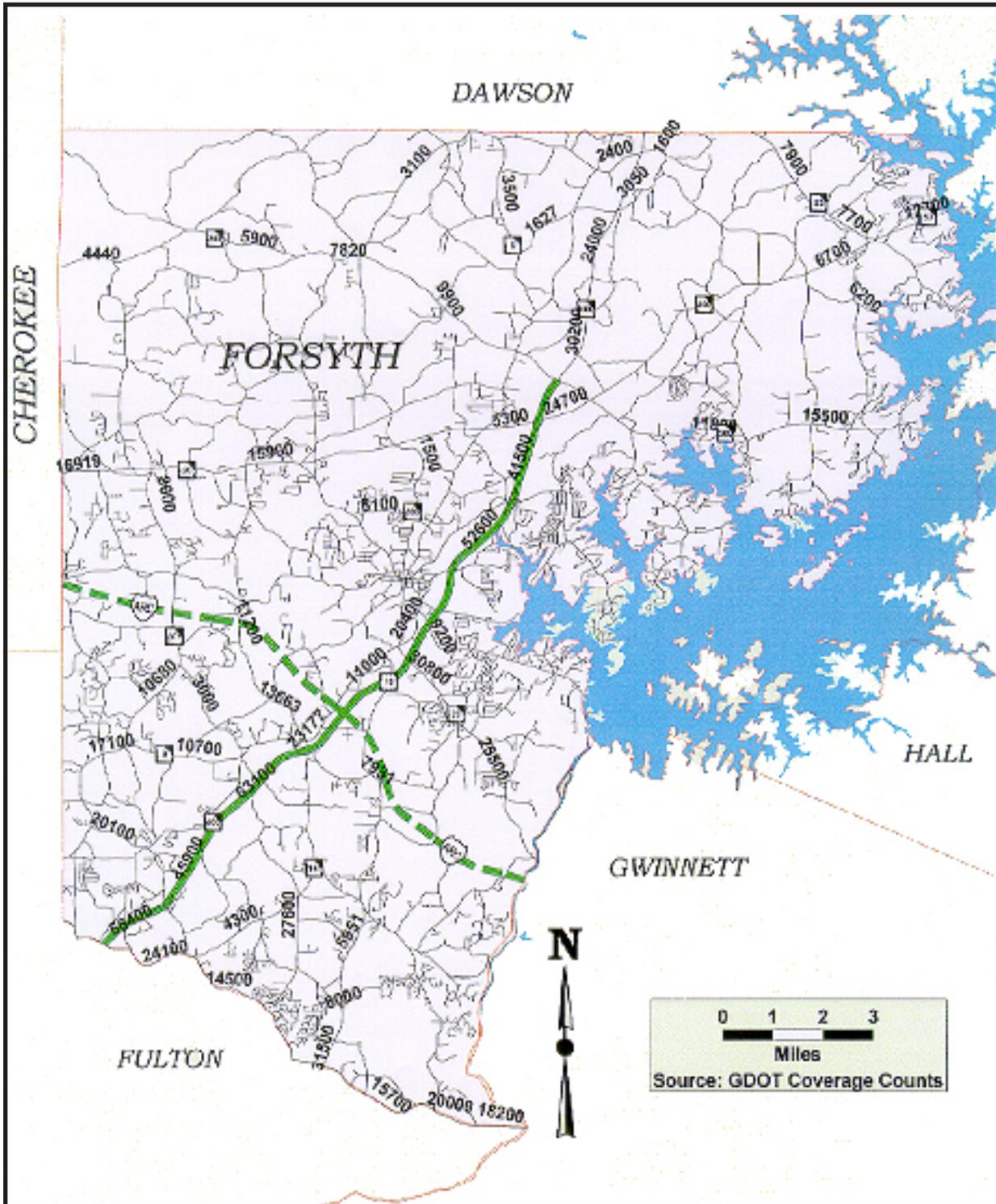


FIGURE 8.3: EXISTING HIGHWAY POSTED SPEED LIMITS

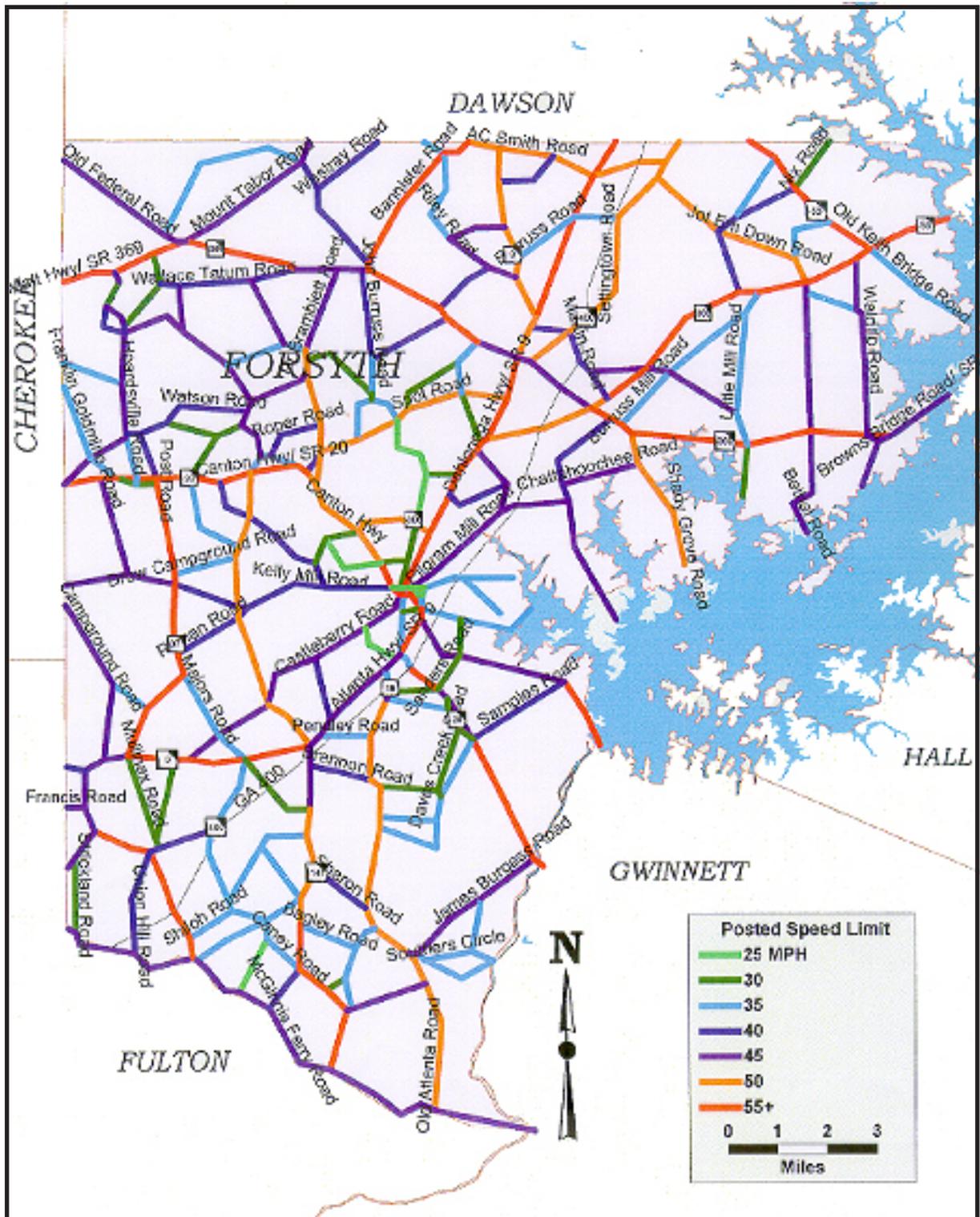
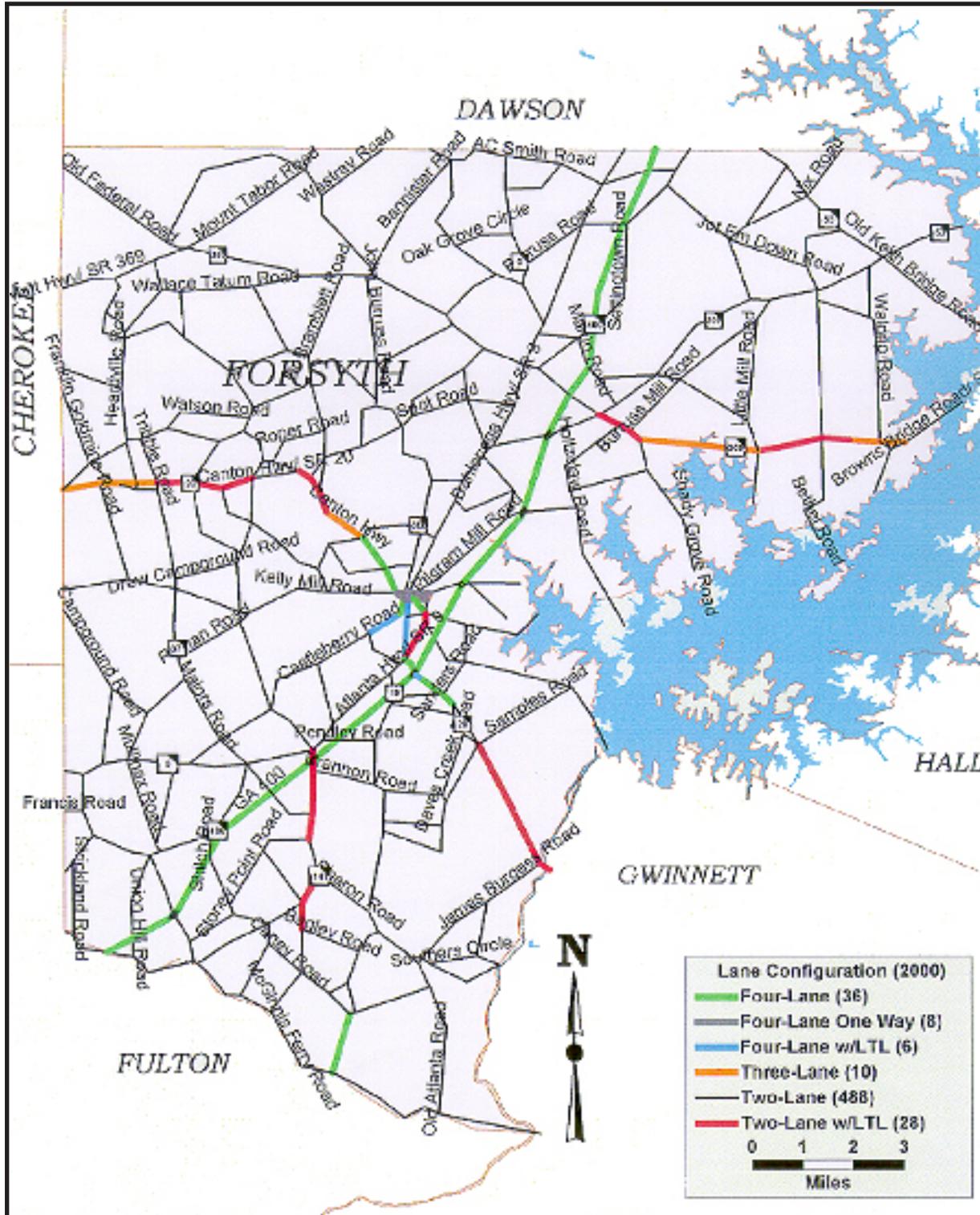


FIGURE 8.4: EXISTING ROADWAY LANE CONFIGURATION



The element of the study focusing on the Northern Sub-area of the Atlanta region is focusing on longer-term land use and development strategies to manage the transportation demand in the future for this vibrant and growing area. The study area is generally defined as: I-75 on the west, I-285 on the south, I-85 on the east, and three miles north of SR 20 on the north. A section of GA 400 between the northern boundary of the study and SR 369 is also included in the study and has eastern and western boundaries that extend three miles in either direction of GA 400. The results of the Northern Sub-area Study were completed in 2003.

#### *S.R. 9*

SR 9 from SR 20 to Maple Street is currently a three-lane urban arterial leading into the City of Cumming. This section of SR 9 is predominantly fronted by strip commercial development.

SR 9 from SR 141 to SR 20 is currently a two-lane rural arterial running parallel to State Route 400. A significant amount of strip commercial development along SR 9 between SR 20 and SR 141 is expected in the future. The interchange of SR 20 and SR 400 is already a large commercial node while the interchange of SR 400 and SR 141 will be a relatively large commercial node in the near future. Projected traffic volumes will be the result of traffic to and from the commercial uses rather than through traffic. GDOT has identified this section of SR 9 to be widened to four lanes.

SR 9 from the Fulton County line to SR 141 is currently a two-lane arterial. The section of SR 9 from Hamby Road to McFarland Road carries a significant amount of traffic due to through southbound traffic from Cherokee County to GA 400.

SR 9 from Maple Street to SR 306 is currently a two-lane arterial leading into the City of Cumming from the north and running parallel to GA 400. As residential development spreads northward, an increase in roadway capacity will be required for this segment. However, the extension of SR 306, currently programmed by GDOT, will divert through traffic from this section of SR 9.

#### *Hutchinson Road*

Hutchinson Road is a two-lane minor arterial connecting Castleberry Road and SR 9 along the City of Cumming's city limits. Hutchinson Road is currently over capacity and provides traffic relief from SR 9. Current plans call for construction of a three-lane section with a center turn lane from Castleberry Road to SR 9. A new alignment will be constructed on about one half of Hutchinson Road East to form a new intersection on SR 9 at Old Atlanta Road.

#### *S.R. 20*

SR 20 east of GA 400 is currently a two-lane rural arterial connecting GA 400 with I-985 and I-85 in Gwinnett County. This section of SR 20 is currently over capacity. Continued residential and commercial development along this roadway will continue to increase traffic volumes. GDOT has plans to widen SR 20 from GA 400 to Samples Road from two lanes to four lanes with a median. The project is schedule to begin in 2003.

SR 20 west of the City of Cumming to Cherokee County is currently a five/three-lane section with a two-way left turn lane.

#### *S.R. 141*

SR 141 is currently a two-lane arterial with a center turn lane along much of this section, and connects development in north Fulton County to GA 400. As residential development continues to occur, more commercial development will take place along SR 141 much like the recent commercial center at SR 141 and McGinnis Ferry Road and existing developments in North Fulton County. GDOT has plans to widen SR 141 to four lanes, and has scheduled the widening for fiscal year 2007.

#### *McGinnis Ferry Road*

McGinnis Ferry Road is currently a two-lane arterial running along the county line of Forsyth County and Fulton County. McGinnis Ferry Road bridges the Chattahoochee River and is already four lanes wide with a median in Gwinnett County. This roadway has become a major east-west corridor connecting SR 141 and SR 400 to I-85. Continued residential, industrial and commercial development along this corridor has increased traffic volumes above capacity. Forsyth County, in cooperation with Fulton County, is in the process of widening McGinnis Ferry Road to four lanes with a median west of the Chattahoochee River, to Sargent Road.

#### *McFarland Road*

McFarland Road was recently improved, and is currently a four-lane road with a 44-foot median. McFarland Road connects McGinnis Ferry Road and SR 9 with an interchange at SR 400. McFarland Road has and will continue to experience rapidly growing traffic volumes as the development of industrial parks such as John's Creek Park, Blue Grass Park, and Windward Park continues. Multifamily residential development along with large office parks near SR 400 combine to create high peak hour levels of traffic congestion on a daily basis. GDOT is planning to improve the interchange at GA 400.

#### *Old Atlanta Road*

Old Atlanta Road is a two-lane rural minor arterial providing access from McGinnis Ferry Road to the new Market Place Parkway expansion. There are many major residential developments located on Old Atlanta Road, some of which contain 500 or more homes. Old Atlanta Road runs relatively parallel to SR 141, thus diverting some traffic from that roadway.

#### *Sharon Road*

Sharon Road is currently a two-lane rural minor arterial connecting SR 141 on the west to Old Atlanta Road on the east. As development continues in this portion of Forsyth County, Sharon Road will need to be improved in order to provide better access to SR 141 and SR 400 from residential areas around Old Atlanta Road.

#### *Mathis Airport Road*

Mathis Airport Road is currently a two-lane rural collector connecting SR 141 to Old Atlanta

Road. Mathis Airport Road will need to be extended from Old Atlanta Road to SR 20 in order to provide a suitable continuous north-south arterial from SR 141 to SR 20.

*S.R. 306*

SR 306 is a two-lane rural arterial connecting GA 400 with the extreme northeast portion of Forsyth County. Currently, the corridor is operating below capacity. However, the section from GA 400 to SR 369 has reached capacity and must be widened. The Georgia Department of Transportation has proposed to extend SR 306 from SR 20 to SR 9 as a part of its long-range plan. This four-lane roadway with a 44-foot median will provide better east-west cross-county movement and divert traffic from the City of Cumming. GDOT has also programmed the improvement of the intersection of SR 306 and SR 369 for the fiscal year 2003.

*S.R. 369*

SR 369 is a two-lane rural arterial extending through Forsyth County from Cherokee County to Hall County, and has a very high percentage of truck traffic. SR 369 from SR 400 to the Hall County line serves many residential communities located along Lake Lanier. GDOT has programmed the improvement of the SR 306 and SR 369 intersection for the fiscal year 2003.

*S.R. 53*

SR 53 is currently a two-lane rural arterial cutting through the northeast corner of the County. SR 53 primarily provides access between Gainesville and Dawsonville and provides access to residential areas along Lake Lanier. The Hall County Transportation Plan has identified the need for four-lanes on SR 53.

*Bethelview Road*

Bethelview Road is a two-lane rural arterial connecting SR 20 from the north to SR 9 and SR 141 to the south. Continued residential and commercial development along Bethelview Road will gradually increase traffic volumes above its current capacity. The County currently has conceptual plans to widen Bethelview Road in the near future. Some intersection improvements in this corridor intended to improve traffic flow have already been implemented or are underway.

*Kelly Mill Road*

Kelly Mill Road is currently a two-lane rural collector leading into the City of Cumming from the western portion of the County. Due to extreme horizontal and vertical curves, Kelly Mill Road is currently an operationally substandard road. Increased residential development along this corridor will require Kelly Mill Road to be substantially improved in the future.

*Castleberry Road*

Castleberry Road is currently a two-lane, rural collector that parallels SR 9 and will continue to see traffic volumes increase as SR 9 becomes more congested. Increased residential development along this corridor will require Castleberry Road to be improved in the future. In the past year, several very large residential developments with frontage on Castleberry Road have been approved for construction.

### *S.R. 371 (Post Road)*

SR 371, also known as Post Road, is currently a two-lane rural arterial running parallel to Bethelview Road. It primarily provides access between SR 20 to the north and SR 9 to the south. Residential development is expected to continue along the Post Road corridor, especially along connecting side roads, with pockets of commercial development at other major intersections.

### *Doc Bramblett Road*

Doc Bramblett Road is currently a two-lane rural collector connecting SR 369 to the north and SR 20 to the south. It is a standard rural road with a significant percentage of truck traffic. Currently, there is no adequate access from SR 369 to SR 20 west of SR 9 in Forsyth County. As development gradually increases in this area, Doc Bramblett Road will need to be improved to provide better access in this area.

### *Collector Road System*

The collector road system will run parallel to SR 400 from McGinnis Ferry Road to SR 306. This road system will provide alternate access between major east/west arterials as well as a much needed, potential detour route for SR 400 in the event of emergency closings. The section from SR 306 to Pilgrim Mill Road recently opened and the section from SR 20 to SR 141 is in various states of construction and right-of-way acquisition.

## **ACCIDENT FREQUENCY**

The accident history of roadways helps identify intersections and roadways where potential safety improvements should be considered. The Georgia Department of Transportation's (GDOT) document *Intersection Worth Improvement Potential*, was based on a safety index that includes 1997 accident frequency, accident rate, and accident severity. According to the document, there are two intersections within Forsyth County that qualify for improvements. SR 400 at Settingdown Circle had experienced eight accidents in 1997, six with injuries. Improvements for this intersection will be let to construction in April of 2004. SR 369 at Shady Grove Road had experienced seven accidents in 1997, three with injuries. Improvements for this intersection are also currently underway, with right-of-way acquisition expected to be complete in 2004 and construction to begin when funded and let to contract by GDOT.

In addition to the GDOT report, the Forsyth County Department of Engineering regularly reviews the traffic incident reports and enters them into a database which is used to determine if roadways or intersections warrant further safety studies. Once the studies are completed, projects are identified and prioritized to be incorporated into the Major Transportation Plan or the Intersection Improvement Program for funding.

## SIGNALIZATION AND SIGNAGE

### Signals

Forsyth County installed the first county maintained traffic signal in 1998. The following is a list of current traffic signals that are maintained by Forsyth County:

- 1) Bethelview Road @ Castleberry Road
- 2) Pilgrim Mill @ Holtzclaw Road
- 3) Old Atlanta Road @ Three Chimneys
- 4) McFarland Road @ McGinnis Ferry Road
- 5) McFarland Road @ Union Hill Road
- 6) McGinnis Ferry Road @ John's Creek Parkway
- 7) McGinnis Ferry Road @ New Boyd Road
- 8) Buford Dam Road @ Nuckolls Road
- 9) Buford Dam Road @ Sanders Road
- 10) Old Atlanta Road @ Westminster Lane
- 11) Old Atlanta Road @ James Burgess Road
- 12) Old Atlanta Road @ Sharon Road
- 13) Bethelview Road @ Kelly Mill Road
- 14) McGinnis Ferry Road @ K-Mart Driveway
- 15) McGinnis Ferry Road @ Old Atlanta Road
- 16) Market Place Parkway @ Old Atlanta Road
- 17) Market Place Parkway @ Brannon Road
- 18) Sharon Road @ Kroger
- 19) Freedom Parkway @ Pilgrim Mill Road
- 20) McFarland Road @ Curie Drive
- 21) McFarland Road @ Shiloh Road
- 22) McFarland Road @ Bluegrass Valley
- 23) McFarland Road @ Bluegrass Lakes
- 24) McFarland Road @ McFarland 400 Boulevard
- 25) Freedom Parkway @ Kroger
- 26) McFarland Road @ Trotters Pkwy

Fulton County maintains the signals at:

- 1) McGinnis Ferry @ Sargent Road
- 2) McGinnis Ferry @ Brookwood Road

The City of Cumming maintains the signals at:

- 1) Market Place Blvd at Buford Dam Road
- 2) Market Place Blvd at Kholes/Target Drive
- 3) Tribble Gap Road @ Elm Street
- 4) Tribble Gap Road @ Otwell Middle School Drive

The City of Alpharetta maintains the signal at McGinnis Ferry @ Windward Parkway. The remaining signals are maintained by Georgia Department of Transportation.

The need for additional signals in Forsyth County is determined by the Georgia Department of Transportation for state routes and the Forsyth County Engineering Department for county roadways. There are no major issues with the conditions of the traffic signals in Forsyth County. The County Traffic Operations Specialist is in charge of maintaining the county controlled traffic signals as needed.

### **Signage**

There are no major issues with the county's signage. To address regular maintenance needs, a signage program is currently being implemented by Forsyth County Engineering Department. Two traffic control technicians are employed to inventory, erect, replace and repair the county maintained road signage as needed. Signs on state routes are maintained by the Georgia Department of Transportation.

## **BRIDGES**

An inventory of the county's bridges, including the location and condition is presented on the following pages in **Table 8.2**. The Forsyth County road system provides many alternative routes throughout the county. Therefore, the county's bridge system is not significant to evacuation routes in cases of natural disaster.

**TABLE 8.2: BRIDGE INVENTORY**

BRIDGE NAME	LOCATION	TYPE	SIZE	LENGTH	BUILT	RATING
ABERDEEN PARKWAY	OVER DICK CREEK	CULVERT	Triple 9'x8''''	136'	1990	GOOD
BENNETT ROAD	UNNAMED CREEK	CULVERT	DBL 7'x7'	52'	1997	GOOD
BENTLEY ROAD	OVER BENTLEY CREEK	CULVERT	Triple 10'x8'x36'	36'	1973	GOOD
BETHELVIEW ROAD	OVER BIG CREEK	BRIDGE STRUCTURE	2-Lane Concrete	111'	1966/1990	FAIR
BETHELVIEW ROAD	OVER CHEATHAM CREEK	CULVERT	Double 10'x9''76'	76'	1960	FAIR
BURNT BRIDGE ROAD	OVER SETTINGDOWN CREEK	BRIDGE STRUCTURE	2-Lane Concrete	61'	1994	GOOD
BURRUSS MILL ROAD	OVER SIX MILE CREEK	BRIDGE STRUCTURE	2-Lane Wooden	60'	1993	GOOD
CASTLEBERRY ROAD	OVER SAWMILL CREEK	CULVERT	Triple 8'x6'x50'	50'	1998	GOOD
CHAMBLEE GAP ROAD	OVER CHEATHAM CREEK	CULVERT	Triple 8'x8'x60'	60'	1999	GOOD
DR. BRAMBLETT ROAD	OVER SETTINGDOWN CREEK	BRIDGE STRUCTURE	2-Lane Concrete	145'	1958/1989	FAIR
DREW CAMPGROUND RD	OVER HARRIS CREEK	CULVERT	Quad 10'x6'	58'	2001	
HOPEWELL ROAD	OVER SETTINGDOWN CREEK	CULVERT	10'X6'33'	33'	1941	FAIR
HUBERT MARTIN ROAD	OVER SETTINGDOWN CREEK	CULVERT	Triple 9'x9'x34'	34'	1983	FAIR
HURT BRIDGE ROAD	OVER YELLOW CREEK	CULVERT	Triple 6'x6'	52'	1997	GOOD
JAMES BURGESS ROAD	OVER JAMES CREEK	CULVERT	Quad 10'x7'x96'	96'	1989	FAIR
JOHN BURRUSS ROAD	OVER SETTINGDOWN CREEK	CULVERT	Quad 10'x9'x36'	36'	1978	GOOD
KELLEY MILL ROAD	OVER CHEATHAM CREEK	CULVERT	Triple 10'x6'x40'	40'	1988	GOOD
KELLY MILL ROAD	KELLEY MILL BRANCH	CULVERT	Quad 8'x6'x40'	40'	1979	FAIR
MAJORS ROAD	OVER BIG CREEK	BRIDGE STRUCTURE	2-Lane Concrete	100'	1996	GOOD
MCCOY CIRCLE	OVER YELLOW CREEK	CULVERT	DBL 8'x8'x62'	62'	1998	GOOD
MCFARLAND ROAD	OVER BIG CREEK	BRIDGE STRUCTURE	2-Lane Concrete	160'	1977/1995	GOOD
MILFORD ROAD	OVER TWO MILE CREEK	CULVERT	Triple 84" CMP	80'	1987	GOOD
MT. TABOR ROAD	OVER BREWTON CREEK	CULVERT	Double 10'x10'x38'	38'	1973	GOOD
NICHOLSON ROAD	OVER BANNISTER CREEK	CULVERT	DBL-DBL 10'x8'x42'	42'	1989	FAIR
OLD ALPHARETTA ROAD	OVER BIG CREEK	CULVERT	Triple 10'x6'	56'	2001	GOOD
OLD ATLANTA ROAD	OVER DICK CREEK	CULVERT	Triple 10'x11'x45'	45'	1969	FAIR

OLD ATLANTA ROAD	OVER JAMES CREEK	CULVERT	Triple 10'x11'x51'	51'	1992	GOOD
OLD FEDERAL ROAD	OVER ETOWAH RIVER	BRIDGE STRUCTURE	2-Lane Concrete	220'	1984	FAIR
PILGRIM MILL ROAD	OVER SAWNEE CREEK	CULVERT	Triple 9'x6'x38'	38'	1978	GOOD
PILGRIM MILL ROAD	OVER BALDRIDGE CREEK	CULVERT	Triple 10'x8'x54'	54'	1992	GOOD
PISGAH ROAD	OVER YELLOW CREEK	CULVERT	DBL 8'x7'x64'	64'	1998	GOOD
PITTMAN ROAD	OVER CHEATHAM CREEK	CULVERT	Quad 10'x6'x40'	40'	1979	FAIR
POLO DRIVE	OVER BIG CREEK	CULVERT	DBL-DBL 12'x12'	64'	1987	GOOD
POOLES MILL ROAD	OVER SETTINGDOWN CREEK	BRIDGE STRUCTURE	1-Lane Wooden	220'	1988	GOOD
SAMPLES ROAD	OVER HAW CREEK	CULVERT	DBL 8'x7'	65'	2001	
SHILOH ROAD	OVER BAGLEY CREEK	CULVERT	DBL-DBL 10'X6'X50'	50'	1998	GOOD
STONEY POINT ROAD	OVER BAGLEY CREEK	CULVERT	DBL-DBL 10'X4'X50'	50'	1998	GOOD
TRAMMEL ROAD	OVER DAVES CREEK	BRIDGE STRUCTURE	2-Lane Wooden	50'	1999	GOOD
UNION HILL ROAD	OVER BIG CREEK	CULVERT	Five 10'x10'x44'	44'	1985	FAIR
WALLACE TATUM ROAD	OVER SETTINGDOWN CREEK	BRIDGE STRUCTURE	2-Lane Concrete	180'	1987	FAIR
WRIGHT BRIDGE ROAD	OVER SETTINGDOWN CREEK	BRIDGE STRUCTURE	2-Lane Concrete	120'	1980	FAIR
30 - Culverts	11 - Bridge Structures					

### **STATE TRANSPORTATION IMPROVEMENT PROGRAM**

The State Transportation Improvement Program (STIP) was developed under guidelines provided by the Transportation Equity Act for the 21st Century (TEA-21), passed by Congress in 1998. TEA-21 continues the initiatives started under the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA). The STIP includes Highway, Bridge, Bicycle, Pedestrian, Transportation Enhancement Activities and Public Transportation (transit) projects.

The State has several projects underway in Forsyth County as part of the 2003-2005 STIP on **Table 8.3**. The projects that are proposed for the County in the draft 2004-2006 STIP are listed in **Table 8.4**.

### **BIKE AND PEDESTRIAN PATHWAYS**

Forsyth County has few existing bicycle and pedestrian facilities. Although the County does not have an ordinance requiring sidewalk installation within developments, many subdivisions have elected to provide interior sidewalks. However, these sidewalks currently do not extend beyond these developments to provide connectivity to schools, parks or employment areas. To address this need, the Forsyth County Bicycle Transportation and Pedestrian Walkways Plan was adopted in April of 2002.

### **SIGNIFICANT PARKING FACILITIES**

There are currently no park and ride lots or other significant parking facilities in Forsyth County.

### **PUBLIC TRANSPORTATION**

There is currently no fixed route transit or intercity bus service in Forsyth County, limiting the county's transportation options and focusing attention on single occupancy vehicles. However, the County is now within the jurisdiction of the Georgia Regional Transportation Authority and is included in the pending Regional Express Bus Service Plan. As an option to traditional public transportation, the County has created a Dial-A-Ride program to meet the needs of county residents. The Dial-A-Ride program operates three vans, one 14 passenger and two lift vans for wheelchair service, and maintains one van in Forsyth County at all times. The program is classified as 'on call', meaning there is no set route and residents make appointments for rides. The current fee schedule includes trips ranging from \$1.50 to \$4.50. Dial-A-Ride is operated by the Forsyth County Department of Engineering, and is funded by the Board of Commissioners, the Georgia Department of Transportation, and passenger fees.

### **OTHER MODES OF TRANSPORTATION**

There are no freight or passenger rail lines in Forsyth County. There are currently two private airfields in the southern portion of the County. Stoney Point Airfield and Mathis Road Airfield are private facilities that can accommodate small aircraft. Based on existing land use patterns, the expansion of either facility is unlikely.

**TABLE 8.3: STIP IMPROVEMENTS FOR FORSYTH COUNTY 2003 - 2005**

**STATE TRANSPORTATION IMPROVEMENT PROGRAM**

**DOT DISTRICT: 1**

**2/3/2003**

**Forsyth**

Project:	Type Work:	Phase	Fund	Year	Fed	State	Other	Total
122250-	Widening	PE	STP	Underway				
Descp: SR 20 FM SR 400 TO SAMPLE ROAD/CR 80		ROW	STP	Underway				
Lanes: Exist. 2	Prop. 4	CST	STP	2004	4,716,000.00	1,179,000.00	0.00	\$5,895,000.00
	Length: 2.02							
	TIP#: FT 004							
132940-	Intersection Improvement	PE	STP	Underway				
Descp: SR 400/US 19 AT SETTINGDOWN ROAD/CR 176 NE OF CUMMING		ROW	Local	LOCL	0.00	0.00	300,000.00	\$300,000.00
	Length: 0.40	CST	STP	LUMP	324,900.00	36,100.00	0.00	\$361,000.00
	TIP#: AR 157							
LUMP SUM PROJECT								
141870-	Interchange	PE	STP	Underway				
Descp: SR 400 AT MCFARLAND ROAD INTERCHANGE RECONSTRUCTION		ROW	STP	2003	3,000,000.00	750,000.00	0.00	\$3,750,000.00
	Length: 0.40	CST	STP	2003	8,639,200.00	2,159,800.00	0.00	\$10,799,000.00
	TIP#: FT 007A							
141880-	Widening	PE	STP	2003	4,000.00	1,000.00	0.00	\$5,000.00
Descp: BETHELVIEW RD/SR 1005 FM SR 9 TO SR 20 INCLUDE SR 20 INT.		ROW	STP	After 2005				
Lanes: Exist. 2	Prop. 4	CST	STP	After 2005				
	Length: 6.11							
	TIP#: FT 008							
142300-	Intersection Improvement	PE	STP	Underway				
Descp: SR 371 AT KELLY MILL ROAD/CR 5		ROW	Local	LOCL	0.00	0.00	300,000.00	\$300,000.00
	Length: 0.40	CST	STP	LUMP	1,314,000.00	146,000.00	0.00	\$1,460,000.00
	TIP#: AR 157							
LUMP SUM PROJECT								
722020-	Widening	PE	RRB	2004	0.00	1,000,000.00	0.00	\$1,000,000.00
Descp: SR 400 FM SR 120/OLD MILTON PKWY/FULTON TO SR 20/FORSYTH		CST	NHS	After 2005				
Lanes: Exist. 4	Prop. 8							
	Length: 11.36							
	TIP#: FN AR 198							
M001752	Resurface & Maintenance	CST	NHS	LUMP	12,343,870.00	3,085,966.00	0.00	\$15,429,836.00
Descp: SR 400 FROM I-285 TO SR 306								
	Length: 36.19							
	TIP#: AR 311							
LUMP SUM PROJECT								
0002317	Sidewalks	CST	STP	LUMP	165,000.00	0.00	41,250.00	\$206,250.00
Descp: PED. IMPVMENTS TO BEAR CREEK; ADAMS ST; AND CREST DR/LAVONIA								
	Length: 0.00							
LUMP SUM PROJECT								
0003898	Landscaping	CST	STP	LUMP	449,600.00	112,400.00	0.00	\$562,000.00
Descp: LANDSCAPING ON I-85 IN FRANKLIN AND HART COUNTIES								
	Length: 1.00							
LUMP SUM PROJECT								
122080-	Widening	PE	STP	Underway				
Descp: SR 17 FM SE CR 67/ROSS PL N LAVONIA TO SE STEPHENS CL&BR		ROW	Bond	Underway				
Lanes: Exist. 2	Prop. 4	ROW	RRB	2003	0.00	11,500,000.00	0.00	\$11,500,000.00
	Length: 4.30	CST	RRB	2003	0.00	7,500,000.00	0.00	\$7,500,000.00

TABLE 8.4: DRAFT STIP IMPROVEMENTS FOR FORSYTH COUNTY 2004 - 2006

STATE TRANSPORTATION IMPROVEMENT PROGRAM										
8/8/2003										
Draft										
DOT DISTRICT: 1										
Forsyth										
Project:	0000810	Type Work:	Intersection Improvement	Phase	Fund	Year	Federal	State	Other	Total
Descp:	SR 9 AT 6 INTERSECTIONS AND SR 20 AT TRIBBLE RD			PE	STP	Underway				
		Length:	2.40	ROW	STP	2005	\$664,000	\$166,000	\$0	\$830,000
		TIP#:	AR-157	CST	STP	After 2006				
Project:	0000812	Type Work:	Intersection Improvement	Phase	Fund	Year	Federal	State	Other	Total
Descp:	SR 306/KEITH BRIDGE RD @ SR 53; SHADBURN/PARKS & WALDRIP RD			PE	STP	Underway				
		Length:	0.80	ROW	STP	2005	\$1,484,000	\$371,000	\$0	\$1,855,000
		TIP#:	AR-157	CST	STP	After 2006				
Project:	0001757	Type Work:	HOV Lanes	Phase	Fund	Year	Federal	State	Other	Total
Descp:	SR 400 FROM I-285 TO MCFARLAND ROAD/FORSYTH CO FOR HOV LANES			PE	NHS	After 2006				
		Length:	17.06	PE	NHS	2005	\$3,200,000	\$800,000	\$0	\$4,000,000
		TIP#:	*ILLUST AR	ROW	NHS	After 2006				
				CST	NHS	After 2006				
Project:	0002862	Type Work:	Widening	Phase	Fund	Year	Federal	State	Other	Total
Descp:	SR 20 FROM SR 369/CHEROKEE TO SR 371/FORSYTH			PE	STP	2004	\$1,120,000	\$280,000	\$0	\$1,400,000
	Lanes: Exist. 2 Prop. 4	Length:	6.37	ROW	STP	After 2006				
		TIP#:	*NIRTPDON	CST	STP	After 2006				
Project:	0003682	Type Work:	Widening	Phase	Fund	Year	Federal	State	Other	Total
Descp:	SR 20 FROM SR 371 TO SR 400			PE	STP	2006	\$1,760,000	\$440,000	\$0	\$2,200,000
	Lanes: Exist. 2 Prop. 4	Length:	8.39	ROW	STP	After 2006				
		TIP#:	*NIRTPDON	ROW	STP	After 2006				
				ROW	STP	After 2006				
				ROW	STP	After 2006				
				ROW	STP	After 2006				
				CST	STP	After 2006				
Project:	0004429	Type Work:	Widening	Phase	Fund	Year	Federal	State	Other	Total
Descp:	MCGINNIS FERRY ROAD FROM SARGENT ROAD TO CHATTAHOOCHEE RIVER			PE	Local	LOCL	\$0	\$0	\$630,000	\$630,000
		Length:	5.39	ROW	Bond	2004	\$0	\$8,000,000	\$0	\$8,000,000
		TIP#:	FN AR 201	CST	Bond	2005	\$0	\$12,600,000	\$0	\$12,600,000
Project:	121980-	Type Work:	Widening	Phase	Fund	Year	Federal	State	Other	Total
Descp:	SR 141 FM 0.6 MI NORTH OF FULTON CO LINE TO SR 9			PE	STP	Underway				
	Lanes: Exist. 2 Prop. 4	Length:	6.81	ROW	STP	Underway				
		TIP#:	FT-002A&B	CST	Bond	2005	\$0	\$11,005,000	\$0	\$11,005,000
				CST	STP	2005	\$7,996,000	\$1,999,000	\$0	\$9,995,000
Project:	122250-	Type Work:	Widening	Phase	Fund	Year	Federal	State	Other	Total
Descp:	SR 20 FM SR 400 TO SAMPLE ROAD/CR 80			PE	STP	Underway				
	Lanes: Exist. 2 Prop. 4	Length:	2.02	ROW	STP	Underway				
		TIP#:	FT-004	CST	STP	2004	\$4,716,000	\$1,179,000	\$0	\$5,895,000
Project:	132630-	Type Work:	Interchange	Phase	Fund	Year	Federal	State	Other	Total
Descp:	SR 400 AT SR 20 INTERCHANGE RECONSTRUCTION			ROW	NHS	Underway				
		Length:	0.40	CST	NHS	2006	\$3,989,279	\$997,320	\$0	\$4,986,599
		TIP#:	FT-011							
Project:	132940-	Type Work:	Intersection Improvement	Phase	Fund	Year	Federal	State	Other	Total
Descp:	SR 400/US 19 AT SETTINGDOWN ROAD/CR 176 NE OF CUMMING			PE	STP	Underway				
		Length:	0.40	ROW	Local	LOCL	\$0	\$0	\$300,000	\$300,000
		TIP#:	AR-118	CST	STP	LUMP	\$324,900	\$36,100	\$0	\$361,000
LUMP SUM PROJECT										

**STATE TRANSPORTATION IMPROVEMENT PROGRAM**

**8/8/2003**

**Draft**

**DOT DISTRICT: 1**

**Forsyth**

<i>Project: 132985- Type Work: Replace Bridge</i>			<b>Phase</b>	<b>Fund</b>	<b>Year</b>	<b>Federal</b>	<b>State</b>	<b>Other</b>	<b>Total</b>
<i>Descp: SR 20/CUMMING HWY @ CHATTAHOOCHEE RIVER @ FORSYTH CO LINE</i>			PE	Bridge	Underway				
<i>Lanes: Exist. 2 Prop. 4 Length: 0.40</i>			ROW	STP	2006	\$400,000	\$100,000	\$0	\$500,000
<i>TIP#: GW-288</i>			CST	Bridge	After 2006				
			CST	STP	After 2006				
<i>Project: 142260- Type Work: Replace Bridge</i>			<b>Phase</b>	<b>Fund</b>	<b>Year</b>	<b>Federal</b>	<b>State</b>	<b>Other</b>	<b>Total</b>
<i>Descp: SR 369/MATT ROAD @ SETTINGDOWN CREEK 6 MI N OF CUMMING</i>			PE	Bridge	Underway				
<i>Length: 0.40</i>			ROW	Bridge	2006	\$12,000	\$3,000	\$0	\$15,000
<i>TIP#: FT-060</i>			CST	Bridge	After 2006				
<i>Project: 142300- Type Work: Intersection Improvement</i>			<b>Phase</b>	<b>Fund</b>	<b>Year</b>	<b>Federal</b>	<b>State</b>	<b>Other</b>	<b>Total</b>
<i>Descp: SR 371 AT KELLY MILL ROAD/CR 5</i>			PE	STP	Underway				
<i>Length: 0.40</i>			ROW	Local	LOCL	\$0	\$0	\$300,000	\$300,000
<i>LUMP SUM PROJECT TIP#: AR-157</i>			CST	STP	LUMP	\$1,314,000	\$146,000	\$0	\$1,460,000
<i>Project: 722020- Type Work: Widening</i>			<b>Phase</b>	<b>Fund</b>	<b>Year</b>	<b>Federal</b>	<b>State</b>	<b>Other</b>	<b>Total</b>
<i>Descp: GRTA SR 400 FM HAYNES BRIDGE RD/FULTON TO SR 20/FORSYTH</i>			PE	Bond	2004	\$0	\$1,000,000	\$0	\$1,000,000
<i>Lanes: Exist. 4 Prop. 8 Length: 11.36</i>			CST	NHS	After 2006				
<i>TIP#: FN-AR-198A</i>									

## ASSESSMENT

Roadway segments and intersections are designed to carry a specific number of vehicles within a specific time period under prevailing conditions. This is referred to as the design capacity for that roadway segment or intersection. Once the roadway or intersection capacity is calculated and the actual number of vehicles using a roadway segment or intersection is determined, it is possible to develop a measure of efficiency for the segment or intersection. This measure is expressed as the Roadway Level of Service (LOS). The LOS is a concept to evaluate the operation of a roadway or intersection using a range of values, from “A” as the best to “F”, as the worst.

### Adopted Levels of Service

The concept of levels of service (LOS) is defined as a qualitative measure describing operational conditions within a traffic stream, and their perception by motorists and/or passengers.

Level of service **A** represents free flow conditions. Individual users are virtually unaffected by the presence of others in the traffic stream. Freedom to select desired speeds and to maneuver within the traffic stream is extremely high.

Level of service **B** is in the range of stable flow, but the presence of other users in the traffic stream begins to be noticeable. Freedom to select desired speeds is relatively unaffected, but there is a slight decline in the freedom to maneuver within the traffic stream from LOS A.

Level of service **C** is in the range of stable flow, but marks the beginning of the range of flow in which the operation of individual users becomes significantly affected by interactions with others in the traffic stream.

Level of service **D** represents high density, but stable flow. Speed and freedom to maneuver are severely restricted, and the driver experiences a generally poor level of comfort and convenience.

Level of service **E** represents operating conditions at or near the capacity level. Freedom to maneuver within the traffic stream is extremely difficult. Comfort and convenience levels are extremely poor, and driver frustration is generally high.

Level of service **F** is used to define forced or breakdown flows. This condition exists when the amount of traffic approaching a point exceeds the amount that can traverse the point.

Often, a community will “adopt” a level of service to represent a policy decision or goal with respect to the operation of its roadway facilities. Essentially, the adopted level of service expresses, in general terms, how well a community wants its roadway system to function.

The Florida Department of Transportation (FDOT) along with the Transportation Research

Board (TRB) has conducted extensive studies and research on methodologies for calculating highway levels of service. FDOT has developed a manual entitled “*Florida’s Level of Service Standards and Guidelines Manual for Planning*”. Local governments throughout Florida as well as private entities use the manual to determine the existing and future levels of service for existing and future roadway facilities at the planning level (vs. the more detailed traffic operational level). For planning purposes,

In the previous version of the Major Transportation Plan, the highway Level of Service was calculated using criteria included in the *Forsyth County Comprehensive Plan*. The roadway capacities used for the previous analysis of capacity deficiencies utilized a blended capacity of both Level of Service “C” and “D”. At LOS “A”, the total number of vehicles per hour or per day would not be greater than 71 percent of the maximum capacity of the roadway, thus giving a Volume to Capacity (v/c) ratio of 0.71. At LOS “B” the v/c ratio is 0.75, at LOS “C” the v/c ratio is 0.80, while at LOS “D” the v/c ratio is 0.92. LOS “E” is the condition when use is equal to 100 percent of capacity or a v/c ratio of 1.00. LOS “F” represents a breakdown of traffic flow with a v/c ratio greater than 1.00.

### **LOS Analysis Methodology**

In order to account for the differences in functional classification and location and character of the roadway, which can affect its capacity, for the 2002 Plan Update, it was decided that the FDOT level of service methodology would be used to determine the volume-to-capacity (v/c) ratios. Using the FDOT service volumes for LOS “D” and traffic count data from Forsyth County and GDOT, volume-to-capacity (v/c) ratios could be calculated. Once the v/c ratios were calculated for the existing roadway segments, they were compared to the ratios associated with the adopted v/c thresholds from the Major Transportation Plan. Using this method, roadway segments having capacity deficiencies (volume-to-capacity ratios exceeding 1.00) were identified.

**Table 8.5** provides a description of service volumes that were used for determining the volume-to-capacity (v/c) ratios for this plan update. *It should be noted that the given service volumes are appropriate for planning level analysis.* For more detailed operational analysis, these volumes should be adjusted depending on such conditions as variable lateral clearances, horizontal and vertical deficiencies, intersection delay, and many other factors.

The planning study recommends the use of LOS “D” or better as the desirable Level of Service for Forsyth County’s road network. This LOS is more affordable compared to the currently adopted LOS blend of “C” and “D” and is consistent with many other communities with established LOS “D” thresholds in urban areas. Most counties with high rates of growth in traffic like Forsyth County have adopted LOS “D” as the threshold level of service when evaluating roadway segments. LOS “D” still means stable flow and traffic volumes under capacity, but recognizes the financial realities of infrastructure investment in growth areas. The *Forsyth County Major Transportation Plan* attempted to provide a LOS “D” or better on every roadway segment throughout Forsyth County for both present and future conditions. The *2002 Update* recommends the improvement of major and minor arterials with a LOS of “E” or lower as a first priority, followed by collector roads at LOS “E”, then other local roads.

**TABLE 8.5: LEVEL OF SERVICE VOLUMES**

<b>Facility Type</b>	<b>"A"</b>	<b>"B"</b>	<b>"C"</b>	<b>"D"</b>	<b>"E"</b>
<b>Freeway</b>					
4 lanes	20,900	32,800	49,200	62,600	74,500
6 lanes	32,100	50,400	75,600	96,200	114,500
8 lanes	43,800	68,800	103,200	131,300	156,300
10 lanes	54,700	86,000	129,000	164,200	195,400
<b>Major Arterials</b>					
2 undiv.	-	10,800	15,600	16,600	16,600
4 divided	-	23,500	33,200	35,000	35,000
6 divided	-	35,800	49,900	52,500	52,500
<b>Minor Arterials</b>					
2 undiv.	-	-	9,900	14,900	16,200
4 divided	-	-	22,900	32,500	34,300
6 divided	-	-	35,500	48,900	51,700
<b>Collectors</b>					
2 undiv.	-	-	8,600	14,600	16,000
4 divided	-	-	19,800	31,700	33,900
6 divided	-	-	30,800	47,800	51,000
<b>Local Streets</b>					
2 undiv.	-	-	4,800	10,900	11,900
4 divided	-	-	11,600	23,800	25,400

Note: Blank lines indicate that the level of service cannot be obtained on a corridor basis.

The Forsyth County transportation system will require improvements to accommodate anticipated population and economic growth over the planning horizon. The County has utilized a travel demand forecasting model to identify specific improvements that will be required in order to provide a safe and efficient transportation network and enhance mobility in the future. The improvements are classified between short term (prior to 2005), intermediate term (2005 to 2010), and long term (2010 to 2020). The results of the travel demand forecasting process are listed in **Tables 8.6, 8.7, and 8.8**. **Figures 8.4, 8.5 and 8.6** present the recommended road improvements for 2005, 2010 and 2025 respectively.

In addition to expanding existing transportation facilities, the county has also identified specific actions to optimize the utilization of existing transportation infrastructure. Existing plans have identified high occupancy vehicle facilities, intelligent transportation systems, and bicycle and pedestrian transportation as potential areas to improve transportation efficiency. The alternatives listed can improve the efficiency of the existing transportation system, but will not provide the needed mobility for people and good without system expansions.

High occupancy vehicle facilities can potentially reduce congestion and vehicular demands on roadways by reducing single occupancy vehicle use. Commuters using multiple occupancy means of travel, from carpools to vanpools and commuter (express) bus, are encouraged

by the travel time advantages provided. The introduction of high occupancy vehicle facilities should be further examined in Forsyth County, especially on SR 400, to reduce future traffic demands and congestion. Park and ride lots comprise an important element of the region's transportation system by providing carpooling opportunities and express bus pick-up and drop-off points. There are currently no park and ride lots in Forsyth County. A number of studies and initiatives are underway to determine the potential for park and ride lots.

Intelligent transportation systems (ITS) utilize technology to improve the safety and efficiency of the roadway system without increasing the physical size of roadway facilities. ITS strategies are used to relay information to travelers concerning congestion and incidents, as well as aid emergency vehicles in efficient operation, and provide emergency operational and medical assistance to motorists. Quick detection and better management of incidents minimizes congestion and enhances the overall performance of the network.

Pedestrian and bicycle facilities serve as an integral element of a multimodal transportation network. Improved systems for bicycle and pedestrian transportation can also provide a reduction in congestion and vehicular use on roadways. The Forsyth County Bicycle Transportation and Pedestrian Walkways Plan identifies approximately 58 miles of roadways that could potentially be converted to sign shared roadways. Sign shared roadways provide an opportunity to provide preferred routes for cyclists, with relatively little financial infusion. The physical improvements to an existing road include bicycle safe drainage grates and bridge expansion joints, smooth pavements, signal timing and detector systems that respond to bicycles, and signage to alert motorists that bicycles are likely to be sharing a travel lane.

**TABLE 8.6: DEFICIENT ROAD SEGMENTS (LOS “E” OR LOS “F”) BY THE YEAR 2005**

Name of Road	From/To	Number of New Lanes Needed
SR 9	Sr 20 to Main Street	3
SR 9	McFarland Rd to Hamby Rd	2
SR 9	SR 141 to Pendly Rd	2
McFarland Road	McGinnis Ferry Rd to Union Hill Rd	2
McGinnis Ferry Road	Gwinnett County to Sargent Rd	2
SR 141	McGinnis Ferry Rd to Aberdeen Rd	2
SR 141	Bagley Rd to SR 9	2
SR 20	Sanders Rd to Gwinnett County	2
SR 20	Dr. Bramblett Rd to Tower Rd	2
SR 306	SR 369 to GA 400	2

Source: Major Transportation Plan 2002 Update

**TABLE 8.7: DEFICIENT ROAD SEGMENTS (LOS “E” OR LOS “F”) BY THE YEAR 2010**

Name of Road	From/To	Number of New Lanes Needed
SR 9	Hamby Rd to Post Rd	2
SR 9	Fowler Rd to Castleberry Rd	2
SR 9	Pendly Rd to Old Atlanta Rd	2
McFarland Road	SR 9 to Union Hill Rd	2
McGinnis Ferry Road	Sargent Rd to McFarland Rd	2
Old Atlanta Road	Mathis Airport Rd to Sharon Rd	2
Bethelview Road	SR 9 to Kelly Mill Rd	2
SR 20	Cherokee County to Hyde Rd	2
SR 20	Bethelview Rd to Spot Rd Connector	2
SR 306	SR 369 to Shadburn Rd	2
SR 369	SR 9 to SR 400	2
SR 369	SR 306 to Shady Grove Rd	2

Source: Major Transportation Plan 2002 Update

**TABLE 8.8: DEFICIENT ROAD SEGMENTS (LOS “E” OR LOS “F”) BY THE YEAR 2020**

Name of Road	From/To	Number of New Lanes Needed
SR 9	Fulton County to McFarland Rd	2
SR 9	Sawnee Drive to Main Street	2
SR 9	Dunn Rd to SR 306	2
McFarland Road	McGinnis Ferry Rd to Union Hill Road	4
McGinnis Ferry Road	Union Hill Rd to McFarland Rd	2
McGinnis Ferry Road	McFarland Rd to SR 141	4
McGinnis Ferry Road	Old Atlanta Rd to Gwinnett County	2
Old Atlanta Road	McGinnis Ferry Rd to Sharron Rd	2
SR 20	SR 9 to Samples Rd	4
SR 371/Post Road	SR 9 to SR 20	2
SR 306	Shadburn Rd to SR 53	2
SR 369	Shady Grove Rd to Hall County	2
SR 369	Settingdown Rd to GA 400	2

Source: Major Transportation Plan 2002 Update

**FIGURE 8.4: RECOMMENDED ROAD IMPROVEMENTS (2005)**

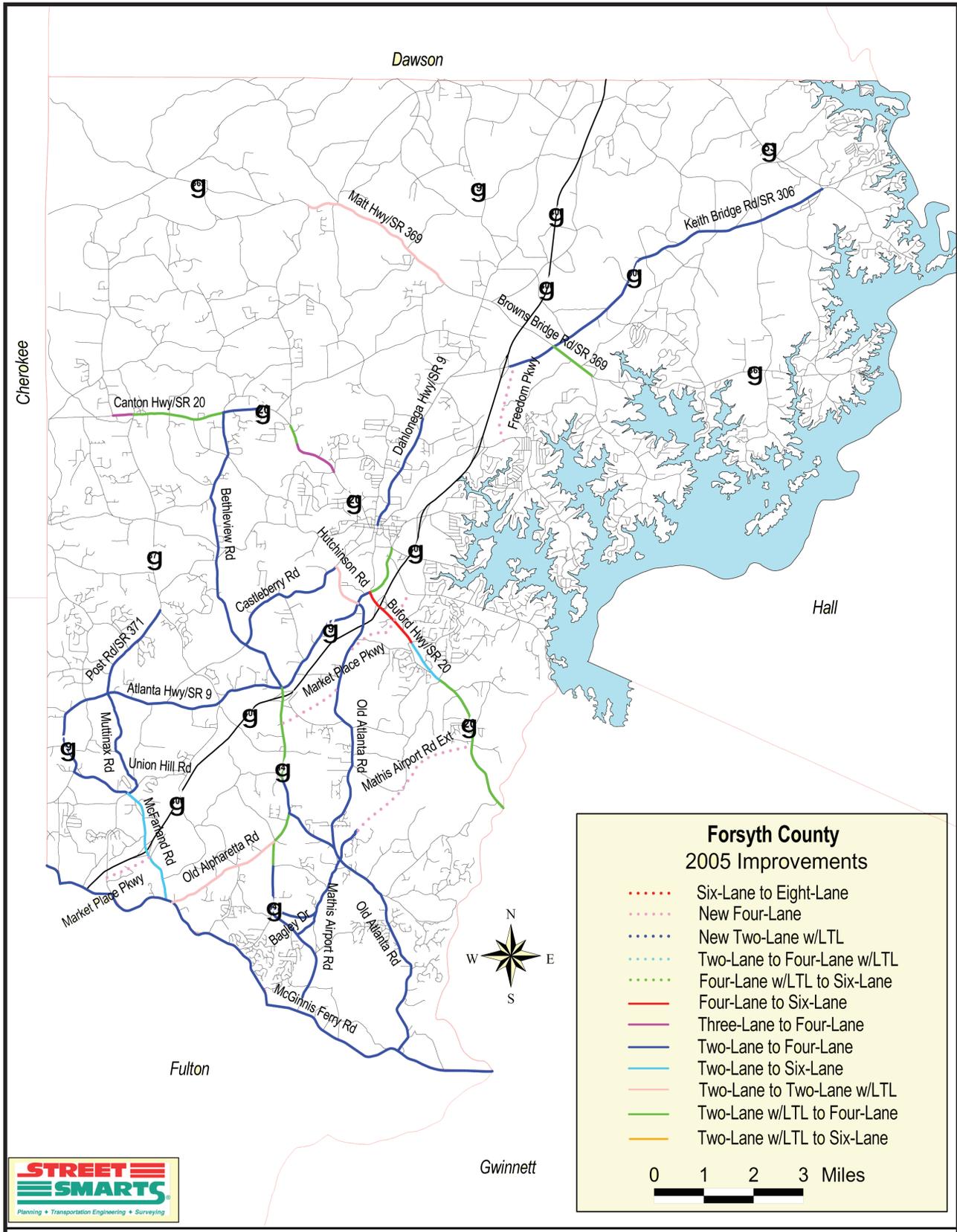
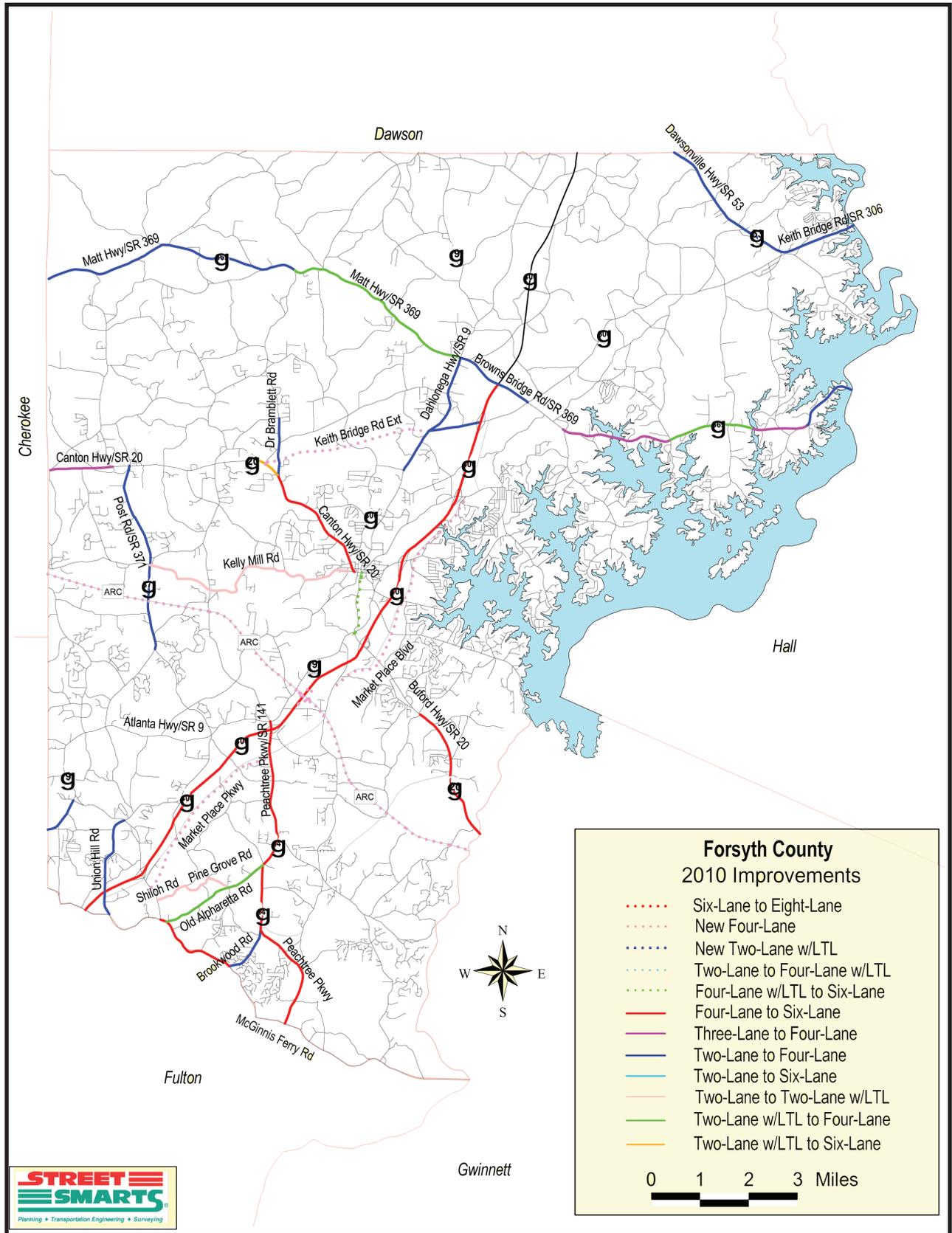
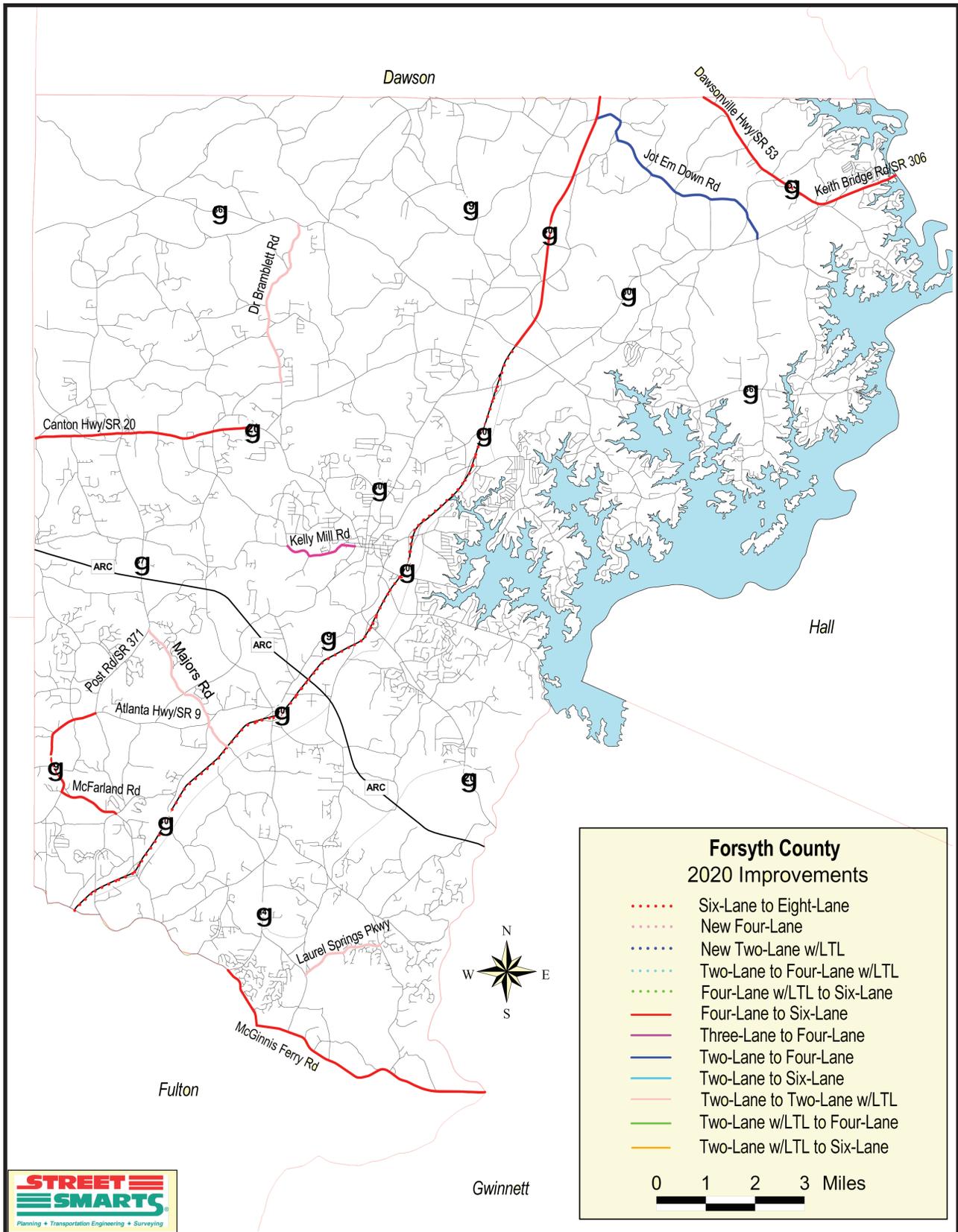


FIGURE 8.5: RECOMMENDED ROAD IMPROVEMENTS (2010)



**FIGURE 8.6: RECOMMENDED ROAD IMPROVEMENTS (2020)**



## Land Use

Information on population densities and the location of employment and shopping centers is necessary for effective transportation planning. The identification and study of population densities is important because minimum density thresholds are needed to support selected types of transportation strategies, such as bus transit. Forsyth County is forecast to continue to be one of the fastest growing counties in the country and population numbers are expected to increase significantly over the planning period.

Based on an analysis of existing and future land use classifications, the long range transportation plan has recommended the continued use and possible expansion of the Forsyth County Dial-A-Ride program. Fixed route bus service was not considered an effective use of funds due to the low population density projected for Forsyth County.

## COMMUNITY GOALS

Thoughtful goal setting will ensure a long-range, needs-based perspective that assists in effectively identifying and implementing appropriate transportation initiatives. In addition, the goals and performance measures must be compatible with similar initiatives in neighboring counties in order to develop a transportation network that also addresses regional needs. The goals identified in this element have been incorporated into the implementation chapter as well as the Short Term Work Program.

Forsyth County's Long Range Transportation Plan has identified the following goals and objectives:

### **Goal 1: Provide accessibility and mobility of people and goods.**

#### **Objectives:**

- Develop and implement functional road classification categories that provide guidelines for future right-of-way requirements, number of lanes, and future travel capacities, based on population growth estimates and anticipated land development.
- Protect the safety and traffic-carrying capacity of interchange areas and major thoroughfare corridors from adverse land development and minimize curb cuts along corridors.
- Develop a transportation system that will be compatible with existing and future land use patterns.
- Ensure the provision of adequate right-of-way for future road improvements based upon the anticipated level of future use.

### **Goal 2: Support the attainment of air quality in conjunction with neighboring counties.**

#### **Objectives:**

- Achieve a transportation system which minimizes traffic congestion and travel time within the region and promotes energy conservation.

### **Goal 3: Integrate land use decisions with transportation analysis and planning.**

#### **Objectives:**

- Develop and implement functional road classification categories that provide guidelines for future right-of-way requirements, number of lanes, and future travel capacities, based on population growth estimates and anticipated land development.
- Develop a transportation system that will be compatible with existing and future land use patterns.
- Present a comprehensive transportation system which will provide safe, convenient and efficient service to the general public and will promote and encourage the most desirable timing and patterns of land development.

**Goal 4: Improve environment and quality of life.**

**Objectives:**

- Promote a transportation system which will provide access and movement through and within the county, while limiting potential negative environmental impacts which might result from unplanned development.
- Assure that vehicular circulation within development areas functions safely and efficiently.

## **Bicycle Transportation and Pedestrian Walkways 2025 Plan Goals, Objectives and Strategies**

Based on the vision statement approved by the Task Force and the opportunities presented in the strategic planning process, the following goals, objectives and strategies were developed for the Forsyth County Bicycle and Pedestrian Plan.

**Goal 1: Provide a Countywide system of safe, convenient and accessible bicycling and pedestrian facilities for all users through the coordinated efforts of governmental agencies, the private sector and the general public.**

**Objective 1:** Develop a connected system of bicycle and pedestrian facilities that can serve major origin and destination points, linking such important land uses as residential and commercial zones, educational and employment areas, health care and service centers, natural, cultural and recreational resources.

### **Strategies**

- Work with the Board of Commissioners to provide bicycle and pedestrian facilities that connect to Countywide “points of interest” and potential tourist sites;
- Work with the County School Board to coordinate provision of bicycle and pedestrian facilities at existing and proposed school facilities;
- Use the Bike/Pedestrian web site to highlight bicycle and pedestrian activities at local and regional events;
- Work with any future CIDs or TMAs for the provision of these facilities in their jurisdictions;
- Work with the Parks Department to build sidewalks leading to County parks; and
- Work with proposed employment centers to encourage provision of bicycle and pedestrian facilities leading to their sites.

**Objective 2:** Ensure, to the maximum extent possible, that bicycle and pedestrian facilities are integrated and connected to other existing or planned modes of transportation in order to reduce dependence on the private automobile, reduce traffic and improve air quality.

### **Strategies**

- Coordinate with regional transit planning efforts to maximize bicycle and pedestrian connections to proposed park and ride lots; and
- Coordinate with on going and future regional planning studies to incorporate the Forsyth Bike/Pedestrian plan recommendations.

**Objective 3:** Ensure that the bicycle and pedestrian system complements the existing transportation network to maximize and preserve the existing system and take advantage of public rights-of-way and corridors such as utility lines, future rail lines, linear waterways, etc. for bicycle and pedestrian facilities in order to minimize public costs.

### **Strategies**

- During the comprehensive plan review process, identify utility lines, rail lines, and linear waterways on the future land use map as possible routes for bicycling and walking;
- Coordinate the planned bicycle and pedestrian facilities with proposed improvements of congested corridors in the Forsyth County Transportation Plan; and
- Encourage developments adjacent to waterways to dedicate land for greenways designated on the County plan.

- Consider pedestrian signal and crossing improvements during intersection redesign.

**Objective 4:** Ensure that the system addresses the safety and needs of different types of users, from experienced cyclists on arterial roadways to school-bound children walking and riding bicycles adjacent to local roads.

**Strategies**

- Encourage the development of educational programs on bicycle and pedestrian safety, usage and benefits that address the different users of bicycle and pedestrian facilities;
- Participate as a community in National Walk to School, National Walk to Work, and National Bike to Work programs;
- Develop a tracking system for bicycle and pedestrian related accidents; and
- Contact established groups such as PEDS for pedestrian safety coordination and guidance
- Conduct a bicycle suitability analysis for roadways in the County

**Objective 5:** Establish a maintenance program and maintenance standards that ensure safe and usable bicycle and pedestrian facilities.

**Strategies**

- Work with organizations such as PATH Foundation to determine average maintenance costs for multi-use facilities;
- Work with Public Works staff to coordinate roadway maintenance activities with maintenance of bicycle and pedestrian facilities; and
- Set aside a percentage of funds from the bicycle and pedestrian fund for maintenance activities.

**Objective 6:** Provide ancillary facilities such as bicycle parking and storage, lighting, landscaping, signing, pavement marking and signalization to enhance the value and increase the utility and safety of the bicycle and pedestrian system.

**Strategies**

- Work with employment centers to encourage provision of bicycle parking and storage facilities;
- Coordinate resurfacing and pavement marking activities with potential marking for bicycle friendly facilities; and
- Encourage all public buildings throughout the County to provide bicycle parking facilities.

**Objective 7:** Support and encourage regular and continuing bicycle and pedestrian training and safety programs in conjunction with local institutions, organizations, and bicycle and pedestrian interest groups.

**Strategies**

- Establish the Bicycle and Pedestrian Task Force as a permanent ongoing structure and invite local bicycle and pedestrian groups such as PATH and PEDS to sit on the Task Force;
- Coordinate with local interest groups and the private sector to develop bicycle and pedestrian educational programs on safety and proper usage;
- Encourage the proliferation of “Effective Cycling” courses similar to those offered by the Atlanta Bicycle Campaign and funded with ARC dollars;
- Work with the school board to develop and implement educational programs on bicycle and pedestrian safety and usage in schools; and
- Encourage and provide assistance for the establishment of local advocacy groups, such

as the BUGS .

**Objective 8:** Develop a bicycle and pedestrian system that meets the highest achievable design and safety standards, including ADA standards.

**Strategies**

- Encourage ADA facility/needs assessments as a beginning point for ADA planning at the local level; and
- Require that all bike/pedestrian facilities constructed in Forsyth meet the typical design standards adopted in the plan.

**Goal 2: Amend the development process guidelines to encourage and promote the proliferation of bicycle and pedestrian facilities.**

**Objective 1:** Require sidewalks along identified high priority pedestrian corridors adjacent to proposed developments.

**Strategies**

- Identify the high priority pedestrian corridors on the Bicycle and Pedestrian Plan;
- Publish the adopted Bicycle and Pedestrian Plan throughout the County system, particularly at offices involved in development approvals; and
- Identify high priority pedestrian crossing improvements on the Plan.

**Objective 2:** Encourage developments to build sidewalks on interior subdivision streets.

**Strategies**

- Publicize the benefits of existing sidewalks in current subdivisions on the web page with citizen comments; and
- Allow flexibility in interior road design standards in exchange for construction of sidewalks.

**Objective 3:** Require proposed developments within ¼ mile distance of major origin/destination land uses to provide sidewalk connectivity.

**Strategies**

- Require proposed developers to purchase the adopted bicycle and pedestrian plan, in conjunction with other County codes and regulations, to inform them of proposed plans; and
- Explore establishing a development credit for building additional sidewalk facilities to provide desired connectivity to origin/destination points.

**Objective 4:** Encourage pedestrian connections (via paths, sidewalks) linking adjacent compatible land uses and developments.

**Strategies**

- Identify specific prioritized bike and pedestrian projects within the County's Short-Term Work Program Update process; and
- Encourage the use of the DRI review process as a tool for including bicycle and pedestrian facilities in proposed developments.

**Objective 5:** Establish and encourage the construction of typical design sections for bicycle and pedestrian facilities within different road classifications.

**Strategies**

- Adopt the best design practices included in the Bicycle and Pedestrian Plan; and
- Include the associated typical sections in the Forsyth Development Code.

**Objective 6:** Include bicycle and pedestrian planning considerations in all transportation

improvements (resurfacing, paving, new location, intersection improvements, reconstruction, and maintenance).

**Strategies**

- Encourage the inclusion of low-cost alternatives such as awareness signage and parking facilities in all projects to support the development of a coherent bicycle and pedestrian system; and
- Prioritize road widening and construction projects that include bicycle and pedestrian facilities.

**Objective 7:** Coordinate bicycle and pedestrian planning efforts with countywide recreational and health planning considerations.

**Strategies**

- Work in conjunction with the Centers for Disease Control to develop a tool outlining the health and environmental benefits of bike and pedestrian usage;
- Work with local interest groups and the private sector to develop bicycle and pedestrian programs on the health benefits of bicycle and pedestrian usage; and
- Identify greenspace corridors purchased as part of the Forsyth County Greenspace program on future land use maps and the Bicycle and Pedestrian plan map.

***Goal 3: Provide adequate funding and staffing resources for planning, developing and maintaining high quality bicycle and pedestrian systems.***

**Objective 1:** Actively pursue all eligible federal and state funds for bicycle and pedestrian planning and development.

**Strategies**

- Develop and distribute a catalogue of potential state and federal assistance for bike and pedestrian projects to relevant County staff and commissioners;
- Identify potential funding sources for the development of pedestrian walking maps and bicycle suitability maps;
- Deliver copies of the adopted Bicycle and Pedestrian Plan to GDOT and the GMRDC for incorporation into the Regional Transportation Planning process; and
- Create a permanent Citizens Bike and Pedestrian Task Force for plan implementation purposes.
- Apply to ARC for funds to conduct a bicycle suitability study and for additional bicycle and pedestrian data collection efforts.

**Objective 2:** Coordinate the development of bicycle and pedestrian projects to maximize use of opportunities for joint development using other public or private resources.

**Strategies**

- Attend ARC Bike and Pedestrian Task Force meetings to maximize coordination and compete for funding; and
- Explore establishing a development credit for proposed developments that include bicycle and pedestrian facilities.

**Objective 3:** Establish a bicycle and pedestrian fund for developer contributions in lieu of construction of such facilities, if such construction is not deemed timely by Forsyth County. Allow private donations to the bicycle and pedestrian fund for construction of these facilities.

**Strategies**

- Establish average cost estimates for bicycle and pedestrian facilities to use for in lieu contributions; and
- Explore establishing a development credit for developers who donate additional funds to the bicycle and pedestrian fund beyond that required for their development.

**Objective 4:** Include bicycle and pedestrian projects in future local sales tax programs.

**Strategies**

- Collect information on the Bike and Pedestrian web site regarding citizen support of bicycle and pedestrian projects;
- Include a survey question on the Bike and Pedestrian web site regarding support of local sales tax dollars for provision of bicycle and pedestrian facilities; and
- Establish a percentage goal for budget allocation to bicycle and pedestrian facilities.

**Objective 5:** Explore establishing a staff position to act as a technical resource for zoning, land use and roadway design changes to promote bicycle and pedestrian friendly development, as well as for grant writing.

**Strategies**

- Investigate the current duties of the Statewide Bicycle Coordinator and other type positions established in the metro area; and
- Establish a critical mass limit for a certain number of bicycle and pedestrian projects in the implementation process to justify a staff position.

From these goals and the analysis contained within the transportation element, the following goals have been developed:

- (1) Ensure that prime commercial/industrial acreage is served with necessary infrastructure;
- (2) The transportation system should be multi-modal, including transit, automobile, bicycle, and walking. It should provide safe, energy-efficient, convenient movement of people and goods. It should relate to the interregional transportation systems: air, highway and rail. It should be located and designed to serve but not disrupt existing and future neighborhoods and employment/commercial centers;
- (3) Require development-impacted roads to meet minimum level of service of D (somewhat congested but still functioning) in approving new developments;
- (4) For road improvement allocations, priority will be given to projects designed to raise levels of service on roads currently below D in level of service;
- (5) Continue to encourage mixed use development and other options to allow residents to live in close proximity to their place of employment;
- (6) Encourage alternative transportation forms, such as carpooling, to reduce congestion and vehicular demands on roadways by reducing single occupancy vehicle use;
- (7) Encourage bicycle and pedestrian travel;
- (8) Encourage businesses to alter work hours so that their employees can commute during off-peak periods; and
- (9) Encouraging the use of telecommuting and video-conferencing to reduce the need for employee travel.

Chapter Ten, the Implementation Program, provides the overall strategy for the comprehensive

plan implementation. The policy recommendations listed above are merged and coordinated with the policies of the other elements to form the implementation program. The associated short-term work program designates the actions the county will take in the next five years to achieve these goals. The list is not all-inclusive. There are some actions that may not be addressed due to time, budget and administrative constraints. These items will be included as part of the work program at some point over the twenty-year planning period.

## **INTRODUCTION**

The Intergovernmental Coordination Element provides local governments an opportunity to inventory existing intergovernmental coordination mechanisms and processes with other local governments and governmental entities that can have profound impacts on the success of implementing the local government’s comprehensive plan. The purpose of this element is to assess the adequacy and suitability of existing coordination mechanisms to serve the current and future needs of the community and articulate goals and formulate a strategy for effective implementation of community policies and objectives that, in many cases, involve multiple governmental entities.

## **ADJACENT LOCAL GOVERNMENTS**

Forsyth County is bordered by Gwinnett County, the City of Sugar Hill, Fulton County, and the City of Alpharetta to the south, Cherokee County on the west, Dawson County on the north, and Hall County to the east. The City of Cumming is located at the center of the County and is the only incorporated area in Forsyth County. Continued coordination with surrounding local government entities will be essential to the successful implementation of the Comprehensive Plan.

### **City of Cumming**

Coordination mechanisms with the City of Cumming are essential to the successful implementation of the Comprehensive Plan. All levels of staff and elected officials are involved in the coordination process that is outlined in the Service Delivery Strategy. Specific areas covered in the Service Delivery Strategy for Forsyth County and the City of Cumming include:

- Water and Wastewater
- Land Use Compatibility and Provisions for Dispute Resolution
- Development Permitting and Inspections
- Building Permitting and Inspections
- Soil Erosion Permitting and Enforcement
- Economic Development
- Emergency Management
- Fire Services
- Law Enforcement
- Road and Bridges
- Recreation and Parks
- Municipal Court
- Storm Water Management

- Tax Assessment and Collection
- Garbage Pick-Up
- Housing Authority
- Alcohol Licenses
- Business Licenses
- General Administration and Finance

**City of Alpharetta, Fulton County, Cherokee County, and Dawson County**

Coordination with City of Alpharetta, Fulton County, Cherokee County, and Dawson County is essential to the planning process. Through the Atlanta Regional Commission and the Georgia Mountains Regional Development Center, all four local governments actively participate in the review process for any development project that qualifies as a development of regional impact (DRI). Coordination within the DRI review process is typically focused on the planning staff. Additionally, the Forsyth County Department of Planning and Development will notify Fulton County, Cherokee County, and Dawson County prior to acting on rezoning requests that are adjacent to the respective local government. The notification package will include the details of the request and procedures for any related comments.

**City of Sugar Hill, Gwinnett County, and Hall County**

Lake Lanier and/or the Chattahoochee River provide a natural buffer between Forsyth County and the City of Sugar Hill, Gwinnett County, and Hall County. However, coordination remains an essential part of the planning process. Through the Atlanta Regional Commission and the Georgia Mountains Regional Development Center, all four local governments actively participate in the review process for any development project that qualifies as a development of regional impact (DRI). Coordination within the DRI review process is typically focused on the planning staff.

**SCHOOL BOARDS**

**Forsyth County Board of Education**

The Forsyth County Board of Education is the governing body of the Forsyth County School System. The primary role of the Board is the legislation of the school system politics, which are executed under the direction of the school Superintendent. The provision of quality educational opportunities is an essential service provided in Forsyth County. Joint planning efforts include Board of Education involvement in the review of all residential rezoning requests. This process is carried out through the Department of Planning and Development and the Board of Education. Continued cooperation with the School Board is expected throughout the planning horizon.

**INDEPENDENT SPECIAL DISTRICTS**

**City of Cumming Water and Sewer**

As identified in the Service Delivery Strategy for Forsyth County and the City of Cumming, the water and sewer district for the City of Cumming extends into unincorporated areas of Forsyth County. The exchange of data on land use and other planning related issues

provides adequate coordination regarding the City of Cumming Water and Sewer service area.

**U.S. Army Corps of Engineers**

The US Army Corps Of Engineers, Mobile District, Buford, is responsible for the management of Lake Lanier. The Corps' role in the management of Lake Lanier is far-reaching and includes a multitude of responsibilities that result in joint efforts with Forsyth County. Coordination mechanisms now in place are considered to be adequate.

**INDEPENDENT DEVELOPMENT AUTHORITIES**

**Forsyth County Development Authority**

The Forsyth County Development Authority is engaged in facilitating financing of new and expanded businesses by issuing industrial revenue bonds.

**Cumming-Forsyth County Chamber of Commerce**

The Chamber of Commerce is comprised of businesses in the county, professionals, local leaders, and other interested individuals who have joined together to promote the economic development of the community by successfully marketing Forsyth County. Interaction is typically focused on development applications and the provision of county services. Continued cooperation with the Chamber of Commerce is expected throughout the planning horizon

**OTHER UNITS OF LOCAL GOVERNMENT AND UTILITY COMPANIES**

**Forsyth County Sheriff's Office**

The Forsyth County Sheriff's Office is charged with the responsibility of serving and protecting citizens and visitors. The Support Division of the Sheriff's Office enforces ordinances in the county. In relation to the planning process, continued coordination of information and resources will be required to achieve the long-term vision of the community.

**Sawnee Electric Membership Corporation (EMC) and Georgia Power Company**

Sawnee EMC and Georgia Power provide service within Forsyth County. Continued coordination with the county's permitting staff will be required.

**OTHER ORGANIZATIONS**

**Georgia Mountains Regional Development Center**

The Georgia Mountains Regional Development Center fulfills the particular need of the Georgia mountains region by advocating wise resource management and planning, analyzing both current and potential growth problems, and providing much needed professional technical assistance in developing local and regional objectives, plans, and programs. Work items include both regional and local planning projects. These projects range from transportation, recreation, historic preservation, environmental resource assessment, population, economic analysis and water resources, to comprehensive local and regional plans, reviews of

Developments of Regional Impact (DRI), and large-scale development reviews as authorized by the Georgia Land Sales Act and the Metropolitan River Protection Act (MRPA). Forsyth County is a member of the Georgia Mountains regional development Center.

### **Atlanta Regional Commission**

The Atlanta Regional Commission (ARC) performs regional planning and coordination for the metropolitan Atlanta area. There are currently ten counties included in the ARC. The commission is dedicated to unifying the region's collective resources to prepare the metropolitan Atlanta area for a prosperous future. It does so through professional planning initiatives, the provision of objective information and the involvement of the community in collaborative partnerships that encourage healthy economic growth compatible with the environment, improve the region's quality of life, and foster leadership development.

While Forsyth County is not a member of the ARC, the county's actions can have serious implications for the entire region. In 1990, due to the passage of the Clean Air Act, the Governor of Georgia reported to the U.S. Environmental Protection Agency that 13 counties in and around Atlanta would be designated as non-attainment area for ground level Ozone. Forsyth County was one of three non-ARC members included as part of the Atlanta non-attainment area for violating the National Ambient Air Quality Standards (NAAQS) for Ozone. Transportation investments in these counties must be included when ARC runs its computer-based travel demand model to ensure the region's transportation project mix does not add to the air quality problem. Coweta, Forsyth and Paulding counties are represented by the GDOT in the regional planning process. Also, the county chairmen of each county are invited members of ARC's Transportation and Air Quality Committee (TAQC).

### **Georgia Regional Transportation Authority**

The role of the Georgia Regional Transportation Authority (GRTA) is to approve the region's short-range programs, implement transportation strategies and review developments of regional impact. More specifically, GRTA works with those counties in Georgia that have been designated non-attainment under the Federal Clean Air Act standards. Currently, there are thirteen counties in the metropolitan Atlanta area that are non-attainment. Those counties are Cherokee, Clayton, Cobb, Coweta, DeKalb, Douglas, Fayette, Forsyth, Fulton, Gwinnett, Henry, Paulding and Rockdale.

Developments of Regional Impact (DRIs) are large-scale developments likely to have effects outside of the local government jurisdiction in which they are located. The Georgia Planning Act of 1989 authorizes the Department of Community Affairs (DCA) to establish procedures for intergovernmental review of these large-scale projects. These procedures are designed to improve communication between affected governments and to provide a means of revealing and assessing potential impacts of large-scale developments before conflicts relating to them arise.

GRTA's legislation also requires that it review DRIs within its jurisdiction. The purpose of GRTA's review is to approve or disapprove the use of state and federal funds to create transportation services and access that may be required as a result of the DRI. The goals

of the review are: protecting and efficiently allocating limited state and federal resources, promoting compliance with regional transportation plans and air quality standards, and furthering GRTA's mission and goals.

GRTA's vision statement includes the following items:

- (1) Work to plan and implement a transportation system that is multi-modal, seamless, and accessible to all citizens;
- (2) Encourage land use policies that promote efficient use of infrastructure investments;
- (3) Operate within a decision-making framework that values public participation and connects transportation choices, land use and the overall Quality of Life;
- (4) Serve the best interests of the region by working in cooperation with other agencies and governments that are involved in planning and transportation; and
- (5) Measure its effectiveness in improving air quality, traffic, accessibility and land use.

### **Georgia Department of Transportation**

The Georgia Department of Transportation plans, constructs, maintains and improves the state's road and bridges. Duties also include the provision of planning and financial support for other modes of transportation such as mass transit and airports. Close coordination with the Department of Transportation is required. Forsyth County plans to work cooperatively with the Department of Transportation throughout the planning horizon.

### **Georgia Department of Natural Resources**

The mission of the Department of Natural Resources is to sustain, enhance, protect and conserve Georgia's natural, historic, and cultural resources for present and future generations, while recognizing the importance of promoting the development of commerce and industry that utilize sound environmental practices.

### **Georgia Department of Community Affairs**

The Department of Community Affairs operates a host of state and federal grant programs; serves as the State's lead agency in housing finance and development; promulgates building codes to be adopted by local governments; provides comprehensive planning, technical and research assistance to local governments; and serves as the lead agency for the state's solid waste reduction efforts. The Department of Community Affairs also manages the state's coordinated planning program.

### **Appalachian Regional Commission**

Forsyth County is located within the jurisdiction of the Appalachian Regional Commission. The Appalachian Regional Commission's mission is to be an advocate for and partner with the people of Appalachia to create opportunities for self-sustaining economic development and improved quality of life. The Appalachian Regional Commission was established by Congress in 1965 to support economic and social development in the Appalachian Region.

The Appalachian Regional Commission undertakes projects that address the five goals identified by Appalachian Regional Commission's strategic plan:

- (1) Developing a knowledgeable and skilled population
- (2) Strengthening the Region's physical infrastructure
- (3) Building local and regional capacity

- (4) Creating a dynamic economic base
- (5) Fostering healthy people

To meet these goals, the Appalachian Regional Commission helps fund such projects as education and workforce training programs, highway construction, water and sewer system construction, leadership development programs, small business start-ups and expansions, and development of health-care resources. The goals and policies of the Forsyth County Comprehensive Plan are consistent with the Appalachian Regional Commission's strategic plan.

## **OTHER PROGRAMS AND ACTIVITIES**

### **Local Government Service Delivery Strategy Act**

The 1997 Georgia General Assembly enacted the Local Government Services Delivery Strategy Act (HB 489). The intent of the Act is to provide a flexible framework for local governments and authorities to agree on a plan for delivering services efficiently, effectively and responsively; Minimize any duplication and competition among local governments and authorities providing local services; and, provide a method to resolve disputes among service providers regarding service delivery, funding equity and land use.

The Service Delivery Strategy addresses the following:

- Identification of all services presently provided.
- Identification of which local government or authority will be responsible for providing which service in what area of the county in the future.
- Identification of funding sources for all services.
- Identification of intergovernmental contracts, ordinances, resolutions, etc. to be used in implementing the strategy, including existing contracts.
- Explanation for its existence and a timetable for the elimination of any duplicate services.
- Elimination of conflicts in land use plans.
- Resolution of land use classification disputes arising over property to be annexed.

The Service Delivery Strategy Manual for the City of Cumming and Forsyth County was adopted May 4, 1998. The manual has provided Forsyth County and the City of Cumming with an opportunity to reach an agreement to deliver services in an effective and cost efficient manner. There are no specific changes or new intergovernmental agreements that are needed to implement this comprehensive plan in the short-term.

The Service Delivery Strategy serves an important role in the local land use coordination among Forsyth County and the City of Cumming. Specific policies relating to annexation, extraterritorial provision of water and sewer, and land use compatibility are included in the document.

### **Annexation**

The Comprehensive Plan Pertaining to Service Delivery Strategy for Land Use Compatibility and Provisions for Dispute Resolution between Cumming and Forsyth County provides

a method of communication regarding zoning and/or annexation and a procedural guide to resolve land use classification conflicts that may arise between the two governmental entities resulting from proposed rezoning or annexation of those lands which serve as boundaries between the two. The process is comprised of notification via certified mail and a corresponding response of no objection, no objection - stipulating certain conditions, or objection. A response of 'no objection' will allow the proposed action to move forward as planned. A response of 'no objection - stipulating certain conditions' or 'objection' would result in the modification of the proposed action or agreement to attend a joint meeting to further discuss the zoning and/or annexation. If a joint meeting is required, but agreement is not reached, both parties would retain the option of litigation.

#### **Extraterritorial Provision of Water and Sewer**

The planning staffs for Forsyth County and the City of Cumming have completed an extensive process of data sharing to ensure that extraterritorial water and/or sewer extensions/improvements are consistent with the land use plan and ordinances of the "receiving" jurisdiction. Improvements to the geographic information systems available at each local entity have helped to streamline this process.

#### **Land Use Compatibility**

The planning staffs for Forsyth County and the City of Cumming have held several meetings to discuss future land use plans and have found that the plans are compatible and that no significant conflicts exist between the plans.

The services to be provided by Forsyth County, as identified in the Forsyth County Comprehensive Plan, do not exceed those identified in the agreed upon Service Delivery Strategy. Additionally, the service areas identified for individual services that will be provided by Forsyth County and the City of Cumming are consistent between the Forsyth County Comprehensive Plan and the Service Delivery Strategy.

#### **The Georgia Community Greenspace Program**

The Georgia Community Greenspace Program was signed into law on April 16, 2000. The program provides an opportunity for urban and rapidly developing counties and their municipalities to preserve at least 20% of the land and water within their communities as permanently protected greenspace by acquiring and protecting land using state appropriated funds and local comprehensive land use planning.

The Georgia Greenspace Trust Fund, which is funded annually by the Georgia General Assembly, grants funds to each participating local government with an approved community greenspace program and which has established a Community Greenspace Trust Fund as specified by the statute. Greenspace grant funds are provided to assist local governments in carrying out their strategies for acquiring and permanently protecting land.

At this time it is anticipated that the primary means of implementing the short term goals of the Forsyth County Greenspace Program will be by fee simple acquisition, conservation easement, conservation subdivisions, partnering with the local development community

and local businesses, leveraging greenspace program funding to secure additional grants for conservation and passive use facilities development, the possible establishment of a transferable development rights program, and the possible implementation of a parks and recreation impact fee.

The Forsyth County Greenspace Plan identifies steep slopes, wetlands, A2 Zoned Land, and floodplains as potential greenspace acquisition areas as presented in **Appendix B**. There is a high degree of compatibility between the Greenspace Plan's potential acquisition areas and planned land use patterns. The Forsyth County Future Land Use Map identifies wetlands and floodplain as conservation districts. Additionally, recommendations within the STWP include studying the feasibility of transferable development rights and other methods to bring similar levels of protection to A2 zoned land, steep slopes, and other environmentally sensitive land.

The City of Cumming is not currently participating in the Greenspace Program. Since a city cannot access appropriated funds independently of a county, coordination will be required if the City of Cumming decides to participate in the future.

### **Metropolitan North Georgia Water Planning District**

With limited water resources and a population of nearly 4 million and growing, metropolitan Atlanta faces increasing challenges in managing its vital water resources. The Metropolitan North Georgia Water Planning District was established by the Georgia legislature in 2001 to address the pressing need for comprehensive water resources management in the 16-county area of metropolitan north Georgia. The Metropolitan North Georgia Water Planning District is a planning entity dedicated to developing comprehensive regional and watershed-specific plans to be implemented by the local governments of Bartow, Cherokee, Clayton, Cobb, Coweta, DeKalb, Douglas, Fayette, Fulton, Forsyth, Gwinnett, Hall, Henry, Paulding, Rockdale, and Walton Counties. These counties lie within the boundaries of six major river basins: Chattahoochee, Coosa (which includes the Etowah subbasin), Flint, Ocmulgee, Oconee, and Tallapoosa.

The Metropolitan North Georgia Water Planning District is required to prepare three long-term plans: (1) The District-wide Watershed Management Plan; (2) The Long-Term Wastewater Management Plan; and (3) The Water Supply and Water Conservation Plan. The North Georgia Water Planning District released draft versions of the plans in June of 2003. Upon adoption of the plans, an aggressive implementation program will be required to meet the objectives established by the Metropolitan North Georgia Water Planning District. The recommendations outlined in the three plans have been used in drafting the goal section of this element, the implementation plan, and the STWP for Forsyth County.

### **The District-wide Watershed Management Plan**

The District-wide Watershed Management Plan provides strategies and recommendations for effective watershed management and the control of stormwater runoff. It also includes the specific tasks and milestones for implementing these recommendations, as well as guidance on funding watershed and stormwater management efforts at the local level.

The overall goal of the District-wide Watershed Management Plan (WMP) is to meet and maintain water quality standards and designated uses of streams and other waterbodies within the Metropolitan North Georgia Water Planning District. This District-wide Watershed Management Plan builds upon the existing watershed and stormwater management planning efforts that have taken place in the Metropolitan North Georgia Water Planning District.

Responsibilities for implementation of the District-wide WMP are divided among the local governments, the Metropolitan North Georgia Water Planning District, and the State of Georgia. Local governments will be responsible for implementing most of the recommendations due to the direct connection between stormwater management, land use planning decisions, and infrastructure development and maintenance. Specific responsibilities for local governments include:

- (1) Implementation of the Programmatic Watershed Management Strategies - including implementation of the Model Ordinances for stormwater management, additional programmatic management measures, adoption of stormwater management technical criteria, and local Education and Public Awareness activities.
- (2) Development and Implementation of Total Maximum Daily Load (TMDL) - Implementation Plans Required in watersheds with TMDL - listed waterways to meet TMDL requirements.
- (3) Implementation of Source Water Protection Strategies - Required in all watersheds (within a local government's jurisdiction) that are water supply sources.
- (4) Development and Implementation of Watershed Improvement Plans - Required in those 20 percent of the 12-digit Hydrologic Unit Codes (HUCs) in the District that are substantially impacted due to existing development. These watersheds will require the development of watershed improvement plans, as well as restoration and/or retrofit to meet water quality standards.

### **The Long-term Wastewater Management Plan**

The Long-term Wastewater Management Plan presents a 30-year plan for the newly established Metropolitan North Georgia Water Planning District to address service needs and to balance the uses of water resources. By law, this plan will be reviewed annually by the Metropolitan North Georgia Water Planning District, and updated at least every 5 years. Wastewater flows within the Metropolitan North Georgia Water Planning District are expected to nearly double during this planning horizon. To address this level of need, the Long Term Waste Water Management Plan anticipates a future of large, high performance treatment facilities that produce reusable water. The Long Term Waste Water Management Plan also intends more intensive management of public wastewater collection systems and privately owned septic systems. Finally, the plan includes new policies and programs to foster coordinated wastewater management decisions among the local governments in the Metropolitan North Georgia Water Planning District.

The Long Term Waste Water Management Plan addresses the statewide concern regarding how metropolitan north Georgia manages water resources. The Long Term Waste Water Management Plan is the first comprehensive regional approach to be developed that addresses wastewater management in metropolitan north Georgia. The overall goal

of the Plan is to meet projected wastewater management needs without compromising environmental and downstream needs, thereby helping the Environmental Protection Division make permitting decisions. The Long Term Waste Water Management Plan supports the Metropolitan North Georgia Water Planning District's companion plans for water supply and conservation, and watershed management by providing a linked strategy for meeting future water needs, while protecting water quality.

While the Metropolitan North Georgia Water Planning District will have prepared the Long-term Wastewater Management Plan, it will be implemented by the local jurisdictions that own and operate the wastewater management systems. The local jurisdictions need to integrate the Long-term Wastewater Management Plan into their own local master plans. Following the framework and goals established by the Metropolitan North Georgia Water Planning District, all jurisdictions should use the local wastewater management plan to refine the Long-term Wastewater Management Plan and to address specific local needs. While flexibility is included in the Long-term Wastewater Management Plan, it is the local jurisdictions' responsibilities to evaluate the options and to determine their benefits and costs.

Because the Long-term Wastewater Management Plan is regional in breadth, it covers a wide range of topics. The specifics will be developed and/or refined at the local level by the jurisdictions impacted by the Long-term Wastewater Management Plan. Preparation of local plans is an opportunity to demonstrate conformance with the District Long-term Wastewater Management Plan, and/or to provide improvements and innovations to the Plan, based on a more in-depth analysis of local circumstances and factors. Local jurisdictions should develop local plans that, at a minimum, conform to the core principles of the Long-term Wastewater Management Plan, to ensure that wastewater services are developed cost effectively, with a long-term regional perspective while providing good customer service. Specific implementation actions for the local level include:

- (1) Development of a local wastewater management plan;
- (2) Review local plans for consistency with District plans.

The Long-term Wastewater Management Plan involves participation by citizens and many levels of government for implementation. The responsibilities of the local jurisdictions include:

- (1) Own and operate utilities that manage wastewater;
- (2) Plan and construct infrastructure for wastewater management that implements the Long-term Wastewater Management Plan;
- (3) Participate in the Metropolitan North Georgia Water Planning District;
- (4) Implement programs to improve management of collection systems and septic systems;
- and
- (5) Lead and guide regional perspectives for wastewater management.

### **The Water Supply and Water Conservation Management Plan**

The Water Supply and Water Conservation Management Plan presents a 30-year plan for the newly established District to address water service needs and to balance the uses of water resources. By law, the Water Supply and Water Conservation Management Plan will

be reviewed annually by the Metropolitan North Georgia Water Planning District, and will be updated at least once every 5 years.

Water supply needs within the Metropolitan North Georgia Water Planning District are expected to nearly double during this planning horizon. To address this level of need, the Water Supply and Water Conservation Management Plan anticipates a future of intensive management of water demands and growing reliance upon recycled water. A program of aggressive water conservation is paramount to the Water Supply and Water Conservation Management Plan, as well as continued development of small reservoirs and sharing of supplies. Finally, the Plan includes new policies and programs to foster coordinated water supply and conservation decisions among the local governments in the Metropolitan North Georgia Water Planning District. The Water Supply and Water Conservation Management Plan addresses statewide concern regarding Metropolitan North Georgia's management of its water resources. The Water Supply and Water Conservation Management Plan is the first comprehensive regional approach to be developed that addresses water management in Metropolitan North Georgia. The overall goal of the Plan is to meet projected water demands without compromising environmental and downstream needs, thereby helping the Environmental Protection Division make permitting decisions. This Water Supply and Water Conservation Management Plan outlines a balanced, long-term water management strategy for meeting future water needs, while protecting water quality through 2030, and preserving water resources in all five major river basins.

The Water Supply and Water Conservation Management Plan is dependent on the following five strategies to meet water demands over the next three decades, and to provide a small amount of supply in excess of demand to allow for contingencies that may arise over the planning period.

- (1) Reallocation of Lake Lanier and Lake Allatoona for water supply
- (2) Intensification of water conservation efforts
- (3) Construction of at least five planned new reservoirs
- (4) Sharing of water resources within the Metropolitan North Georgia Water Planning District to meet local needs
- (5) Reclamation of water by indirect potable reuse through Lake Lanier

While the Metropolitan North Georgia Water Planning District has prepared the Water Supply and Water Conservation Plan, it will be implemented by the local jurisdictions that own and operate the water systems. Local jurisdictions need to integrate the Water Supply and Water Conservation Management Plan into their own master plans. Following the framework and goals established by the Metropolitan North Georgia Water Planning District, planning at the local level is necessary to refine the Water Supply and Water Conservation Management Plan and to address specific local needs. Where flexibility is included in the Plan, it is the local jurisdictions' responsibility to evaluate the options and to determine their benefits and costs.

The following describes the local government actions required to implement the recommendations associated with developing local water management plans.

- (1) Develop local water management plans.
- (2) Review local plans for consistency with Metropolitan North Georgia Water Planning District Plan.

The Water Supply and Water Conservation Management Plan involves participation by citizens and many levels of government for implementation. The roles of local jurisdictions are summarized below:

- (1) Own and operate utilities that manage water supply systems and water conservation programs;
- (2) Plan and construct water supply infrastructure for water supply (note: projects required pursuant to a federal or state court order will take precedence over the recommendations contained in this plan);
- (3) Participate in the Metropolitan North Georgia Water Planning District;
- (4) Implement programs to improve water system interconnections; and
- (5) Lead and guide regional efforts for water resources management.

### **Big Creek Watershed Study Master Plan**

The Big Creek Watershed Study Master Plan, published by the Atlanta Regional Commission, is the result of a cooperative effort between Cherokee, Forsyth, and Fulton Counties as well as the cities of Alpharetta, Cumming, and Roswell to develop a mutually agreeable water quality protection plan for the Big Creek Watershed. The Plan summarizes the work performed, findings, and recommendations for watershed protection measures in the Big Creek Watershed. The plan is intended to address and develop strategies for reducing nonpoint source pollution in the Big Creek Watershed.

The plan addresses watershed quality problems through three methods.

- (1) Regulations to protect streams and environmentally sensitive areas.
- (2) Capital improvement projects for establishing of stormwater management Best Management Practices (BMP) facilities, stream channel erosion control, stream stabilization, and restoration.
- (3) Ongoing operation and maintenance programs such as storm drain inlet cleaning, illicit connection screening, and community outreach efforts.

The recommendations of the watershed management plan for the Big Creek watershed include stream restoration and water quality management options. The primary goals of the Big Creek Watershed Management Plan are to:

- (1) Improve/maintain water quality of Big Creek and its tributaries;
- (2) Maximize recreation potential/value;
- (3) Minimize flooding, property damage, and stream impacts due to storm water;
- (4) Educate the watershed's users about the resource; and
- (5) Consider a process for intergovernmental cooperation in protecting the watershed.

Continued efforts will be required to meet the objectives established by in the Big Creek Watershed Study Master Plan. The recommendations of the plan have been used in

drafting the goal section of this element, the implementation plan, and the STWP for Forsyth County.

### **Watershed Assessment and Management Document**

Forsyth County, Hall County, and the City of Gainesville have concurred to work together under an inter-governmental agreement to administer the Watershed Assessment and Management Document. Countywide assessments were conducted for Forsyth and Hall Counties to address portions of the counties in watersheds including not only the Chattahoochee Basin and Lake Lanier, but also the Etowah Basin in Forsyth County and the Oconee Basin in Hall County. This collaborative approach was designed to promote consistency in the water quality and biological data, the pollutant runoff and loading estimates, water quality modeling, and ultimate watershed management strategies. An intergovernmental agreement for the watershed assessment was signed on March 25, 1999.

The Georgia Environmental Protection Division requires municipalities to conduct watershed assessments as part of the permitting process for new wastewater discharges and surface water withdrawals. To obtain a new permit, the county or municipality is required to develop a management plan that addresses nonpoint source pollution within the service area of the water or wastewater treatment plants. The four main components of a watershed assessment are:

- (1) Characterization: evaluate the current conditions within the watershed by collecting water quality and biological data to determine the health of the streams;
- (2) Modeling: develop a predictive water quality model that is used to evaluate the management scenarios developed for the watershed management plan;
- (3) Watershed Management: evaluate a set of management scenarios (combinations of land use and best management practices [BMPs]) and recommend the best scenario for managing water resources within the watershed; and
- (4) Public Involvement: gather input from the public and use the information to shape the development of the management plan.

The Watershed Assessment and Management Document summarizes the findings for all four components as they pertain to Forsyth County's surface water resources. The document addresses impacts from both point sources, such as water pollution control plants (WPCPs) and industrial discharges, and nonpoint source pollution, such as storm water runoff from urbanization.

The report is assembled as a comprehensive document that provides all of the documentation required to achieve the following three objectives:

- (1) Evaluate existing conditions in the watersheds in the county;
- (2) Support the development of implementable watershed protection measures; and
- (3) Present the recommended watershed management plan for the entire county.

This Management Plan outlines what needs to be done to advance a comprehensive watershed management strategy that is achievable, cost-effective, and supported by the public. The core recommendations for a plan of action are as follows:

- (1) Adopt the Watershed Management Plan: The County Board of Commissioners must adopt the plan in principle and agree to support implementation of the recommendations.
- (2) Revise Existing Ordinances and Policies: Specific ordinances will need to be reviewed and modified, or new ordinances developed, to support implementation of the proposed watershed management program.
- (3) Enhance Enforcement of Existing and New Ordinances: Many of the existing ordinances for sedimentation and erosion control are not adequately enforced. Success of the management plan will be directly tied to the enforcement of these requirements. Each county department will need to evaluate additional staff requirements to fully implement these recommendations.
- (4) Develop or Revise Existing Development Review Process: Revisions to the existing development review process are likely to be needed to implement the proposed new development requirements. A more detailed evaluation of the existing processes will need to be completed to define the required process changes.
- (5) Enhance Infrastructure Maintenance Programs: As the county continues to develop, the maintenance of existing and new sewage collection and treatment facilities, storm water treatment facilities, and on-site septic systems will become increasingly important to overall water quality management.
- (6) Conduct Reconnaissance Studies: The recommendations for watershed restoration and retrofit will have to be developed after these studies are conducted. Preliminary indications are that significant watershed restoration and retrofits are needed to restore streams to meet their designated uses.
- (7) Implement Watershed Monitoring Program: Future permits will be tied to documenting the effectiveness for watershed management program and the associated reductions in nonpoint source pollutant loading. An effective monitoring program will be key to achieving the county's goals.
- (8) Enhance Public Outreach and Education Program: Public education is one of the most cost-effective methods for minimizing nonpoint source runoff. An educated citizenry is more likely to support water quality improvement programs and assist in their implementation.

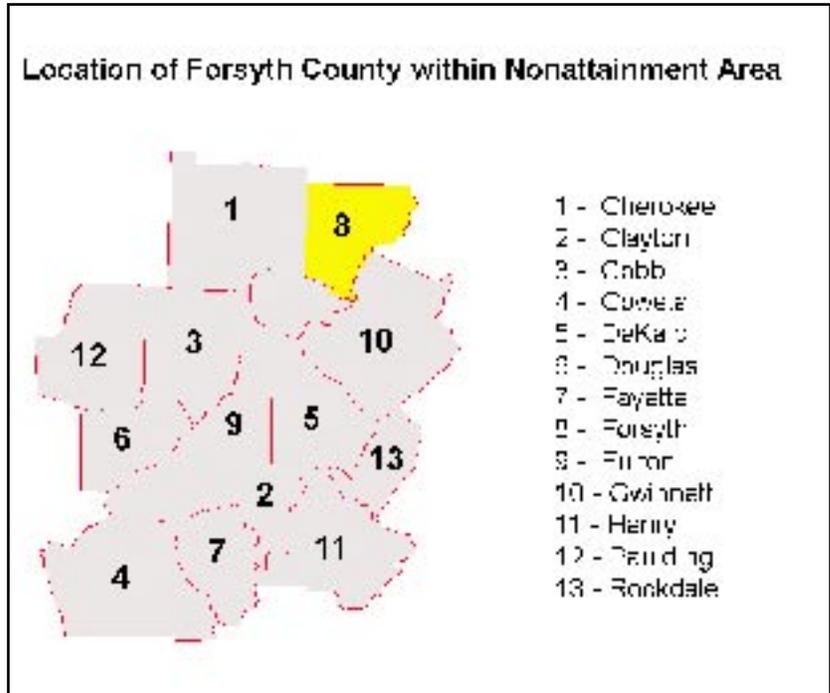
A countywide effort will be required to meet the objectives established by in the Watershed Assessment and Management Document. The recommendations of the document have been used in drafting the goal section of this element, the implementation plan, and the STWP for Forsyth County.

### **Transportation Requirements for Non-Attainment Areas**

The State of Georgia is located in Region 4 of the Air Quality Control Regions established by the Clean Air Act. Within the state of Georgia, the Environmental Protection Agency determined the 13 county metro-Atlanta area exceeded the acceptable ambient air levels for ozone (O<sub>3</sub>) in 1999 and placed the 13 county metro-Atlanta in the 'serious' class for non-attainment. This classification was upgraded to 'severe' in September of 2003. Forsyth County is included in the 13 county metro-Atlanta area and therefore, the EPA considers Forsyth County a non-attainment area for ozone.

Ozone is a chemical reaction between intense sunlight, NO<sub>x</sub> (Nitrous Oxides) and VOC

(Volatile Organic Compounds) and more commonly known as smog. NOx comes from a variety of sources, but one of the major sources is the combustion engine such as those found in automobiles, lawnmowers and boats. According to the 1999 emissions statistics provided by the Georgia Environmental Protection Division, approximately 46% of the total NOx emissions in Forsyth County came from mobile sources, i.e., automobiles, and 48% of the total NOx emission came from non-road sources, i.e., boats, lawnmowers, etc. The combustion engine also



contributes to VOC emissions but not as significantly as NOx emissions. Again in 1999, approximately 26% of the total VOC emissions in Forsyth County came from mobile sources whereas 34% came from non-road sources. The remaining VOC emissions came from point source and area emissions.

Based on the above referenced statistics, automobiles (mobile sources) are a significant contributor to NOx emissions and a moderate contributor to VOC emissions. While other sources contribute to NOx and VOC emissions, it is not difficult to conclude a reduction in vehicle miles traveled (VMT) on a day to day basis would help in reducing the O<sub>3</sub> levels in Forsyth County. Forsyth County and the Georgia Department of Transportation confirmed the importance of the reduction of VMT their joint Long Range Transportation Plan issued in December 2002. In this Plan, Forsyth County states it will measure its progress toward attainment by examining the change in VMT. The logical inference, therefore, is a reduction in VMT will result in a reduction of O<sub>3</sub> levels.

To reduce O<sub>3</sub> levels, the county will adhere to state and federal mandates, but there are many policies and programs Forsyth County can implement to lower O<sub>3</sub> levels through a reduction in VMT by county residents. These policies and programs involve a mix of long range land use planning, intergovernmental and interagency cooperation and cooperation between developers, residents and county officials.

The first method to consider is mass transit, both inter and intra county. At this time, Forsyth County has no fixed route bus transit service, and it is highly unlikely the county will ever be able to sustain a fixed route bus transit service. The estimated population density for the county in 2030 is 2.5 persons per acre (*insert numbers from our population projections and divide by total acres*) which is far below the 25.7 persons per acre needed to sustain a fixed

route bus transit service. (Long Range Transportation Plan prepared for Forsyth County and the Georgia Department of Transportation p. 3-8) Though an intracounty fixed route bus service is unlikely, the Regional Express Bus System is a promising rapid transit option for the county. Forsyth County agreed to expand this service into the county in 2002. By developing and participating in an intercounty bus service program, the county can reduce the number of VMT per day by offering commuters an option other than personal vehicles.

In conjunction with mass transit, Forsyth County, in the last few years, started to work with developers and Georgia Regional Transportation Authority (GRTA) to set aside land for transportation alternatives or factor in transportation alternatives when designing a project. The best example of this attempt to engage in long term planning is the Rouse Project. The Rouse Company submitted a rezoning application in 2002 requesting property located in the south end of the county, at McFarland Road and Georgia Highway 400, be rezoned to a commercial district. The Rouse Company plans to construct an upscale shopping mall. During the rezoning process, the county, the Rouse Company, and GRTA worked together to reach a consensus on reducing the number of vehicles traveling to and from the development. Discussions included placing a park and ride lot adjacent to the shopping mall. While the parties involved did not make a firm decision on the issue, in all likelihood, should the mall be constructed, a park and ride lot will be provided. By continuing to address transportation issues at the earliest possible stage of development, the county, developers, citizens and outside agencies can all work together to ensure development plans include methods of reducing VMT.

The second method the county will use to reduce VOC and NOx emissions is the land use planning process. Specifically, the county will encourage developers and people seeking to rezone property to provide for mixed-use development, when appropriate. By combining residential and commercial uses and ensuring the two are within biking/walking distance, the county can achieve a reduction in the VMT. The county is beginning to have some success in this area. In 2002, development started on the Vickery project; a mixed use project combining residential, institutional and commercial elements and designed as a traditional neighborhood. Vickery is designed to be pedestrian friendly and reduce the reliance on automobiles. By combining different uses, it is anticipated the VMT will be reduced as compared to VMT when different uses are separated per zoning requirements.

As the county continues to develop, it will continue to encourage mixed use developments. The county's current development guidelines are ideally suited to assist in the continued development of mixed use projects. Currently, the county recognizes a mixed use zoning category, Planned Unit Development (PUD). By requesting a PUD zoning classification, a developer is given wide latitude in designing his/her project and is able to combine a variety of land uses, especially commercial and residential. In a properly designed PUD development, a developer can integrate commercial, residential, recreational and institutional uses to limit VMT. If the county and developers work together, projects can be designed to enable residents to walk or bike to retail areas and institutional uses such as schools and churches. In addition to the PUD zoning district, the county also permits a person to set aside 25% of a commercially zoned piece of property for residential uses if a conditional use permit is

granted. Again, by integrating two different uses, the VMT will be reduced as people walk or bike to commercial centers. Additionally, the long term goal of the county will be to locate commercial districts with conditional use permits for residential housing near major arterials. By locating this type of development near arterials, the VMT will be reduced as park and ride lots can be located near the developments and intercounty bus service runs along the arterials.

The third method the county can use to reduce O<sub>3</sub> levels is to continue its working relationship with GRTA. Any project qualifying as a development of regional impact (DRI) must go through a GRTA review. GRTA's recommendations and conditions for project approval help the county identify transportation and design improvements that can reduce the VMT for new projects being developed.

To further reduce VMT, the county needs to expand its pedestrian and bicycle circulation system through the implementation of the Forsyth County Bicycle Transportation and Pedestrian Walkways Plan, which was adopted in 2002.

## **INTERGOVERNMENTAL COORDINATION GOALS**

### **Intergovernmental Goals Related to Coordination**

- Serve the best interests of the region by working in cooperation with other agencies and governments.
- Resolve conflicts with agencies and governments through established mediation processes or informal means.
- Coordinate with the City of Cumming to identify further opportunities for joint service delivery.
- Encourage the development of policy and procedures that are consistent with adopted coordination mechanisms and applicable regional and state programs.
- Work with the City of Cumming, the Forsyth County Board of Education, and other local entities to examine the feasibility of establishing a joint processes for collaborative planning and decision-making on population projections, the location and extension of public facilities, and the location of facilities with countywide significance, such as water supply reservoirs, water and wastewater treatment facilities, solid waste disposal facilities, and schools.

### **Intergovernmental Goals Related to Transportation**

- Work to plan and implement a transportation system that is multi-modal, seamless, and accessible to all citizens.
- Encourage land use policies that promote efficient use of infrastructure investments.
- Operate within a decision-making framework that values public participation and connects transportation choices, land use and the overall quality of life.

### **Intergovernmental Goals Related to Natural Resources**

- Work to improve the water quality of Big Creek and its tributaries.
- Encourage decisions that maximize the recreation potential of the Big Creek Watershed.
- Work to minimize flooding, property damage, and stream impacts, due to storm water, in the Big Creek Watershed.

- Educate the Big Creek Watershed’s users about the watershed.
- Strive for intergovernmental cooperation in protecting the Big Creek Watershed.
- Work to adopt the watershed management plan and agree to support implementation of the recommendations.
- Revise existing ordinances and policies to support implementation of the proposed watershed management program.
- Consider methods to enhance the enforcement of ordinances for sedimentation and erosion control.
- Enhance infrastructure maintenance programs to ensure existing and new sewage collection and treatment facilities, storm water treatment facilities, and on-site septic systems will continue to efficiently protect overall water quality.
- Conduct reconnaissance studies to determine if watershed restoration and retrofits are needed to restore streams to meet their designated uses.
- Implement a watershed monitoring program that requires future permits to document their effectiveness for watershed management and the associated reductions in nonpoint source pollutant loading.
- Enhance public outreach and education programs in an effort to minimize nonpoint source runoff and develop support for water quality improvement programs.
- Participate in the Metropolitan North Georgia Water Planning District.
- Own and operate utilities that manage water supply systems, water conservation programs, and wastewater.
- Support regional efforts for water resources management and wastewater management
- Encourage programs to improve water system interconnections and the management of collection systems and septic systems.
- Plan and construct water supply infrastructure for water supply and infrastructure for wastewater management.
- Review local plans for consistency with the Long-term Wastewater Management Plan.
- Review local plans for consistency with the Water Supply and Water Conservation Management Plan.
- Support the source water protection strategies for any watershed that is a water supply source.
- Follow procedures outlined by the Metro North Georgia Water Planning District to meet requirements related to TMDL .
- Develop and implement a watershed improvement plan.
- Continued implementation of the Programmatic Watershed Management Strategies - including implementation of the model ordinances for stormwater management.

Chapter Ten, the Implementation Program, provides the overall strategy for the comprehensive plan implementation. The policy recommendations listed above are merged and coordinated with the policies of the other elements to form the implementation program. The associated short-term work program designates the actions the county will take in the next five years to achieve these goals. The list is not all-inclusive. There are some actions that may not be addressed due to time, budget and administrative constraints. These items will be included as part of the work program at some point over the twenty-year planning period.

## INTRODUCTION

The implementation program is intended to establish Forsyth County's long-range needs, goals and ambitions and identify how they will be addressed or attained during the planning period. The previous chapters provided an inventory and assessment of the eight elements of the Forsyth County Comprehensive Plan: Population; Housing; Economic Development; Natural and Cultural Resources; Community Facilities and Services; Land Use; Intergovernmental Coordination; and Transportation. This chapter merges and coordinates the policies formed from the separate plan elements into an overall implementation strategy to direct the County over the next 20 years.

## COMMUNITY VISION

The vision for Forsyth County is supported by the community goals and implementation program. The Community Vision is intended to portray a complete picture of what the community desires to become. Forsyth County has developed a more generalized overall vision for the community, with more specific and detailed visions for each subarea of the community. Each subarea vision is consistent with the overall vision for the county.

### Forsyth County Vision

*Forsyth County will be a dynamic, thriving community, which melds the development of an exemplary quality of life with the preservation of its unique natural and cultural resources. We will continue to build upon and encourage the unique characteristics found throughout our community while working together towards our common goals.*

### Subarea Visions

#### *Subarea 1 - Chestatee Subarea Vision*

- The Chestatee subarea will primarily be a residential community with a rural character.
- Lake Lanier will continue to be a valuable asset that provides recreational opportunities for local residents and visitors.
- Convenient access to commercial services will be located around two nodes on SR 306. One located at Jot-Em-Down Road and the other at Dawsonville Highway. These commercial nodes could contain some county offices and a postal facility.
- A network of greenways will run throughout the subarea with passive parks and connected trails.
- Maintenance of the area's rural atmosphere and protection of Chestatee's clean environment will be partially accomplished by prohibiting additional heavy industry and limiting new light industry to the existing industrial area in the southwest portion of the subarea.

#### *Subarea 2 - Coal Mountain Subarea Vision*

- The Coal Mountain subarea will primarily be a residential community with a rural

character.

- GA 400 will continue to be a valuable asset that provides connectivity to employment and shopping opportunities. Future commercial growth should be directed to this corridor.
- Convenient access to commercial services will be located around two activity centers. One adjacent to SR 306 and SR 369 and another located at the intersection of SR 369 and SR 9.
- A network of greenways will run throughout the subarea with passive parks and connected trails.
- The protection of Coal Mountain’s clean environment will be partially accomplished by prohibiting additional heavy industry and limiting new light industry to appropriate locations near GA 400.

### ***Subarea 3 - McFarland Subarea Vision***

- The McFarland subarea will be the premier employment center for the County.
- It will be the site of quality development and business opportunities.
- Convenient access to commercial services will be located along major arterial roads, such as Hwy 9.
- A network of greenways will run along the Big Creek with passive parks and connected trails.

### ***Subarea 4 - Cumming Subarea Vision***

- The Cumming subarea will primarily be a residential community with close proximity to jobs and commercial areas.
- GA 400 will continue to be a valuable asset that provides connectivity to employment and shopping opportunities.
- Commercial development will take the form of nodes as opposed to “strip commercial”. It should be directed to the major arterials such as GA 400, SR 9 and SR 20. Adopt appropriate design standards to promote quality development throughout the subarea.
- A network of greenways will run throughout the subarea with passive parks and connected trails.
- Provide areas for water retention along SR 9 that can also serve as passive parks.

### ***Subarea 5 - South Forsyth Subarea Vision***

- The South Forsyth subarea will offer its residents a high quality of life, opportunities for employment, shopping and recreation, and a safe environment.
- It will be the site of quality development distinctive from other areas of the county and the rest of the Atlanta region. The subarea will be known to have grown in a responsible manner.
- Available open space with passive parks and connected trails will be one of the area’s prime assets.
- New activity centers will be located along Peachtree Parkway both near its intersection with Old Alpharetta Road and GA 400, offering convenient access to commercial services and employment opportunities.
- A network of well-engineered roads, bike trails and sidewalks will provide circulation alternatives.

- Sewer will be extended throughout the subarea.
- Citizens will have easy access to libraries and other government services.

***Subarea 6 - Big Creek Subarea Vision***

- The Big Creek subarea will primarily be a residential community with close proximity to jobs and commercial areas.
- Residential developments will preserve large amounts of open space.
- Commercial development will take the form of nodes as opposed to “strip commercial”. Commercial development should be directed along SR 20.
- Adopt appropriate design standards to promote quality development throughout the subarea.
- A network of greenways will run throughout the subarea with passive parks and connected trails.
- The subarea will offer a variety of lot sizes, but design guidelines will help to preserve the rural character.
- The subarea’s valued natural and cultural resources will be preserved for future generations.

***Subarea 7 - Buford/ 20 East Subarea Vision:***

- The Buford/ 20 East subarea will primarily have residential character with convenient access to recreational, shopping and employment opportunities.
- The GA 400 and GA 20 highway corridors will continue to be an asset for residents of this subarea, providing a connection to jobs and commercial areas.
- New activity centers will be located near the intersection of GA 20 and Sanders Road and GA 20 and Windermere Parkway.
- Appropriate design standards will be adopted to promote quality development throughout the subarea.
- A network of greenways will run throughout the subarea with passive parks and connected trails.
- The subarea’s valuable natural resources, including Lake Lanier and the Chattahoochee River, will be preserved for future generations through appropriated buffers and impervious surface restrictions.

***Subarea 8 - Lake Lanier Subarea Vision***

- Lake Lanier will continue to be a valuable asset that provides recreational opportunities for local residents and visitors.
- The Lake Lanier subarea will primarily have a rural and large lot residential character.
- Commercial development will be limited in the subarea. Nodal commercial development will be concentrated in designated areas along the SR 369 corridor.
- The GA 400 corridor will continue to be an asset for residents of this subarea, providing a connection to jobs and commercial areas.
- Appropriate design standards will be adopted to promote quality development throughout the subarea.
- A network of greenways will run throughout the subarea with passive parks and connected trails, in particular connecting U.S. Army Corps of Engineers Land.

### ***Subarea 9 - Settingdown Subarea Vision***

- Settingdown will primarily have a rural and large lot residential character.
- The subarea will offer a variety of lot sizes, but design guidelines will help to preserve the rural character.
- The subarea's valued natural and cultural resources will be preserved for future generations.
- With the exception of Hwy 9, the subarea will not contain any large-scale commercial areas.
- A nodal form of commercial development will develop along Hwy 9, not "strip commercial."
- Limited commercial development will be provided within large planned developments.
- A network of greenways will run throughout the subarea with passive parks and connected trails.

### ***Subarea 10 - Etowah Subarea Vision***

- The subarea's natural and cultural resources will be protected for future generations.
- The subarea will maintain a rural character and retain some agricultural uses.
- Conventional subdivisions will be encouraged to locate south of Matt Hwy.
- Current larger undeveloped tracts will be developed as conservation subdivisions.

## **LONG-RANGE OBJECTIVES AND SHORT-RANGE ACTION ITEMS**

The long-range objectives and short-range action items described below are derived from the preceding elements and correspond to goals set by the community. The distinction between what constitutes a long-range objective and what constitutes a short-range action item is in the manner in which they are achieved. An objective is a guideline to be followed by government officials in making land use or capital investment decisions aimed at addressing a general goal. An action item calls for some particular action on the part of the county to meet a specified objective. Action items are included in the Short Term Work Program (STWP).

### **Housing**

**Objective 1:** • Protect residential areas by encouraging appropriate open space buffers around commercial developments.

**Objective 2:** • Encourage measures to achieve a balanced mix of dwelling types, sizes, and prices in order to meet the diverse needs of the community's workforce and support desired commercial and industrial growth.

#### ***Action Items:***

- Develop policy that would encourage developers of large non-residential projects to evaluate the need for affordable housing generated by persons to be employed in the proposed development. Developers of large non-residential projects that are determined to create a significant need for affordable housing not currently available within the community should be encouraged to supply moderate income housing.
- Investigate amending the UDC to establish a voluntary, incentive-based " set aside a certain percent of the total units in the development for moderate income residents.

**Objective 3:** Encourage quality and long-term value in residential development as a means of maintaining high standards, quality image, and property values.

**Action Items:**

- Examine the feasibility of a code enforcement program aimed at reducing dilapidated and substandard property.

## **Economic Development**

**Objective 1:** Encourage landscaping, signage, building design, and other development regulations that enhance the image of Forsyth County and create value.

**Action Items:**

- Examine the feasibility of architectural and design standards with a citizen based design committee.

**Objective 2:** Continue to encourage the expansion of existing business/industry and the location on new business/industry to Forsyth in a manner that is consistent with the goals and objectives of the Comprehensive Plan.

**Objective 3:** Continue to support the work of the Forsyth County Chamber of Commerce.

## **Natural and Cultural Resources**

**Objective 1:** Work towards exceeding the state standard for greenspace in each subarea .

**Action Items:**

- Prepare a greenway/open space master plan to reflect the goals and objectives of the Comprehensive Plan.
- Work toward the acquisition and preservation greenbelt-protected areas, such as the Chattahoochee River, Etowah River, and Big Creek.
- Partner with large-scale residential and mixed-use developments to obtain conservation easements.
- Acquire land in the southern portion of the county for a new community park and greenway, to include passive use opportunities.
- Study the feasibility of transferable development rights (TDRs) and other tools to provide incentives to preserve green space, open space, and to retain small farms and agricultural related businesses.

**Objective 2:** Consider methods to enhance the enforcement of ordinances for sedimentation and erosion control.

**Action Items:**

- Add additional county staff to enforce development and zoning conditions and erosion control with substantial fines for noncompliance.

**Objective 3:** Support regional efforts for water resources management and wastewater management.

**Action items:**

- Review, and update as necessary, the County's rules, regulations, and ordinances to ensure that adequate measures are in place to protect water resources.
- Work to adopt the watershed management plan and agree to support implementation of the recommendations.
- Implement a watershed monitoring program that requires future permits to document their effectiveness for watershed management and the associated reductions in

nonpoint source pollutant loading.

- Enhance public outreach and education programs in an effort to minimize nonpoint source runoff and develop support for water quality improvement programs.
- Participate in the Metropolitan North Georgia Water Planning District.
- Follow procedures outlined by the Metropolitan North Georgia Water Planning District to meet requirements related to TMDL
- Examine measures to improve water quality, such as stream buffer requirements.

**Objective 4:** Promote the preservation of the natural and cultural resources of the county.

**Action Items:**

- Revise the permitting and enforcement procedures that are related to the sign ordinance to help preserve the scenic features of the county.
- Review the County's rules, regulations, and ordinances to ensure that adequate measures are in place to protect and encourage the preservation of trees and vegetative cover.
- Establish standards to identify land in which development impacts should be minimized.
- Appoint a community task force to study the feasibility of a countywide historic preservation ordinance.
- Investigate preservation incentives such as local property tax freeze or abatement programs.
- Utilize current state and federal programs that provide funding, staff and services in the area of historic preservation.
- Pursue funding for a survey to identify and document pre-historic and historic archeology in Forsyth County.
- Seek certification as a Certified Local Government under the Historic Preservation Division of the Georgia Department of Natural Resources.

**Objective 5:** Continue to support the attainment of air quality in conjunction with neighboring counties.

**Objective 6:** Encourage the creation of hiking trails which interconnect with existing greenways and trails from adjoining counties.

**Action Items:**

- Develop pedestrian trails linking recreation sites that will eventually result in a regional trail system.
- Create development standards to encourage the linking of conservation lands to create greenway corridors.

**Objective 7:** Promote non-residential design that reduces urban heat islands and minimize light pollution.

**Objective 8:** Continue to comply with the Part V Criteria of the Department of Natural Resources Minimum Environmental Standards.

## **Community Facilities and Services**

**Objective 1:** Ensure that prime commercial/industrial acreage is served with necessary infrastructure

**Action Items:**

- Own and operate utilities that manage water supply systems, water conservation

programs, and wastewater.

**Objective 2:** Encourage street designs that improve traffic flow and reduce congestion, such as grid pattern streets.

**Action Items:**

- Develop overlay districts for major transportation corridors. A major transportation corridor study should consider design criteria, alternative development regulations, and increased flexibility in accepted land uses. Develop a procedure for community involvement, such as a community task force.

**Objective 3:** Encourage alternative transportation forms, such as carpooling, to reduce congestion and vehicular demands on roadways by reducing single occupancy vehicle use

**Action Items:**

- Modify development regulations to encourage the installation of sidewalks, bike paths and trees along roadways as they are improved or created.

**Objective 4:** Implement development patterns that would make the extension of public facilities or services economically feasible.

**Action Items:**

- Coordinate with the City of Cumming to identify further opportunities for joint service delivery.
- Work with the City of Cumming, the Forsyth County Board of Education, and other local entities to examine the feasibility of establishing a joint processes for collaborative planning and decision-making on population projections, the location and extension of public facilities, and the location of facilities with countywide significance, such as water supply reservoirs, water and wastewater treatment facilities, solid waste disposal facilities, and schools.

## Land Use

**Objective 1:** Continue to monitor the development of the County to determine if the goals and objectives of the comprehensive plan are being attained.

**Action Items:**

- Annually review the land use element of the comprehensive plan and consider changes in response to previously unforeseen opportunities.
- Develop a methodology for the continuation of the subarea planning process.
- Update the Unified Development Code (UDC). Address existing inconsistencies and include modifications to reflect the goals and objectives of the Comprehensive Plan.
- Establish procedures for annual review and update of CIE and STWP as required by Impact Fees.

**Objective 2:** Encourage maximizing open space with density incentives.

**Action Items:**

- Develop a plan to require mixed-use development to have a significant percentage of the area to remain protected greenspace.

**Objective 3:** Consider modifying the development regulations to encourage mixed-income and mixed-use neighborhoods.

**Action Items:**

- Modify development regulations to encourage mixed-use developments in appropriate land use designations with appropriate controls.

**Objective 4:** Continue efforts to have an efficient and adequate level of public participation in the land development process.

**Action Items:**

- Examine the rezoning process with focus on submittal requirements and the revision process.

**Objective 5:** Continue to use the comprehensive plan as part of the considerations for rezoning requests and conditional use applications.

**Action Items:**

- Initiate an annual review and update process for the Comprehensive Plan and continue to monitor development to determine if the goals and objectives of the plan are being attained.

## **SHORT TERM WORK PROGRAM**

A Short-Term Work Program sets out the specific actions the local government intends to take during each of the next five years to implement the Comprehensive Plan. Each item listed in the STWP includes information on the responsible party, funding source, and estimated cost. The Short-term Work Program for Forsyth County is presented in the Updated Implementation Program, section D, within the Partial Update. Not all action items can be addressed in the next five years. These items will be included as part of the work program at some point over the twenty-year planning period.

## INTRODUCTION

Forsyth County, located 40 miles north of Atlanta and 247.4 square miles in size, is preparing for unprecedented growth over the next 10 to 15 years, after already coping for more than a decade of nationally recognized growth. This is evidenced by recent zoning cases approving residential communities, business parks, and retail development throughout the county over the last 36 months. The population for Forsyth County at the 2000 census was 98,407 representing a 123% increase over the 1990 census. This is an average annual increase of 5,532 new residents to Forsyth County. The planning horizon to the years 2010 and 2015, respectively, project the population to increase to a level of 160,219 and 185,019. These projections embody a pace of growth even higher than that of the 1990's. During the 2000's, the number of new residents is projected to rise to approximately 6,200 per year and remain at this level for the foreseeable future. These figures are substantial and must be used to prepare and plan for the increased demands of future growth in order to maintain and improve the level of services currently enjoyed by today's county citizens.

The county relies on its Future Land Use Plan as an important tool not only to guide and direct the county's future but as a statement of policy. In addition to being a tool for zoning analysis, the Future Land Use Plan also provides predictability to the residential and business community as a tool to better understand how the future of the county is envisioned and how the Plan is to be achieved. This tool is relied upon as a source for all county offices to plan for serving the county's future population. These same growth projections and patterns for the county's future are used in budget preparation and planning, both for the short term and long term, by the county so that the community as a whole will be adequately served and that the cost of growth can be managed in a proactive manner rather than a reactive one.

In order to maintain levels of service for the county, the Board of Commissioners ("Board") must look to and explore multiple funding sources and incorporate these sources as a component in their financial planning. In order to serve the future population, which will demand the same levels of services that the current population enjoys, the county is considering the merits that impact fees would offer. In addition to the customary financial resources made available through property taxes, special assessments, fees, grants, and bonds, the county has decided to formally adopt impact fees as enabled by the Georgia Development Impact Fee Act. The cost of growth should not be a burden to current taxpayers and should be paid by new growth and development in proportion to the costs imposed by such growth and development. With this in mind, Forsyth County has, in accordance with the Development Impact Fee Act, prepared a Capital Improvement Element for Public Safety, including the elements of the Sheriff's Department ("Sheriff"), Fire and Rescue; Parks and Recreation; and Libraries.

## Public Safety

### *Sheriff*

Forsyth County is served by its own law enforcement agency that is housed under the Sheriff's Office. The Sheriff is a countywide elected official. While the Sheriff's Office is operated through fees and fines, the majority of the operational and capital budget is funded from the county's general fund and consists of the following divisions and programs: Patrol and Investigations, Detention, Court Services, Special Operations (Specialized Traffic Enforcement Unit, Marine Patrol, Bicycle Patrol, Horse Patrol, School Resource Officers, Animal Control, Ordinance Enforcement, and Community Offered Programs) and Communications including Emergency-911 ("E-911").

Concerned with the county's explosive growth and the ability to better plan for serving the future growth (see **Table 11.1**), the Sheriff's Office directed a study to review the Office and its operations, as well as, future capital needs. The study was completed in early 2003 and reviews and analyzes the current operations and delivery of service while establishing the framework for preparing for the demands of future growth on the Sheriff's Office and further outlines specific needs to service existing and future needs. This study was timely and relevant, as it was as an important tool when developing the capital improvement program for the county's impact fees which was guided by the Sheriff and his office. Clearly, the growth expected as demonstrated in Table 11.1 illustrates a valid concern about meeting the demands of future growth. For example, the future dwelling units are projected to soar to 53,264 by 2025. This alone represents an addition of 2,131 dwellings per year. Additionally, the population will soar and add an additional 129,412 persons, representing 5,176 new persons a year by 2025. The concerns sounded in the Sheriff's study dated February 10, 2003 are not only critical but are supported by data reflected in Table 11.1. It will be imperative for the county to act now to ready itself for serving and responding to the demand for services.

The Sheriff's study illustrates four major components. First, efficiencies and execution of service have been compromised in the delivery of current service, which places great challenges in providing the current level of service in the face of substantial future growth. The Sheriff's Office operates out of twelve separate facilities. The Office has 259 authorized positions, which are made up of civilian and uniformed personnel. The 2003 study urges the consolidation of these separate offices and states that this is an absolute critical need of the Sheriff's Office in order to better serve the growing community at-large as well as the current population. A second and equally important concern involves the Forsyth County Detention Center. The existing detention center is currently over capacity and the department has had to develop strategic initiatives to service the growing incarcerated population while protecting the general public at the same time.

Third, in addition to the above named divisions and programs, the Sheriff's Office study calls for two separate precincts in order to maintain response times and provide services county-wide for the future population. The needs and improvements regarding separate precincts are addressed in both **Tables 11.10 and 11.14** of the Public Safety Improvement Program.

Fourth, communication services are critical to the execution and delivery of services to the county. The county operates an E-911 system. In review of the system, it was determined that, with full support of the Sheriff, the existing E-911 system was incapable for meeting the projected future calls for service and thus needed to be replaced with new state of the art communication equipment and a new building. Current equipment is not sophisticated enough to be integrated into the county's GIS system. An example of which involved the Sheriff's Office conducting a manual review and analysis of each and every address where incidents occurred over the last year (2002). The current system could not identify if the service delivered was to a residence or that of a commercial, office, retail or any other nonresidential establishment. In addition to the inadequate sorting of the data the safety of the Sheriff's Deputies is of great concern. When a call is dispatched now to the deputies the information received on the E-911 is not always reliable and therefore jeopardizes their safety. With the county experiencing the tremendous amount of growth as indicated on **Table 11.1**, a manual system is no longer a valid approach to verify incident records nor can the current system be relied upon when the safety of the Sheriff's Office is paramount to the delivery of their services to the population. Currently, the headquarters space for E-911 is housed in a separate building that was built in 1990. The current Level of Service is 0.130 sq. ft. per capita. With the future growth expected as noted in Table 11.1 reaching 185,019 by 2015, the Sheriff has informed the Forsyth County Board of Commissioners that he must have a new facility to accommodate the necessary expansion to house not only equipment but the increase in staff necessary to respond to the demands brought on by future growth. Additionally, the Sheriff has informed the Board of Commissioners that the communication system including but not limited to tower enhancement and repeaters must be installed to provide the necessary safeguards of a reliable communication system. Currently, in several areas of the county the Sheriff's Office has experienced "deadzones" where there is no ability to communicate by radio and therefore results in an unsafe delivery of public safety services. The existing facility housing E-911 services cannot accommodate any further expansion and therefore it was determined a new state of the art facility of 10,000 sq. ft. must be constructed and would meet the need brought on by future growth. SPLOST funds and the general fund in the amount of \$9,338,524 will pay for the existing deficiency and enable the county along with the \$5,411,476 coming from new growth funded by impact fees to meet the new Level of Service of 0.189 sq. ft. per capita. As a result an upgraded communication system will be provided along with a newly constructed E-911 facility. **Table 11.9** reflects the total \$14,750,000 E-911 improvement plan.

Forsyth County is growing rapidly as are the demands placed upon the Sheriff's Office by the existing population and soon by the future population. This is supported by the level of service reflected in **Table 11.7**. A proactive stance is critical to the delivery of public safety protection. The capital improvement element for the Sheriff's Office reflects a proactive stance for meeting the future needs and at the same time will enable the Office to continue to provide the levels of service that the current population enjoys.

*Fire Safety and Rescue*

Forsyth County is served by a Fire Department made up of both full-time professionals and volunteers. The Fire Department is funded not only by the general fund but enjoys a funding

source generated from a special one mill tax which is assigned exclusively to fire safety services. Like the Sheriff's Department, the Fire Department provides fire protection services as a means to protect the health, safety, and welfare of its citizens. Currently, the Department has 15 stations of which five are staffed with volunteer fire fighters. The remaining ten stations are staffed with full-time paid professional fire fighters. Typical to other fire departments, the Forsyth Fire Department uses the criteria of five road miles from each station to define the territory for service and protection. This criteria is customary with the Insurance Services Office which rates fire departments for insurance purposes and which ultimately determines individual premiums. The citizens of the county have enjoyed a five-minute response time on average based on first on-scene arrival times. In establishing the county's level of service, it was determined that the existing level of service of one fully equipped station plus a ladder truck for every 16,734 persons would be necessary to continue to meet the future needs of the county. Based on this level of service, the county will need three additional and fully equipped stations for the planning horizon as shown on **Table 11.11**.

In 2003, the county enjoyed overwhelming approval for a SPLOST initiative. This included funding for fire protection and safety initiatives. In particular, the SPLOST will fund the renovation of seven of the 15 stations. Impact fees will fund three new stations and equip each with a pumper truck, rescue vehicle and other equipment, including Jaws of Life and a ladder truck. **Table 11.10** sets forth the improvement program for fire safety and protection.

## **Parks And Recreation**

The county has its own full time professional Parks and Recreation Department and provides recreational services both passive and active countywide. The county's current inventory includes eight parks with a total of 1,114 acres of land. The county has received funding in terms of grants for the statewide greenspace program and has used these funds in the past to acquire parkland. Like most of the county departments, the Parks and Recreation Department receives most of its funding from the county general fund. However, unlike most county departments, the Parks and Recreation Department is a cost center and does not generate fees from recreational services. While this is not enough to fund the department it does aid in offsetting some of the costs in operating the department.

As in the case of public safety, the department will also benefit from the recently approved SPLOST referendum and is budgeted to receive over \$15M in new funds (see **Table 11.14**). The county's current level of service extended by the department is 2.638 acres of active parks per 1,000 population (see **Table 11.17**) and is valued at \$150,000 per acre resulting in \$45M of estimated value for all existing Forsyth County parks. This equates to \$384.16 per capita and \$1,021.21 per dwelling unit (see **Table 11.17** entitled Level of Service).

To maintain this level of service, the county intends to improve and build new parks and facilities such as improvements to the soccer complex, Coal Mountain Park, a south county recreation center, Sawnee Mountain Preserve, as well as those listed in the capital improvement plan found in **Table 11.18**. The capital improvement plan is an aggressive plan but absolutely necessary to maintain the level of service enjoyed by the existing population.

With the expected population increase as noted in Table 11.1, the county will have to build today to meet the demands of the future population. As the county grows in the nonresidential land uses, it will be important to monitor the nonresidential activity of the parks system for the possibility in the future to assign costs to this sector of the county.

## Libraries

Forsyth County has established and provides a full time library service countywide and currently has two facilities operating within the county. Staffed with full time professionals the Library Department serves over 42,000 patrons. While the service is available countywide and is used countywide, 42,000 are those patrons who actually have been issued a library card. The Central Library serves as the current headquarters facility with a branch located in the outlying county. It is planned that the Headquarters facility will be moved out of the Central Library and into a freestanding facility. Space used currently for headquarters in Central will be reallocated for patron and administrative space. Impact fees will not be used to pay for any improvements to the Library Headquarters which is located in the City of Cumming. Funds to improve the space in the headquarters facility will come from the general fund and SPLOST. The current level of service as shown in **Table 11.20** indicates 0.388 square feet of library floor space per capita however, the department feels in order to fully serve the current and future population a level of service of 0.5 per capita is necessary. The deficiency will be made up of county funds derived from SPLOST (see **Table 11.20**). The capital improvement program as shown in **Table 11.20** indicates three separate improvements. They include the Hampton Branch, Central Branch (Cumming Library), and the Headquarters Facility. With the growth anticipated and reflected in Table 11.1, it is important to address the needs of the county library system early in order to be able to meet the demands of the future.

Total library improvements planned amount to \$6,724,103. This program includes the renovation of the exiting Cumming library, the construction of an over-sized Hampton Brach Library and the construction of headquarters facilities. The present plan is to pay for these capital costs (\$6.7 million) out of SPLOST receipts (\$4.8 million) and impact fees(\$1.9 million). The library capital cost allocable to new development in the unincorporated area to 2009 is \$2,681,403. The proposed library impact fee before the Board of Commissioners begins with the per dwelling library cost of \$197.28 and discounts that cost by \$46.31. This amount reflects the SPLOST payments toward library improvements that are attributable to a new dwelling unit in the county. This results in a net cost per dwelling unit of \$150.97. The ordinance before the Board would collect this amount as an impact fee (the Board of Commissioners is considering assessing the library impact fee on then basis of the size of a dwelling unit, in square feet of heated area. If the Board elects this option, it would still equal \$150.97 for the average dwelling unit).

Between 2003 and 2009 it is expected that there will be 14,421 new dwellings constructed in Forsyth County; 290 in Cumming and 14,131 in the unincorporated area. This means that new developments in the unincorporated area will pay \$2,133,314 toward the cost of library improvements at \$150.97 each. As shown above, the cost attributable to new development in the unincorporated area is \$2,681,403. The cost to be paid by new development is

significantly less than the attributable cost. Moreover, Forsyth County will have a surplus in library impact fee collections to carry beyond 2009. This situation is to be expected since the Hampton Branch Library will provide service beyond 2009.

New development in the unincorporated area will pay \$2.1 million in library impact fees toward library improvement costs as contracted with attributable costs of \$2.7 residential developments in the unincorporated area of Forsyth County are not being disadvantaged by the non-participation of the City of Cumming in the library impact fee program. The use of SPLOST funds (\$4.7 million) to pay many of the improvement costs (\$6.7 million) assures that new developments are not being assessed more than their *pro rata* share of library capital costs (\$2.7 million).

In the past, the development community has been very supportive of the expansion of the library system and has agreed to work with the county and the reservation of future land and space as they plan their mixed-use developments. This practice should be encouraged to include future libraries so that they are easily accessible to the public which will be a key ingredient to the successful patronage of the facility and the system overall. Impact fees and the funds generated from SPLOST will enable the department to be proactive and ready to respond in a timely manner to address future needs while continuing to serve the existing population without interruption.

## GROWTH OF FORSYTH COUNTY

### Population

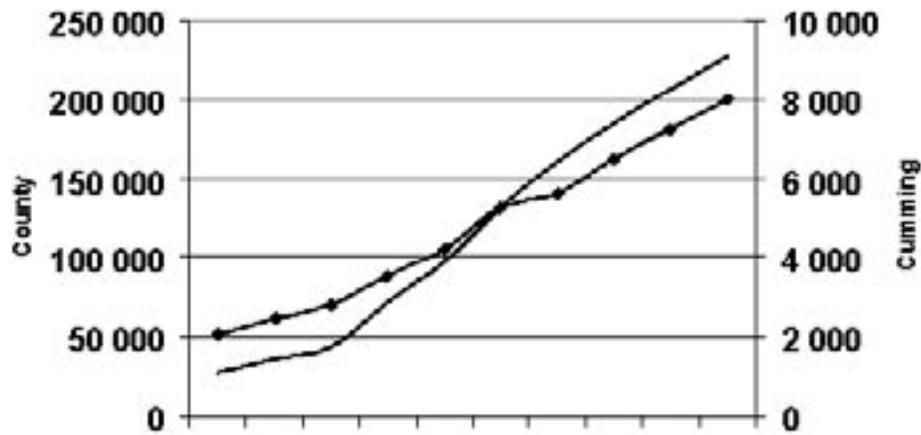
Forsyth County’s historic and projected populations are shown in **Table 11.1**. This is the population that Forsyth County is planning to serve with public safety, parks & recreation and library facilities.

**TABLE 11.1: FORSYTH COUNTY POPULATION 1980 – 2025**

YEAR	COUNTY	CUMMING
1980	27,958	2,059
1990	44,083	2,828
2000	98,407	4,220
2005	131,569	5,263
2010	160,219	5,608
2015	185,019	6,476
2020	206,418	7,224
2025	227,819	7,974

Source: Jerry Weitz & Associates, July 2002.

**FIGURE 11.1: POPULATION TO 2025 FORSYTH COUNTY AND CUMMING**  
**Forsyth County & Cumming**



**Table 11.2** converts the projected population into households and needed dwelling units. During 2000 to 2025, Forsyth County is expected to add:

- 129,412 persons to its population
  - 5,176 additional persons per year
  
- 50,716 new households
  - 2,029 new households per year
  
- 53,264 new dwelling units
  - 2,131 new dwellings per year

Land use planning within Forsyth County will have to identify and provide adequate and efficient sites for these new residences. Additionally, Forsyth County is expected to fund improvements to public safety, public libraries and also to the county’s park & recreation that will accommodate these additional persons. This is a substantial quantity of growth and accommodating this growth will strain Forsyth County’s financial abilities.

**TABLE 11.2: POPULATION, HOUSE HOLDS AND HOUSING 1990 – 2025**

	1990	2000	2005	2010	2015	2020	2025
Population	44,083	98,407	131,569	160,219	185,019	206,418	227,819
Households	15,938	34,565	47,460	57,795	67,977	77,270	85,281
Persons per HH	2.766	2.847	2.772	2.772	2.722	2.671	2.671
Dwelling Units	17,869	36,505	49,957	60,837	71,554	81,336	89,769
Occupied DUs	15,938	34,565	47,460	57,795	67,977	77,270	85,281
Persons per DU	2.467	2.696	2.634	2.634	2.586	2.538	2.538

Source: Jerry Weitz & Associates, July 2002 and U.S. Bureau of the Census, 1990 and 2000 Census of the Population, Forsyth County at [www.census.gov/Americanfactfinder](http://www.census.gov/Americanfactfinder).

## Employment

Forsyth County employment projections are shown in **Tables 11.3 and 11.4.**

**TABLE 11.3: EMPLOYMENT PROJECTIONS 2000 – 2025**

INDUSTRY	2000	2005	2010	2015	2020	2025
Agricultural Service	800	760	720	680	640	600
Mining	60	70	80	90	110	110
Construction	5,000	6,500	7,600	9,500	10,200	10,700
Manufacturing	7,200	8,700	9,500	10,600	11,500	11,900
T.C.U.	1,000	1,200	1,500	1,600	1,700	1,800
Wholesale Trade	3,500	4,700	5,800	6,300	7,400	8,300
Retail Trade	5,400	7,200	8,400	10,300	11,400	12,200
F.I.R.E.	800	1,400	2,000	3,400	3,700	4,000
Services	6,700	8,400	12,600	18,400	22,300	25,000
Government	3,500	3,600	3,800	4,100	4,400	4,500
Total	33,960	42,530	52,000	64,970	73,350	79,110

Source: Jerry Weitz & Associates, 2002.

T.C.U. – Transportation, Communication and Utilities  
 F.I.R.E. – Finance, Insurance and Real Estate

**TABLE 11.4: PROJECTED EMPLOYMENT GROWTH BY INDUSTRY 2000 – 2025**

Industry	Total New Jobs	% Of all New Jobs	Annual Growth Rate
Agricultural Service	-200	-0.44%	-1.14%
Mining	50	0.11%	2.45%
Construction	5,700	12.62%	3.09%
Manufacturing	4,700	10.41%	2.03%
T.C.U.	800	1.77%	2.38%
Wholesale Trade	4,800	10.63%	3.51%
Retail Trade	6,800	15.06%	3.31%
F.I.R.E.	3,200	7.09%	6.65%
Services	18,300	40.53%	5.41%
Government	1,000	2.21%	1.01%
Total	45,150	100.00%	3.44%

Sources: Jerry Weitz & Associates, July 2002, and US Department of Commerce, County Business Patterns, Forsyth County, 1997-2002.

The county is projected to add 1,806 new jobs per year to 2025. While finance, insurance and real estate sectors are expected to experience the most rapid rate of growth, 40% of all new jobs will be in the service sector. Services and trade (both wholesale and retail) account for 30,000 of the 45,000 new jobs (66%). Land use planning will have to identify adequate and efficient sites for these new and expanded employers.

**Non-Residential Land Use**

The projected needs for developed floor area by type of use are shown in **Table 11.5**. The projected growth of the county will require an estimated 29 million square feet of floor area within 3,464 additional acres of non-residential development.

**TABLE 11.5: PROJECTED NON-RESIDENTIAL DEVELOPMENT 2000 – 2025**

	2000	2005	2010	2015	2020	2025
Commercial Acres	1,247	1,613	1,898	2,331	2,543	2,697
Office/Professional Acres	378	492	655	876	1,019	1,122
Industrial Acres	1,143	1,433	1,662	1,974	2,165	2,288
Public & Quasi-Public Acres	438	450	475	513	550	563
Total Non-Residential Acres	3,206	3,987	4,690	5,694	6,276	6,670
Non-Residential Floor Area(Ft)	27,286,858	33,939,867	39,921,037	48,468,331	53,422,710	56,771,544

Source: Urban Land Institute (ULI), Office and Industrial Development Handbook services, various years.

**Future Land Uses**

**Table 11.6** sets out the future land use assumptions for Forsyth County. These are the developmental parameters that will be employed in developing capital improvement programs and development impact fees.

**TABLE 11.6: LAND USE ASSUMPTIONS 2000 – 2025**

	2000	2005	2010	2015	2020	2025
Population	98,407	131,569	160,219	185,019	206,418	227,819
Households	34,565	47,460	57,795	67,977	77,270	85,281
Persons per HH	2.847	2.772	2.772	2.722	2.671	2.671
Dwelling Units	36,505	49,957	60,837	71,554	81,336	89,769
Occupied Dus	34,565	47,460	57,795	67,977	77,270	85,281
Persons per Dus	2.696	2.634	2.634	2.586	2.538	2.538
Residential Acres	17,383	22,708	25,349	27,521	29,049	29,923
Commercial Acres	1,247	1,613	1,898	2,331	2,543	2,697
Office/Professional Acres	378	492	655	876	1,019	1,122
Industrial Acres	1,143	1,433	1,662	1,974	2,165	2,288
Public & Quasi-Public	438	450	475	513	550	563
Total Developed Acres	20,589	26,695	30,039	33,215	35,325	36,593
Non-Residential Floor Area	27,286,858	33,939,867	39,921,037	48,468,331	53,422,710	56,771,544
Dwelling Units Per Acre	2.100	2.200	2.400	2.600	2.800	3.000

Sources: Tables, 1, 2, 3, 4 and 5 above.

## PUBLIC SAFETY OPTIONS

The Board of Commissioners is considering two public safety options. These two options are set out below. After deliberation and consideration of public input, the Board will select one of these two options. At this time both options are being considered within the amended Capital Improvement Element, recognizing that one of the two options will be deleted from the final amendments to the Comprehensive Plan.

## PUBLIC SAFETY - WITHOUT NEW DETENTION FACILITY

### Level Of Service - Sheriff

Table 11.7 sets out the existing and future levels of service for Forsyth County Sheriff's capital facilities. The detention facility is excluded in the level of service set forth below.

**TABLE 11.7: SHERIFF'S LEVEL OF SERVICE**

Existing Building Area	2003	FUTURE
Office	1,452	0
Admin Services	1,400	0
Support	1,300	0
Records	2,883	0
CID	3,452	0
Evidence	2,112	0
UPD	2,139	2,139
Courthouse	524	524
New Facility		32,315
<b>TOTAL</b>	<b>15,262</b>	<b>34,978</b>
Planning Horizon		2015
Target Population		185,019
Floor Area per Capita		0.189
<b>NEEDED FLOOR AREA</b>		<b>34,978</b>
Serving Existing Community		22,145
Existing Deficiency		19,482
Serving Growth		12,833
<b>Sheriff's Headquarters;</b>		<b>\$4,316,000</b>
Cost of Existing Deficiency		\$2,403,955
Cost of Growth		\$1,912,045
<b>South Precinct</b>		<b>\$2,267,000</b>
<b>North Precinct</b>		<b>\$2,267,000</b>
<b>Total Improvements</b>		<b>\$8,850,000</b>
<b>Total Growth</b>		<b>\$6,446,045</b>
Assigned to;		
Residential 60%		\$3,867,627
New Dwelling Units		27,488
Per Dwelling Unit		\$140.70
Non-Residential 40%		\$2,578,418
New Floor Area		17,364,958
Per Foot		\$0.148

Much of the existing Sheriff's facilities will be replaced with a consolidated new facility. This new facility will service both the existing community and new development. When completed, the level of service for Forsyth County will be 0.189 square feet of building floor area per capita. This ratio is applied equally to the existing developments and to new development and thus constitutes the attribution of need to new development. This LOS constitutes an increase above the existing level of service of 0.130 feet. Of the total new facilities, 19,482 feet (56%) is an existing deficiency, the cost of which should be borne by the existing community. The remainder of the Sheriff's Headquarters will service the needs of growth to 2015.

The total cost of new Sheriff's facilities amounts \$8,850,000, \$6,446,045 (73%) of which is the cost of serving growth. Total growth cost is divided between new residential development and new non-residential development. The division is 60% residential and 40% non-residential. This division is confirmed as reasonable by the Forsyth County Sheriff's Department based upon Forsyth County experience. The result is a residential assigned cost of \$3,867,627. This amounts to \$140.70 per additional residential dwelling unit. The non-residential cost of \$2,578,418 equates to \$0.148 per gross square foot of floor area.

**Level Of Service - Fire & Rescue**

The existing level of service for Forsyth County Fire & Rescue is shown in **Table 11.8**. These cost assignments are based on a level of service of one fully equipped fire station plus a ladder truck for each 16,734 persons. The need for new facilities attributable to new development is one fully equipped station for each 16,734 additional residents, with the cost for stations to be distributed among residential and non-residential developments on the basis of their calls for service. Like the Sheriff's facilities, the growth serving costs are divided between residential and non-residential development on a 78% - 22% basis. The proposed three additional fire stations would serve an additional 50,203 residents and would meet the needs of Forsyth County to 2012. The cost per new dwelling is \$245.94 and the cost per non-residential foot of floor area is \$0.097.

**TABLE 11.8: FIRE LEVEL OF SERVICE**

<b>Existing Stations</b>	<b>7</b>
Population per Station	16,734
Value per Station	\$1,870,000
Value of Ladder Truck	\$750,000
Total Current Value	\$13,840,000
Assigned to;	
Residential 78%	\$10,837,672
Per Dwelling Unit	\$245.94
Non-Residential 22%	\$3,002,328
Per Foot of Floor Area	\$0.097
Proposed new Stations	3
Population Served by 3 stations	50,203
Total Population Served	167,342
Planning Horizon	2012

The level of service for the E-911 system is shown in **Table 11.9**. The existing E-911 facilities and equipment do not have the capacities to meet the future needs of Forsyth County and will have to be replaced with equipment and facilities that have the capacity to meet existing and projected public safety needs of Forsyth County.

**TABLE 11.9: EMERGENCY 911 LEVEL OF SERVICE**

Exiting Level of Service:	
All existing facilities to be replaced.	
Proposed Facilities:	
Building	\$2,750,000
E911 Equipment	\$12,000,000
Total	\$14,750,000
Population Served	185,019
Existing Deficiency	\$9,338,524
Growth Cost	\$5,411,476
Residential 78%	\$4,237,558
Per Dwelling Unit	\$154.16
Non-Residential 22%	\$5,100,966
Per Foot of Floor Area	\$0.294

### Public Safety Capital Improvement Program

**Table 11.10** contains the short-term capital improvement program for Public Safety. Public Safety includes the Sheriff’s Department, the Forsyth County Fire & Rescue Department and the Emergency 911 system. These improvements, planned to be made between 2003-2008, will serve the anticipated growth of Forsyth County to 2015 with Sheriff’s and 911 facilities and to 2012 with fire & rescue stations. The improvements shown in Table 11.10 and the timing of those improvements should be read as the best current thinking of the respective departments and the Impact Fee Advisory Committee (“IFAC”) and not fixed recommendations and most certainly not commitments. The IFAC believes that it is important to couple impact fees with improvements expected to be provided with those fees. Furthermore, the Georgia Development Impact Fee Act, O.C.G.A. §36-71-1, et seq.-?, requires the projection of needed capital improvements for a stated planning horizon and the incorporation of those projections into a Capital Improvements Element of the Forsyth County Comprehensive Plan. For these reason the IFAC is including specific improvements together with the timing of those improvements.

TABLE 11.10: PUBLIC SAFETY IMPROVEMENT PROGRAM

	2004	2005	2006	2007	2008
SHERIFF					
Sheriff's Headquarters	\$899,000	\$1,368,000	\$1,368,000	\$681,000	\$0
Existing Need	\$500,731	\$761,958	\$761,958	\$379,308	\$0
Growth Cost	\$398,269	\$606,042	\$606,042	\$301,692	\$0
New Precinct - South	\$1,191,000	\$1,076,000	\$0	\$0	\$0
Existing Need	\$0	\$0	\$0	\$0	\$0
Growth Cost	\$1,191,000	\$1,076,000	\$0	\$0	\$0
New Precinct - North	\$0	\$0	\$1,729,000	\$538,000	\$0
Existing Need	\$0	\$0	\$0	\$0	\$0
Growth Cost	\$0	\$0	\$1,729,000	\$538,000	\$0
TOTAL	\$2,090,000	\$2,444,000	\$3,097,000	\$1,219,000	\$0
Existing Need	\$500,731	\$761,958	\$761,958	\$379,308	\$0
Growth Cost	\$1,589,269	\$1,682,042	\$2,335,042	\$839,692	\$0
FIRE & RESCUE:					
New Fire Station-1	\$1,500,000	\$0	\$0	\$0	\$0
Pumper Truck	\$0	\$250,000	\$0	\$0	\$0
Rescue Vehicle	\$0	\$100,000	\$0	\$0	\$0
Other Equipment	\$0	\$20,000	\$0	\$0	\$0
Sub-Total	\$1,500,000	\$370,000	\$0	\$0	\$0
Existing Need	\$0	\$0	\$0	\$0	\$0
Growth Cost	\$1,500,000	\$370,000	\$0	\$0	\$0
New Fire Station-2	\$0	\$1,500,000	\$0	\$0	\$0
Pumper Truck	\$0	\$0	\$250,000	\$0	\$0
Rescue Vehicle	\$0	\$0	\$100,000	\$0	\$0
Other Equipment	\$0	\$0	\$20,000	\$0	\$0
Sub-Total	\$0	\$1,500,000	\$370,000	\$0	\$0
Existing Need	\$0	\$0	\$0	\$0	\$0
Growth Cost	\$0	\$1,500,000	\$370,000	\$0	\$0
New Fire Station-3	\$0	\$0	\$1,500,000	\$0	\$0
Pumper Truck	\$0	\$0	\$0	\$250,000	\$0
Rescue Vehicle	\$0	\$0	\$0	\$100,000	\$0
Other Equipment	\$0	\$0	\$0	\$20,000	\$0
Sub-Total	\$0	\$0	\$1,500,000	\$370,000	\$0
Existing Need	\$0	\$0	\$0	\$0	\$0
Growth Cost	\$0	\$0	\$1,500,000	\$370,000	\$0
New Ladder Truck	\$0	\$0	\$0	\$0	\$750,000
Existing Need	\$0	\$0	\$0	\$0	\$0
Growth Cost	\$0	\$0	\$0	\$0	\$750,000
RENOVATIONS & REPLACEMENTS					
Ladder Truck	\$0	\$0	\$750,000	\$0	\$0
Fire Engines	\$700,000	\$350,000	\$350,000	\$350,000	\$350,000
Renovate Stn 1	\$320,000	\$75,000	\$1,175,000	\$0	\$0
Renovate Stn 2	\$50,000	\$620,000	\$0	\$0	\$0
Renovate Stn 6	\$0	\$0	\$75,000	\$845,000	\$0
Renovate Stn 7	\$0	\$0	\$0	\$570,000	\$0
TOTAL	\$1,070,000	\$1,045,000	\$2,350,000	\$1,765,000	\$350,000
SPLOST FUNDED	\$1,070,000	\$1,045,000	\$2,350,000	\$1,765,000	\$350,000
Existing Need	\$1,070,000	\$1,045,000	\$2,350,000	\$1,765,000	\$350,000
Growth Cost	\$0	\$0	\$0	\$0	\$0
TOTAL FIRE & RESCUE	\$2,570,000	\$2,915,000	\$4,220,000	\$2,135,000	\$1,100,000
Existing Need	\$1,070,000	\$1,045,000	\$2,350,000	\$1,765,000	\$350,000
Growth Cost	\$1,500,000	\$1,870,000	\$1,870,000	\$370,000	\$750,000
E911 SYSTEM					
Building	\$791,000	\$1,308,000	\$651,000	\$0	\$0
Equipment	\$500,000	\$6,000,000	\$5,500,000	\$0	\$0
Total 911	\$1,291,000	\$7,308,000	\$6,151,000	\$0	\$0
Existing Need	\$817,358	\$4,626,843	\$3,894,323	\$0	\$0
Growth Cost	\$473,642	\$2,681,157	\$2,256,677	\$0	\$0
SPLOST Funded	\$817,358	\$4,626,843	\$3,894,323	\$0	\$0
TOTAL PUBLIC SAFETY	\$5,951,000	\$12,667,000	\$13,468,000	\$3,354,000	\$1,100,000
Existing Need	\$2,388,089	\$6,433,801	\$7,006,281	\$2,144,308	\$350,000
Growth Cost	\$3,562,911	\$6,233,199	\$6,461,719	\$1,209,692	\$750,000

**Table 11.11** sets out the public safety improvement program with respect to the cost assignments. The total public safety improvement program amounts to \$36,540,000, 51% of which serves the existing community. The cost of serving growth amounts to \$18,217,522.

**TABLE 11.11: PUBLIC SAFETY COST ASSIGNMENT**

	Sheriff	Fire & Rescue	E 911	Total
IMPROVEMENTS	\$8,850,000	\$12,940,000	\$14,750,000	\$36,540,000
Serving Existing Community	\$2,403,955	\$6,580,000	\$9,338,524	\$18,322,478
SPLOST Funded	\$2,403,955	\$6,580,000	\$9,338,524	\$18,322,478
Other Funded	\$0	\$0	\$0	\$0
Serving Growth	\$6,446,045	\$6,360,000	\$5,411,476	\$18,217,522
SPLOST Funded	\$0	\$0	\$0	\$0
COST ASSIGNED TO:				
Residential	\$3,867,627	\$4,980,317	\$4,237,558	\$13,085,503
Percentage	60%	78%	78%	
New Residential Units	27,488	20,851	27,488	
Non-Residential	\$2,578,418	\$1,379,683	\$1,173,918	\$5,132,019
Percentage	40%	22%	22%	
New Floor Area	17,364,958	12,039,028	17,364,958	
Cost Per:				
New Residential Unit	\$140.70	\$238.85	\$154.16	\$533.71
SPLOST Credit	\$0.00	\$0.00	\$104.22	\$104.22
Net Residential per Unit	\$140.70	\$238.85	\$49.94	\$429.49
New Non-Residential per Foot	\$0.148	\$0.115	\$0.068	\$0.331
SPLOST Credit	\$0.000	\$0.000	\$0.081	\$0.081
Net Non-Residential per Foot	\$0.148	\$0.115	-\$0.013	\$0.250
REVENUES:				
TOTAL COST	\$8,850,000	\$12,940,000	\$14,750,000	\$36,540,000
SPLOST	\$2,403,955	\$6,580,000	\$9,338,524	\$18,322,478
Impact Fees	\$6,446,045	\$6,360,000	\$1,140,942	\$13,946,988
County Obligation	\$0	\$0	\$4,270,534	\$4,270,534
TOTAL REVENUES	\$8,850,000	\$12,940,000	\$14,750,000	\$36,540,000

Forsyth County plans to expend Special Purpose Local Option Sales Tax (SPLOST) funds on public safety capital improvements. However, a question is whether a credit must be given for SPLOST funds used for public safety capital improvements, as “system improvements” under the Georgia Impact Fee Act. The Georgia Development Impact Fee Act, O.C.G.A. § 36-71-4 (r) requires that:

*Development impact fees shall be calculated on a basis which is net of credits for the present value of revenues that will be generated by new growth and development based on historical funding patterns and that are anticipated to be available to pay for system improvements, including taxes, assessments, user fees, and intergovernmental transfers.*

O.C.G.A. § 36-71-2 (19) defines “system improvements” as “capital improvements that are public facilities and are designed to provide service to the community at large.” The proposed SPLOST funded public safety improvements will serve the community as a whole, but they are expenditures for station renovation and equipment replacement. The definition of “Capital Improvement” under O.C.G.A. § 36-71-2(1) confines capital improvements for purposes of development impact fees to expenditures that increase service capacity. Renovations and replacements do not increase service capacity. Thus, there would seem to be no requirement for a SPLOST credit for the public safety improvements that are renovations and replacements because of the lack of an increase in service capacity. However, there would appear to be a requirement that there be a credit for those SPLOST funded capital improvements that expand the service capacity of the E-911 system. This reduction for the SPLOST credit is applied in **Table 11.12**.

**TABLE 11.12: PUBLIC SAFETY GROWTH COSTS**

<b>Public Safety Cost Per:</b>	
Residential Unit	\$533.71
SPLOST Credit	\$104.22
Net Cost	\$429.49
Average Size of a Dwelling Unit	2,611.4
Foot of Residential Floor Area	\$0.164
Foot of Non-Residential Floor Area	\$0.331
SPLOST Credit	\$0.081
Net Cost	\$0.250

## **PUBLIC SAFETY – WITH NEW DETENTION FACILITY**

This alternative presents a public safety impact fee that includes a new detention facility. This alternative is presented separately because of the large deficiency cost that will have to be borne by the county if impact fees are to be collected to pay a portion of the cost for a new facility. The following represents a description of the distinctions and special concerns reflected by including the new detention facility into the calculations and discussion of the analysis.

### **Level Of Service - Sheriff**

**Table 11.13** sets out the existing and future levels of service for Forsyth County Sheriff’s capital facilities. The detention facility is included in the level of service set forth below.

**TABLE 11.13 SHERRIFF'S LEVEL OF SERVICE WITH DETENTION FACILITY**

	2003	FUTURE
Detention Facility;		
New Facility (Sq. Ft.)		102,236
Existing Deficiency		70,129
Growth Serving		32,107
Existing Building Area;		
Office	1,452	0
Admin Services	1,400	0
Support	1,300	0
Records	2,883	0
CID	3,452	0
Evidence	2,112	0
UPD	2,139	2,139
Courthouse	524	524
New Facility		32,315
<b>TOTAL</b>	<b>15,262</b>	<b>34,978</b>
Planning Horizon		2015
Target Population		185,019
Floor Area per Capita*		0.189
<b>NEEDED FLOOR AREA</b>		<b>34,978</b>
Serving Existing Community		22,145
Existing Deficiency		19,482
Serving Growth		12,833
<b>DETENTION FACILITY</b>		<b>\$17,796,410</b>
Existing Deficiency		\$12,207,455
Growth Serving		\$5,588,955
Sheriff's Headquarters;		\$4,316,000
Cost of Existing Deficiency		\$2,403,955
Cost of Growth		\$1,912,045
South Precinct		\$2,267,000
North Precinct		\$2,267,000
Total Improvements		\$26,646,410
<b>Total Growth</b>		<b>\$12,035,001</b>
Assigned to;		
Residential 60%		\$7,221,000
New Dwelling Units		27,488
Per Dwelling Unit		\$262.69
Non-Residential 40%		\$4,814,000
New Floor Area		17,364,958
Per Foot		\$0.277

\* Floor Area per Capita is the LOS

There is an existing need for a larger detention facility. The proposed new detention facility will be 102,236 square feet. The new facility is designed to house 363 persons, whereas, the existing facility currently houses 249 persons, indicating that 68% of the new facility (70,129 square feet) is to serve the existing community and 32,107 square feet will serve growth.

Much of the existing Sheriff's headquarters and office facilities will be replaced with a

## CAPITAL IMPROVEMENTS

consolidated new facility. This new facility will service both the existing community and new development. When completed, the level of service for Forsyth County will be 0.189 square feet of building floor area per capita. This Level of Service (“LOS”) constitutes an increase above the existing level of service of 0.130 square feet. Of the total new facilities, 19,482 square feet (56%) is an existing deficiency, the cost of which should be borne by the existing community. The remainder of the Sheriff’s Headquarters will service the needs of growth to 2015.

The total cost of new Sheriff’s facilities amounts \$26,646,410, \$12,035,001 (45%) of which is the cost of serving growth. Total growth cost is divided between new residential development and new non-residential development. The division is 60% residential and 40% non-residential. This division is confirmed as reasonable by the Forsyth County Sheriff’s Department based upon Forsyth County experience. The result is a residential assigned cost of \$7,221,000. This amounts to \$262.69 per additional residential dwelling unit. The non-residential cost of \$4,814,000 equates to \$0.277 per gross square foot of floor area.

### **Level Of Service - Fire & Rescue**

No change.

### **Public Safety Capital Improvement Program With Detention Facility**

**Table 11.14** contains the short-term capital improvement program for Public Safety with the detention facility.

**TABLE 11.14: PUBLIC SAFETY CAPITAL IMPROVEMENT PROGRAM**

	2004	2005	2006	2007	2008
<b>SHERIFF:</b>					
Detention Facility					\$17,796,410
Existing Need					\$12,207,455
Growth Cost					\$5,588,955
Sheriff's Headquarters	\$899,000	\$1,368,000	\$1,368,000	\$681,000	\$0
Existing Need	\$500,731	\$761,958	\$761,958	\$379,308	\$0
Growth Cost	\$398,269	\$606,042	\$606,042	\$301,692	\$0
New Precinct – South	\$1,191,000	\$1,076,000	\$0	\$0	\$0
Existing Need	\$0	\$0	\$0	\$0	\$0
Growth Cost	\$1,191,000	\$1,076,000	\$0	\$0	\$0
New Precinct - North	\$0	\$0	\$1,729,000	\$538,000	\$0
Existing Need	\$0	\$0	\$0	\$0	\$0
Growth Cost	\$0	\$0	\$1,729,000	\$538,000	\$0
TOTAL Sheriff's	\$2,090,000	\$2,444,000	\$3,097,000	\$1,219,000	\$17,796,410
SPLOST Funded	\$0	\$0	\$0	\$0	\$2,661,476
Existing Need	\$500,731	\$761,958	\$761,958	\$379,308	\$9,545,979
Growth Cost	\$1,589,269	\$1,682,042	\$2,335,042	\$839,692	\$5,588,955
<b>FIRE &amp; RESCUE:</b>					
New Fire Station-1	\$1,500,000	\$0	\$0	\$0	\$0
Pumper Truck	\$0	\$250,000	\$0	\$0	\$0
Rescue Vehicle	\$0	\$100,000	\$0	\$0	\$0
Other Equipment	\$0	\$20,000	\$0	\$0	\$0
Sub-Total	\$1,500,000	\$370,000	\$0	\$0	\$0
Existing Need	\$0	\$0	\$0	\$0	\$0
Growth Cost	\$1,500,000	\$370,000	\$0	\$0	\$0
New Fire Station-2	\$0	\$1,500,000	\$0	\$0	\$0
Pumper Truck	\$0	\$0	\$250,000	\$0	\$0
Rescue Vehicle	\$0	\$0	\$100,000	\$0	\$0
Other Equipment	\$0	\$0	\$20,000	\$0	\$0
Sub-Total	\$0	\$1,500,000	\$370,000	\$0	\$0
Existing Need	\$0	\$0	\$0	\$0	\$0
Growth Cost	\$0	\$1,500,000	\$370,000	\$0	\$0
New Fire Station-3	\$0	\$0	\$1,500,000	\$0	\$0
Pumper Truck	\$0	\$0	\$0	\$250,000	\$0
Rescue Vehicle	\$0	\$0	\$0	\$100,000	\$0
Other Equipment	\$0	\$0	\$0	\$20,000	\$0
Sub-Total	\$0	\$0	\$1,500,000	\$370,000	\$0
Existing Need	\$0	\$0	\$0	\$0	\$0
Growth Cost	\$0	\$0	\$1,500,000	\$370,000	\$0
New Ladder Truck	\$0	\$0	\$0	\$0	\$750,000
Existing Need	\$0	\$0	\$0	\$0	\$0
Growth Cost	\$0	\$0	\$0	\$0	\$750,000
<b>RENOVATIONS &amp; REPLACEMENTS</b>					
Ladder Truck	\$0	\$0	\$750,000	\$0	\$0
Fire Engines	\$700,000	\$350,000	\$350,000	\$350,000	\$350,000
Renovate Stn 1	\$320,000	\$75,000	\$1,175,000	\$0	\$0
Renovate Stn 2	\$50,000	\$620,000	\$0	\$0	\$0
Renovate Stn 6	\$0	\$0	\$75,000	\$845,000	\$0
Renovate Stn 7	\$0	\$0	\$0	\$570,000	\$0
TOTAL	\$1,070,000	\$1,045,000	\$2,350,000	\$1,765,000	\$350,000
SPLOST FUNDED	\$1,070,000	\$1,045,000	\$2,350,000	\$1,765,000	\$350,000
Existing Need	\$1,070,000	\$1,045,000	\$2,350,000	\$1,765,000	\$350,000
Growth Cost	\$0	\$0	\$0	\$0	\$0
TOTAL FIRE & RESCUE	\$2,570,000	\$2,915,000	\$4,220,000	\$2,135,000	\$1,100,000
Existing Need	\$1,070,000	\$1,045,000	\$2,350,000	\$1,765,000	\$350,000
Growth Cost	\$1,500,000	\$1,870,000	\$1,870,000	\$370,000	\$750,000

**TABLE 11.14: PUBLIC SAFETY CAPITAL IMPROVEMENT PROGRAM CON'T**

E911 System					
Building	\$791,000	\$1,308,000	\$651,000	\$0	\$0
Equipment	\$500,000	\$6,000,000	\$5,500,000	\$0	\$0
Total 911	\$1,291,000	\$7,308,000	\$6,151,000	\$0	\$0
Existing Need	\$817,358	\$4,626,843	\$3,894,323	\$0	\$0
Growth Cost	\$473,642	\$2,681,157	\$2,256,677	\$0	\$0
SPLOST Funded	\$817,358	\$4,626,843	\$3,894,323	\$0	\$0
TOTAL PUBLIC SAFETY	\$5,951,000	\$12,667,000	\$13,468,000	\$3,354,000	\$18,896,410
Existing Need	\$2,388,089	\$6,433,801	\$7,006,281	\$2,144,308	\$9,895,979
Growth Cost	\$3,562,911	\$6,233,199	\$6,461,719	\$1,209,692	\$6,338,955

NOTE: The cost of the detention facility was assigned to 2008, but the timing of any such facility is not known at this time.

**Table 11.15** sets out the public safety capital improvement program with respect to the cost assignments. The total public safety improvement program amounts to \$54,336,410, 51% of which serves the existing community. The cost of serving growth amounts to \$23,806,477. The cost falling to the county would amount to \$16,220,467.

**TABLE 11.15: PUBLIC SAFETY COST ASSIGNMENT WITH DETENTION FACILITY**

	Sheriff	Fire & Rescue	E 911	Total
IMPROVEMENTS	\$26,646,410	\$12,940,000	\$14,750,000	\$54,336,410
Serving Existing Community	\$11,949,933	\$6,580,000	\$9,338,524	\$27,868,457
SPLOST Funded	\$2,661,476	\$6,580,000	\$9,338,524	\$18,580,000
Other Funded	\$0	\$0	\$0	\$0
Serving Growth	\$12,035,000	\$6,360,000	\$5,411,476	\$23,806,477
SPLOST Funded	\$0	\$0	\$0	\$0
COST ASSIGNED TO:				
Residential	\$7,221,000	\$4,980,317	\$4,237,558	\$16,438,876
Percentage	60%	78%	78%	
New Residential Units	27,488	20,851	27,488	
Non-Residential	\$4,814,000	\$1,379,683	\$1,173,918	\$7,367,601
Percentage	40%	22%	22%	
New Floor Area	17,364,958	12,039,028	17,364,958	
Cost Per:				
New Residential Unit	\$262.69	\$238.85	\$154.16	\$655.70
SPLOST Credit	\$0.00	\$0.00	\$104.22	\$104.22
Net Residential per Unit	\$262.69	\$238.85	\$49.94	\$551.48
New Non-Residential per Foot	\$0.277	\$0.115	\$0.068	\$0.459
SPLOST Credit	\$0.000	\$0.000	\$0.081	\$0.081
Net Non-Residential per Foot	\$0.277	\$0.115	-\$0.013	\$0.378
REVENUES:				
TOTAL COST	\$26,646,410	\$12,940,000	\$14,750,000	\$54,336,410
SPLOST	\$2,661,476	\$6,580,000	\$9,338,524	\$18,580,000
Impact Fees	\$12,035,000	\$6,360,000	\$1,140,942	\$19,535,943
County Obligation	\$11,949,933	\$0	\$4,270,534	\$16,220,467
TOTAL REVENUES	\$26,646,410	\$12,940,000	\$14,750,000	\$54,336,410

The reduction for the SPLOST credit incorporating the new detention facility is shown in **Table 11.16**.

**TABLE 11.16: PUBLIC SAFETY GROWTH COSTS INCLUDING DETENTION FACILITY**

Public Safety Cost Per:	
Residential Unit	\$655.70
SPLOST Credit	\$104.22
Net Cost	\$551.48
Average Size of a Dwelling Unit	2,611.4
Foot of Residential Floor Area	\$0.211
Foot of Non-Residential Floor Area	\$0.459
SPLOST Credit	\$0.081
Net Cost	\$0.378

## PARKS AND RECREATION

### Level of Service

**Table 11.17** sets out the existing level of service for Forsyth County active park and recreation facilities. The existing level of service is 2.638 acres of active parks per 1,000 population. The need for park improvements to service new development is identified by applying the 2.638 acre standard to projected new development. The Forsyth County cost for a community type park is \$150,000 per acre, including the cost of land acquisition and development. This per park cost would result in an estimated value of \$45 million for all existing Forsyth County parks. This is \$384.16 per capita and \$1,021.21 per dwelling unit.

**TABLE 11.17: PARK AND RECREATION LEVEL OF SERVICE**

EXISTING ACTIVE PARKS	Number	Acres
Neighborhood	1	10
Community	6	299
Total	7	309
Existing Population		117,139
Acres per 1,000		2.638
<b>Community Park Cost:</b>		
Per Acre		\$150,502
Per Park (50 acres)		\$7,500,000
Replacement Value of Community Parks		\$45,000,000
Park Value per Capita		\$384.16
Park Value per Dwelling Unit		\$1,021.21
SPLOST Credit per Dwelling Unit		\$152.19
<b>NET COST</b>		<b>\$869.02</b>

### Park & Recreation Capital Improvement Program

**Table 11.18** contains the short-term capital improvement program for Parks & Recreation. These proposed improvements will meet the needs of the Forsyth County population until 2010 at the existing level of service.

*CAPITAL IMPROVEMENTS*

**TABLE 11.18: PARKS AND RECREATION IMPROVEMENT PROGRAM**

<b>IMPROVEMENT</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>
<b>Fowler Park</b>	\$0	\$0	\$0	\$0	\$8,000,000	\$0
SPLOST Funding	\$0	\$0	\$0	\$0	\$8,000,000	\$0
Existing Need	\$0	\$0	\$0	\$0	\$8,000,000	\$0
Growth Cost	\$0	\$0	\$0	\$0	\$0	\$0
<b>South Recreation Center</b>	\$0	\$0	\$0	\$0	\$6,500,000	\$0
SPLOST Funding	\$0	\$0	\$0	\$0	\$0	\$0
Existing Need	\$0	\$0	\$0	\$0	\$2,600,000	\$0
Growth Cost	\$0	\$0	\$0	\$0	\$3,900,000	\$0
<b>Sawnee Mountain Preserve</b>	\$0	\$0	\$0	\$0	\$0	\$4,000,000
SPLOST Funding	\$0	\$0	\$0	\$0	\$0	\$0
Existing Need	\$0	\$0	\$0	\$0	\$0	\$0
Growth Cost	\$0	\$0	\$0	\$0	\$0	\$4,000,000
<b>Indoor Pool 2010</b>	\$0	\$0	\$0	\$0	\$0	\$0
SPLOST Funding	\$0	\$0	\$0	\$0	\$0	\$0
Existing Need	\$0	\$0	\$0	\$0	\$0	\$0
Growth Cost	\$0	\$0	\$0	\$0	\$0	\$0
<b>Soccer Complex Improvements</b>	\$250,000	\$0	\$0	\$0	\$0	\$0
SPLOST Funding	\$250,000	\$0	\$0	\$0	\$0	\$0
Existing Need	\$250,000	\$0	\$0	\$0	\$0	\$0
Growth Cost	\$0	\$0	\$0	\$0	\$0	\$0
<b>Soccer Complex II</b>	\$0	\$0	\$1,200,000	\$5,800,000	\$0	\$0
SPLOST Funding	\$0	\$0	\$0	\$0	\$0	\$0
Existing Need	\$0	\$0	\$0	\$0	\$0	\$0
Growth Cost	\$0	\$0	\$1,200,000	\$5,800,000	\$0	\$0
<b>Coal Mountain Park</b>	\$50,000	\$400,000	\$0	\$0	\$0	\$0
SPLOST Funding	\$50,000	\$400,000	\$0	\$0	\$0	\$0
Existing Need	\$50,000	\$400,000	\$0	\$0	\$0	\$0
Growth Cost	\$0	\$0	\$0	\$0	\$0	\$0
<b>Bennett Park</b>	\$0	\$100,000	\$0	\$0	\$0	\$0
SPLOST Funding	\$0	\$100,000	\$0	\$0	\$0	\$0
Existing Need	\$0	\$100,000	\$0	\$0	\$0	\$0
Growth Cost	\$0	\$0	\$0	\$0	\$0	\$0
<b>Community Park (new 20% of total)</b>	\$0	\$0	\$0	\$0	\$0	\$1,600,000
SPLOST Funding	\$0	\$0	\$0	\$0	\$0	\$0
Existing Need	\$0	\$0	\$0	\$0	\$0	\$0
Growth Cost	\$0	\$0	\$0	\$0	\$0	\$1,600,000
<b>Midway Park</b>	\$50,000	\$400,000	\$0	\$0	\$0	\$0
SPLOST Funding	\$50,000	\$400,000	\$0	\$0	\$0	\$0
Existing Need	\$50,000	\$400,000	\$0	\$0	\$0	\$0
Growth Cost	\$0	\$0	\$0	\$0	\$0	\$0

<b>Sharon Springs Park</b>	\$0	\$100,000	\$0	\$0	\$0	\$0
SPLOST Funding	\$0	\$100,000	\$0	\$0	\$0	\$0
Existing Need	\$0	\$100,000	\$0	\$0	\$0	\$0
Growth Cost	\$0	\$0	\$0	\$0	\$0	\$0
<b>Cumming Aquatic Facility</b>						\$6,000,000
Existing Need	\$0	\$0	\$0	\$0	\$0	\$6,000,000
SPLOST Funding	\$200,000	\$0	\$0	\$0	\$0	\$0
Existing Need	\$200,000	\$0	\$0	\$0	\$0	\$0
Growth Cost	\$0	\$0	\$0	\$0	\$0	\$0
Skate Park	\$0	\$0	\$1,000,000	\$0	\$0	\$0
SPLOST Funding	\$0	\$0	\$0	\$0	\$0	\$0
Existing Need	\$0	\$0	\$400,000	\$0	\$0	\$0
Growth Cost	\$0	\$0	\$600,000	\$0	\$0	\$0
OTHER SPLOST FUNDED						
Growth Cost	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL IMPROVEMENTS</b>	\$550,000	\$1,100,000	\$2,200,000	\$5,800,000	\$14,500,000	\$11,600,000
SPLOST Funding	\$550,000	\$1,100,000	\$0	\$0	\$8,000,000	\$6,000,000
Existing Need	\$550,000	\$1,100,000	\$400,000	\$0	\$10,600,000	\$6,000,000
Growth Cost	\$0	\$0	\$1,800,000	\$5,800,000	\$3,900,000	\$5,600,000

Sources:

(1) Forsyth County Parks and Recreation Department, March 20, 2003.

(2) Forsyth County SPLOST Notice, March 2003.

Notes:

(1) The Greenspace acquisition programs are not included herein because the parks and creation impact fee program is confined to active recreation.

(2) The City of Cumming proposed SPLOST funded improvements are shown for information purposes only and are not a planned improvement of the County nor subject to control by the County.

**Table 11.19** sets out Parks and Recreation improvement program with respect to cost sources of revenue. This is a \$35.8 million improvement program, \$15.7 Million of which will be paid by SPLOST. Because SPLOST funds are available for parks and recreation capital improvements, as defined in the Georgia Development Impact Fee Act, O.C.G.A. § 36-71-2(1), any Forsyth County parks & recreation impact fee must be net of a SPLOST credit. The data in Table 16 set out a SPLOST credit of \$152.19 per dwelling unit.

## PUBLIC LIBRARIES

### Level of Service

The level of service for the Public Library System of Forsyth County is shown in **Table 11.20**. The existing level of service includes 2 libraries, which serves a population of 117,139. This equates to 0.388 square feet of library floor space per capita. This level of service is below

**TABLE 11.19: PARK AND RECREATION CAPITAL REVENUES**

<b>TOTAL IMPROVEMENT COST</b>	\$35,750,000
<b>SOURCES OF REVENUE:</b>	
SPLOST	\$15,650,000
Available Funds	\$600,000
Existing Need	\$18,650,000
Existing Deficiency	\$3,000,000
Growth Cost	\$17,100,000
New Residential Units	16,771
Cost per Residential Unit	\$1,021.21
SPLOST Credit	\$152.19
Net Cost	\$869.02
<b>TOTAL COST</b>	\$35,750,000
SPLOST	\$15,650,000
Other Funds	\$600,000
Impact Fees	\$14,574,760
Deficiency	\$4,925,240
<b>TOTAL REVENUES</b>	\$35,750,000

the desired level of 0.5 feet per capita. The need for library facilities to accommodate new development is identified by applying the existing provision of 0.388 square feet to projected population. Based upon plans for the SPLOST funded Hampton library, the cost per square foot of finished, that is turnkey, library floor area is \$191.06. This cost is calculated by including only items with a 10-year or greater use life, so as to be consistent with the requirements of the Georgia Development Impact Fee Act, O.C.G.A. § 36-71-2(1). The cost per dwelling unit amounts to \$197.28. A SPLOST credit of \$46.31 reduces the net cost to \$150.97.

The existing library level of service is 0.388 square feet of library floor area per capita. There are 45,500 FT<sup>2</sup> of existing libraries and a countywide population of 117,139, which results in the ratio of 0.388 feet per capita. During the 2003 – 2009 planning horizon, countywide growth is projected to be 36,890; 719 within the City of Cumming and 36,171 in the unincorporated area. At the existing level of service, 14,313 FT<sup>2</sup> of library space would be needed; 279 in Cumming and 14,034 in the unincorporated area. The cost of constructing library space is \$191.06. It follows that library cost per capita is \$74.21 and cost per dwelling unit is \$197.28. At this cost, the 2009 library improvement cost attributable to new residential development would be \$2,734,703; \$53,300 for Cumming and \$2,681,403 for the unincorporated area.

The proposed library expansion, the Hampton Brach Library, is located in the unincorporated area and will be 20,500 FT<sup>2</sup>. This means that there will be surplus library capacity for up to two years (2011) after the planning horizon. This is due to the fact that library design dictates the size of the facility. Additional facility improvements are planned. The total library CIP is shown on Table 18.

Forsyth County has and will continue to maintain a countywide level of service for libraries. This policy will not work to the detriment of new developments in the unincorporated area that are required to pay library impact fees. This protection is the result of two factors:

1. Library impact fees collected in the unincorporated area will be spent on library improvements in the unincorporated area and therefore of greatest benefit to unincorporated area residents due to that proximity, and
2. The library impact fees to be charged to unincorporated area new residential developments will be less than the *pro rata* share of library capital costs reasonable attributable to new developments in the unincorporated area.

**TABLE 11.20: LIBRARY LEVEL OF SERVICE**

Number of Existing Libraries	2.00
Library Floor Area	45,500
Floor Area per Capita	0.388
Library Cost per Foot (turn-key)	\$191.06
Library Cost per Capita	\$74.21
Persons per Dwelling Unit *	2.66
Planning Horizon	2011
Cost per Dwelling Unit	\$197.28
SPLOST Credit	\$46.31
Net Cost	\$150.97

Source: Public Library of Forsyth County, March 20, 2003.

### **Public Library Capital Improvement Program**

**Table 11.21** sets out the proposed library capital improvement program. This program will increase the level of service, but it will do so through SPLOST funding rather than development impact fees. The proposal is to fund the construction and equipping of the Hampton library with SPLOST funds and to direct impact fees toward the headquarters addition located at the Cumming library.

**Table 11.22** sets out the library improvement program with respect to cost assignments. The total improvement program amounts to \$6,723,103, \$4,762,000 from the SPLOST and the remainder from development impact fees. The impact fee will generate \$215,009 for future library improvements.

**TABLE 11.21: PUBLIC LIBRARY IMPROVEMENT PROGRAM**

IMPROVEMENT	2003	2004	2005	2006	2007	2008
Hampton Branch Library	\$0	\$0	\$598,696	\$4,163,304	\$0	\$0
SPLOST Funding	\$0	\$0	\$598,696	\$3,593,428	\$0	\$0
Net Cost	\$0	\$0	\$0	\$569,876	\$0	\$0
Existing Need	\$0	\$0	\$0	\$0	\$0	\$0
Growth Cost	\$0	\$0	\$0	\$569,876	\$0	\$0
Cumming Library Improvements	\$0	\$0	\$6,969	\$431,318	\$0	\$0
SPLOST Funding	\$0	\$0	\$6,969	\$431,318	\$0	\$0
Net Cost	\$0	\$0	\$0	\$0	\$0	\$0
Existing Need	\$0	\$0	\$0	\$0	\$0	\$0
Growth Cost	\$0	\$0	\$0	\$0	\$0	\$0
Headquarters Facility	\$0	\$0	\$102,312	\$1,421,408	\$0	\$0
SPLOST Funding	\$0	\$0	\$0	\$131,589	\$0	\$0
Net Cost	\$0	\$0	\$102,312	\$1,289,915	\$0	\$0
Existing Need	\$0	\$0	\$0	\$0	\$0	\$0
Growth Cost	\$0	\$0	\$102,312	\$1,289,915	\$0	\$0
<b>TOTAL IMPROVEMENTS</b>	\$0	\$0	\$707,977	\$6,016,126	\$0	\$0
SPLOST FUNDED	\$0	\$0	\$605,665	\$4,156,335	\$0	\$0
NET COST	\$0	\$0	\$102,312	\$1,859,791	\$0	\$0
Existing Need	\$0	\$0	\$0	\$0	\$0	\$0
Growth Cost	\$0	\$0	\$102,312	\$1,859,791	\$0	\$0

Source: Forsyth County Public Library, March 20, 2003.

**TABLE 11.22: LIBRARY CAPITAL REVENUES**

<b>TOTAL LIBRARY CAPITAL COSTS</b>	\$6,724,103
<b>SPLOST FUNDED</b>	\$4,762,000
Existing Need	\$0
Growth Cost	\$1,962,103
<b>COST ASSIGNED TO:</b>	
Residential	\$1,962,103
Non-Residential	\$0
New Dwelling Units	14,421
Net Cost per	\$150.97
<b>TOTAL COST</b>	\$6,724,103
SPLOST	\$4,762,000
Impact Fees	\$2,177,112
Deficiency	\$0
<b>TOTAL REVENUES</b>	\$6,939,112
AMOUNT FOR FUTURE	\$215,009

## SERVICE AREAS

Forsyth County is proceeding with a program of development impact fees that will be collected and expended solely within the unincorporated area of Forsyth County. The hope is that the City of Cumming will elect to join with Forsyth County in a countywide program at some time in the future. At this time the county is proposing to calculate impact fees at a countywide level of service and collect and expend those fees within the unincorporated

area. This policy will assure that the level of service used to calculate the impact fees will be delivered to those being required to pay the impact fees. There is no way that the county can deny persons or properties within the City of Cumming access to the E-911, response to calls by the Sheriff's Department or response to fire or medical emergencies. Additionally, it is impractical to attempt to deny individuals from locations other than the unincorporated area access to county parks or libraries. Thus the county must look to a countywide level of service for these facilities. The interests of those persons in the unincorporated area paying impact fees will be protected by (a) expending those funds in the unincorporated area where they are of maximum benefit to unincorporated area residents and (b) use non-impact fee funds, largely SPLOST receipts, to fund other improvements to maintain the countywide level of service. Forsyth County is aware of the recent Cherokee County ruling (*Cherokee County v. Greater Atlanta Homebuilders Ass'n, Inc.*, 255 Ga.App. 764, 566 S.E.2d 470, 2 FCDR 1825, Ga.App., Jun 13, 2002) that recognizes Forsyth County's authority to expend impact fees collected only in the unincorporated area anywhere within the county. However, Forsyth County has elected to confine the expenditure of impact fees to the unincorporated area in order to provide maximum benefit to those actually paying the development impact fees. Forsyth County further restricts the expenditure of impact fees to defined service areas, which are discussed below.

## **Public Safety**

### *Sheriff*

Due to the nature of the Sheriff's functions and their county-wide delivery of service, it was determined after consultation with the Sheriff's Department that a single service district would be adequate in providing benefit to public safety impact fee payers. This is the current practice of the department in that all facilities serve the entire county and are therefore countywide in nature by their delivery. By providing a consolidated headquarters along with a north and south precinct, the Sheriff can continue to serve the entire county with the combination of these facilities and further support their delivery of service countywide. Additionally, these facilities support the response time the current population enjoys and can be maintained with these future three separate and distinct facilities as called out for in the Capital Improvement Element but also as supported by the 2003 Sheriff's Study and by description from the Sheriff himself. This would mean that public safety impact fees collected anywhere in the county could be expended at any location within the county on Sheriff's capital facilities.

### *Fire & Rescue*

The Fire Department, like the Sheriff's Department, serves the entire county. However, fire protection services are somewhat different than that of the Sheriff's and it is important that fire stations with rescue response be strategically located throughout the county in order to afford a minimum response time to calls. The nature of this particular type of service calls for multiple service districts. As a result, two service districts are established and are hereby known as the North District Service Area and South District Service Area. The district line follows that of State Highway 20 and Buford Dam Road. All property north of State Highway 20 and Buford Dam Road will be the North District Service Area and that property to the south is the South District Service Area. Public safety impact fees could only be expended for fire and rescue capital facilities within the service area where they originated.

*Emergency Communications*

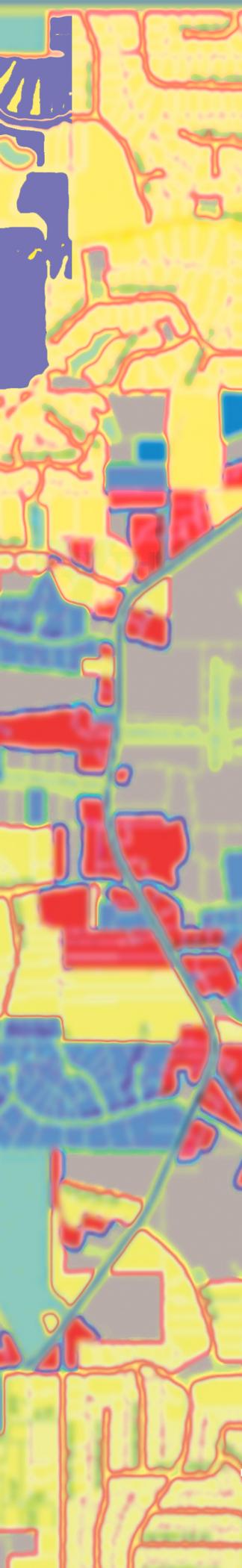
The emergency communications system, E911, serves the entire county from a central location. Therefore a single service district would be adequate in providing public safety protection. This would mean that funds collected anywhere in the county could be expended at any location within the county for E911 capital facilities.

**Parks & Recreation**

The county's active park and recreation program is located countywide with these types of parks being relatively equal in distance from one end of the county to the other. Additionally, certain activities of these parks are located in particular parks and are not repeated in each park such as evidenced by the soccer complex. Those that participate in the soccer program travel from all points of the county to the south end of the county for this activity. The same is true of the baseball and softball programs in that they are located in one particular area of the county and those that participate come from all points of the county to take advantage of this recreational activity. As a result, it was determined after consultation with the Parks and Recreation Director that it was his desire to continue the countywide delivery of leisure services and therefore it would be best to create a single service district.

**Public Libraries**

Currently, there are two libraries within the county, with one being located within the City of Cumming, which is the central branch and headquarters facility and the other being the Sharon Forks Branch located in the south end of the county. The capital improvement element calls for two new libraries, with one including a new headquarters facility. The current headquarters facility contained within the Cumming branch location is planned to be retrofitted for administration and patronage space. In view of the location of the current and future branches, it was determined in consultation with the Director of Libraries that a multiple service district be created. Patronage and access to libraries is a determining factor in usage and it was concluded, given the location of the libraries, a multiple service district would best reflect the delivery of services currently and in the future. The service areas are identical to those of fire protection in that there should be two service districts and the geographic areas are identical. The boundary line of the districts will follow State Highway 20 and Buford Dam Road. The land to the north of this boundary line will be known as the North District Service Area and to the south is called the South District Service Area. Exempted from this restriction would be the use of impact fees on central or headquarters facilities as funds collected from either the North or South Districts could be expended in the central and headquarters improvements pursuant to the established capital improvement element. However, all efforts should be extended to respect the criterion that impact fees expended on library facilities primarily for the benefit of those areas of the county subject to the requirement to pay those fees.



# **FORSYTH COUNTY COMPREHENSIVE PLAN 2004 - 2025**

## **APPENDICES**

**Appendix A: Public Participation Program**

**Appendix B: Greenspace Plan**

**Appendix C: Subarea Land Use Reports**

**Chestatee**

**Coal Mountain/400 North**

**McFarland**

**Cumming**

**South Forsyth**

**Big Creek**

**Buford/20 East**

**Lake Lanier**

**Settingdown**

**Etowah**

Amended May 21, 2009



## Appendix A

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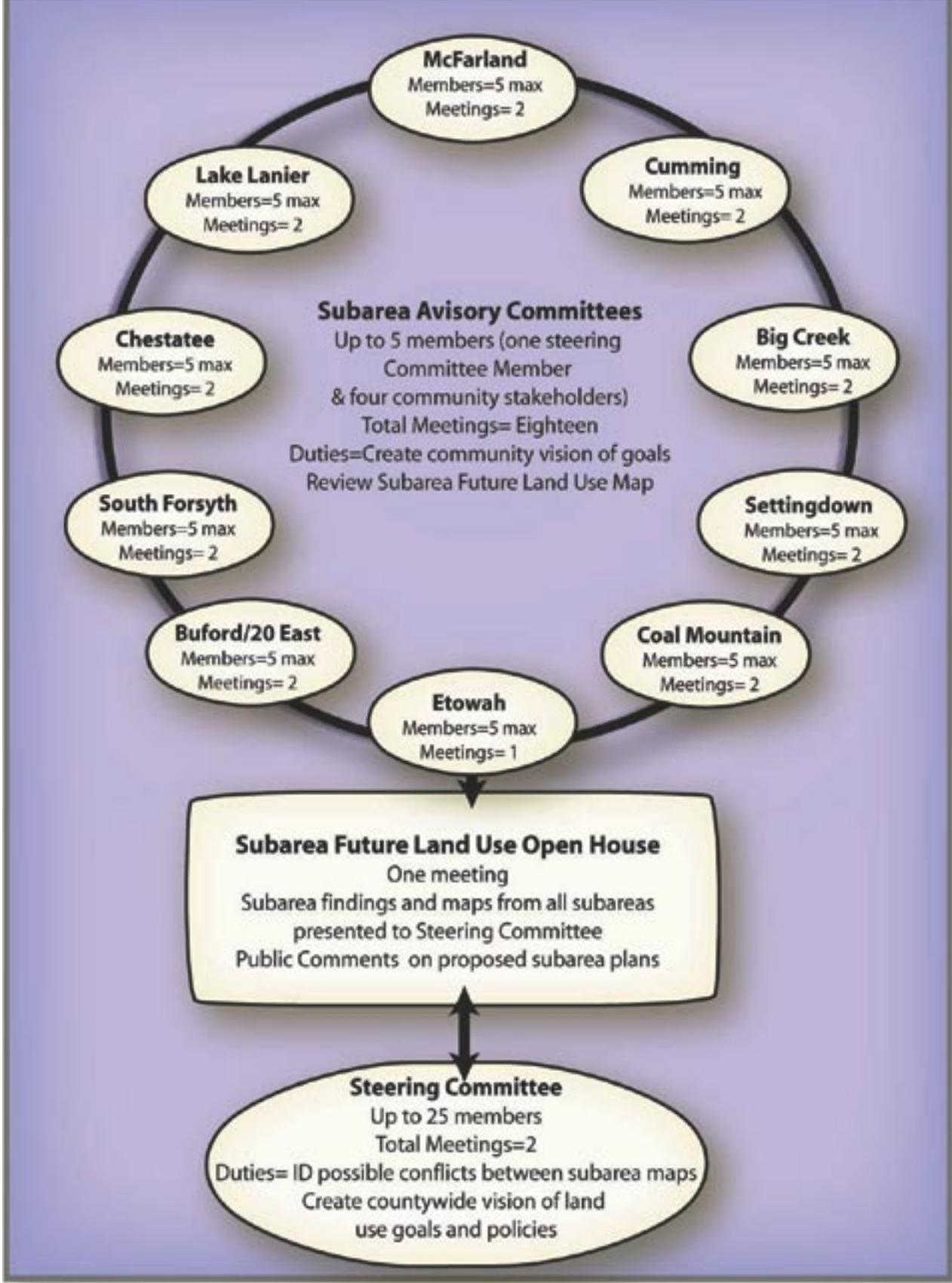
# PUBLIC PARTICIPATION PROGRAM

Forsyth County has applied a variety of methods to keep the community informed of the major update to the Comprehensive Plan. In October, 2002, the first public hearing was held to explain the process and present a timeline for the completion on the plan. Beginning in April, an executive summary was posted on the Forsyth County web site and has been updated as the plan progressed. In addition, the subarea inventory reports were posted as they became available. All public meetings were advertised in the *Forsyth County News*, County web site and the County Administration Building. Public hearings were held in October and November, 2003. The public hearings were advertised in accordance with the standard notification procedures.

The formation the community vision and goals was the result of a very extensive public involvement program. The County was divided into ten subareas, with individual committees established to develop specific land use policies and a future land use map for their subarea. Each subarea advisory committee met at least twice over a four-month period (April-July 2003), with the exception of the Etowah subarea committee. The Etowah subarea had been the focus of its own planning effort several years earlier. Only one meeting was held in the Etowah subarea during the four-month planning period to update the findings of the previous planning effort. On August 14, 2003, an open house was held to present the findings of the ten subarea committees and to take public comment.

Individual subarea plans were developed summarizing the existing demographics and land use characteristics of each subarea. At the first set of meetings for the subareas, a summary of the document was presented to the subarea committee and the general public. Maps of the existing land use, natural and cultural resources, planned transportation improvements, and a trend scenario map were displayed. The meeting participants were asked to create a list of the strengths, weaknesses and opportunities of the subarea. At the second set of meetings, a draft of the subarea land use map and vision were reviewed and the committee members addressed all public comments.

A twenty-five member Countywide Land Use Steering Committee was formed. The Board of Commissioners appointed fifteen members, and the ten subarea committees each selected one representative. The committee formally met twice following the open house in August 2003 to develop a countywide vision, land use goals and policies.



**GREENSPACE PLAN**

**THE GEORGIA GREENSPACE PROGRAM**

**FORSYTH COUNTY  
GRANT APPLICATION**

**COMMUNITY PROGRAM REPORT**

**NOVEMBER 2000**

## **EXECUTIVE SUMMARY**

### **FORSYTH COUNTY GREENSPACE VISION**

Forsyth County is the fastest growing county in the State of Georgia. The present population of approximately 97,000 is expected to grow to over 290,000 by the year 2015. As such, the Forsyth County Board of Commissioners is taking the necessary steps to provide a wide range of both active and passive recreation opportunities for residents of all ages and for visitors to the county. Active participation in the Georgia Greenspace Program is a significant step toward achieving this vision.

Two significant studies address county wide active and passive recreation needs. The Forsyth County Comprehensive Plan 1994 – 2015 includes several provisions for greenspace protection. In addition, the recently completed Comprehensive System-Wide Recreation Master Plan 2000 – 2006 determines the need for existing and future recreation acreage and facilities and advances recommendations for land acquisition, improvements to existing recreation sites, development of new recreation sites, greenways, trails and bikeways.

### **GROWTH TRENDS**

The southern portion of Forsyth County is the most rapidly growing area of the county, with areas adjacent to Lake Lanier being among the most densely populated portions of the county. The northern portion of the county is more rural in character and offers the greatest opportunity for greenspace protection.

### **EXISTING GREENSPACE**

Within the county there are presently 10,781 acres of permanent and non-permanently protected greenspace, including Federal, State, county land and lands owned by private individuals.

### **VISION FOR THE FUTURE**

It is the goal of the Forsyth County Board of to provide a wide range of recreation opportunities. Specifically, the permanent protection of greenspace is a primary objective of this overall goal and the county is committed to demonstrating continuous progress toward meeting the Georgia Greenspace Program goal of permanently protecting 20 percent of its land area.

## **INTRODUCTION**

### **DESCRIPTION OF THE FORSYTH COUNTY GREENSPACE PROGRAM**

The Forsyth County Greenspace Program has already begun. On July 20, 2000, the county formally acquired a portion of the Sawnee Mountain property, consisting of 174.1 acres and located north of the City of Cumming. This, and additional Sawnee Mountain property to be acquired is addressed in the Comprehensive System-Wide Recreation Master Plan and is to be utilized in its entirety as a passive use park. In 1999, the Forsyth County Board of Commissioners adopted an update of the Land Use Element of the Comprehensive Plan. Seven of the eleven stated goals and implementation strategies address the conservation and protection of greenspace.

It is the intention of the county to continue to identify lands that can be properly and formally protected as greenspace, and to make acquisition where feasible, or to implement other methods of permanently protecting these lands using conservation easements or similar means of accomplishing these ends.

### **GREENSPACE PROGRAM POINT OF CONTACT**

The Forsyth County Greenspace Program will be a combined effort between the Forsyth County Planning & Development Department and the Forsyth County Parks and Recreation Department. The formal point of contact will be:

Jeff Watkins, Director  
Forsyth County Planning & Development Department  
110 E. Main Street  
Suite 100  
Cumming, Georgia 30040  
Phone (770) 781-2115  
Fax (770) 781-2197  
E-Mail JFWatkins@CO.Forsyth.GA.US

## **COUNTY DESCRIPTION**

### **DISCUSSION OF COUNTY-WIDE GROWTH PATTERNS**

Forsyth County is a rapidly suburbanizing county located in Northeast Georgia. Forsyth County is presently the fastest growing county in the State of Georgia. The county is contained within the Atlanta Metropolitan Statistical Area (MSA) and consists of approximately 156,864 gross acres, of which approximately 12 percent (12,936 acres) being under water. The base acreage for calculating available greenspace is 143,928 acres (Georgia Department of Natural Resources, 2000). The City of Cumming is the only incorporated area in Forsyth County.

The 1998 census estimate places the Forsyth County population at 86,130. It is estimated that the 2000 population is 96,500. The 1998 census estimate for the City of Cumming is 5,132, or six percent of the Forsyth County population.

Forsyth County is dissected into northern and southern sections by State Route 20 and into eastern and western sections by Georgia 400. The southern section, which abuts the City of Alpharetta and North Fulton County is the most rapidly developing section of the county. The eastern section, which abuts Lake Lanier, is the most densely developed section of the county.

Forsyth County is rapidly rezoning and developing agricultural and undeveloped land. As a “bedroom community,” most of the available land is being developed as single-family residences, particularly in the northern and eastern sections of the county. The southern portion of Forsyth County is experiencing a mix of commercial, industrial and residential growth.

## **OVERVIEW OF POPULATION FORECASTS**

The Comprehensive Plan for Forsyth County, Georgia (1994 – 2015) includes a Basic Population Element. Within this element, population is forecast through the year 2015. The projections show a year 2000 population of 110,769, a year 2005 population of 160,269, a year 2010 population of 221,102 and a year 2015 population of 290,436. The U.S. Census estimates that the population of Forsyth County as of July 1999 was 96,686. Based upon the U.S. Census estimate, the Forsyth County population has increased 119 percent since 1990.

## **RECREATIONAL LAND USE**

According to the Update of the Land Use Element of the Forsyth County Comprehensive Plan, approximately 7,274 acres, or 5.29 percent of the county land area is occupied by park, recreation and conservation lands. This acreage includes both active and passive recreation facilities owned and operated by Forsyth County, the Federal government and the U. S. Army Corps of Engineers.

## **GREENSPACE GOAL**

### **LONG-RANGE VISION**

It is a desire of Forsyth County to attain the goal of permanently protecting at least 20 percent of the net base acreage land area as greenspace over the coming 20-year time frame. To accomplish this long-range goal will require the protection of 28,786 acres, or approximately 45 square miles. The Update of the Land Use Element of the Forsyth County Comprehensive Plan envisions approximately 10,750 acres of park, recreation and conservation land by the year 2020. This total includes the protected portion of the Chattahoochee River, stream buffers, the Sawnee Mountain conservation zone and existing parks, but

does not address greenspace protection that could result from conservation easements, conservation subdivisions, utility easements, greenways, bikeway development, agricultural land, steep slopes, scenic viewsheds, historic/archeological sites and other categories of land that might be protected. The Forsyth County Board of Commissioners realizes that the Comprehensive Plan presently does not reflect the protection of 28,786 acres, and that when the update is completed, the Comprehensive Plan will be reconciled to meet this goal.

## **SHORT-RANGE GOALS**

As approval of the Forsyth County Greenspace Program encompasses a two-year period, after which the Community Program will be updated, short-range attainable goals are established for greenspace protection. During the coming two years Forsyth County will endeavor to:

- Acquire additional land at Sawnee Mountain
- Acquire land for a passive park in the Windermere development
- Negotiate with Windermere to obtain conservation easements for additional permanent open space
- Partner with other large-scale residential land developments to obtain conservation easements
- Develop pedestrian trails linking recreation sites that will eventually result in a regional trail system
- Add additional passive use facilities to Poole's Mill Park
- Acquire land in the southern portion of the county for a new community park, including passive use areas
- Lease/acquire Beaver Ruin and/or Mary Alice Park from the Corps of Engineers to provide additional passive use Opportunities

## **PROPOSED METHODS OF IMPLEMENTATION**

At this time it is anticipated that the primary means of implementing the immediate (short-range) goals of the Forsyth County Greenspace Program will be by fee simple acquisition, conservation easement, conservation subdivisions, partnering with the development community and local businesses, leveraging greenspace program funding to secure additional grants for conservation and passive use facilities development and establishing a Transferable Development

Rights (TDR) program. Additional implementation tools that could be utilized to accomplish the long-range (20 year) vision are discussed in the ten-year strategy section of this report.

## **COMPREHENSIVE PLANNING AND THE GEORGIA GREENSPACE PROGRAM**

### **THE FORSYTH COUNTY COMPREHENSIVE PLAN**

The most recent edition of the Forsyth County Comprehensive Plan (1994-2015) on file with the Department of Community Affairs makes several provisions for greenspace. In 1999, the Forsyth County Board of Commissioners adopted an Update of the Land Use Element from the county's Comprehensive Plan. Among the eleven county goals and implementation strategies identified in the Land Use Element, seven apply to the conservation and protection of greenspace. Goals addressing greenspace include:

- Goal #1      Encourage public/private partnerships
- Goal #2      Develop strategies for citizen involvement
- Goal #3      Provide efficient, equitable and compatible land use in harmony with private property rights by, among other strategies, encouraging creative and flexible site design to accommodate site-specific conditions
- Goal #4      Encourage and develop patterns and practices that strengthen a sense of community
- Goal #7      Create a system of public recreation and cultural spaces, recognizing the need for passive recreation space
- Goal #8      Encourage conservation, preservation or redevelopment of buildings, neighborhoods or areas of historical, architectural or cultural significance, by, among other strategies, appointing a Natural Resource Conservation Commission
- Goal #9      Protect and preserve the beauty and integrity of natural features, i.e. trees, slopes, streams and lakes through the following strategies:
  - Purchase and reserve the Chattahoochee River and Etowah River corridors and reserve them as a protected greenbelt area
  - Educate the public and promote the use of Best

## Management Practices

- Establish regulations and ordinances to protect and encourage the preservation of trees and vegetative cover
- Designate scenic roadway corridors

The Forsyth County Comprehensive Plan includes the Georgia Department of Natural Resources' (DNR) *Environmental Planning Criteria* (Part V Criteria). Protective policies/plans have been included in the Comprehensive Plan for wetlands, significant groundwater recharge areas, water supply watersheds and the Etowah River. Moreover, the Part V Criteria have been adopted as overlay districts in the *Unified Development Code*, the county's zoning and subdivision regulations.

The Future Land Use Map designates several areas around the county as "Conservation" and "Park". These areas total 10,755 acres. Potential park/conservation districts included in this total are: Sawnee Mountain, Corps of Engineers properties adjacent to Lake Lanier, existing parks, buffer areas adjacent to the Chattahoochee River and its tributaries, the Etowah River, and streams within the Big Creek watershed.

The Forsyth County Comprehensive Plan requires its ten-year update to be completed by February 2004. It is recognized that the principal conflict between the current Comprehensive Plan and the Georgia Greenspace Program is that the number of acres identified as conservation and parks falls short of the greenspace goal. In early 2001, county staff will commence the updating process and incorporate the adopted County Greenspace Program and the Comprehensive System-Wide Recreation Master Plan as elements in the county's revised Comprehensive Plan. The update process will also result in the identification of a minimum of 28,786 acres for permanent protection as greenspace, thus reconciling the present difference between the Comprehensive Plan and Georgia Greenspace Program goals. Land presently designated as conservation and parks on the current Future Land Use map will retain this designation when the update is completed. The acquisition and preservation of greenspace will also be included in existing and relevant elements of the Comprehensive Plan, including but not limited to the Natural Resources element, the Short-Term Work Program (STWP) and Capital Improvements Element (CIE).

## **THE COMPREHENSIVE SYSTEM-WIDE RECREATION MASTER PLAN**

The Comprehensive System-Wide Recreation Master Plan (2000-2006), prepared in 2000 includes an inventory of all active and passive recreation land (249 acres active, 12 acres passive); forecasts present and future recreation acreage and facilities needs; develops goals and measurable objectives; advances recommendations for land acquisition, improvements to existing recreation sites, development of new recreation sites, greenways, trails and bikeways; and includes a financing and implementation section complete with a capital improvements program.

The Plan identifies a need for a minimum of 536 new acres of active/passive recreation land by the year 2006, exclusive of greenways, trails and bikeways. Among the goals and objectives directly applicable to greenspace conservation and protection are the following:

- Advance acquisition of land shall be a priority
- Provide adequate geographic coverage and accessibility of active/passive recreation sites for all residents of the county
- Broaden the range of recreation opportunities by provision of both active and passive recreation facilities
- Provide additional passive use facilities including bikeways, nature trails, interpretive areas and greenways
- Develop “partnering” agreements with large corporations, industries and the YMCA as a means of providing more recreation opportunities for county residents

The System-Wide Recreation Master Plan was completed prior to the Georgia Greenspace Program and therefore the projected future recreation acreage does not include formally protected greenspace. During the process of updating the Comprehensive Plan the Recreation Element will include recommendations for greenspace that will reconcile these deficits.

The Plan specifically recommends that a formal Greenway/Bikeway Plan be prepared and recommends development of greenways along the Chattahoochee River and Etowah River corridors. Three bikeways are recommended (S.R. 369, S.R. 9 and S.R. 20). These bikeways will provide physical linkages between

several recreation sites throughout the county. The total acreage to be devoted to greenways and bikeways will be determined when this Plan is developed.

## **PLAN AMENDMENTS AFFECTING GREENSPACE**

There has only been one major amendment to the Comprehensive Plan affecting Forsyth County greenspace. This amendment in 1999 incorporated the Update of the Land Use Element from the Forsyth County Comprehensive Plan as part of the Comprehensive Plan. The provisions directly affecting greenspace include the seven goals described in a previous part of this section.

## **CONSISTENCY WITH THE GEORGIA GREENSPACE PROGRAM**

Both the Forsyth County Comprehensive Plan and the Comprehensive System-Wide Recreation Master Plan are highly supportive of the Georgia Greenspace Program in numerous respects. The consensus visions of both plans address the need for greenspace and provide specifically for passive recreation opportunities, the conservation of open space and the development of greenways, trails and bikeways.

Each plan envisions the acquisition of passive use lands and provides estimates of quantities and costs of land to be acquired and each contains a detailed capital improvements program addressing passive use, among other recreation improvements.

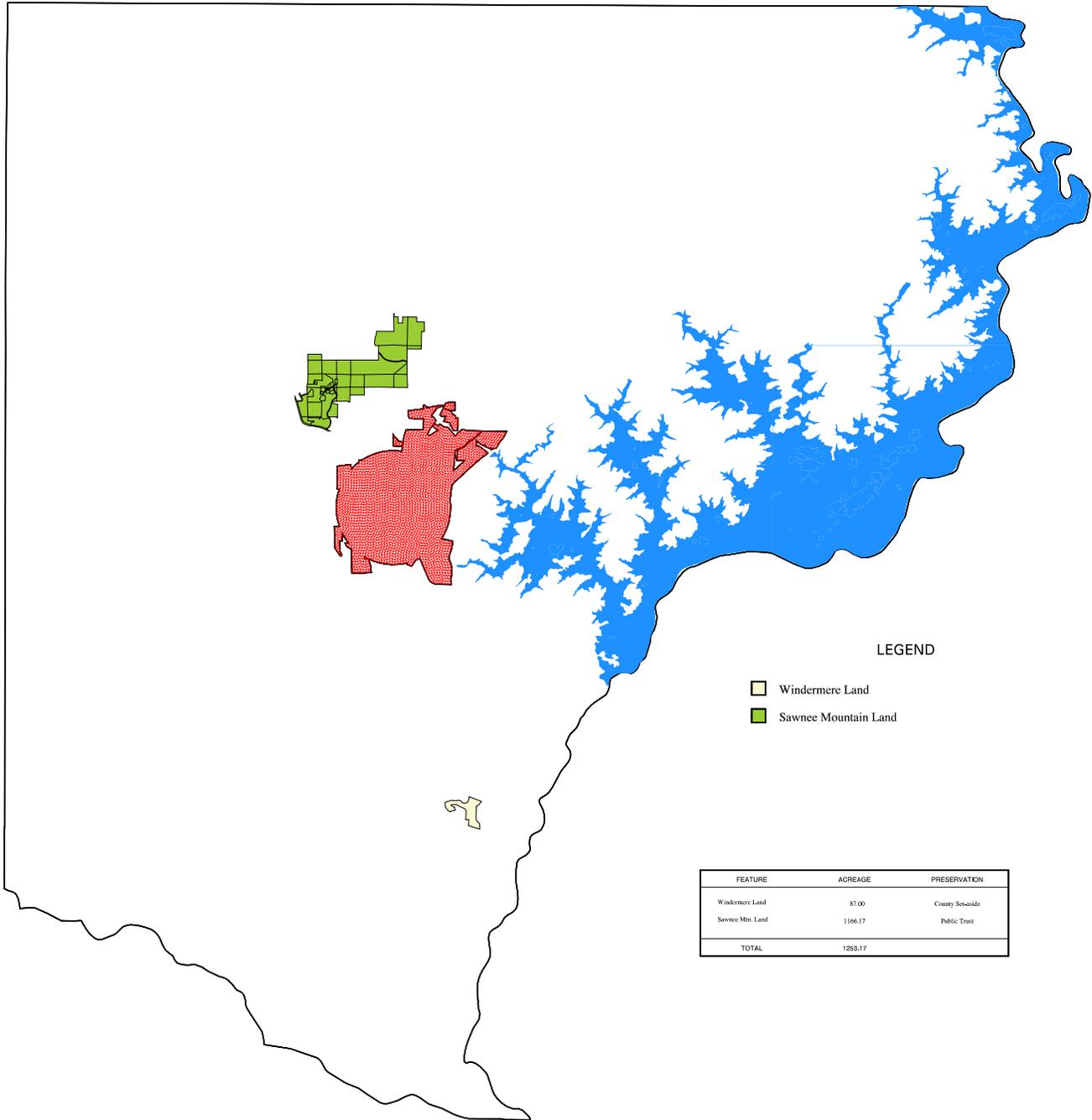
## **EXISTING CONDITIONS**

### **UNPROTECTED PUBLIC LANDS**

While there are several tracts of unprotected public land within Forsyth County, there presently exist two areas of unprotected publicly owned land for which Forsyth County is currently actively seeking greenspace protection status. These examples are described below.

#### **Description**

Sawnee Mountain ridge consists of 1166 acres of land that is presently in an undeveloped condition. Forsyth County has recently acquired 174.1 acres of this property for permanent protection as greenspace. The Comprehensive System-Wide Recreation Master Plan proposes development of this property as a passive use recreation area, to contain trails and interpretive areas and placing it under conservation easement. It is anticipated that under the Georgia Greenspace Program the balance of Sawnee Mountain Ridge will be acquired and protected in a similar fashion. When this is completed, all 1166 acres will meet the goals of the Georgia Greenspace Program.



LEGEND

- Windermere Land
- Sawnee Mountain Land

FEATURE	ACREAGE	PRESERVATION
Windermere Land	87.00	County Set-aside
Sawnee Mtn. Land	1166.17	Public Trust
<b>TOTAL</b>	<b>1253.17</b>	

# FORSYTH COUNTY GREENSPACE PLAN

## POTENTIAL UNPROTECTED PUBLIC LAND ACQUISITIONS



SCALE = 1:86,900



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The second tract of publicly owned land is within the Windermere multi-use development. The primary tract for which Forsyth County desires to protect as greenspace is an 87-acre parcel that is being donated to the County. It is the intent of the County to utilize approximately 20 +/- acres as a soccer complex, with the remaining acreage being devoted to permanent greenspace. A concept plan has been prepared for this site that includes portions of a regional greenway, multi-purpose trails, open grassed recreation areas, picnic areas and an environmental education opportunity (possibly a constructed wetland). The passive portion of this land will be placed under conservation easement.

### **Preservation Measures**

The accompanying exhibit titled "Potential Unprotected Public Land Acquisitions" depicts both of the above-mentioned properties. The Sawnee Mountain Ridge property will be acquired by fee simple purchase. Forsyth County has four million dollars set aside for purchase of Sawnee Mountain Ridge properties.

The Windermere tract will be acquired by donation. The developer has agreed in principal to consummate this donation prior to the end of the present calendar year.

### **PROTECTED LANDS**

Within Forsyth County there presently exist protected lands that meet the DNR definition of greenspace. There is permanently protected greenspace within the county that is currently owned by Federal (Corps of Engineers and National Park Service) or State (Heritage Lands) agencies. Forsyth County and private individuals possess greenspace lands that presently are not permanently protected, but are protected by other means such as fee-simple purchase and by implementation of ordinances and regulatory measures designed to protect significant natural resources.

### **Description**

Lands within Forsyth County that meet the definition of greenspace and that are protected by a public or private entity include: Lake Lanier recreation sites owned by the U.S. Army Corps of Engineers, the Chattahoochee River National Recreation Area just south of Buford Dam owned by the National Park Service, the State Heritage Preserve on Big Creek, Poole's Mill Park (owned by Forsyth County), land in private ownership within river and stream corridors protected by State and County buffers and setback requirements, Part V Criteria or as State waters. Lands owned by Forsyth County and in private ownership do not presently meet the definition of "permanent protection" at this time. Forsyth County is aware that in the future, as part of participating in the Georgia Greenspace Program formal methods of legal protection must be implemented.

The accompanying exhibits titled “Existing Protection Areas By Ownership Type” and “Ownership Agreement” illustrate these lands.

The Table that follows (Table 1) depicts the total acreage occupied by lands either presently permanently protected or protected by regulatory measures.

**TABLE 1  
GREENSPACE PROTECTED  
BY PUBLIC OR PRIVATE ENTITY**

<b>GREENSPACE OWNERSHIP</b>	<b>FORSYTH COUNTY ACREAGE</b>
Forsyth County	12.05
U.S. Army Corps of Engineers	4722.11
National Park Service	240.45
State of Georgia (Heritage Preserves)	35.00
State of Georgia (Adjacent To Fish Hatchery)	53.04
Private Lands*	5719.02
<b>TOTAL</b>	<b>10781.67</b>

\*Includes all lands in private ownership that are protected by buffer and setback ordinances and regulations, Part V Criteria or by regulations protecting State waters.

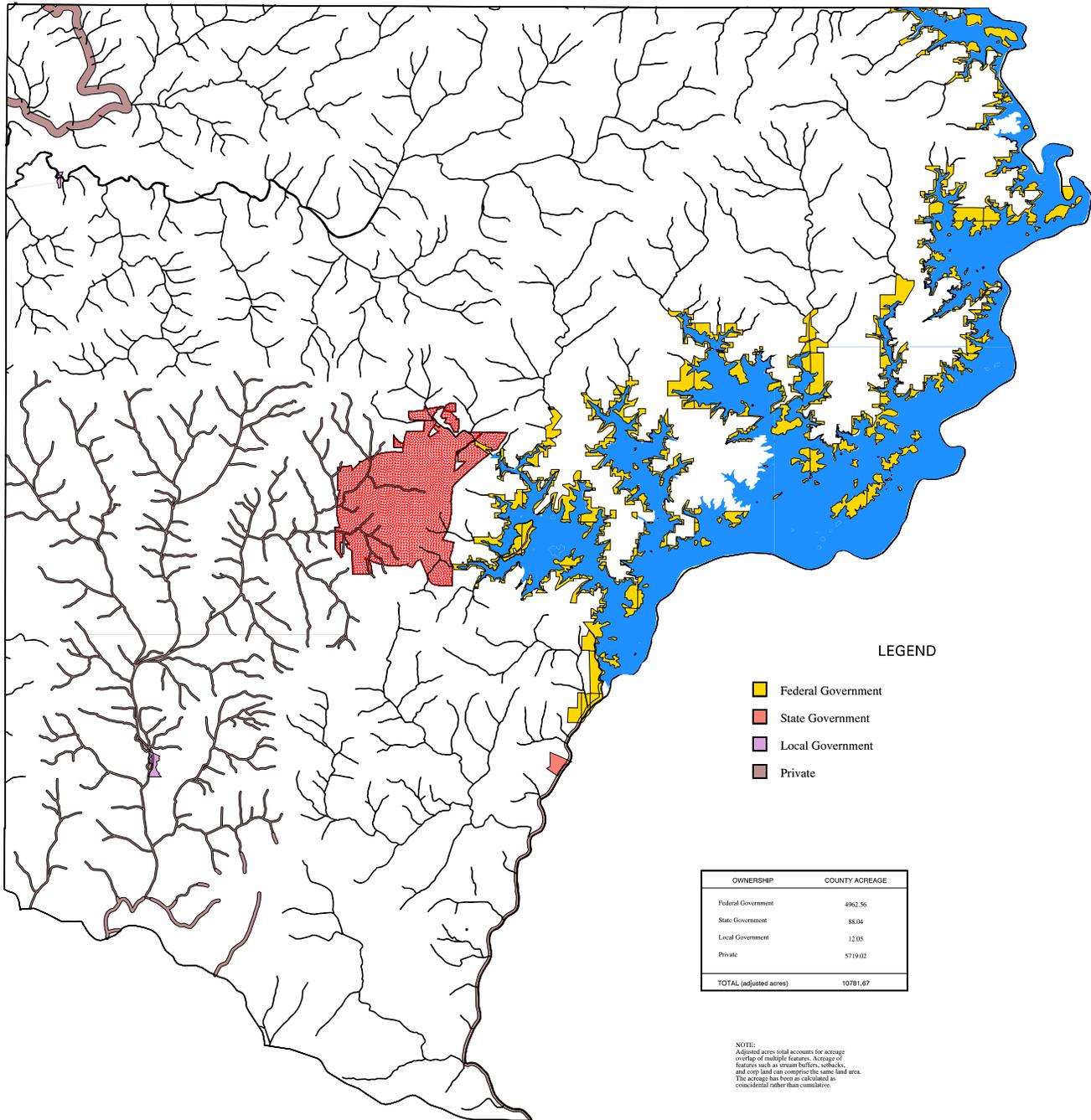
The “Private Lands” included in Table 1 consist of existing protected greenspace within Forsyth County that is in fee-simple ownership, conservation easements and in agreements that require no net loss of comparable greenspace. The accompanying exhibit titled “Existing Protection Areas By Ownership Agreement” depicts these lands. Of the total of 5062.65 acres in government ownership, 5027.65 acres are available for public access.

## **TEN YEAR STRATEGY TO ACHIEVE GREENSPACE GOALS**

### **STRATEGIC INITIATIVES**

To facilitate successful implementation of the Forsyth County Greenspace Program several strategic initiatives are identified to guide the decision-making process. These initiatives address specific elements of the county’s greenspace protection program, and will form the foundation for both the short-range and long-range greenspace acquisition program. Five initiatives are identified as follows:

- Advance acquisition of greenspace land will be a priority in light of rising land costs and developmental pressures
- Greenspace located in areas possessing critical natural resources such as river corridors, conservation zones or where passive uses can be provided to serve a large segment of the population will receive high priority for



LEGEND

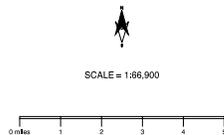
- Federal Government
- State Government
- Local Government
- Private

OWNERSHIP	COUNTY ACREAGE
Federal Government	4962.56
State Government	88.04
Local Government	12.05
Private	5719.02
<b>TOTAL (adjusted acres)</b>	<b>10781.67</b>

NOTE:  
Adjusted acres total accounts for acreage overlap of multiple features. Acreage of features such as stream buffers, setbacks, and corp land can comprise the same land area. The acreage has been calculated as coincidental rather than cumulative.

# FORSYTH COUNTY GREENSPACE PLAN

## EXISTING PROTECTION AREAS BY OWNERSHIP TYPE

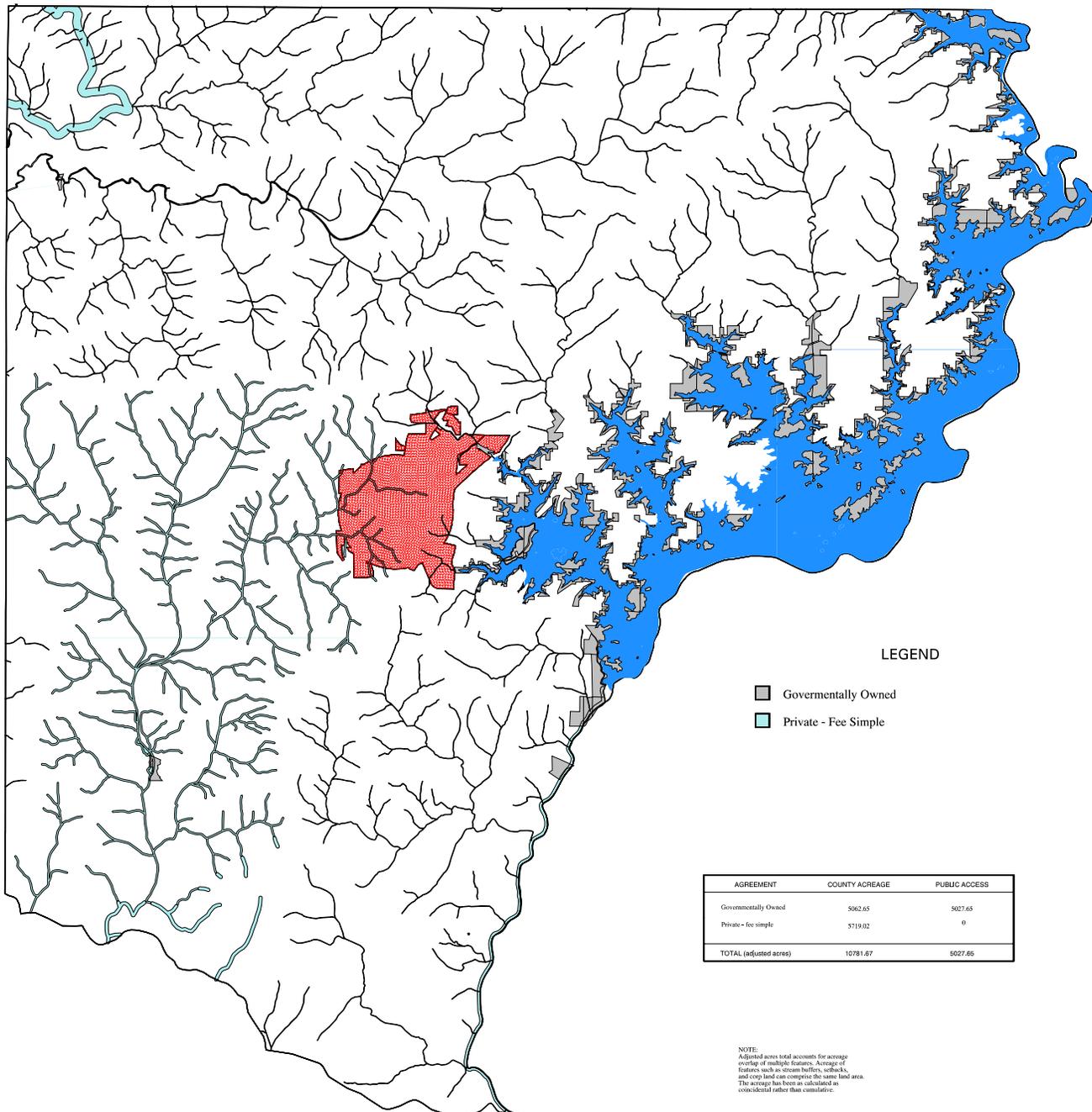


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**LEGEND**

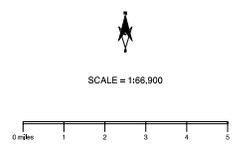
- Governmentally Owned
- Private - Fee Simple

AGREEMENT	COUNTY ACREAGE	PUBLIC ACCESS
Governmentally Owned	5062.65	9027.65
Private - fee simple	5719.02	0
<b>TOTAL (adjusted acres)</b>	<b>10781.67</b>	<b>9027.65</b>

NOTE:  
Adjusted acres total accounts for acreage overlap of multiple features. Acreage of features such as stream buffers, setbacks, and crop land can comprise the same land area. The acreage has been calculated as coincidental rather than cumulative.

# FORSYTH COUNTY GREENSPACE PLAN

## EXISTING PROTECTION AREAS BY OWNERSHIP AGREEMENT



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acquisition

- Forsyth County will coordinate greenspace protection with Federal and State agencies and with local “partners”.
- Greenways, trails and bikeways will be a key element in the Greenspace Program as a means of providing important linkages between county recreation sites and facilities
- The continued use of ordinances, land use policies and regulatory measures as a means of protecting greenspace will be a key implementation tool of the Greenspace Program

## **APPROACH TO PROTECTING GREENSPACE**

It is the intention of Forsyth County to implement the program of greenspace protection contained in this Community Program. Using any or all of the methods outlined in this section, the County will endeavor to continue the policy of permanently protecting greenspace. This section of the Community Program identifies potential greenspace and includes estimates of the amount of land to be protected by type.

### **Existing Forsyth County Greenspace**

The accompanying exhibits titled “Existing Land Use” from the Forsyth County Comprehensive Plan and “Figure 1 Existing Recreation Sites “ from the Comprehensive System-Wide Recreation Master Plan depict existing recreation and open space within Forsyth County.

The existing land use map illustrates the location and extent of park, recreation and conservation land. Geographically, these lands are predominantly located in northern Forsyth County, adjacent to Lake Lanier and to a lesser degree in the extreme southern portion of the County. This map contains Federal and State owned recreation land that is permanently protected. The acreage of these permanently protected Federal and State lands is contained in Table 1.

The map of existing recreation sites illustrates the location of all land presently used for both active and passive recreation, including school recreation areas. It is recognized that not all of this land meets the definition of greenspace; however this map is included to illustrate that Forsyth County has taken the step to prepare a system-wide recreation plan to address recreation needs of its residents. While several County parks contain greenspace, Poole’s Mill Park is the only park completely devoted to passive use opportunities.

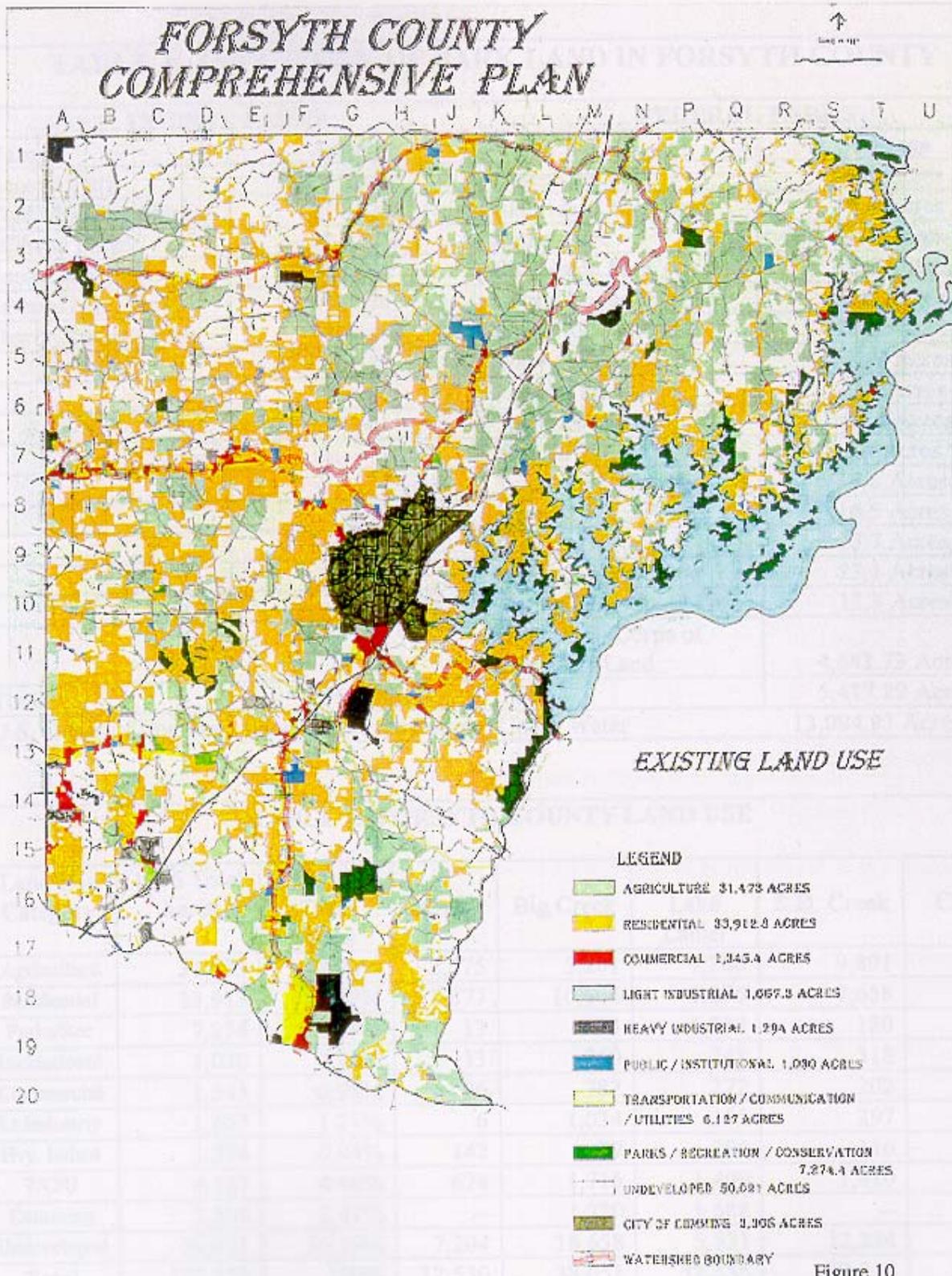
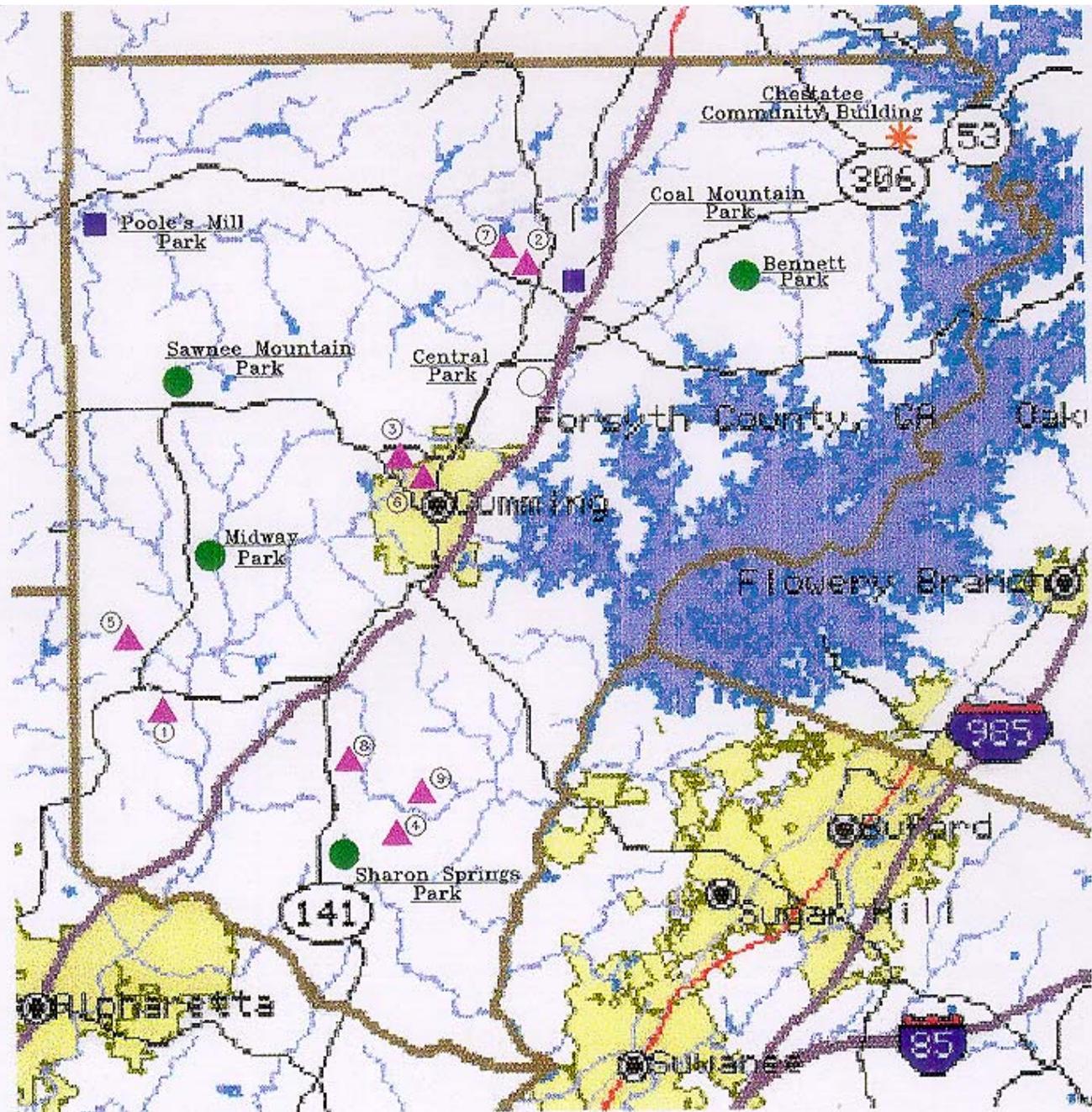


Figure 10



**LEGEND**

- Neighborhood Park
- Community Park
- Special Use Area
- School Recreation Areas
- Undeveloped Park Land

**SCHOOL LOCATIONS**

- ① Midway E.S.
- ② N. Forsyth M.S.
- ③ Otwell M.S.
- ④ S. Forsyth M.S.
- ⑤ Vickery Cr. M.S.
- ⑥ C. Forsyth H.S.
- ⑦ N. Forsyth H.S.
- ⑧ S. Forsyth
- ⑨ Dave's Cr. E.S.

## Comprehensive System-Wide Recreation Master Plan 2000-2006

Figure 1 - Existing Recreation Sites

Robert G. Betz AICP, Inc.  
Lilburn, Georgia

## **Lands Possessing Acquisition Potential**

To determine the location of potential greenspace to be protected under the Georgia Greenspace Program, information contained in the County's future land use plan, in the recreation master plan recommendations and from an inventory of other potential greenspace acquisition areas were used to target the range of land types from which greenspace can be identified for permanent protection.

The accompanying exhibit titled "Generalized Future Land Use (1994 – 2015)" illustrates parks, greenway corridors, river and stream buffers and conservation areas. Similarly the accompanying exhibit titled "Recreation Master Plan" depicts the general location of proposed new recreation sites, including passive use parks. The lands designated on each of these maps fall short of the 20 percent greenspace protection goal. Once the Comprehensive Plan is updated, the Georgia Greenspace Program goals will be incorporated, resulting in the identification of at least 28,786 acres to be protected as greenspace.

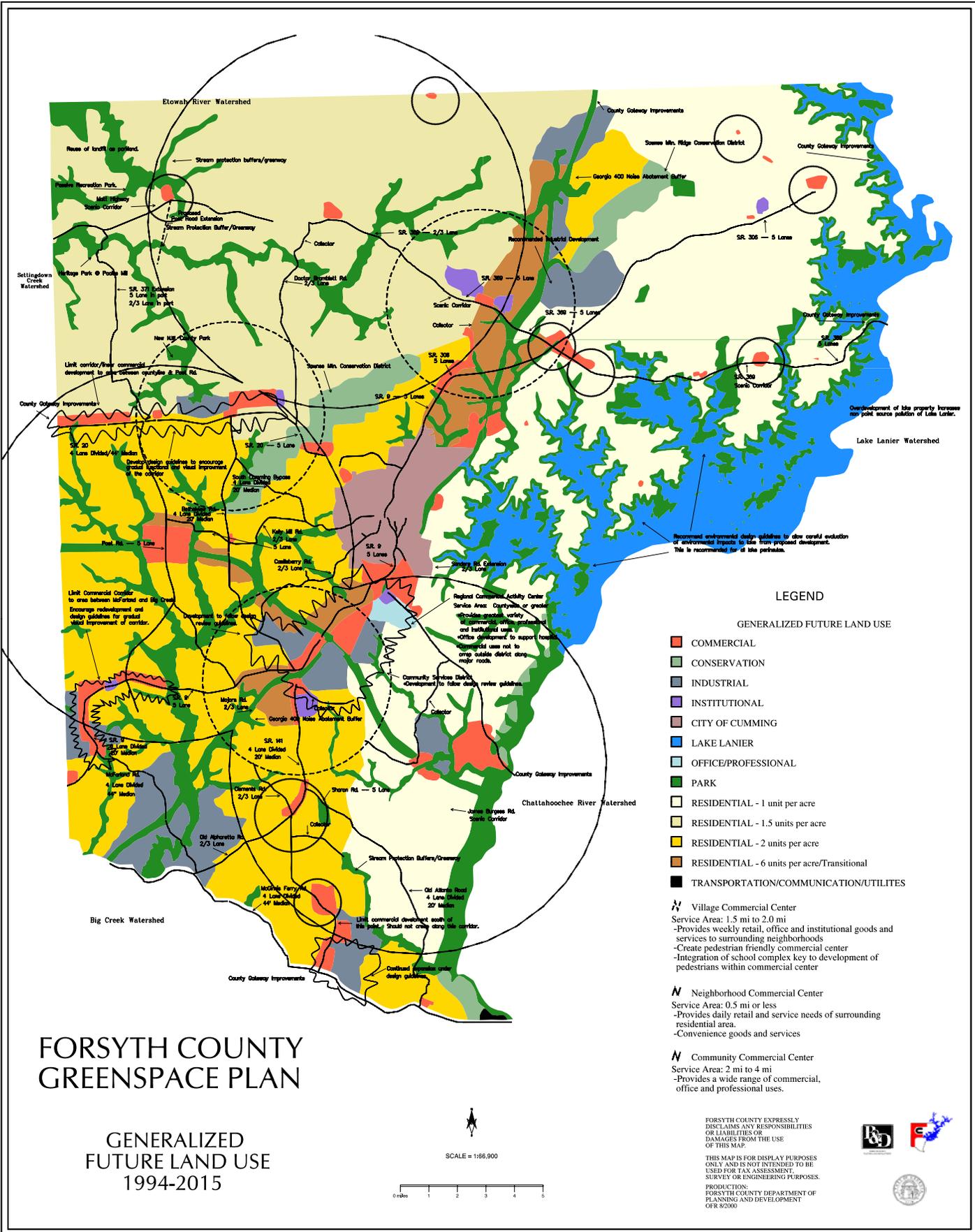
The accompanying map titled "Potential Greenspace Acquisition Areas" portrays the location and extent of steep slopes (4,979 acres), wetlands (2,640 acres), agriculturally zoned land (6,226 acres) and floodplain (9,632 acres), a total of 23,477 acres of potential greenspace. This land, in conjunction with passive parks, greenways, bikeways, private land to be placed under conservation easement and Federal and State land presently under permanent protection will exceed the 28,786 acres that is the Greenspace Program goal for Forsyth County.

## **Acquisition Goals By Land Type**

The following Table (Table 2) depicts Forsyth County's targeted acquisition strategy by land type. For each type of land depicted on the foregoing maps, the Table includes the type of land and the approximate percentage of the total goal for greenspace that could be derived from each land type.

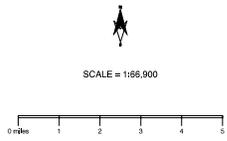
**TABLE 2  
TARGETED ACQUISITION STRATEGY**

<b>LAND TYPE</b>	<b>TARGET PERCENTAGE</b>
Passive Use Parks	5% (1,439 ac.)
Greenways	2% (576 ac.)
Bikeways	.5% (150 ac.)
Private Developments	5% (1,439 ac.)
Corps of Engineers Sites	16% (4,722 ac.)
Steep Slopes	17% (4,979 ac.)
Wetlands	9% (2,640 ac.)
Agricultural Land	12.5% (3,209 ac.)
Floodplains	33% (9,632 ac.)
<b>TOTAL</b>	<b>100.0% (28,786 AC.)</b>



# FORSYTH COUNTY GREENSPACE PLAN

## GENERALIZED FUTURE LAND USE 1994-2015



### LEGEND

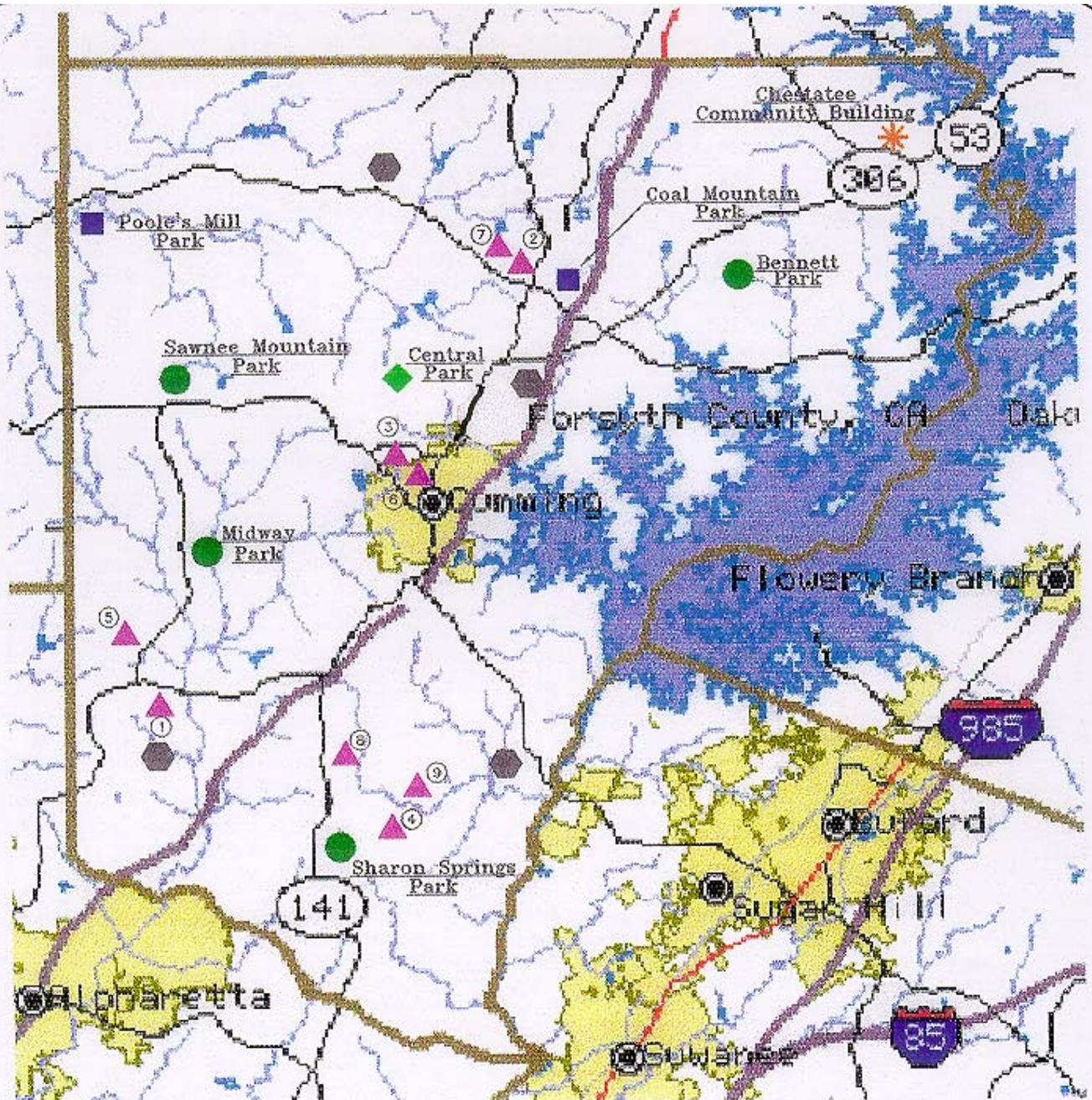
#### GENERALIZED FUTURE LAND USE

- COMMERCIAL
- CONSERVATION
- INDUSTRIAL
- INSTITUTIONAL
- CITY OF CUMMING
- LAKE LANIER
- OFFICE/PROFESSIONAL
- PARK
- RESIDENTIAL - 1 unit per acre
- RESIDENTIAL - 1.5 units per acre
- RESIDENTIAL - 2 units per acre
- RESIDENTIAL - 6 units per acre/Transitional
- TRANSPORTATION/COMMUNICATION/UTILITIES

- Village Commercial Center  
Service Area: 1.5 mi to 2.0 mi  
-Provides weekly retail, office and institutional goods and services to surrounding neighborhoods  
-Create pedestrian friendly commercial center  
-Integration of school complex key to development of pedestrians within commercial center
- Neighborhood Commercial Center  
Service Area: 0.5 mi or less  
-Provides daily retail and service needs of surrounding residential area.  
-Convenience goods and services
- Community Commercial Center  
Service Area: 2 mi to 4 mi  
-Provides a wide range of commercial, office and professional uses.

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**LEGEND**

- Neighborhood Park
- Community Park
- ✱ Special Use Area
- ▲ School Recreation Areas
- Proposed Community Park
- ◆ Passive Use Park

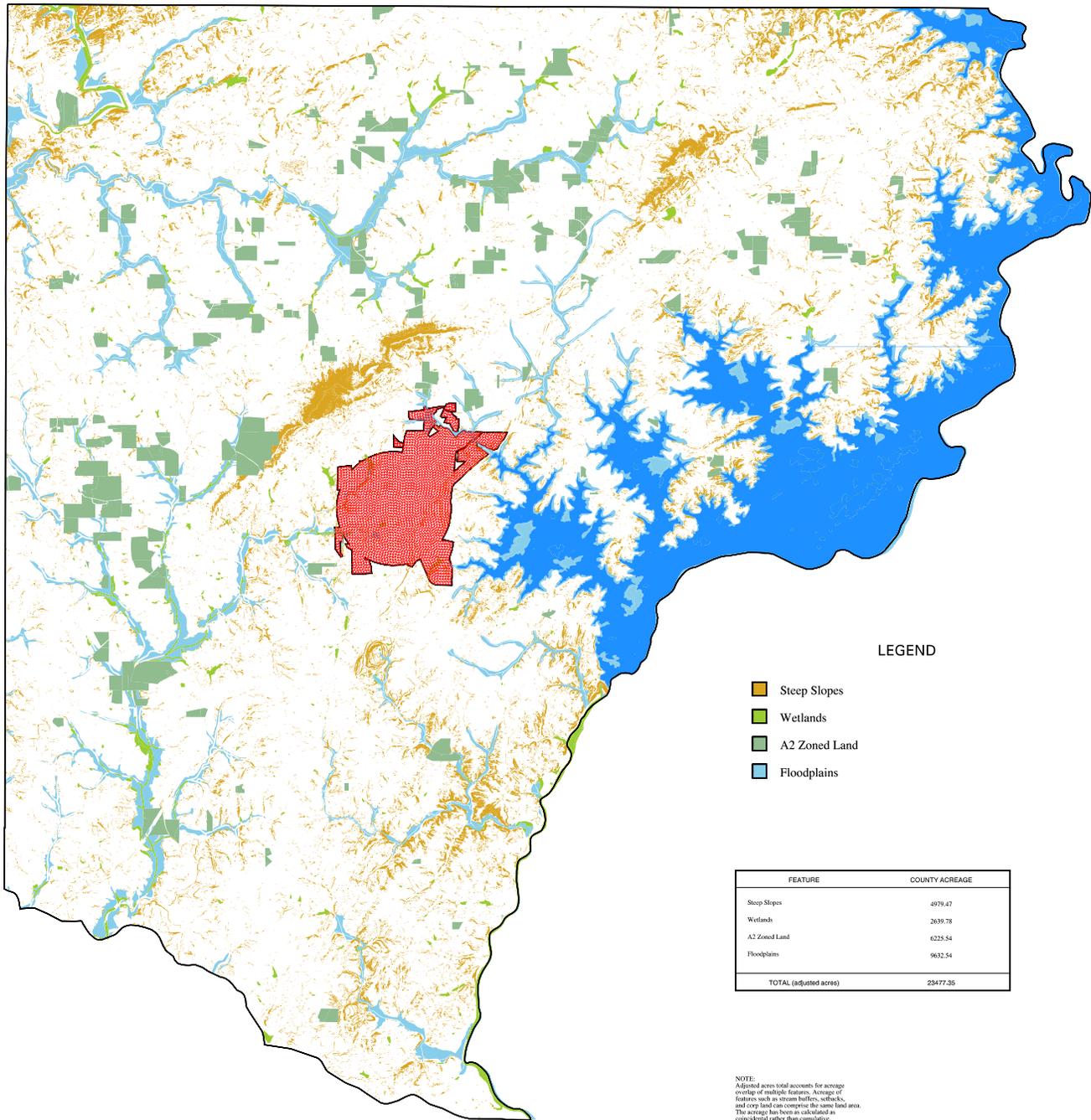
**SCHOOL LOCATIONS**

- ① Midway E.S.
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- ③ Otwell M.S.
- ④ S. Forsyth M.S.
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- ⑧ S. Forsyth H.S.
- ⑨ Dave's Cr. E.S.

## Comprehensive System-Wide Recreation Master Plan 2000-2006

Figure 2 - Recreation Master Plan

Robert G. Betz AICP, Inc.  
Lilburn, Georgia



LEGEND

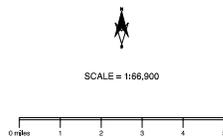
- Steep Slopes
- Wetlands
- A2 Zoned Land
- Floodplains

FEATURE	COUNTY ACREAGE
Steep Slopes	4979.47
Wetlands	2639.78
A2 Zoned Land	6225.54
Floodplains	9632.54
<b>TOTAL (adjusted acres)</b>	<b>23477.35</b>

NOTE:  
Adjusted acres total accounts for acreage overlap of multiple features. Acreage of features such as stream buffers, setbacks, and core land can comprise the same land area. The acreage has been calculated as coincidental rather than cumulative.

# FORSYTH COUNTY GREENSPACE PLAN

## POTENTIAL GREENSPACE ACQUISITION AREAS



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## ORDINANCES AND POLICIES FOR GREENSPACE PROTECTION

In May 2000 Forsyth County adopted the *Unified Development Code (UDC)* (Ordinance #87), the county's new zoning and subdivision regulations. Contained within the new ordinance are provisions for Conservation Subdivisions (Chapter 19) and DNR's *Environmental Planning Criteria* (Chapter 21). The Georgia Planning Association recently awarded the UDC the "Outstanding Plan Implementation" award.

The intent of the Conservation Subdivision regulations is "... to provide for residential subdivisions that are designed based first and foremost on the provision and preservation of open space ...(UDC, Chapter 19). Each conservation subdivision is required to set aside 40 percent of its total land area as open space. The minimum amount of open space required in a conservation subdivision is 15 contiguous acres. This open space, set aside as permanent, undivided open space, is then classified as "primary conservation areas" and "secondary conservation areas".

Primary conservation areas include habitats for threatened or endangered species; wetlands; flood plains; shorelines; and adjacent riparian zones or upland buffers; historic, cultural and archaeological sites; and steep mountain slopes. Secondary conservation areas include prime farmlands or open meadows; tree coverage areas and mature woodlands; aquifer recharge areas; steep slopes; scenic views and sites; and designed and newly created open spaces such as neighborhood commons and village greens. Active recreational facilities are prohibited from primary conservation areas, and no more than 25 percent of the required open space may be utilized for active recreation purposes.

DNR's *Environmental Planning Criteria* for water supply watersheds, groundwater recharge areas, wetlands and the Etowah River (a protected river) have been adopted as overlay districts in the UDC (Chapter 21). These regulations, where applicable, specify permitted uses, minimum lot sizes, protective buffers and increased building setbacks within each of the environmental overlay districts.

Other Forsyth County ordinances and regulations currently in place relating to the protection of greenspace include the following:

- Big Creek Flood Plain Ordinance (Ordinance #7) Prohibits The erection of buildings and structures and regulates land Disturbance within the regulated floodplain of Big Creek
- Environmental Review Ordinance (Ordinance #9) Establishes an ad hoc Environmental Review Committee and charges it with the responsibility for reviewing any proposed land use, project, development or rezoning that may have significant impact on the environment

- Tributary Protection Code (Ordinance #14) Establishes a 35 foot undisturbed protective buffer on either side of any stream south of Buford Dam that drains into the Chattahoochee River. The 35 foot protected area also includes lakes and wetlands south of Buford Dam, the waters of which drain into the Chattahoochee River
- Soil Erosion and Sediment Control Ordinance (Ordinance #73) Requires Best Management Practices (BMP's), as contained in the "Manual for Erosion and Sediment Control in Georgia" be followed for all land-disturbing activities. This ordinance establishes a 25 foot undisturbed protective buffer on all State waters and a 100 foot undisturbed protective buffer on all trout streams
- Tree Preservation and Replacement Ordinance (Ordinance #81) Requires the maintenance of 15 tree units per acre; prohibits the removal of specimen trees and historic landmark trees without permission from the County Arborist; and establishes standards for the preservation and replacement of trees within the county

Forsyth County recognizes that while these ordinances and regulations are an initial step in protection of greenspace, they do not in, and of themselves provide permanent protection.

## **FUTURE METHODS OF PROTECTING GREENSPACE**

Additional tools that Forsyth County may use to preserve greenspace as part of the Greenspace Program include the following:

- Acquiring new land in fee simple ownership and formally placing it under permanent legal protection
- Acquiring conservation easements on privately owned land
- Placing conservation easements on conservation, preservation and recreational lands which do not currently qualify as permanently protected
- Entering into contractual agreements to insure that, if the protected status is discontinued, such land will be replaced by other greenspace of equal or greater monetary and resource protection value

- Creating a restrictive covenant in favor of a Federal governmental entity
- Authorizing special-purpose local option sales taxes to fund greenspace protection
- Establishing a stormwater utility to help fund the acquisition of greenspace for permanent protection
- Identifying opportunities to receive gifts of land in fee-simple or of conservation easements
- Identifying Federal, State or private sources of funds which can be used to protect greenspace within the local jurisdiction
- Incorporating the Greenspace Program into the Forsyth County Comprehensive Plan
- Further enacting performance-based zoning, such as conservation zoning, to supplement prescriptive zoning
- Further providing for environmental overlay zones within the county's existing zoning and subdivision regulations
- Establishing a Transferable Development Rights (TDR) program
- Amending the county's subdivision regulations to specify the protection of steep slopes, wetlands, or flood plains and to encourage setting aside recreational greenspace in neighborhoods
- Providing for inter- or intra-jurisdictional linkages of greenspace
- Using any other method that ensures that greenspace will remain forever in uses which further the goals of the Georgia Greenspace Program

## **BARRIERS TO ACHIEVING GREENSPACE PROTECTION GOALS**

There are several barriers to achieving greenspace goals that will be evident as Forsyth County moves to implement the Greenspace Program. These include issues of a legal or structural nature (including reconciliation of the Comprehensive Plan with Greenspace Program goals), monetary issues and issues of ownership.

### **Legal/Structural Issues**

The formal adoption of any amendments proposed to the Forsyth County Comprehensive Plan, to the Unified Development Code or creation of new ordinances that will promote greenspace protection is not assured. The Forsyth County Board of Commissioners will endeavor to incorporate all Greenspace Program goals in the forthcoming update of the Comprehensive Plan. Amendments to these documents require recommendation by the Planning Commission and adoption at a public hearing by the Forsyth County Board of Commissioners. As the county is supportive of the Georgia Greenspace Program and has already enacted several similar measures, it is assumed that the majority of pro-active greenspace measures will receive approval.

There is also a need for a formal means of achieving permanent legal protection of greenspace land Statewide, so that local governments have the authority to enact protection measures. To accomplish this, the Georgia General Assembly may have to enact legislation to facilitate this process.

### **Fiscal Issues**

The rising cost of land, particularly in the southern section of Forsyth County could constrain land acquisition. In recent years, the Forsyth County Board of Commissioners has recognized the need to acquire land for provision of recreation opportunities.

### **Other Issues**

The legal rights of existing property owners, the complexity of implementing conservation easements and the rapid development of land within the county are other issues that might become barriers.

### **Mitigation Measures**

Legal and structural barriers are being mitigated at present by the adoption of several of the greenspace related ordinances discussed in a previous section of this report. The adoption of amendments, future ordinances and regulations to protect greenspace can be facilitated at the local level through an educational process. Holding public informational meetings to review the benefits of proposed regulatory measures prior to the required public hearing can help gain support for their adoption.

The barrier presented by the Comprehensive Plan not accurately reflecting the goal of 20 percent protected greenspace can be overcome during the updating process by identifying a minimum of 28,786 acres for protection as greenspace, thus reconciling current differences between the present Comprehensive Plan and Greenspace Program goals.

In addition, the identification of permanent protection measures at both the State and local levels will assist in mitigation of greenspace protection barriers.

Monetary issues can be mitigated in part through the use of greenspace funds to leverage other Federal and State grant programs that support greenspace protection. In addition, the Forsyth County Planning & Development Department and the County's Recreation Consultant actively pursue grant funds for land acquisition and for the provision of both active and passive recreation opportunities.

Issues relating to implementation of conservation easements can also be addressed through a process of educating county residents as to the benefits that will accrue and the enhancement of the quality of life that will occur as result of these measures. It is also possible that in the future, the Georgia General Assembly might have to enact legislation to provide local governments with the authority to permanently protect land. The trend of rapid development can only be mitigated through the comprehensive planning process and implementation of appropriate land use control measures.

## **SOURCE AND USE OF FUNDS**

### **DESCRIPTION OF ALL POTENTIAL FUNDING MECHANISMS**

There are a wide range of funding opportunities at the Federal, State and local level applicable to the protection of greenspace. The following is a brief description of the programs affording the greatest opportunities for Forsyth County.

#### **Federal**

The *Land and Water Conservation Fund* (L&WCF) was created in 1965 and is presently the principal source of Federal funds for park and open space land acquisition and development. Annual funding levels vary greatly from year to year, and in the year 2000, the State of Georgia received less than \$900,000, all of which was earmarked for land acquisition. When funding is available, the L&WCF State grant program matches up to 50 percent of project costs, with the remainder funded by the project applicant.

The *Conservation and Reinvestment Act of 1999* (CARA) has been passed by Congress, but is yet to be funded. It is estimated that funding might be available for fiscal year 2002. This Act will provide funding for land acquisition related to preservation and conservation projects. It is anticipated that if fully funded, CARA will result in approximately \$30 million per year to the State of Georgia.

The *Intermodal Surface Transportation Efficiency Act of 1991* (ISTEA), recently re-authorized as TEA-21 funds transportation enhancement activities and

alternative methods of pedestrian movement, including greenways, bikeways and trails. Funding is available for the acquisition and development of greenways, bikeways and pedestrian trails, provided that proposed projects can emphasize the alternative transportation potential of these type of facilities, and not solely their recreation value. TEA-21 provides approximately 80 percent of project planning, design and development funding, with the remaining 20 percent funded by the applicant.

## **State**

The *Local Development Fund* (LDF), administered by the Department of Community Affairs provides 50% matching grants that can be used for enhancement activities, including development of recreation sites. The maximum grant award is \$10,000, and funding cycles are approximately every six months. Typically, about 35% of grant applications are successful. These funds would have applicability for additional development at recreation sites, or planning or development of new recreation sites.

The *Recreation Assistance Fund* is administered by the Department of Natural Resources and provides matching grants in the range of \$8,000 to \$10,000. Future Recreation Assistance Fund grants could be used for land acquisition or facilities development.

The *Line Item Appropriation* is funded through the Department of Community Affairs and is applicable to improvements to existing recreation facilities. In FY 1999 there was approximately eight million dollars appropriated in this program. Projects must first be identified by the local legislative delegation, and approved by leadership of the State House and Senate before being submitted to the Governor's staff for approval.

The *Georgia Greenspace Program* establishes a framework for preserving community greenspace within developed and rapidly developing counties and their municipalities. This program designates funds for the acquisition of land contributing to the conservation of land that can be used for informal recreation and natural resource protection. To qualify, a local government must formally adopt a program to protect 20 percent of its land area. Eligible municipalities can receive a share of county funds based upon its proportion of county population.

The *Chattowah Open Land Trust* is a non-profit organization based in Alpharetta that is dedicated to preservation of natural, historic and archaeological open spaces in North Georgia. The Trust has assisted in the preservation of over 400 acres of land to date.

The *Trust For Public Land* (TPL), Southeast Region is currently working to protect the Chattahoochee River and has launched a campaign for natural lands and open space protection stretching from Helen to Columbus (180 river miles).

The TPL is actively working with Forsyth County to assist in the protection of open space.

The *Nature Conservancy of Georgia* has as its mission the protection of the State's diversity of flora and fauna. The Nature Conservancy presently owns and manages 14 preserves and has assisted in protecting over 157,000 acres of habitat in Georgia.

Additional greenspace and conservation related programs of a governmental or private sector nature that might have applicability to the Forsyth County Greenspace Program include the following listed by sponsor:

- USDA – Forest Service: Forest Legacy Program
- USDA – Natural Resources Conservation Service: Forestry Incentives Program, Environmental Quality Incentives Program, Wetland Reserve Program and Wildlife Habitat Incentives Program
- Georgia Forestry Commission: Georgia Reforestation to Enhance Environmental Needs (G.R.E.E.N.) and the Urban & Community Forestry Grant Assistance Program
- U.S. Fish and Wildlife Service: Partners for Fish and Wildlife
- Commodity Credit Corporation: Conservation Reserve Program
- North American Wetlands Conservation Council: Wetland Conservation Small Grants Program
- U. S. Environmental Protection Agency: Sustainable Development Challenge Grant Program

## **METHODS OF FUNDING GREENSPACE PLANNING**

Forsyth County will utilize the aforementioned programs where applicable, and in addition may utilize the following funding mechanisms at the local level:

- Special Purpose Local Option Sales Taxes (SPLOST)
- General Funds
- General Obligation Bond Funds
- Impact Fees

- Public/Private Partnerships
- Donations

### **IMPROVEMENTS, OPERATIONS AND MAINTENANCE AND RELATED LAND STEWARDSHIP ACTIVITIES**

Any necessary improvements, operations and maintenance costs and other stewardship activities related to the Forsyth County Greenspace Program will be funded from one, or more of the aforementioned funding sources. Forsyth County will use its general funds to finance the planning costs for its Greenspace Program.

## **APPENDICES**

### **CERTIFIED RESOLUTION(S)**

The attached, certified resolution(s) are made a part of this Forsyth County Community Program:

- Resolution Adopted by the Forsyth County Board of Commissioners

This Resolution establishes a Community Greenspace Trust Fund and identifies the individual authorized to sign grant awards.

### **ALLOCATION OF FUNDS**

The entirety of greenspace grant funds will be allocated to Forsyth County.

## **SUMMARY OF FORSYTH COUNTY GREENSPACE PUBLIC HEARING**

On July 24, 2000, the Forsyth County Board of Commissioners held a public hearing to secure input to developing the County's Community Program for greenspace. Approximately fourteen individuals were in attendance including Mr. Tommy Irvin, the Georgia Commissioner of Agriculture and Gail Hankinson, representing the Department of Natural Resources. Initially, an overview of the Georgia Greenspace Program was presented by the County's Consultant, followed by an open microphone forum whereby those in attendance had the opportunity to speak. The following is a summary of comments made and suggestions received by those in attendance:

- A question was raised in reference to how the extensive buffer adjacent to Lake Lanier would be accounted for in the Greenspace Program. The DNR representative responded that the final rules regarding treatment of the lake buffer and Corps of Engineers land had not been established as yet.
- Several individuals and Commission members asked questions about the specific type of lands that will count towards the 20 percent greenspace goal. These questions were responded to by the County's Consultant and by the DNR representative.
- An individual asked for a clarification of the 20 percent goal. It was explained that each County participating in the program is to make a "good faith" effort to reach this goal, but DNR realizes that it might not be possible to attain in every County.
- A Commissioner asked if trails counted toward the goal. The response indicated that multi-purpose trails and other passive use trails will count toward the 20 percent goal.
- Another Commissioner asked if counties could opt out of the Greenspace Program and was told that the program is not mandatory.
- An individual inquired as to the possibility of counting existing park acreage toward the goal. It was explained that only passive use parks and passive use portions of existing parks will count.

- An individual requested an explanation of the conservation subdivision ordinance recently passed by Forsyth County. A detailed summary was provided by the Director of Planning & Development.
- A question was raised as to the amount of funding that Forsyth County would receive under the Greenspace Program and was told that the initial year's funding would be \$811,000. It was also mentioned that these monies could be leveraged to secure other grants for protecting greenspace.

The public hearing closed with a statement of support from the Board of Commissioners.

A copy of the list of those attending the public hearing is attached.

## Appendix C

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# SUBAREA LAND USE REPORTS

Forsyth County  
Comprehensive Plan

Chestatee Subarea  
Land Use Report

September 25, 2003



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# I. Introduction

## A) Purpose

In preparing the 2003 Update to the Forsyth County Comprehensive Plan, the County initiated an ambitious public involvement process. In order to better analyze the County's needs and elicit a higher degree of community participation, the county was divided into ten planning subareas (**Figure 1**) with individual committees established to develop specific land use policies and a future land use map for their subarea. The subarea boundaries were determined by a variety of factors including: physical barriers, historical communities, economics and transportation corridors.



This information was gathered to help enable the community to look at where they are today, how they got there and where they want to go in the future. Included in this document are the findings from the land use inventory and assessment for the Chestatee subarea, as well as the recommendations of the Chestatee Subarea Advisory Committee. The membership of the committee and the meeting dates can be found in the **Appendix**.

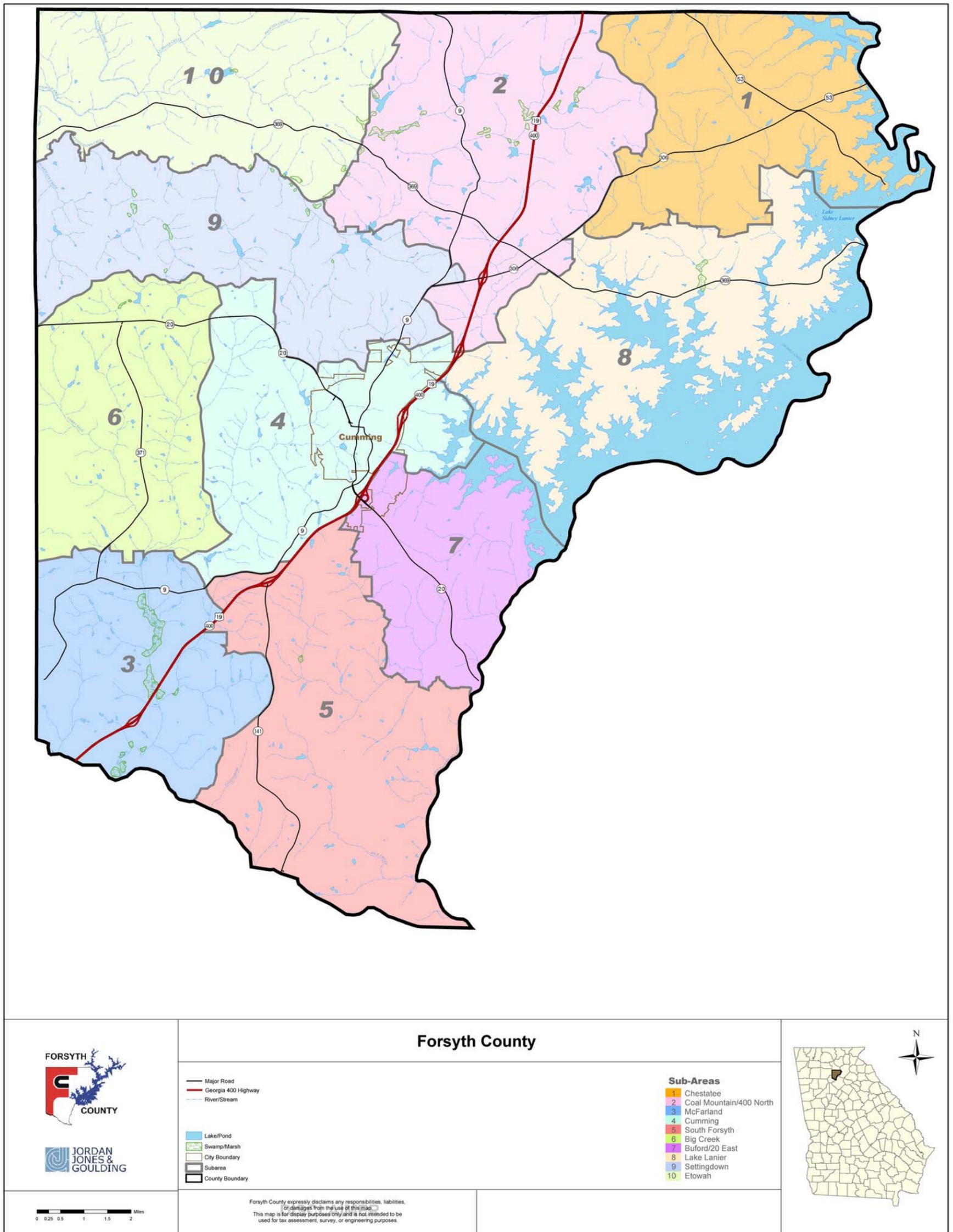
## B) Scope

The following report provides a “snapshot” of the Chestatee subarea. First, a description of existing land uses in the subarea is provided, along with an existing land use map and summary table. This is followed by an inventory of environmentally sensitive areas. These two sets of information allow the community to identify those sections of the subarea that could potentially be developed in the future, as well as those areas that should be protected from development pressures.

Following this inventory, there is an examination of the historic development patterns in the Chestatee subarea. This includes a discussion of demographic changes in the subarea between 1900 and 2000, as well as an estimate of land consumption during the last decade. There is also a summary of the historical factors that have led to the current development patterns.

An examination of future development trends is also provided. This includes an assessment of the future sewer and transportation infrastructure needs, as well as the identification of transitional areas that could potentially be redeveloped. Forsyth County's land use polices are also examined in order to determine what is allowed to develop under the current regulations. Finally, this report includes the subarea vision and policy recommendations developed by the Chestatee Subarea Advisory Committee, and a copy of the future land use map for the subarea.

Figure 1  
Forsyth County Subarea Locations



## C) Location

The Chestatee subarea is located in the northeastern corner of Forsyth County. The general boundaries include Dawson County to the north, the Lake Lanier subarea to the south, the Coal Mountain/400 North subarea to the west, and Lake Lanier to the east.

# II. Inventory of Existing Conditions

## A) Description of Existing Land Uses

A comprehensive land use survey was conducted for Forsyth County in the Summer of 2002 using tax parcel maps, aerial photographs and field review. In April 2003, the results of the survey were verified by a second field review. These land uses are shown on **Figure 2** on the following page and summarized in **Figure 3** below.

**Figure 3**  
**Chestatee Subarea Land Use: 2003**

<b>Land Use</b>	<b>Acres</b>	<b>Percent</b>
Residential	5,363.99	39.71%
Undeveloped	3,474.12	25.72%
Agriculture	2,753.78	20.39%
Parks/Recreation/Conservation	1,025.45	7.59%
Road Right-of-way	626.20	4.64%
Commercial	106.59	0.79%
Institutional/Public	78.62	0.58%
<b>Chestatee Total</b>	<b>13,506.90</b>	<b>100.00%</b>
Total Sq. Miles for Sub Area	21.1	--

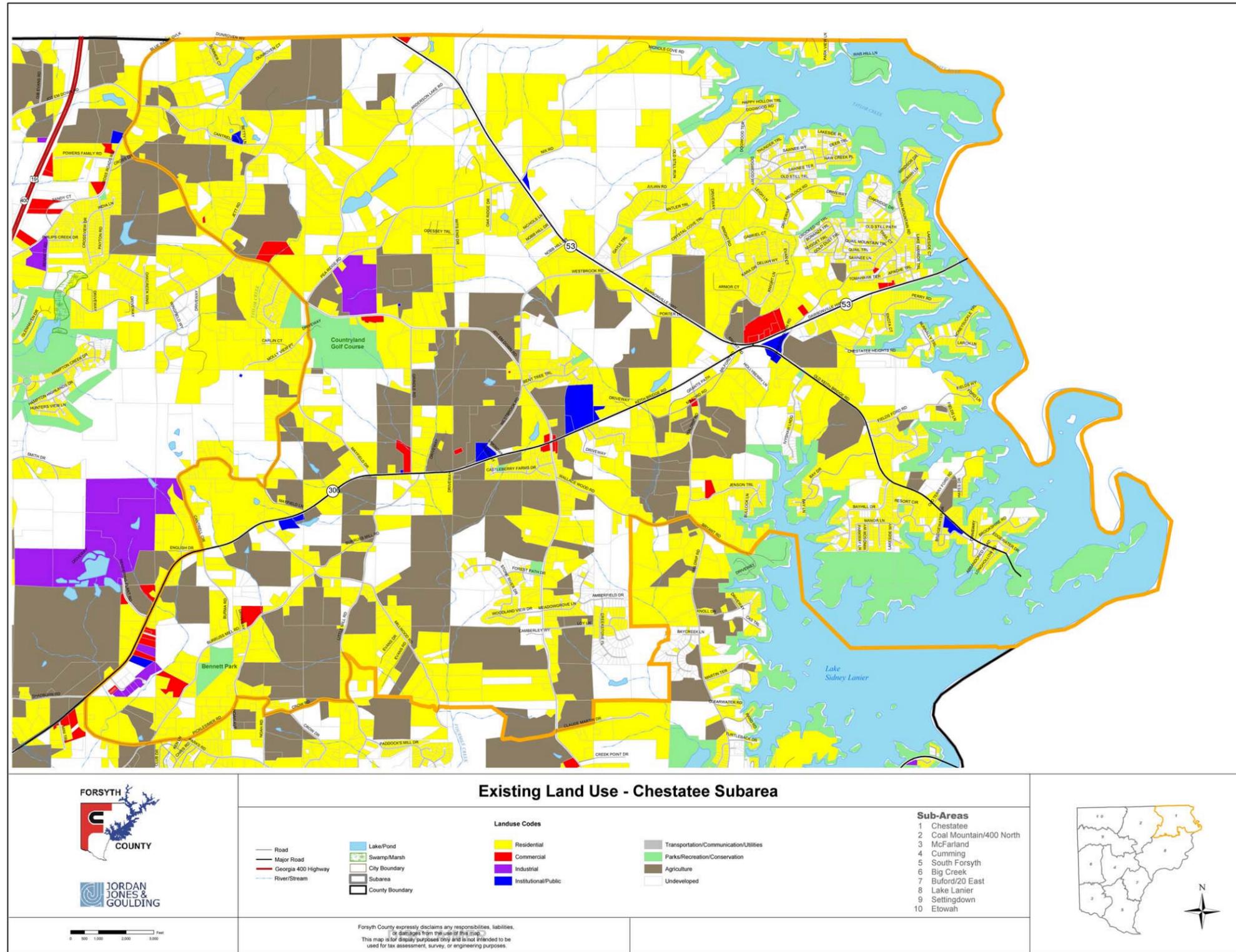
As indicated in the table above, the largest land use category in the Chestatee subarea is residential land, comprising almost 40 percent of the subarea. Residential uses are concentrated near the lake. The second largest category is undeveloped land, which makes up almost 26 percent of the subarea. Next is agricultural land, which accounts for 20 percent of the land area. Both agricultural and undeveloped land is spread throughout the Chestatee subarea. The remaining land uses combined account for 14 percent of the subarea. These uses include commercial, industrial, public/institutional and parks/recreation/conservation land. Generally, the commercial and industrial uses are concentrated along the highways, especially around the major intersections.

## B) Environmentally Sensitive Areas

### 1. Historic Resources

In the mid-1990s a historic resources inventory was completed for Forsyth County. The Historic Resources Survey Report identified 490 historic resources in unincorporated Forsyth County. Of these, 44 historic sites were located in the Chestatee subarea, and 7 of these have the potential for listing on the National Register of Historic Places.

Figure 2  
Chestatee Existing Land Uses



## 2. Water Resources

Lake Lanier, the primary reservoir for the Atlanta region, makes up the eastern boundary of the Chestatee subarea. In addition, there are a number of creeks and streams that drain into Lake Lanier. There are 786 acres of 100-year floodplains around the lake and its tributaries in the Chestatee subarea. Development is regulated in this area by the Federal Emergency Management Agency, the Georgia Floodplain Management Program of DNR and by local ordinances.



The Chestatee subarea includes a large groundwater recharge area extending from the intersection of SR 53 and SR 306 eastward to GA 400. Significant recharge areas have been mapped by the Georgia Department of Natural Resources at the state level. If a significant recharge area is identified, the local government must comply with the Official Code Georgia Annotated 12-2-8. This Code outlines restrictions on locating landfills and hazardous waste facilities, above ground chemical or petroleum storage tanks, agricultural waste, impoundment sites, septic tank drain fields, slow rate land treatment, storm water infiltration basins, and waste treatment basins. The portion of this groundwater recharge area that falls within the Chestatee subarea totals 3,360 acres.

## 3. Steep Slopes

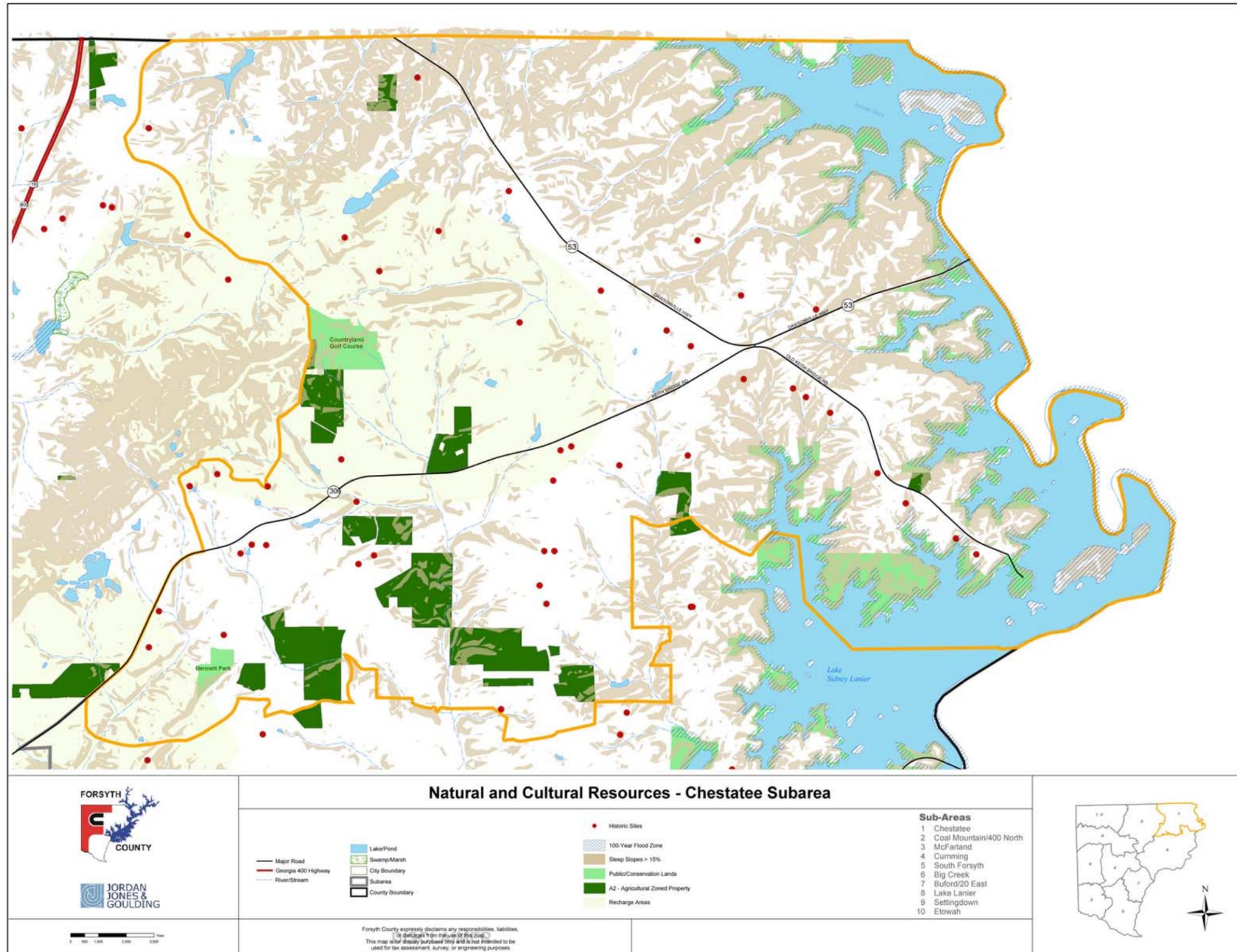
The majority of land with steep slopes (exceeding 15% grade) is concentrated along the shores of the lake and are located north of SR 53. Other less concentrated areas of steep slopes can be found along the creeks and streams that feed the lake. Where slopes are greater than 15 percent, greater care must be taken to control erosion and sedimentation and developing the land is more expensive and often cost prohibitive.

## 4. Conservation & Park Lands

Conservation and park lands in the Chestatee subarea are primarily associated with the U.S. Army Corps of Engineers property that surrounds the lake. The other park land in the area includes a golf course located north of SR 306 and Bennett Park in the southwest corner of the subarea. Created in 1978, Bennett Park was the first park in the County and included 19 total acres. After two expansions, the park includes 30 acres. Facilities include five youth baseball/softball fields, one football field, two tennis courts, a playground and a picnic pavilion.

The locations of the natural and cultural resources in the Chestatee subarea are shown on the map included as **Figure 4**.

Figure 4  
Chestatee Natural and Cultural Resources



## C) Historic Development Patterns

### 1. Demographics

Prior to the construction of Lake Lanier in the 1950s, the northeast corner of Forsyth County was like many other rural areas of northeast Georgia. Land uses included mostly agricultural and undeveloped land, with only a few homes. After Lake Lanier was created, small vacation cottages began to spring up around the lake, but the landscape of the Chestatee subarea remained rural. During the 1980s and 1990s, residential subdivisions were developed near the lake and also near SR 306 and SR 53, due to the proximity of GA 400. In 2000, the Census recorded 5,347 residents in the Chestatee subarea. This is an increase of 91 percent since 1990. Despite this large increase, this part of the County remains one of the least populated areas of Forsyth County. Only the Etowah subarea in northwestern Forsyth County has a smaller population. The population density for the Chestatee area is also one of the lowest in the County with 118 people per square mile. Only the Etowah and Coal Mountain areas have fewer people per square mile. The highest population density is in the South Forsyth subarea, with 373 people per square mile.



*Mix of housing near Lake Lanier*

The Chestatee subarea is 98 percent white, but did add 150 minority residents during the 1990s. The age distribution figures indicate the majority of residents in this area are 30-49 years of age with children between the ages of 5 and 17. Also, the number of residents 50 to 64 years of age has increased significantly since 1990, totaling 454 in 2000. **Figure 5** provides a comparison of the demographic statistics for the area for 1990 and 2000.

The number of housing units in the Chestatee subarea has increased significantly during the 1990s. In 1990, there were 1,201 housing units and by 2000 the number of units increased to 2,224, an 85.1 percent increase. During the 1990s the vacancy rate remained essentially unchanged, dropping slightly from 13 percent to 12 percent. The housing units in this area are overwhelmingly owner-occupied, with 85 percent being owner-occupied and 15 percent renter occupied units. These occupancy percentages are almost identical to the 1990 figures.

**Figure 5**  
**Chestatee Subarea Demographics**  
**1990 – 2000**

	1990	2000	Percent Change
Total Population	2,797	5,347	91.2%
<b><i>Racial and Cultural Distribution *</i></b>			
White	2,785	5,231	87.8%
Black or African American	0	3	300.0%
Asian	7	11	52.0%
Hispanic or Latino, regardless of race	28	136	389.5%
<b><i>Age Distribution</i></b>			
Under 5	211	408	93.4%
5 to 17	512	1,026	100.5%
18 to 21	173	265	53.1%
22 to 29	357	584	63.4%
30 to 39	505	960	90.2%
40 to 49	412	858	108.4%
50 to 64	387	792	104.5%
65 and over	268	454	69.4%
<b><i>Housing</i></b>			
Total Units	1,201	2,224	85.1%
Occupied	1,041	1,959	88.1%
Vacancy Rate	160 (13.3%)	265 (11.9%)	65.8%
Owner Occupied	902	1,665	84.7%
Renter Occupied	140	294	110.3%
* Note: The racial and cultural distribution numbers total to a sum larger than the total population. Hispanic is a cultural descriptor and is not exclusive of race.			

## 2. Development Activity

The large majority of land consumption that has occurred in the Chestatee subarea is from residential development. It is estimated that since 1990 approximately 1,023 acres have been developed for residential use in this area. Even with this large increase in developed acres, it is estimated there are still nearly 7,000 acres that could be developed in the Chestatee subarea.

One of the tools the JJJ team used to evaluate development activity in the



County is the occurrence of Developments of Regional Impact (DRIs) since 1990. A DRI review is required by law to be completed for large-scale developments that are likely to have impacts outside of the jurisdiction(s) where they are located. The Georgia Planning Act of 1989 authorized the Department of Community Affairs (DCA) to establish procedures for intergovernmental review of these large-scale projects. More than 40 DRI reviews have been completed in Forsyth County since 1990, but none within the Chestatee subarea.

## D) Future Development Trends

### 1. Future Infrastructure

One of the primary drivers of development is the provision for public infrastructure, particularly sewer and roads. The availability of sewer allows for higher density land uses such as apartments or small-lot subdivisions (less than one-half acre lots). Roads are also primary drivers of change because they provide access to desired destinations, such as jobs and shopping. Better access leads to a higher land value and a greater likelihood of high-density uses.

Currently, the Chestatee subarea is lacking both the provision of sewer and adequate roads. Sewer is not available in the subarea, and although the area is near GA 400, none of the major routes linking to the highway are wider than two lanes. There are long range plans to provide sewer in the area, and to widen both SR 306 and 53. These improvements are long-term (beyond 10 years), so the impact of their construction on land use patterns is not immediate.

The County is currently working on a Sewer System Master Plan that should be approved by the end of 2003. The Chestatee Subarea is in the Lake Lanier drainage basin. Because of the topography of this basin, it is very difficult to provide sewer service. However, due to the threat of contamination from so many septic systems in close proximity to Lake Lanier, a plan was developed to provide sewer service to the Chestatee area by 2025.

One of the strongest influences on the future development of the Chestatee subarea will be continued expansion of the Atlanta urbanized area. Over the last ten years, the southern

half of the County has experienced intense development pressure, and this pressure is moving northward along either side of GA 400. Because of this growth pressure, the Chestatee area is likely to see more development in those areas closest to GA 400.



## 2. Transitional Areas

There are still large tracts of available land for development in the Chestatee subarea, so the likelihood of redevelopment is small. Generally, it is more expensive to tear down or renovate existing structures compared to constructing new, so as long as land is available with the same locational benefits as existing structures, new construction is likely to locate on vacant land.

The one major exception to this in the Chestatee subarea is the aging residential structures along Lake Lanier. There are several small vacation homes and manufactured homes close to the lake that are prime candidates for redevelopment. The value of lake front property has been rising steadily over the past ten years, as new residents have been moving into the County. Consequently, it is not unusual to find older manufactured homes located next to a newly constructed high-end single-family home near the lake. It can be expected that over time, most of these older manufactured and small vacation houses will be replaced with new construction. As this transformation takes place, these smaller non-conforming lots will have to be brought up to existing County standards.



## 3. Current Land Use Policies

The 2015 Future Land Use map for the Chestatee subarea identifies over 80 percent of the area to be developed as large-lot single-family houses. Current land use policy was analyzed by examining the primary tools of land use including the Unified Development Code and the Land Use Element of the Comprehensive Plan. The JJG team also examined the current zoning and Future Land Use maps to determine any implications that might arise from those elements.

In order to achieve the future land uses that are envisioned in the 2015 Comprehensive Plan, land would have to be re-zoned in the County. Rezoning would have to occur not only within land use categories, but land would have to be rezoned into entirely different categories. **Figure 6** shows the amount of land that would have to be rezoned to provide consistency with the 2015 Future Land Use map.

**Figure 6  
Chestatee Rezoning to Match the 2015 Land Use Plan**

		Future Land Use Category					
		4%	95%	0%	0%	1%	
		Conservation and Park	Single Family Residential	Office/ Institutional	Industrial	Commercial	
Current Zoning Category	78%	Agriculture	1%	76%	<1%	<1%	<1%
	20%	Single-Family Residential	3%	18%			
	1%	Industrial		<1%		<1%	<1%
	1%	Commercial		<1%		<1%	<1%

\* Note: Conservation and park land can be associated with any zoning category.

-  Indicates that a rezoning is not required to be consistent with the future Land Use Plan
-  Indicates potentially difficult rezoning
-  Indicates rezoning that might be challenging
-  Indicates potentially easy rezoning

Figure 6 above shows the amount of land within the Chestatee subarea that is intended for conversion from a current zoning category (rows) to a future land use category (columns). Individual cells of the table are currently zoned within a particular category (shown by the row) and intended for a particular future land use category (shown by the column). Percentages within each cell indicate the percentage of total land area that is categorized by a particular zoning category/future land use category combination.

The colored areas of the chart indicate land that is currently intended for a future land use that is different from the way the land is currently zoned. At the present time, only approximately 18% of the Chestatee subarea is intended to perform the same use as it is currently allowed by zoning (shown by the white areas). To achieve the land uses shown in the current future land use map, 82% of the land will require significant rezonings. Areas shown in red represent required “downzonings”, zoning changes that are traditionally difficult to perform because they further restrict the use of the land. This comprises approximately 5% of the subarea. Areas shown in green represent required “upzonings”, zoning changes that are traditionally easier to perform because they generally increase the allowable uses of the land. This comprises approximately 77% of the subarea.

Approximately 76% of the Chestatee subarea is currently intended to be moved from agricultural zoning to single-family residential use. Although the current land use regulations allow residences on land zoned agricultural, this represents a significant conversion of the land’s purpose.

One deficiency in land use policy is the treatment of agricultural lands. Currently, 78 percent of the land area in the Chestatee subarea is zoned for agricultural use, by far the most extensive zoning in the subarea. However, there is no future land use designation for agriculture. This is particularly notable with the existence of the A2 zoning classification that appears to foster the future use of land for agriculture. Most of the current agricultural land

appears in the 2015 Future Land Use map as intended for residential use. This represents a large and significant land conversion, and a major loss of open space.

The lack of specificity with regard to future commercial land use should also be examined. Currently, there is only one broad land use category to designate commercial uses (“commercial”). However, the Unified Development Code allows commercial districts of all types including: Neighborhood Shopping (NS), Urban Village (UV), Central Business District (CBD) and Office Commercial Multi-Story District (OCMS). These are vastly different types of commercial activities, and range in intensity of use from floor area ratios of 0.46 for Neighborhood Shopping districts to 5.50 for Office Commercial Multi-Story. In order to be effective, the Future Land Use map should include several designations for commercial uses of different intensities and functions. In addition, there is no land use designation for mixed-use districts, which are conditionally allowed in several of the existing zoning districts (such as Office Residential – OR).

Over the next 10 to 20 years, the Chestatee area is likely to experience a rapid increase in population. Employment opportunities are likely to take the form of retail and service oriented businesses catering to the needs of future homeowners. The eventual form and density that this future development will take is strongly dependent on the provision of sewer and road improvements. There are no immediate plans now to extend sewer into the area, but the investment in new roads will increase property values and lead to further market interest in single-family residential development.

## E) Trend Scenario

### 1. Methodology

As part of the JJG team’s examination of current land use policies and their potential impacts, an analysis of current development trends for the Chestatee subarea was performed. It was based upon the existing Future Land Use map, rezoning history, and real estate market preferences. This analysis had no specific time horizon. It is intended to gain an understanding of the ultimate impact of future development, if such development follows existing trends and is guided by existing land use policy.

In order to accomplish this analysis, the JJG team made several assumptions including:

- ◆ Areas that are designated as having future land uses that are different from their existing land uses will be redeveloped;
- ◆ Existing structures that are non-conforming with respect to their current zoning will be redeveloped in a way to bring them into conformance;
- ◆ Future development within broad land use categories (for example, “Commercial”) will consist of a mix of uses and intensities that mirrors the county-wide proportions of land that is currently zoned within that category;
- ◆ Future development restrictions (for example, minimum lot sizes, maximum floor-area-ratios) will be based upon those that are currently expressed in the Unified Development Code;
- ◆ “Density shifting” to accommodate land lying within flood plains will continue to be permitted. In other words, parcels that contain part of their land within flood plains

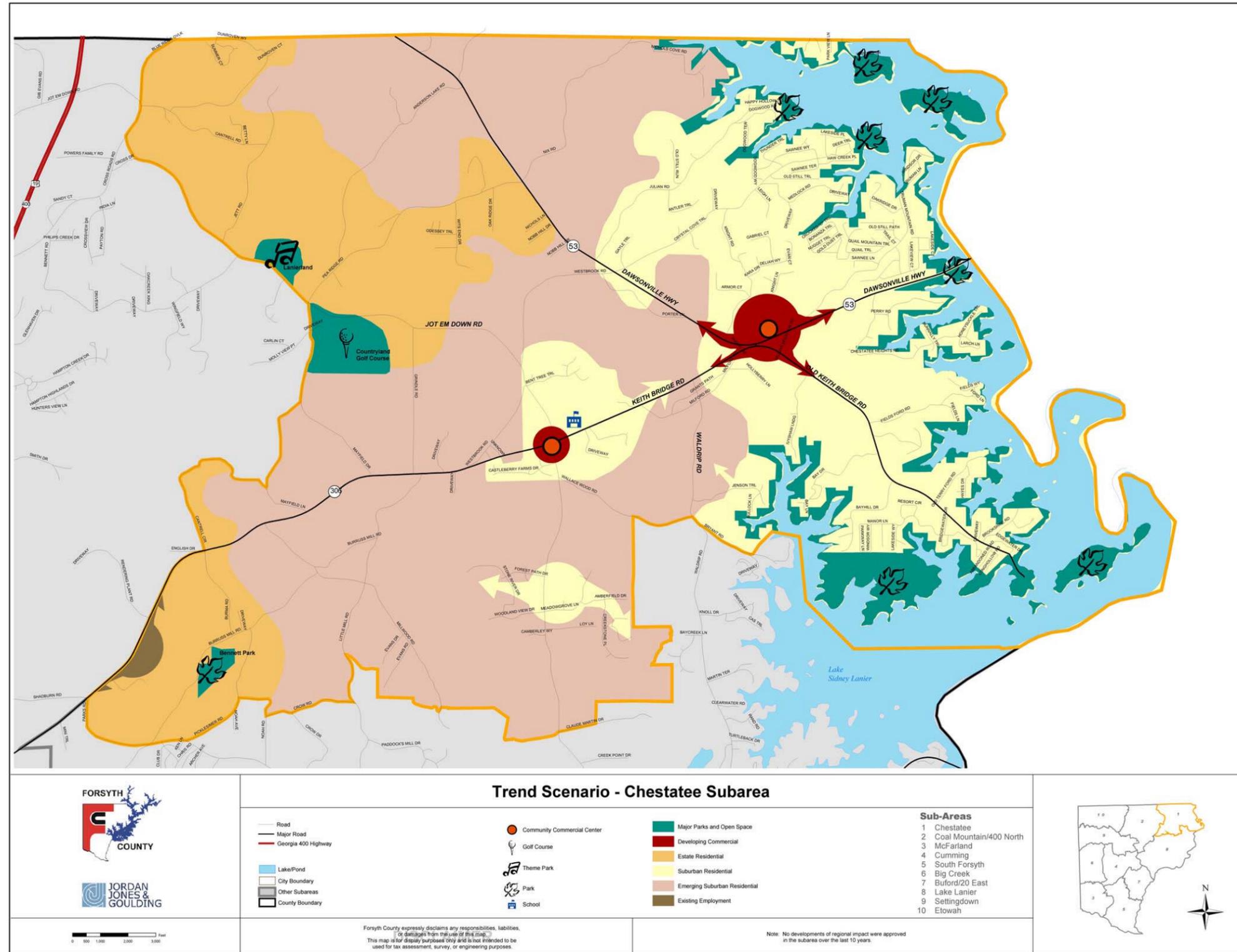
- will be allowed to develop at the maximum density permitted, based on the area of the entire parcel, not just the part that is outside the flood plain;
- ◆ Moderately sloping land (>15% but less than 30%) that is designated residential, will eventually be developed; and
  - ◆ Sewer and water services will be extended to all areas that require them.

## 2. Trend Scenario Map

A Trend Scenario map was created in order to illustrate this future land use scenario and it is included on the following page as **Figure 7**. The future that this map indicates is not a given, but a likely scenario of how the area will develop over the next 20 years. It shows that existing residential developments will spread out and occupy almost the entire subarea, and the existing commercial nodes will similarly spread out along existing transportation routes.

The implications of this trend scenario include increased demands on public infrastructure, such as schools, water, sewer, roads, police and fire protection. It also indicates that the dramatic changes that the area has experienced over the past 10 years are only the beginning of additional changes for the area if current trends continue. The question that this planning exercise poses is one that the citizens of the Chestatee area have to answer, and that is “Is this the future that we envision for our community?”

Figure 7  
 Chestatee Trend Scenario Map



### III. Subarea Committee Recommendations

There were three meetings held from April to June 2003 to discuss the development of a land use plan for the Chestatee subarea. A list of the meeting dates can be found in the **Appendix**. At the first two meetings the inventory of existing conditions for the subarea was presented, and the participants were asked to help craft a vision for the subarea. At the third meeting, a draft land use plan map was presented along with the draft vision and participants were asked to fill out comments cards, which were presented to the subarea committee for discussion and review. The result of this meeting was a revised land use plan map and a list of policy recommendations that the subcommittee would like to present to the Countywide Land Use Steering Committee for possible inclusion in the county's Comprehensive Plan. The results of these meetings are presented below.

#### A) Chestatee Subarea Vision

- The Chestatee subarea will primarily be a residential community with a rural character.
- Lake Lanier will continue to be a valuable asset that provides recreational opportunities for local residents and visitors.
- Convenient access to commercial services will be located around two nodes on SR 306. One located at Jot-Em-Down Road and the other at Dawsonville Highway. These commercial nodes could contain some county offices and a postal facility.
- A network of greenways will run throughout the subarea with passive parks and connected trails.
- Maintenance of the area's rural atmosphere and protection of Chestatee's clean environment will be partially accomplished by prohibiting additional heavy industry and limiting new light industry to the existing industrial area in the southwest portion of the subarea.

#### B) Policy Recommendations

- The County needs to prepare a Greenway Master Plan that includes connected greenways throughout the County. Existing natural features such as stream banks and groundwater recharge areas could be utilized.
- The County should provide incentives to retain small farms and agricultural related businesses.
- Prepare a feasibility study on Transfer of Development Rights (TDRs) countywide, in order to preserve open space.
- Need more land in public parks.
- Current Tree Ordinance needs to be strengthened, with a focus on preserving existing trees and requiring more trees in parking lots.
- The County needs to prepare a Water Conservation Plan.

- Install sidewalks, bike paths and trees along roads as they are improved.
- Widen existing stream buffers from 35 ft. to between 50 - 100 ft.
- Overall density of the area should not exceed 1 unit per acre.
- Limit industrial land uses to areas that would not disturb environmentally sensitive areas. Industry should only be clean and high tech.
- Developers should fund traffic studies for all residential developments.

## C) Chestatee Land Use Plan Map

The future land use plan is an extension of the goals and values of the community and a culmination of the subarea planning effort. This future land use map is intended to depict a 2025 future land use scenario. The acreages and percentages of each land use are compiled in **Figure 8** and a map showing the location of future land uses is included in **Figure 9**.

There are fourteen land use designations depicted on the future land use map, including three residential designations and six commercial/industrial/mixed-use designations. Below is brief definition of each.

**Low Density Residential** - This category is intended for single-family detached residential dwellings typically on septic sewer systems. Minimum lot size is 30,000 square feet, or the overall density is up to 1.5 units per acre. Institutional uses that are considered complimentary in this area include churches, schools, and libraries.

**Medium Density Residential** - Consists of single-family detached residential dwellings typically on sewer, with overall densities from 1.5 to 2.5 units per acre. Institutional uses that are considered complimentary in this area include churches, schools, and libraries. Private recreational uses, such as golf courses, tennis courts, walking trails and swimming pools are encouraged in these areas in developments greater than 50 lots.

**High Density Residential** - Typical uses include single-family detached and attached dwellings (such as townhouses) as well as multifamily condominiums and apartments, at densities of up to 6 units per acre. These developments should incorporate some amount of central outdoor public space for their residents. A limited number of churches, schools, libraries, other miscellaneous institutional uses and daycare facilities would be complimentary in these areas. An urban-density residential area is usually located near areas of high employment concentration, large commercial nodes, transportation nodes and mixed-use developments. It is essential that these developments include proper buffering between adjacent land uses.

**Office Transitional** - The Office Transitional category is intended to allow for the redevelopment or transition of residential uses along major roadways to office professional uses. It also allows for new office development that is constructed in a manner consistent and in keeping with the surrounding residential uses. The physical character and design of proposed new structures should be compatible with existing establishments. This category includes small single occupant structures for doctors and or accountants, as well as larger offices with multiple tenants. Businesses that are allowed in this category may provide a

product directly to customers on the premises as an accessory to the service, but do not, as a primary activity, involve the manufacture, storage, or distribution of products. These areas should provide employment opportunities in close proximity to residential areas while providing a transition between the more intense commercial areas and residential neighborhoods.

**Neighborhood Commercial** - This category includes a limited range of retail and service activities to serve the everyday needs of local residents. Limitations should apply to both size and character of individual establishments. The basic character of this category is one that encourages and assures a compatible mixture of residential, office and retail types of land uses. Businesses in this land use category should be designed to encourage the development of neighborhood scale shopping that offers both goods and products, and the furnishing of selected services.

**General Commercial** - This category includes standard retail and commercial service activities such as shopping centers, general retailers, specialty shops, grocery stores, drug stores, banks, restaurants, theatres, hotels, dry cleaners and entertainment facilities. These establishments should be located on appropriate transportation corridors to easily serve the public. Visual impacts of these developments should be minimized by requiring buffers, landscaping, and architectural controls.

**Activity Center** - The Activity Center land use category includes commercial, entertainment, limited residential, and public/institutional land uses typically found in a central business district. The commercial business district (CBD) and urban village (UV) zoning classifications are considered appropriate for developments proposed within the Activity Center classification. Developments within the Activity Center classification may be encouraged to consider additional zoning classifications, based on future revisions to the Forsyth County Unified Development Code. The types of uses that are desirable in this area would be restaurants, specialty retail, governmental offices, low-intensity offices (e.g. accountant or real estate office) and appropriate parking. Uses should be complemented with walking, biking and transit opportunities to provide alternative modes of transportation. Also, any roadway improvements that are considered for this area should carefully consider the scale of the area. Residential uses shall be considered accessory and limited to townhouses or apartments mixed into the commercial establishments. Commercial uses must be developed or present first in comparable scale before residential uses can be permitted for construction.

**Corridor Commercial** - The Corridor Commercial category is intended to focus on major transportation corridors, which presently contain a mix of agricultural, residential, commercial, and industrial land uses. Such corridors are unlikely to experience small scale, low or medium density residential development over the course of the planning period.

Developments within the corridor commercial classification will focus on land uses of varying intensity that will allow for the appropriate transition between high-intensity development abutting the transportation corridor as well as provide for a continued decrease of intensity as the development moves away from the transportation corridor. The physical character and design of proposed developments should be compatible with surrounding

uses. Inter-parcel connectivity and side street access should be encouraged to minimize curb cuts and improve traffic flow.

Typical uses include standard retail and commercial service activities such as shopping centers, general retailers, specialty shops, grocery stores, drug stores, banks, restaurants, theatres, hotels, dry cleaners, entertainment facilities, multiple tenant offices, small single occupant structures, and entrances to residential subdivisions located outside the corridor commercial designation. The transitional nature of the category should be supported through the use of buffers, landscaping, and architectural controls to minimize the impacts on lower intensity land uses.

**Industrial** - The primary purpose of this category is to provide for areas where light industrial uses can be located. These light industrial uses include light manufacturing, warehousing, wholesale/distribution and assembly. More intensive industrial uses that are characterized by noise, fumes, vibration and other forms of pollution that might be viewed as objectionable by surrounding uses are acceptable only on a case-by-case basis if well screened and buffered from other uses. Limited commercial uses are also allowed in industrial areas if they compliment existing industrial uses, such as cafeterias and day cares.

**Public / Institutional** - Includes uses such as schools, colleges, hospitals, municipal community centers, churches, cemeteries, municipal buildings and post offices.

**Public Park** - This category includes land dedicated to active and passive recreation uses. These areas are publicly owned and may include sports fields, recreation areas, greenways, and similar uses.

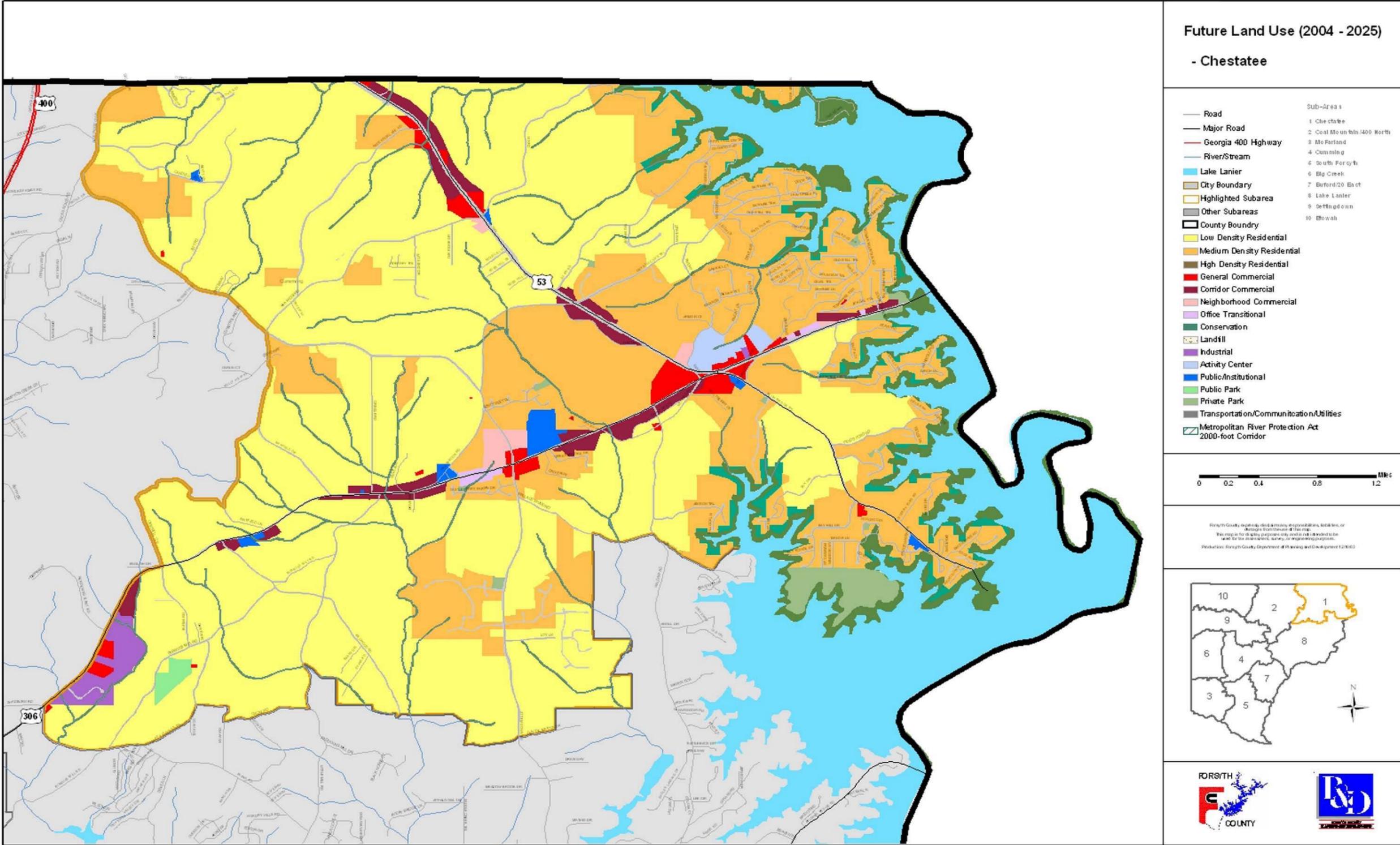
**Private Park** - Privately owned land that is used for active and passive recreation. This may include subdivision amenities areas, golf courses and Army Corps of Engineers recreation areas.

**Conservation** - This classification includes environmentally sensitive areas that are regulated at the local and state levels. Areas included in this category are the 35 ft. buffer along all county streams, a 100 ft. buffer along the Etowah River and land that is part of the 100-year floodplain of local waterways. This land has the potential to be used as public greenways or multi-purpose paths. Land classified as Conservation alerts government officials and property owners to the presence of environmental conditions that shall be factored into the rezoning and permitting process.

**Transportation / Communication / Utilities (TCU)** - This category includes such uses as landfills, water treatment plants, wastewater treatment plants, power substations, rail yards, mass transit facilities, airports, etc. These uses may be either public or private.

<b>Land Use</b>	<b>Acres</b>	<b>Percent</b>
Low Density Residential	7,805	57.8%
Medium Density Residential	3,443	25.5%
Road Right-of Way (TCU)	625	4.6%
Conservation (Lake Lanier US Corps land only)	617	4.6%
Private Park	285	2.1%
Corridor Commercial	242	1.8%
General Commercial	155	1.1%
Industrial	104	0.8%
Public/Institutional	67	0.5%
Activity Center (Commercial)	57	0.4%
Neighborhood Commercial	54	0.4%
Public Park	28	0.2%
Office-Transitional	19	0.1%
High Density Residential	0	0.0%
<b>Chestatee Total Land Acreage</b>	<b>13,501</b>	<b>100.0%</b>

Figure 9  
 Chestatee 2025 Future Land Use Plan



# Appendix

## **A. Chestatee Subarea Advisory Committee**

Charles Cantrell  
Captain Mark Hoffman  
John Heard  
Anne White  
Hilda Thomas

## **B. Meeting Dates**

Chestatee Subarea Public Visioning Workshop – April 24<sup>th</sup> at 5:30 PM in the Chestatee Community Building

Chestatee Subarea 2<sup>nd</sup> Public Visioning Workshop – May 22<sup>nd</sup> at 6:30 PM in the Deer Creek Shores Presbyterian Church

Chestatee Subarea Advisory Committee Meeting- June 5<sup>th</sup> at 6:30PM in the Chestatee Community Building

Forsyth County  
Comprehensive Plan

Coal Mountain/400 North Subarea  
Land Use Report

September 25, 2003



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# I. Introduction

## A) Purpose

In preparing the 2003 Update to the Forsyth County Comprehensive Plan, the County initiated an ambitious public involvement process. In order to better analyze the County's needs and elicit a higher degree of community participation, the county was divided into ten planning subareas (**Figure 1**) with individual committees established to develop specific land use policies and a future land use map for their subarea. The subarea boundaries were determined by a variety of factors including: physical barriers, historical communities, economics and transportation corridors.



This information was gathered to help enable the community to look at where they are today, how they got there and where they want to go in the future. Included in this document are the findings from the land use inventory and assessment for the Coal Mountain/400 North subarea, as well as the recommendations of the Coal Mountain/400 North Subarea Advisory Committee. The membership of the committee and the meeting dates can be found in the **Appendix**.

## B) Scope

The following report provides a current “snapshot” of the Coal Mountain/400 North subarea. First, a description of existing land uses in the subarea is provided, along with an existing land use map and summary table. This is followed by an inventory of environmentally sensitive areas. These two sets of information allow the community to identify those sections of the subarea that could potentially be developed in the future, as well as those areas that should be protected from development pressures.

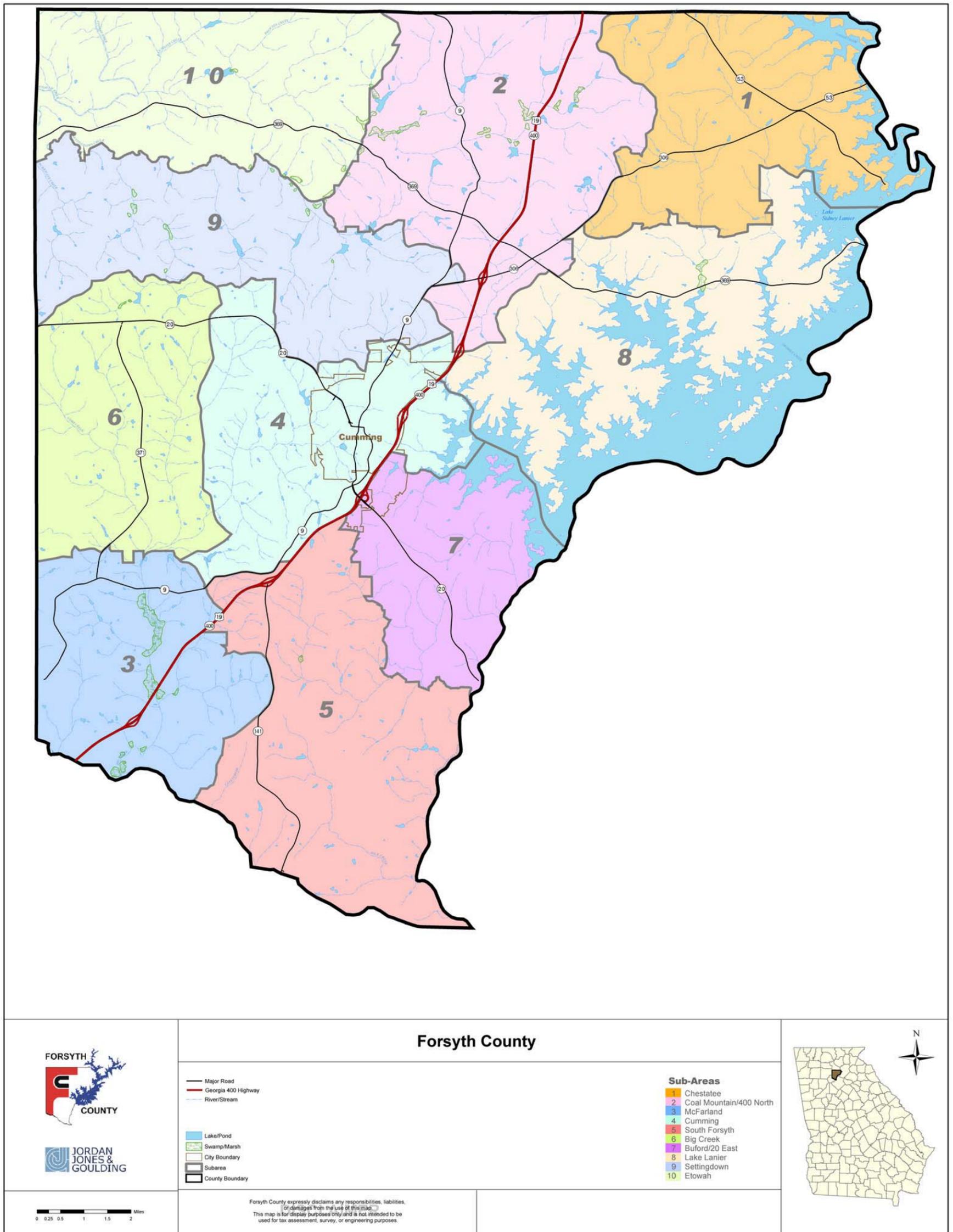
Following this inventory, there is an examination of the historic development patterns in the Coal Mountain/400 North subarea. This includes a discussion of demographic changes in the subarea between 1990 and 2000, as well as an estimate of land consumption during the last decade. There is also a summary of the historical factors that have led to the current development patterns.

An examination of future development trends is also provided. This includes an assessment of the future sewer and transportation infrastructure needs, as well as the identification of transitional areas that could potentially be redeveloped. Forsyth County's land use policies are also examined in order to determine what is allowed to develop under the current regulations. Finally, this report includes the subarea vision and policy recommendations developed by the Coal Mountain/400 North Subarea Advisory Committee, and a copy of the future land use map for the subarea.

## C) Location

The Coal Mountain/400 North subarea is located in north central Forsyth County. GA 400 cuts through this subarea from south to north. The general boundaries include Dawson County to the north, the Settingdown and Cumming subareas to the south, the Etowah subarea to the west, and the Chestatee and Lake Lanier subareas to the east.

Figure 1  
Forsyth County Subarea Locations



## II. Inventory of Existing Conditions

### A) Description of Existing Land Uses

A comprehensive land use survey was conducted for Forsyth County in the Summer of 2002 using tax parcel maps, aerial photographs and field review. In April 2003, the results of the survey were verified by a second field review. These land uses are shown on **Figure 2** on the following page and summarized in **Figure 3** below.

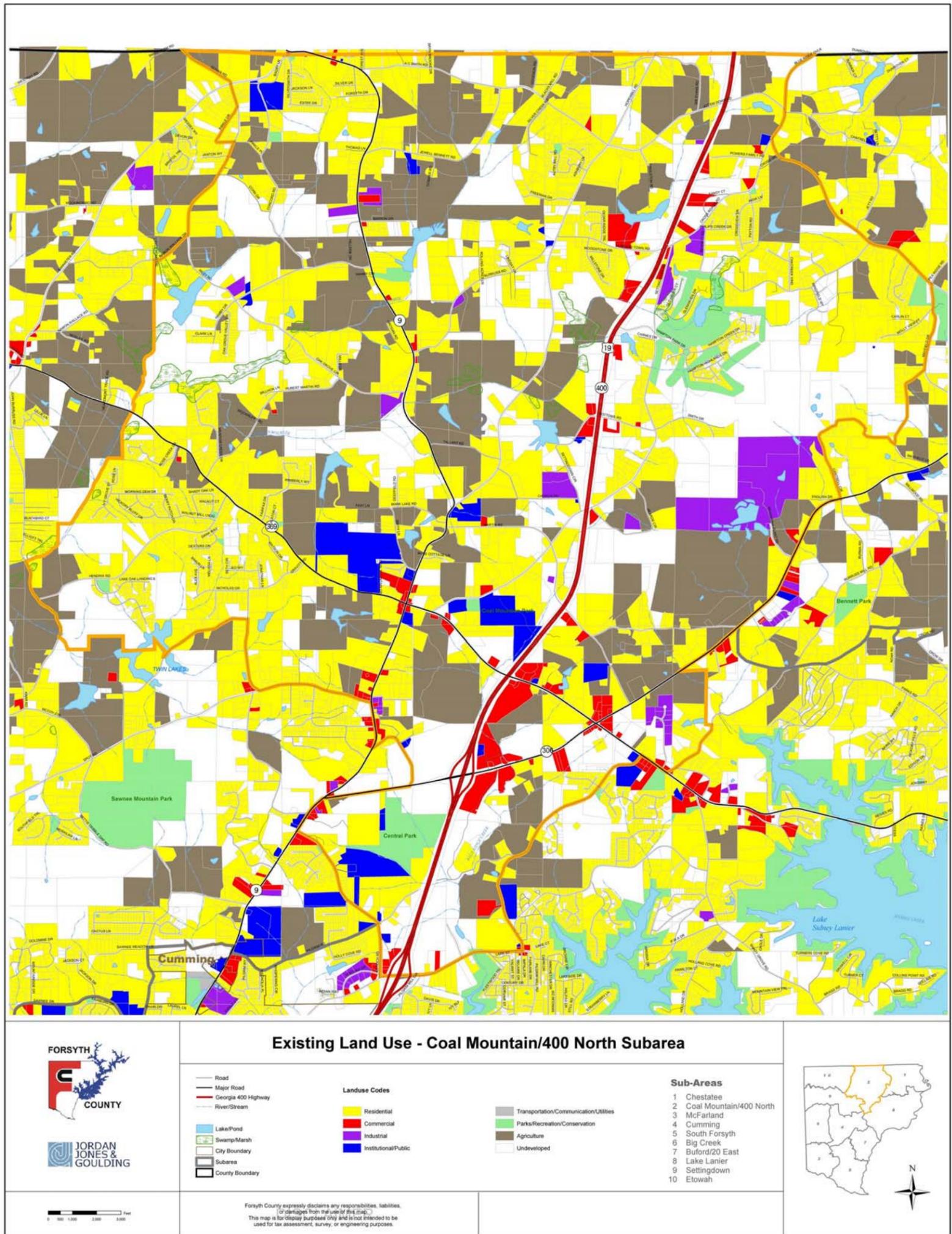
**Figure 3**  
**Coal Mountain/400 North Subarea Land Use: 2003**

Land Use	Acres	Percent
Residential	6,988.34	36.19%
Undeveloped	5,036.61	26.08%
Agriculture	4,478.48	23.19%
Road Right-of-way	1,141.99	5.91%
Parks/Recreation/Conservation	456.56	2.36%
Industrial	451.26	2.34%
Commercial	410.34	2.12%
Institutional/Public	347.55	1.80%
<b>Coal Mountain Total</b>	<b>19,311.12</b>	<b>100.00%</b>
Total Sq. Miles for Sub Area	30.2	--

As indicated in the table above, the largest land use category in the Coal Mountain subarea is residential land, comprising 36 percent of the subarea. Most of the residential land is distributed evenly throughout the subarea. There is a slight concentration of residential development in the southwest corner of the subarea. The second largest category is undeveloped land, which makes up 26 percent of the subarea. Next is agricultural land, accounting for 23 percent of the land area. Both undeveloped and agriculture land are distributed evenly throughout the subarea.

The remaining land uses make up less than 15 percent of the total area. These uses include right-of-way, commercial, industrial, public/institutional and parks/recreation/conservation land. Generally, the commercial uses are concentrated along GA400, especially around the major intersections. With the exception of one large parcel in the east, industrial land use is limited to a few small parcels.

Figure 2  
Coal Mountain/400 North Existing Land Use



## B) Environmentally Sensitive Areas

### 1. Historic Resources

In the mid-1990s a historic resources inventory was completed for Forsyth County. The Historic Resources Survey Report identified 490 historic resources in unincorporated Forsyth County. Seventy-five (75) of these historic sites were located in the Coal Mountain subarea, and four (4) of these have the potential for listing on the National Register of Historic Places.

### 2. Water Resources

There are 937 acres of 100-year floodplains in the Coal Mountain subarea. Development is regulated in this area by the Federal Emergency Management Agency, the Georgia Floodplain Management Program of DNR and by local ordinances.

Of the 33,593 acres of groundwater recharge in Forsyth County, almost one-quarter is located in the Coal Mountain subarea. Groundwater recharge areas are any portions of the earth's surface where water infiltrates into the ground to replenish an aquifer. An aquifer is a system of rock and bedrock that contains water. Significant groundwater recharge areas have been mapped by the Georgia Department of Natural Resources at the State level. If a significant recharge area is identified, then the local government must comply with the applicable state law (O.C.G.A. 12-2-8). This code outlines restrictions on siting landfills and hazardous waste facilities, above ground petroleum or chemical storage tanks, agricultural waste, impoundment sites, septic tank drainfields, slow rate land treatment, stormwater infiltration basins and waste treatment basins.

Two primary groundwater recharge areas are located in the Coal Mountain area and cover 7,417 acres. One groundwater recharge area covers the southern one-third of the subarea. This large recharge area crosses into the Settingdown, Chestatee, and Lake Lanier subareas. The second, smaller recharge area is located in the eastern portion of the subarea bordering the Lake Lanier subarea.

### 3. Steep Slopes

There are 3,072 acres of steep slopes (15% grade or greater) in the Coal Mountain subarea. The majority of steep slopes are concentrated in the eastern portion of the subarea on Coal Mountain. Where slopes are greater than 15 percent, greater care must be taken to control erosion and sedimentation and developing the land is more expensive and often cost prohibitive.

### 4. Conservation & Park Lands

There are two parks in the Coal Mountain subarea. Central Park is located near the Intersection of GA400 and SR 306. The park has many amenities including a recreation center and frisbee golf course. Coal Mountain Park is located north of Central Park off of GA400. This 25-acre park has three baseball fields, a walking trail, and playground.



The locations of the natural and cultural resources in the Coal Mountain subarea are shown on the map included as **Figure 4**.

## C) Historic Development Patterns

### 1. Demographics

Similar to other parts of northern Forsyth County, this area has historically been characterized by farms, open land and single-family residences. Upon completion of GA 400, the area has become more attractive for residential subdivisions, primarily near GA 400 and along SR 369. The area has a large employment node along SR 306 that includes American Proteins, one of the County's largest employers. Also, there are two emerging commercial nodes, the intersection of GA 400 and SR 306 and the intersection of SR 306 and SR 369.

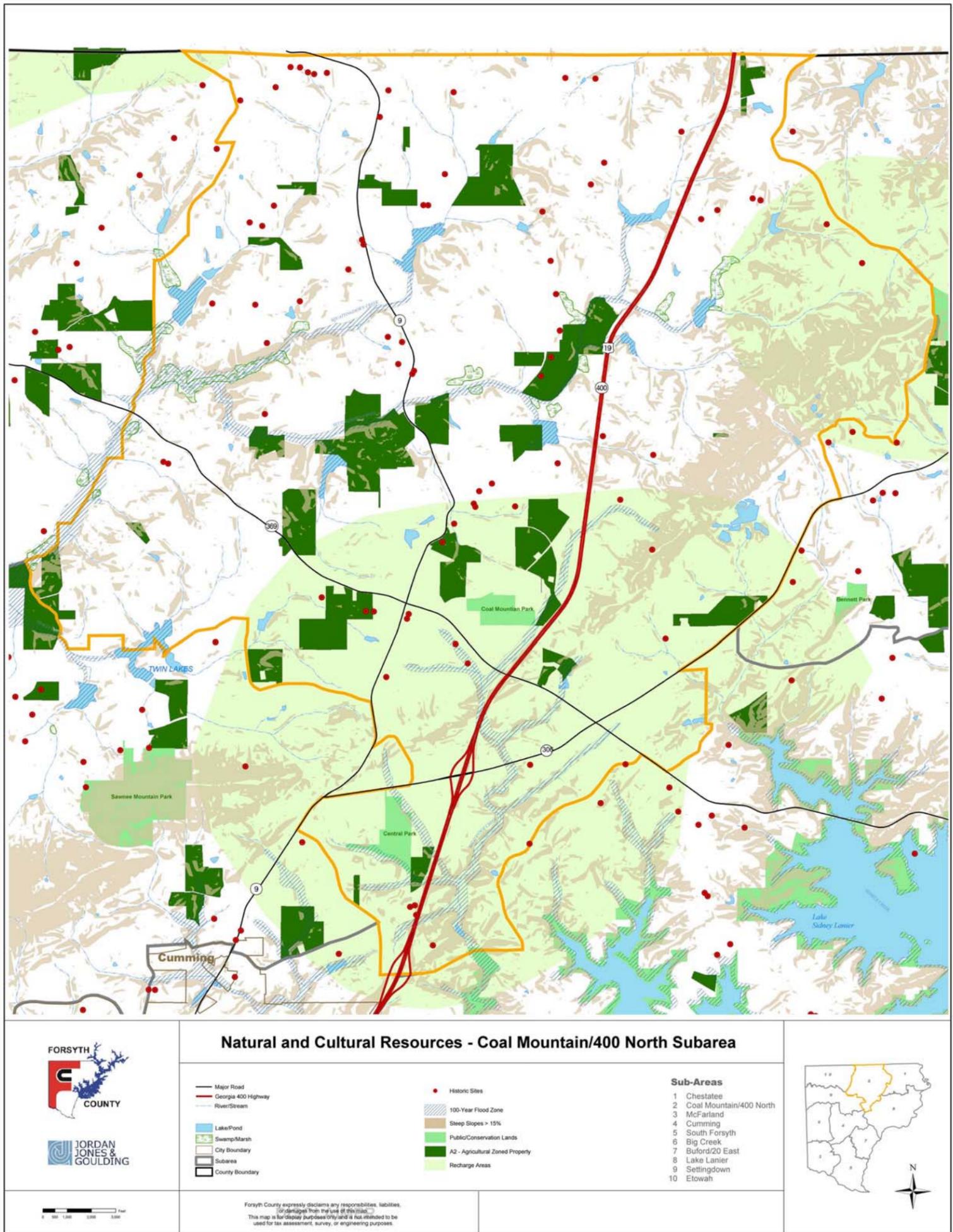
The Coal Mountain/400 North subarea is well connected with roadways including GA 400, SR 369 and SR 306. GA 400 is a four-lane divided highway with limited access from the Fulton County line north to its interchange with SR 306. From that point northward, GA 400 has several at-grade road crossings. SR 369 and SR 306 within this subarea area were historically farm to market roads, but these routes are now serving commuters and other regional traffic moving across north Georgia.

In 2000, the population of the Coal Mountain/400 North subarea totaled 6,279. This is an increase of 57 percent since 1990. This area along with the Etowah and Chestatee subareas are the least populated areas of the County. The population density of the area is 209 people per square mile. Similar to total population, the Etowah and Chestatee areas are the only areas with fewer people per square mile, with 175 and 118 people respectively. In contrast, the highest number of people per square mile is in the South Forsyth subarea, with 701 people per square mile.

The Coal Mountain/400 North subarea is 98 percent white. However, during the 1990s the area added 103 Hispanic residents. The age distribution figures indicate the majority of residents in this area are 30-39 years of age with children between the ages of 5 and 17 ranking second. The largest increase in age distribution has been for the groups 5 and under and 50 to 64 years of age. **Figure 5** provides a comparison of the demographic statistics for the area for 1990 and 2000.

The number of housing units in the Coal Mountain/400 North subarea increased notably during the 1990s. In 1990, there were 1,579 housing units and by 2000 the number of units increased to 2,351, a 49 percent increase. During the 1990s the vacancy rate was cut in half, dropping from 8 percent in 1990 to 4 percent in 2000. The housing units in this area are largely owner-occupied, with 83 percent being owner-occupied and 13 percent renter occupied units. The number of owner-occupied units increased by 60 percent during the 1990s.

Figure 4  
 Coal Mountain/400 North Natural and Cultural Resources



**Figure 5**  
**Coal Mountain/400 North Subarea Demographics**  
**1990 – 2000**

	<b>1990</b>	<b>2000</b>	<b>Percent Change</b>
Total Population	3,989	6,279	57.4%
<b><i>Racial and Cultural Distribution *</i></b>			
White	3,972	6,171	55.4%
Black or African American	2	2	25.5%
Asian	4	9	134.7%
Hispanic or Latino, regardless of race	31	134	331.0%
<b><i>Age Distribution</i></b>			
Under 5	295	552	87.2%
5 to 17	759	1,158	52.5%
18 to 21	241	220	-8.8%
22 to 29	523	692	32.2%
30 to 39	716	1,265	76.7%
40 to 49	584	915	56.6%
50 to 64	532	988	85.6%
65 and over	369	489	32.6%
<b><i>Housing</i></b>			
Total Units	1,579	2,351	48.9%
Occupied	1,454	2,262	55.6%
Vacancy Rate	125	89	-28.8%
Owner Occupied	1,224	1,963	60.4%
Renter Occupied	230	299	30.0%
* Note: The racial and cultural distribution numbers total to a sum larger than the total population. Hispanic is a cultural descriptor and is not exclusive of race.			

## B) Development Activity

The large majority of land consumption that has occurred in the Coal Mountain/400 North subarea is from residential development. It is estimated that since 1990 approximately 600 acres have been developed for residential use in this area. Even with this large increase in developed acres, it is estimated there are still nearly 9,500 acres that could be developed in the Coal Mountain/400 North subarea.

One of the tools the JJG team used to evaluate development activity in the County is the occurrence of Developments of Regional Impact (DRIs) since 1990. A DRI review is required by law to be completed for large-scale developments that are likely to have impacts outside of the jurisdiction(s) where they are located. The Georgia Planning Act of 1989 authorized the Department of Community Affairs (DCA) to establish procedures for intergovernmental review of these large-scale projects. More than 40 DRI reviews have been completed in Forsyth County since 1990, with one of these located in the Coal Mountain/400 North subarea. Specifically, it is located southwest of the intersection of GA 400 and SR 369 (Browns Bridge Road). The development, known as

Bridgetown, will include a variety of housing types totaling 919 units and 72,000 square-feet of commercial space.

## D) Future Development Trends

### 1. Future Infrastructure

One of the primary drivers of development is the provision for public infrastructure, particularly sewer and roads. The availability of sewer allows for higher density land uses such as apartments or small-lot subdivisions (less than one-half acre lots). Roads are also primary drivers of change because they provide access to desired destinations, such as jobs and shopping. Better access leads to a higher land value and a greater likelihood of more intensive uses.

2002 Update of the County's Major Transportation Plan highlights the planned transportation improvements for 2005, 2010 and 2020 in the County. In the short-term (by 2010), road widenings are planned for SR 306 and SR 369. Additional short-term projects include a new road connecting Pilgrim Mill Road to SR 306 and improving the interchange of GA 400 and SR 306. Some of the long-range projects (beyond 2011) include widening GA 400 to six lanes, widening SR 369 west of GA 400 to six lanes and adding express bus service from the intersection of SR 369 and SR 306 south along GA 400.

Sewer is available in the subarea along GA 400 up to the GA 400/SR 369 intersection. Also, sewer service exists along SR 369 from GA 400 west to the intersection of SR 369 and John Burruss Road. The County is currently working on a Sewer System Master Plan that should be approved by the end of 2003. The Plan shows sewer service extended further north along GA 400 to the Dawson County line, as well as throughout much of the Coal Mountain area. These improvements are likely long-term, so the impact of their construction on land use patterns is not immediate.

One of the strongest influences on the future development of the Coal Mountain/400 North subarea will be continued expansion of the Atlanta urbanized area. Over the last ten years, the southern half of the County has experienced intense development pressure, and this pressure is moving northward along either side of GA 400. Because of this growth pressure, the Coal Mountain/400 North area is likely to see more development in those areas closest to GA 400.

### B) Transitional Areas

There are still large tracts of available land for development in the Coal Mountain subarea, so the likelihood of redevelopment is small. Generally, it is more expensive to tear down or renovate existing structures compared to constructing new, so as long as land is available with the same locational benefits as existing structures, new construction is likely to locate on vacant land.

One of the key transitional areas in the Coal Mountain subarea is located in a triangular shape, bounded by three intersections including GA 400/SR 306, GA 400/SR 369 and SR 369/SR 306. This area is currently made up of three commercial nodes that will be growing together in the future to form one large commercial node. Also, the GA 400 corridor is considered a transitional area as residential and commercial growth continues to spread northward up this fast growing corridor. Additional pressure will be placed on the undeveloped land that is located along GA 400 to be converted to commercial and higher-end residential uses.

### 3. Current Land Use Policies

The 2015 Future Land Use map for the Coal Mountain/400 North subarea identifies over 80 percent of the area to be developed as large-lot single-family houses. Current land use policy was analyzed by examining the primary tools of land use including the Unified Development Code and the Land Use Element of the Comprehensive Plan. The JJG team also examined the current zoning and Future Land Use maps to determine any implications that might arise from those elements.

A difference exists between the way land is currently zoned in Forsyth County and the 2015 Future Land Use map. In order to achieve the future land uses that are envisioned in the Comprehensive Plan, large amounts of land would have to be re-zoned. Rezoning would have to occur not only within land use categories, but significant amounts of land would have to be rezoned into entirely different categories. **Figure 6** on the following page shows the amount of land that would have to be rezoned to provide consistency with the 2015 Future Land Use map. For example, **Figure 6** shows that 74 percent of the land is zoned for agricultural use, but 45 percent of this land would need to be rezoned for single-family residential use to be consistent with the Future Land Use map.

The chart included as **Figure 6** shows the amount of land within the Coal Mountain subarea that is intended for conversion from a current zoning category (rows), to a future land use category (columns). Individual cells of the table are currently zoned within a particular category (shown by the row) and intended for a particular future land use category (shown by the column). Percentages within each cell indicate the percentage of total land area that is categorized by a particular zoning category/future land use category combination.

The colored areas of the chart indicate land that is currently intended for a future land use that is different from the way the land is currently zoned. At the present time, only approximately 15% of the Coal Mountain subarea is intended to perform the same use as it is currently allowed by zoning (shown by the white areas). To achieve the land uses shown in the current future land use map, 85% of the land will require significant rezonings. Areas shown in red represent required “downzonings” – zoning changes that are traditionally difficult to perform because they further restrict the use of the land. This comprises approximately 17% of the subarea. Areas shown in green represent required “upzonings” – zoning changes that are traditionally easier to perform because they generally increase the allowable uses of the land. This comprises approximately 66% of the subarea.

Approximately 62% of the Coal Mountain subarea is currently intended to be moved away from agricultural zoning, to a mixture of residential (54%), and other uses (8%). Twelve percent of land currently zoned agricultural is intended for conservation and/or park use (primarily flood plain). Although the current land use regulations allow single-family residences on land zoned agricultural, this represents a significant conversion of the land’s purpose.

Over the next 10 to 20 years, the Coal Mountain/400 North area is likely to experience a rapid increase in population. Employment opportunities are likely to take the form of retail and service oriented businesses catering to the needs of future homeowners. The eventual form and density that this future development will take is strongly dependent on the provision of sewer and road improvements. There are no immediate plans now to extend sewer into the area, but the investment in new roads will increase property values and lead to further market interest in single-family residential development.

**Figure 6**  
**Coal Mountain/400 North Rezoning to Match the 2015 Future Land Use Plan**

		Future Land Use Category						
			60%	11%	2%	10%	2%	
		Conservation and Park	Single Family Residential	Multi-Family Residential	Office/ Institutional	Industrial	Commercial	
Current Zoning Category	74%	Agriculture	12%	45%	9%	1%	7%	<1%
	19%	Single-Family Residential	2%	14%	2%	<1%	<1%	<1%
	1%	Multi-Family Residential		<1%			<1%	<1%
	2%	Industrial	<1%	<1%	<1%	<1%	<1%	<1%
	4%	Commercial	1%	<1%	<1%	<1%	2%	<1%

\* Note: Conservation and park land can be associated with any zoning category.

-  Indicates that a rezoning is not required to be consistent with the future Land Use Plan
-  Indicates potentially difficult rezoning
-  Indicates rezoning that might be moderately difficult
-  Indicates potentially easy rezoning

Another deficiency in land use policy is the treatment of agricultural lands. Currently, 74 percent of the land area in the Coal Mountain/400 North subarea is zoned for agricultural use, by far the most extensive zoning in the subarea. However, there is no future land use designation for agriculture. This is particularly notable with the existence of the A2 zoning classification that appears to foster the future use of land for agriculture. Most of the current agricultural land appears in the Future Land Use map as intended for residential use. This represents a large and significant land conversion, and a major loss of open space.

The lack of specificity with regard to future commercial land use should also be examined. Currently, there is only one broad land use category to designate commercial uses (“commercial”). However, the Unified Development Code allows commercial districts of all types including: Neighborhood Shopping (NS), Urban Village (UV), Central Business District (CBD) and Office Commercial Multi-Story District (OCMS). These are vastly different types of commercial activities, and range in intensity of use from floor area ratios of 0.46 for Neighborhood Shopping districts to 5.50 for Office Commercial Multi-Story. In order to be effective, the Future Land Use map should include several designations for commercial uses of different intensities and functions. In addition, there is no land use designation for mixed-use districts, which are conditionally allowed in several of the existing zoning districts (such as Office Residential – OR).

## E) Trend Scenario

### 1. Methodology

As part of the JJG team’s examination of current land use policies and their potential impacts, an analysis of current development trends for the Coal Mountain/400 North subarea was performed. It was based upon the existing Future Land Use map, rezoning history, and real estate market preferences. This analysis had no specific time horizon. It is intended to gain an understanding of the ultimate impact of future development, if such development follows existing trends and is guided by existing land use policy.

In order to accomplish this analysis, the JJG team made several assumptions including:

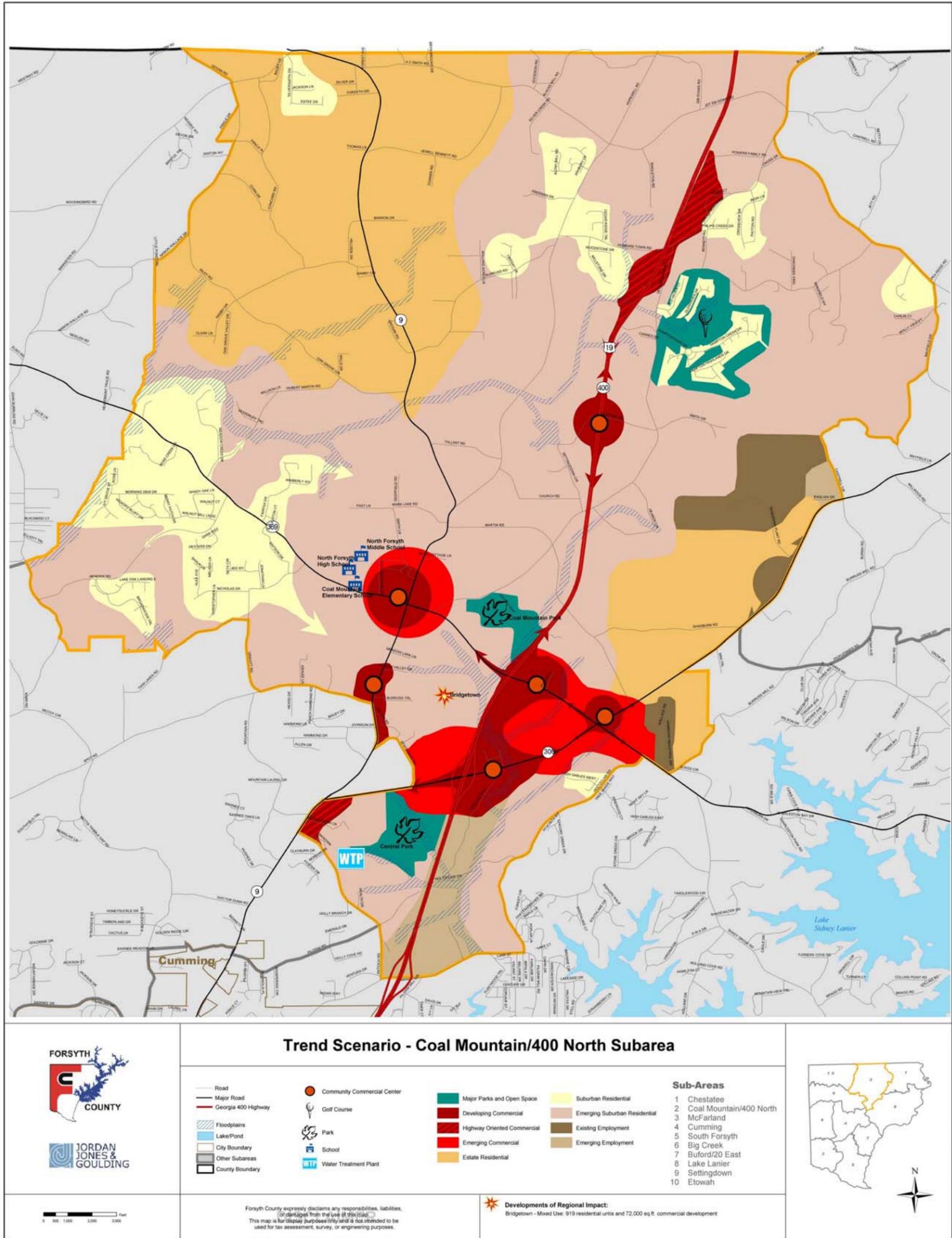
- ◆ Areas that are designated as having future land uses that are different from their existing land uses will be redeveloped;
- ◆ Existing structures that are non-conforming with respect to their current zoning will be redeveloped in a way to bring them into conformance;
- ◆ Future development within broad land use categories (for example, “Commercial”) will consist of a mix of uses and intensities that mirrors the county-wide proportions of land that is currently zoned within that category;
- ◆ Future development restrictions (for example, minimum lot sizes, maximum floor-area-ratios) will be based upon those that are currently expressed in the Unified Development Code;
- ◆ “Density shifting” to accommodate land lying within flood plains will continue to be permitted. In other words, parcels that contain part of their land within flood plains will be allowed to develop at the maximum density permitted, based on the area of the entire parcel, not just the part that is outside the flood plain;
- ◆ Moderately sloping land (>15% but less than 30%) that is designated residential, will eventually be developed; and
- ◆ Sewer and water services will be extended to all areas that require them.

## 2. Trend Scenario Map

A Trend Scenario map was created in order to illustrate this future land use scenario and it is included on the following page as **Figure 7**. The future that this map indicates is not a given, but a likely scenario of how the area will develop over the next 20 years. It shows that existing residential developments will spread out and occupy a large amount of the subarea, and the existing commercial nodes will similarly spread out along existing transportation routes. Also as previously mentioned, three commercial nodes will grow into one large commercial node in the SR 306 and GA 400 area.

The implications of this trend scenario include increased demands on public infrastructure, such as schools, water, sewer, roads, police and fire protection. It also indicates that the dramatic changes that the area has experienced over the past 10 years are only the beginning of additional changes for the area if current trends continue. The question that this planning exercise poses is one that the citizens of the Coal Mountain/400 North area have to answer, and that is “Is this the future that we envision for our community?”

Figure 7  
Coal Mountain/400 North Trend Scenario



### III. Subarea Committee Recommendations

There were two meetings held from May to June 2003 to discuss the development of a land use plan for the Coal Mountain/400 North subarea. A list of the meeting dates can be found in the **Appendix**. At the first meeting the inventory of existing conditions for the subarea was presented, and the participants were asked to help craft a vision for the subarea. At the second meeting, a draft land use plan map was presented along with the draft vision and participants were asked to fill out comments cards, which were presented to the subarea committee for discussion and review. The result of this meeting was a revised land use plan map and a list of policy recommendations that the subcommittee would like to present to the Countywide Land Use Steering Committee for possible inclusion in the county's Comprehensive Plan. The results of these meetings are presented below.

#### A) Coal Mountain/400 North Subarea Vision

- The Coal Mountain subarea will primarily be a residential community with a rural character.
- GA 400 will continue to be a valuable asset that provides connectivity to employment and shopping opportunities. Future commercial growth should be directed to this corridor.
- Convenient access to commercial services will be located around two activity centers. One adjacent to SR 306 and SR 369 and another located at the intersection of SR 369 and SR 9.
- A network of greenways will run throughout the subarea with passive parks and connected trails.
- The protection of Coal Mountain's clean environment will be partially accomplished by prohibiting additional heavy industry and limiting new light industry to appropriate locations near GA 400.

#### B) Policy Recommendations

- Update the Unified Development Code to reflect the Future Land Use Plan.
- The County needs to prepare a Greenway Master Plan that includes connected greenways throughout the County. Existing natural features such as stream banks and groundwater recharge areas could be utilized.
- Need more land in public parks.
- Prepare a Feasibility Study on Transfer of Development Rights (TDRs) countywide, in order to preserve open space.
- Link conservation subdivisions with conservation corridors.
- Need more conservation subdivisions.
- Overall density of the area should not exceed 1 unit per acre.
- Limit impervious surfaces and/or stormwater runoff in groundwater recharge areas.
- Have infrastructure in place in advance of rezonings.

#### C) Coal Mountain/400 North Land Use Plan Map

The future land use plan is an extension of the goals and values of the community and a culmination of the subarea planning effort. This future land use map is intended to depict a 2025 future land use

scenario. The acreages and percentages of each land use are compiled in **Figure 8** and a map showing the location of future land uses is included in **Figure 9**.

There are fourteen land use designations depicted on the future land use map, including three residential designations and six commercial/industrial/mixed-use designations. Below is brief definition of each.

**Low Density Residential** - This category is intended for single-family detached residential dwellings typically on septic sewer systems. Minimum lot size is 30,000 square feet, or the overall density is up to 1.5 units per acre. Institutional uses that are considered complimentary in this area include churches, schools, and libraries.

**Medium Density Residential** - Consists of single-family detached residential dwellings typically on sewer, with overall densities from 1.5 to 2.5 units per acre. Institutional uses that are considered complimentary in this area include churches, schools, and libraries. Private recreational uses, such as golf courses, tennis courts, walking trails and swimming pools are encouraged in these areas in developments greater than 50 lots.

**High Density Residential** - Typical uses include single-family detached and attached dwellings (such as townhouses) as well as multifamily condominiums and apartments, at densities of up to 6 units per acre. These developments should incorporate some amount of central outdoor public space for their residents. A limited number of churches, schools, libraries, other miscellaneous institutional uses and daycare facilities would be complimentary in these areas. An urban-density residential area is usually located near areas of high employment concentration, large commercial nodes, transportation nodes and mixed-use developments. It is essential that these developments include proper buffering between adjacent land uses.

**Office Transitional** - The Office Transitional category is intended to allow for the redevelopment or transition of residential uses along major roadways to office professional uses. It also allows for new office development that is constructed in a manner consistent and in keeping with the surrounding residential uses. The physical character and design of proposed new structures should be compatible with existing establishments. This category includes small single occupant structures for doctors and or accountants, as well as larger offices with multiple tenants. Businesses that are allowed in this category may provide a product directly to customers on the premises as an accessory to the service, but do not, as a primary activity, involve the manufacture, storage, or distribution of products. These areas should provide employment opportunities in close proximity to residential areas while providing a transition between the more intense commercial areas and residential neighborhoods.

**Neighborhood Commercial** - This category includes a limited range of retail and service activities to serve the everyday needs of local residents. Limitations should apply to both size and character of individual establishments. The basic character of this category is one that encourages and assures a compatible mixture of residential, office and retail types of land uses. Businesses in this land use category should be designed to encourage the development of neighborhood scale shopping that offers both goods and products, and the furnishing of selected services.

**General Commercial** - This category includes standard retail and commercial service activities such as shopping centers, general retailers, specialty shops, grocery stores, drug stores, banks, restaurants,

theatres, hotels, dry cleaners and entertainment facilities. These establishments should be located on appropriate transportation corridors to easily serve the public. Visual impacts of these developments should be minimized by requiring buffers, landscaping, and architectural controls.

**Activity Center** - The Activity Center land use category includes commercial, entertainment, limited residential, and public/institutional land uses typically found in a central business district. The commercial business district (CBD) and urban village (UV) zoning classifications are considered appropriate for developments proposed within the Activity Center classification. Developments within the Activity Center classification may be encouraged to consider additional zoning classifications, based on future revisions to the Forsyth County Unified Development Code. The types of uses that are desirable in this area would be restaurants, specialty retail, governmental offices, low-intensity offices (e.g. accountant or real estate office) and appropriate parking. Uses should be complemented with walking, biking and transit opportunities to provide alternative modes of transportation. Also, any roadway improvements that are considered for this area should carefully consider the scale of the area. Residential uses shall be considered accessory and limited to townhouses or apartments mixed into the commercial establishments. Commercial uses must be developed or present first in comparable scale before residential uses can be permitted for construction.

**Corridor Commercial** - The Corridor Commercial category is intended to focus on major transportation corridors, which presently contain a mix of agricultural, residential, commercial, and industrial land uses. Such corridors are unlikely to experience small scale, low or medium density residential development over the course of the planning period.

Developments within the corridor commercial classification will focus on land uses of varying intensity that will allow for the appropriate transition between high-intensity development abutting the transportation corridor as well as provide for a continued decrease of intensity as the development moves away from the transportation corridor. The physical character and design of proposed developments should be compatible with surrounding uses. Inter-parcel connectivity and side street access should be encouraged to minimize curb cuts and improve traffic flow.

Typical uses include standard retail and commercial service activities such as shopping centers, general retailers, specialty shops, grocery stores, drug stores, banks, restaurants, theatres, hotels, dry cleaners, entertainment facilities, multiple tenant offices, small single occupant structures, and entrances to residential subdivisions located outside the corridor commercial designation. The transitional nature of the category should be supported through the use of buffers, landscaping, and architectural controls to minimize the impacts on lower intensity land uses.

**Industrial** - The primary purpose of this category is to provide for areas where light industrial uses can be located. These light industrial uses include light manufacturing, warehousing, wholesale/distribution and assembly. More intensive industrial uses that are characterized by noise, fumes, vibration and other forms of pollution that might be viewed as objectionable by surrounding uses are acceptable only on a case-by-case basis if well screened and buffered from other uses. Limited commercial uses are also allowed in industrial areas if they compliment existing industrial uses, such as cafeterias and day cares.

**Public / Institutional** - Includes uses such as schools, colleges, hospitals, municipal community centers, churches, cemeteries, municipal buildings and post offices.

**Public Park** - This category includes land dedicated to active and passive recreation uses. These areas are publicly owned and may include sports fields, recreation areas, greenways, and similar uses.

**Private Park** - Privately owned land that is used for active and passive recreation. This may include subdivision amenities areas, golf courses and Army Corps of Engineers recreation areas.

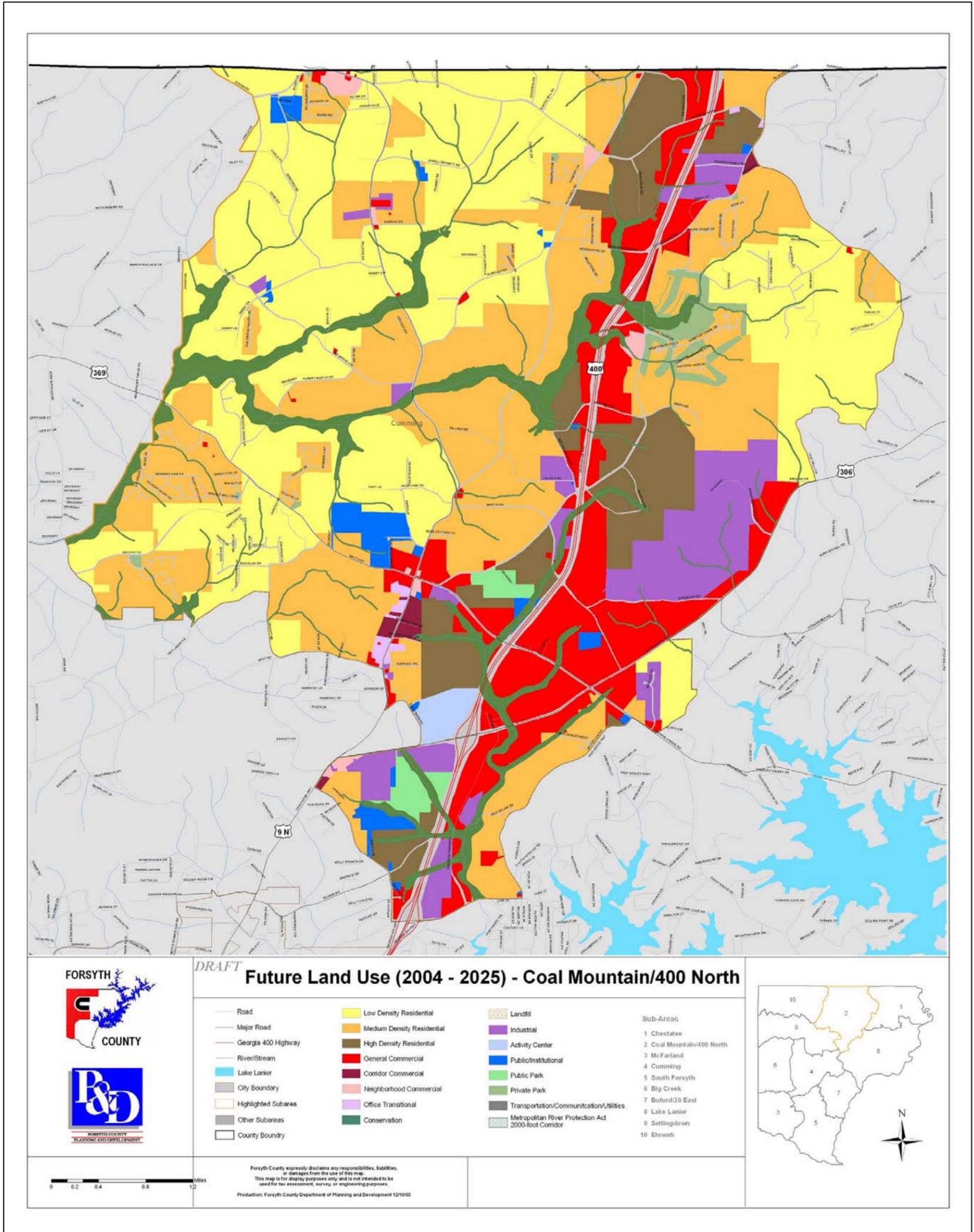
**Conservation** - This classification includes environmentally sensitive areas that are regulated at the local and state levels. Areas included in this category are the 35 ft. buffer along all county streams, a 100 ft. buffer along the Etowah River and land that is part of the 100-year floodplain of local waterways. This land has the potential to be used as public greenways or multi-purpose paths. Land classified as Conservation alerts government officials and property owners to the presence of environmental conditions that shall be factored into the rezoning and permitting process.

**Transportation / Communication / Utilities (TCU)** - This category includes such uses as landfills, water treatment plants, wastewater treatment plants, power substations, rail yards, mass transit facilities, airports, etc. These uses may be either public or private.

**Coal Mountain/400 North Future Land Use, 2025**

<b>Land Use</b>	<b>Acres</b>	<b>Percent</b>
Low Density Residential	6,516	33.7%
Medium Density Residential	5,643	29.2%
General Commercial	2,241	11.6%
High Density Residential	1,541	8.0%
Industrial	1,183	6.1%
Road Right-of Way (TCU)	1,151	6.0%
Public/Institutional	310	1.6%
Private Park	240	1.2%
Public Park	179	0.9%
Activity Center (Commercial)	103	0.5%
Neighborhood Commercial	93	0.5%
Corridor Commercial	68	0.4%
Office-Transitional	45	0.2%
Transportation/Communication/Utilities	0	0.0%
Conservation (Lake Lanier US Corps land only)	0	0.0%
<b>Total Land Acreage</b>	<b>19,313</b>	<b>100.0%</b>

**Figure 9**  
**Coal Mountain/400 North 2025 Future Land Use Plan**



# Appendix

## **A. Coal Mountain/400 North Subarea Advisory Committee**

Ruby Cook  
Jim Custer  
Mike Gilbert  
Jim Grogan  
Cindy Mills

## **B. Meeting Dates**

Coal Mountain Subarea Public Visioning Workshop – May 1st at 5:30 PM in the Sawnee Cultural Center.

Coal Mountain Subarea Advisory Committee Meeting – June 10th at 7:00 PM in the Sawnee Cultural Center.

Forsyth County  
Comprehensive Plan

McFarland Subarea  
Land Use Report

September 25, 2003



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# I. Introduction

## A) Purpose

In preparing the 2003 Update to the Forsyth County Comprehensive Plan, the County initiated an ambitious public involvement process. In order to better analyze the County's needs and elicit a higher degree of community participation, the county was divided into ten planning subareas (**Figure 1**) with individual committees established to develop specific land use policies and a future land use map for their subarea. The subarea boundaries were determined by a variety of factors including: physical barriers, historical communities, economics and transportation corridors.



This information was gathered to help enable the community to look at where they are today, how they got there and where they want to go in the future. Included in this document are the findings from the land use inventory and assessment for the McFarland subarea, as well as the recommendations of McFarland Subarea Advisory Committee. The membership of the committee and the meeting dates can be found in the **Appendix**.

## B) Scope

The following report provides a current “snapshot” of the McFarland subarea. First, a description of existing land uses in the subarea is provided, along with an existing land use map and summary table. This is followed by an inventory of environmentally sensitive areas. These two sets of information allow the community to identify those sections of the subarea that could potentially be developed in the future, as well as those areas that should be protected from development pressures.

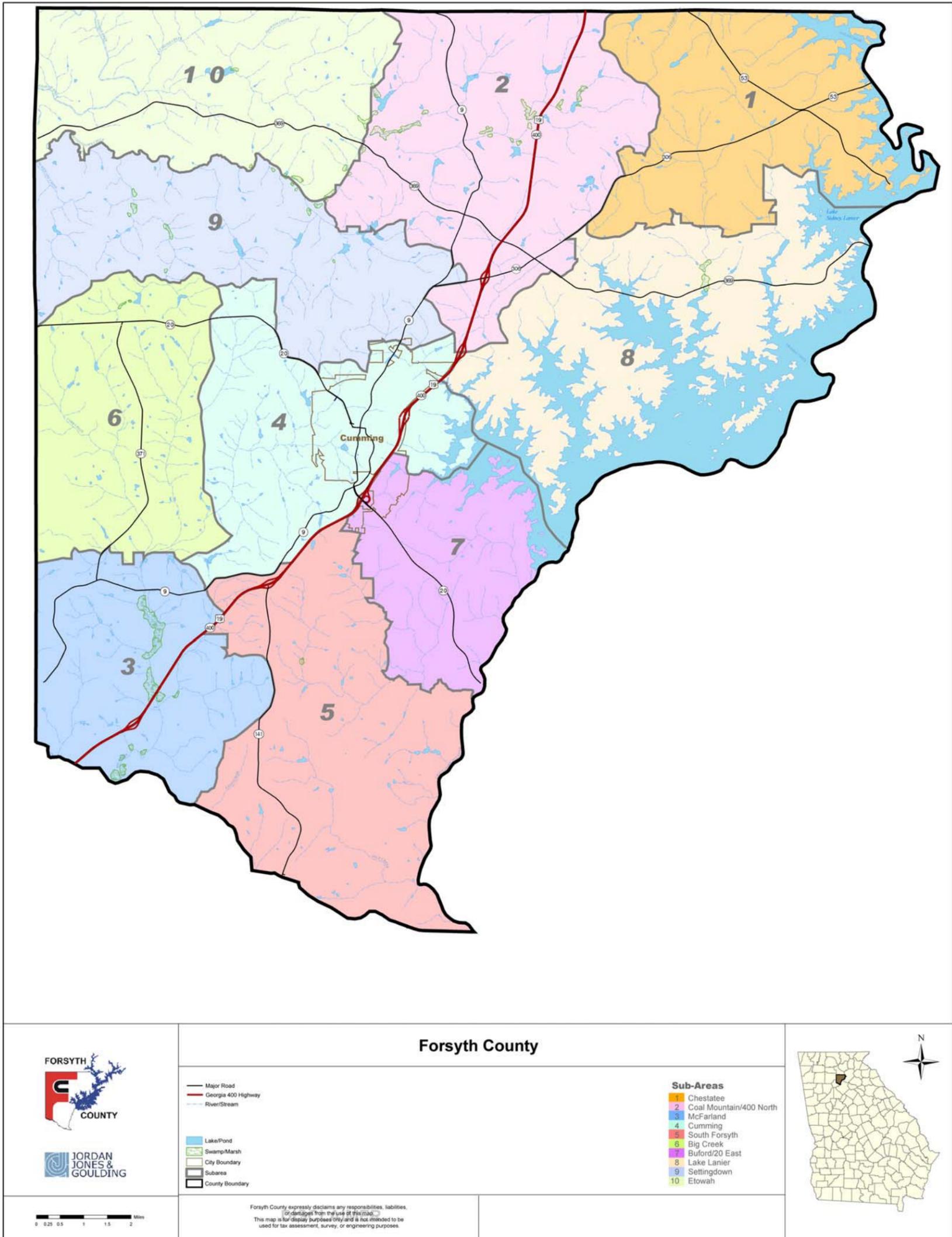
Following this inventory, there is an examination of the historic development patterns in the McFarland subarea. This includes a discussion of demographic changes in the subarea between 1990 and 2000, as well as an estimate of land consumption during the last decade. There is also a summary of the historical factors that have led to the current development patterns.

An examination of future development trends is also provided. This includes an assessment of the future sewer and transportation infrastructure needs, as well as the identification of transitional areas that could potentially be redeveloped. Forsyth County's land use policies are also examined in order to determine what is allowed to develop under the current regulations. Finally, this report includes the subarea vision and policy recommendations developed by the McFarland Subarea Advisory Committee, and a copy of the future land use map for the subarea.

## C) Location

The McFarland subarea is located in the southwest corner of Forsyth County. GA 400 cuts diagonally through this subarea from southwest to northeast. The general boundaries include Fulton County to the west and south, South Forsyth subarea to the east, and Big Creek and Cumming subareas to the north.

Figure 1  
Forsyth County Subarea Locations



## II. Inventory of Existing Conditions

### A) Description of Existing Land Uses

A comprehensive land use survey was conducted for Forsyth County in the Summer of 2002 using tax parcel maps, aerial photographs and field review. In April 2003, JJG conducted a field review and a review of aerial photographs to verify the land uses in the McFarland subarea. These land uses are shown on **Figure 2** on the following page and summarized in **Figure 3** below.

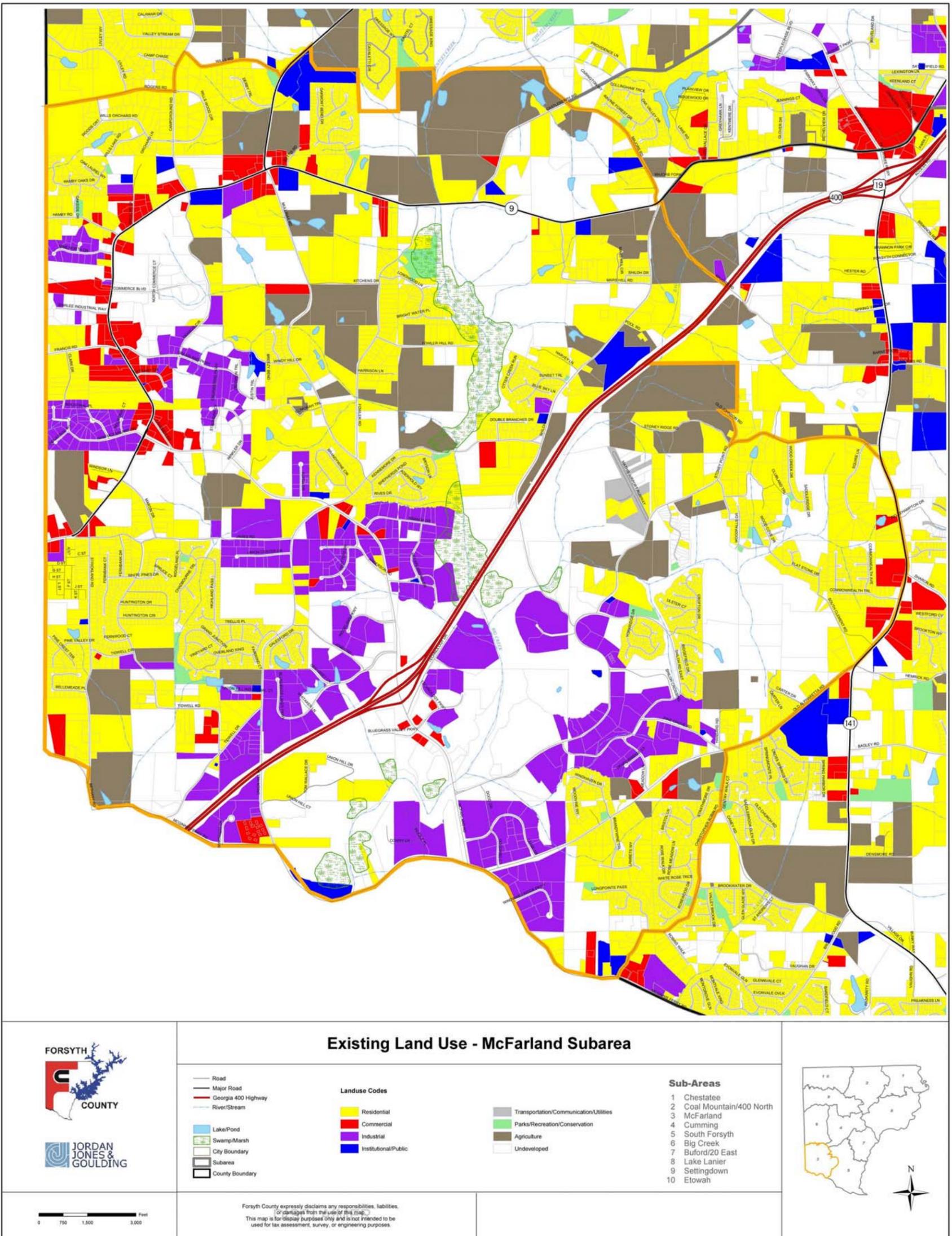
**Figure 3: McFarland Existing Land Use, 2003**

Land Use	Acres	Percent
Undeveloped	3,879.34	31.17%
Residential	3,859.22	31.00%
Industrial	1,461.06	11.74%
Agriculture	1,393.39	11.19%
Road Right-of-way	923.44	7.42%
Commercial	403.22	3.24%
Parks/Recreation/Conservation	323.09	2.60%
Institutional/Public	164.45	1.32%
<b>McFarland Total</b>	<b>12,447.41</b>	<b>100.00%</b>
Total Sq. Miles for Sub Area	19.4	--

As indicated in the table above, the largest land use category in the McFarland subarea is undeveloped land, comprising 31.17 percent of the subarea. Undeveloped land is scattered throughout the area, though the largest concentration is located along Big Creek. The second largest category is residential land, which also makes up 31 percent of the subarea. Most of the residential land is located along the outer edges of the subarea, along Atlanta Highway and Old Alpharetta Road. The third largest area is industrial land, which accounts for nearly 12 percent of the land area. The McFarland area contains the largest concentration of industrial land in the county. In particular there are two prominent business parks in the area located on either side of GA 400 off of McFarland Road, the Meadows and Bluegrass. The Meadows is the location of the County's largest employer, Siemens, which employs over 1,600 employees.

The remaining land uses make up less than 26 percent of the total area. These uses include commercial, public/institutional, parks/recreation/conservation, and agricultural land. Generally, the commercial uses are concentrated along GA Hwy 9, especially between the intersections of Atlanta Highway (GA 9) with McFarland Road and Post Road.

Figure 2  
McFarland Subarea Existing Land Use



## B). Environmentally Sensitive Areas

### 1) Historic Resources

In the mid-1990s a historic resources inventory was completed for Forsyth County. The Historic Resources Survey Report identified 490 historic resources in unincorporated Forsyth County. Thirty-seven (37) of these historic sites were located in the McFarland subarea. One of these sites, the Fowler Family Farm, was recently listed on the National Register of Historic Places. The Fowler Farm is located off Atlanta Highway, on the site of new county park and will be preserved for cultural benefit of the community. According to the Survey Report at least four other sites have potential for National Register listing.

### 2) Water Resources

There are 1,456 acres of 100-year floodplains in the McFarland subarea. Development is regulated in this area by the Federal Emergency Management Agency, the Georgia Floodplain Management Program of DNR and by local ordinances. Most of the floodplain associated with the McFarland area is located along Big Creek and its tributaries.

There are only 652 acres of land associated with groundwater recharge areas in the McFarland subarea. Significant recharge areas have been mapped by the Georgia Department of Natural Resources at the state level. If a significant recharge area is identified, the local government must comply with the Official Code Georgia Annotated 12-2-8. This Code outlines restrictions on locating landfills and hazardous waste facilities, above ground chemical or petroleum storage tanks, agricultural waste, impoundment sites, septic tank drain fields, slow rate land treatment, storm water infiltration basins, and waste treatment basins.

The largest recharge area in the McFarland subarea is located in the southern tip of the subarea along Old Alpharetta Road. Most of this area is used for residential land uses, so detrimental impact to the recharge area should be minimal.

### 3) Steep Slopes

There are 1,443 acres of steep slopes (15% grade or greater) in the McFarland subarea. This amounts to approximately 12 percent of the total land area in the subarea. Most of these steep slopes are located in the eastern portion of the subarea between GA Hwy 141 and Big Creek, and are associated with the stream banks. Steep slopes is not a significant deterrent to further construction in the McFarland subarea.

### 4) Conservation & Park Lands

There are no active parks within the McFarland area, though the county has purchased a large tract of land along Big Creek just south Atlanta Highway (GA 9). The site will contain a new water treatment facility and a recreation park. The amenities that are planned to be constructed in the park include: 3 soccer fields, 3 ballfields, 12 tennis courts, 2 pavilions, and a recreation center. There will also be a 1.3-mile walking trail that circles the parks. The improvements will be constructed using approximately \$8 million in SPLOST funds.

The locations of the natural and cultural resources in the McFarland subarea are shown on the map included as **Figure 4**.

## C) Historic Development Patterns

### 1. Demographics

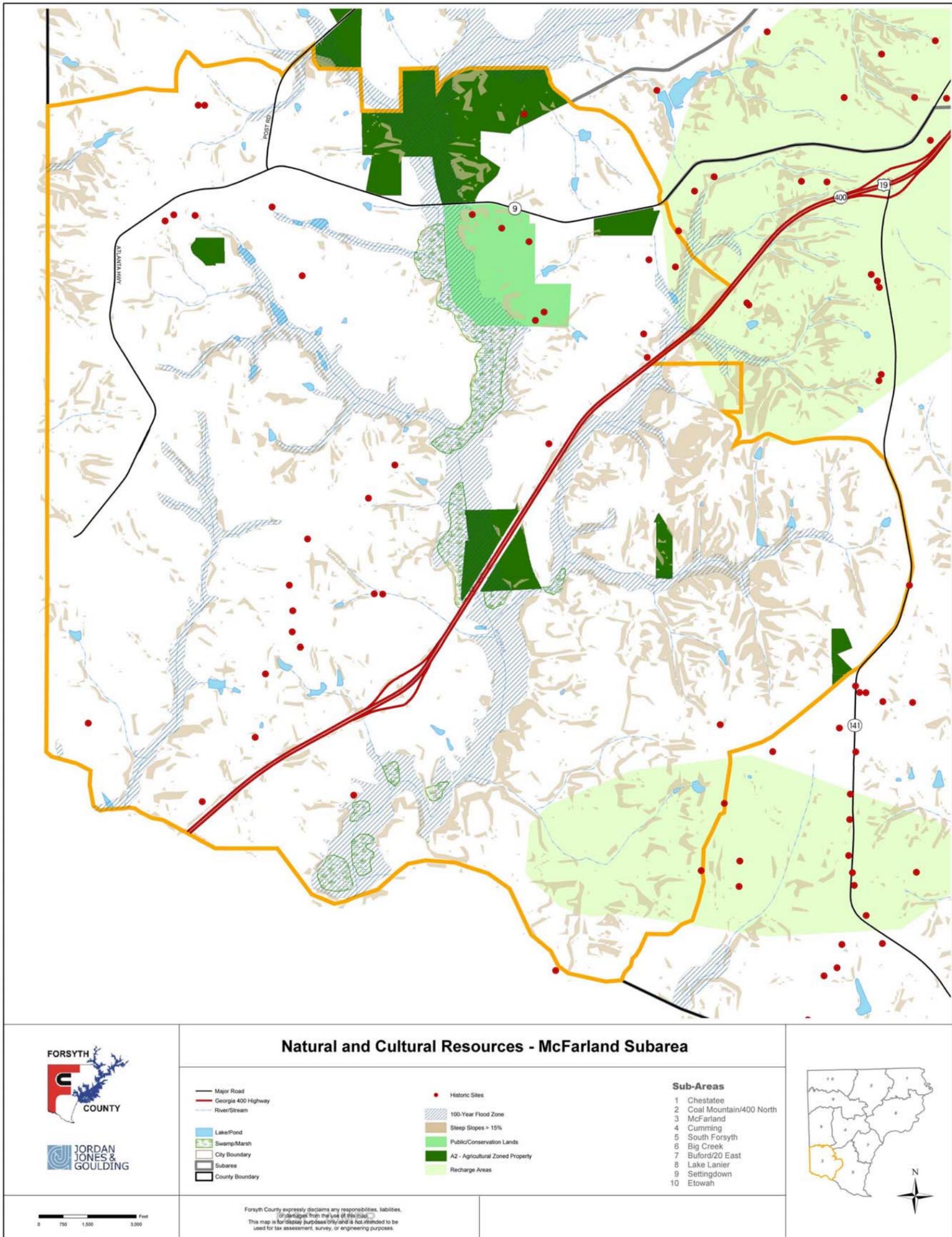
In 2000, the population of the McFarland subarea totaled 7,845. This is an increase of 116% percent since 1990. The population density of the area is 403 people per square mile. In comparison, the highest number of people per square mile is in the South Forsyth subarea, with 701 people per square mile.

The McFarland subarea is 89 percent white. The age distribution figures indicate the majority of residents in this area are 30-39 years of age with children between the ages of 5 and 17 ranking second. The largest increase in age distribution has been for the groups 5 and under and 50 to 64 years of age. **Figure 5** provides a comparison of the demographic statistics for the area for 1990 and 2000.



The number of housing units in the McFarland subarea increased notably during the 1990s. In 1990, there were 1,375 housing units and by 2000 the number of units increased to 2,740, a 99.3 percent increase. During the 1990s the vacancy rate was cut in half, dropping from 5.28 percent in 1990 to 2.6 percent in 2000. The housing units in this area are largely owner-occupied, with 81 percent being owner-occupied and 13 percent renter occupied units. The number of owner-occupied units increased by 60 percent during the 1990s.

Figure 4  
McFarland Natural and Cultural Resources



**Figure 5**  
**McFarland Subarea Demographics**  
**1990 – 2000**

	<b>1990</b>	<b>2000</b>	<b>Percent Change</b>
Total Population	3,631	7,845	116.1%
<b><i>Racial and Cultural Distribution *</i></b>			
White	3,606	6,977	93.5%
Black or African American	2	128	5,464.2%
Asian	11	86	688.2%
Hispanic or Latino, regardless of race	51	1,078	2,000.3%
<b><i>Age Distribution</i></b>			
Under 5	316	808	155.4%
5 to 17	673	1324	96.6%
18 to 21	196	331	68.9%
22 to 29	489	913	86.7%
30 to 39	743	1788	140.7%
40 to 49	563	1206	114.2%
50 to 64	453	1049	131.7%
65 and over	249	426	71.1%
<b><i>Housing</i></b>			
Total Units	1,375	2,740	99.3%
Occupied	1,303	2,669	104.8%
Vacancy Rate	5.2%	2.6%	-2.6%
Owner Occupied	1,115	2,374	112.9%
Renter Occupied	188	295	56.8%
* Note: The racial and cultural distribution numbers total to a sum larger than the total population. Hispanic is a cultural descriptor and is not exclusive of race.			

## 2. Development Activity

It is estimated that since 1990 approximately one-fourth of the land (3000 acres) in the McFarland subarea has been developed. Almost half of this development has been for industrial uses. Even with this large increase in developed acres, it is estimated there are still another 3,000 acres that could be developed in the future in the McFarland subarea.

One of the tools the JJG team used to evaluate development activity in the County is the occurrence of Developments of Regional Impact (DRIs) since 1990. A DRI review is required by law to be completed for large-scale developments that are likely to have impacts outside of the jurisdiction(s) where they are located. The Georgia Planning Act of 1989 authorized the Department of Community Affairs (DCA) to establish procedures for intergovernmental review of these large-scale projects. More than 40 DRI reviews have been completed in Forsyth County since 1990, with one of these located in the McFarland subarea, a proposed regional mall and accessory uses by the Rouse Company.

The first phase of the Rouse project is anticipated to be completed in 2006, though construction has not started yet. The entire project will total 2.3 million square feet on 177 acres located on GA 400 between the McFarland and Union Hill exits. Besides a commercial mall, it will include offices, a hotel, and luxury apartments or condos. Part of the construction of the project will include a new 4 to 6 lane roadway connecting Union Hill and McFarland Roads. The Rouse Company recently announced that it was preparing an alternative plan for the site, due to the fact it was having problems attracting major retail anchors. Only Neiman Marcus has committed to the project, at this time.

## D) Future Development Trends

### 1. Future Infrastructure

One of the primary drivers of development is the provision for public infrastructure, particularly sewer and roads. The availability of sewer allows for higher density land uses such as apartments or small-lot subdivisions (less than one-half acre lots). Roads are also primary drivers of change because they provide access to desired destinations, such as jobs and shopping. Better access leads to a higher land value and a greater likelihood of more intense uses.

The update of the County's Major Transportation Plan indicates there are numerous transportation improvements planned for the McFarland subarea. This includes the construction of frontage road on the southeastern side of GA 400 to provide better access to the proposed regional mall and the business parks along the highway.

Other short-term improvements include the widening of Post Road, Mullinax Road, Atlanta Highway (GA Hwy 9), Peachtree Parkway (GA Hwy 141), and McGinnis Ferry Road from 2 to 4 lanes. McFarland Road, from Union Hill to McGinnis Ferry, is scheduled to be improved from 2 to 6 lanes, including the GA 400 overpass.

By 2010, GA 400, Peachtree Parkway, and McGinnis Ferry Road are planned to be further widened to 6 lanes. Union Hill Road and Old Alpharetta Road are also planned to be widened to 4 lanes during this period. In the long term, by 2020, GA 400 is planned to be further widened to 8 lanes, and portions of GA Hwy 9 and McFarland Road are planned to be widened to 6 lanes.

Sewer is available throughout most of the southern portion of the McFarland subarea. The County's Sewer System Master Plan shows that a new water treatment facility will be constructed on Big Creek, just south of GA Highway 9 next to the new Fowler Park. Construction of this new plant will also coincide with the construction of new gravity sewer to serve the northern portion of the subarea. These improvements are a high priority on the plan and will likely be constructed within the next 5 years.

One of the strongest influences on the future development of the McFarland subarea will be continued expansion of the Atlanta urbanized area. Over the last ten years, this southern half of the County has experienced intense development pressure, and this pressure is moving northward along either side of GA 400. Because of this growth pressure, land values in the southern portion of the county are likely to continue to rise making it more economical for higher density development, particularly for those areas closest to GA 400.

## 2. Transitional Areas

There are still large tracts of available land for development in the McFarland subarea, so the likelihood of redevelopment is small. Generally, it is more expensive to tear down or renovate existing structures compared to constructing new, so as long as land is available with the same locational benefits as existing structures, new construction is likely to locate on vacant land.

## 3. Land Use Policies

The current Future Land Use map for the McFarland subarea identifies over 55 percent of the area to be developed as large-lot single-family houses, 21 percent to be developed as industrial uses, and 19 percent to be conserved as parkland and open space. Current land use policy was analyzed by examining the primary tools of land use including the Unified Development Code and the Land Use Element of the Comprehensive Plan. The JJG team also examined the current zoning and Future Land Use maps to determine any implications that might arise from those elements.

A difference exists between the way land is currently zoned in Forsyth County and the Future Land Use map. In order to achieve the future land uses that are envisioned in the Comprehensive Plan, large amounts of land would have to be re-zoned. Rezoning would have to occur not only within land use categories, but significant amounts of land would have to be rezoned into entirely different categories. **Figure 6** on the following page shows the amount of land that would have to be rezoned to provide consistency with the Future Land Use map. For example, **Figure 6** shows that 45 percent of the land is zoned for agricultural use, although the current Agricultural zoning standards allow 1-acre single-family residences, 37 percent of this land would need to be rezoned for single-family residential use to be consistent with the Land Use Plan.

**Figure 6  
McFarland Rezoning to Match the 2015 Future Land Use Plan**

			Future Land Use Category					
				55%	0%	1%	21%	4%
			Conservation and Park	Single Family Residential	Multi-Family Residential	Office/ Institutional	Industrial	Commercial
Current Zoning Category	47%	Agriculture	10%	34%		<1%	2%	1%
	19%	Single-Family Residential	3%	14%		<1%	1%	<1%
	1%	Multi-Family Residential	<1%	<1%				
	1%	Office Institutional	<1%	<1%				<1%
	25%	Industrial	5%	5%			15%	<1%
	7%	Commercial	<1%	2%		<1%	2%	2%

\* Note: Conservation and park land can be associated with any zoning category.

- Indicates that a rezoning is not required to be consistent with the future Land Use Plan
- Indicates potentially difficult rezoning
- Indicates rezoning that might be moderately difficult
- Indicates potentially easy rezoning

The chart included as **Figure 6** shows the amount of land within the McFarland subarea that is intended for conversion from a current zoning category (rows), to a future land use category (columns). Individual cells of the table are currently zoned within a particular category (shown by the row) and intended for a particular future land use category (shown by the column). Percentages within each cell indicate the percentage of total land area that is categorized by a particular zoning category/future land use category combination.

The colored areas of the chart indicate land that is currently intended for a future land use that is different from the way the land is currently zoned. At the present time, approximately 31% of the McFarland subarea is intended to perform the same use as it is currently allowed by zoning (shown by the white areas). To achieve the land uses shown in the current future land use map, 69% of the land will require rezonings. Areas shown in red represent required “downzonings” – zoning changes that are traditionally difficult to perform because they further restrict the use of the land. This comprises approximately 17% of the subarea. Areas shown in green represent required “upzonings” – zoning changes that are traditionally easier to perform because they generally increase the allowable uses of the land. This comprises approximately 50% of the subarea.

Approximately 37% of the McFarland subarea is currently intended to be moved away from agricultural zoning, to a mixture of residential (34%), and other uses (3%). Ten percent of the land, currently zoned agricultural, is intended for conservation and/or park use (primarily flood plain). Although the current land use regulations allow single-family residences on land zoned agricultural, this represents a conversion of the land’s purpose.

## E) Trend Scenario

### 1) Methodology

As part of the JJG team’s examination of current land use policies and their potential impacts, an analysis of current development trends for the McFarland subarea was performed. It was based upon the existing Future Land Use map, rezoning history, and real estate market preferences. This analysis had no specific time horizon. It is intended to gain a understanding of the ultimate impact of future development, if such development follows existing trends and is guided by existing land use policy.

In order to accomplish this analysis, the JJG team made several assumptions including:

- ◆ Areas that are designated as having future land uses that are more intensive than their existing land uses will be redeveloped;
- ◆ Future development within broad land use categories (for example, “Commercial”) will consist of a mix of uses and intensities that mirrors the county-wide proportions of land that is currently zoned within that category;
- ◆ Future development restrictions (for example, minimum lot sizes, maximum floor-area-ratios) will be based upon those that are currently expressed in the Unified Development Code;
- ◆ “Density shifting” to accommodate land lying within flood plains will continue to be permitted. In other words, parcels that contain part of their land within flood plains will be

allowed to develop at the maximum density permitted, based on the area of the entire parcel, not just the part that is outside the flood plain;

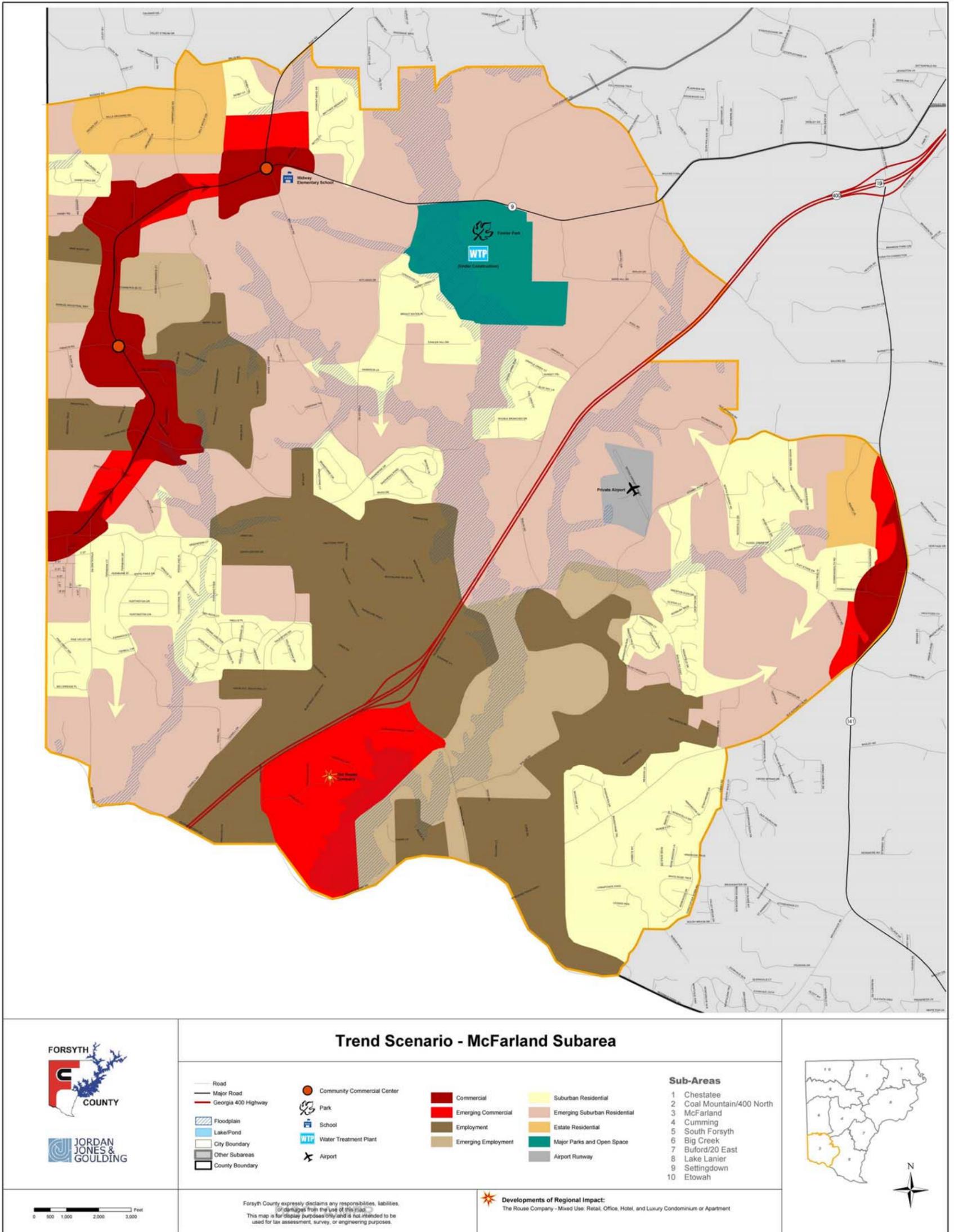
- ◆ Moderately sloping land (>15% but less than 30%) that is designated residential, will eventually be developed; and
- ◆ Sewer and water services will be extended to all areas that require them.

## 2) Trend Scenario Map

A Trend Scenario map was created in order to illustrate this future land use scenario and it is included on the following page as **Figure 7**. The future that this map indicates is not a given, but a likely scenario of how the area will develop over the next 20 years. It shows that existing residential developments will spread out and occupy most of the land in the subarea, the business parks on either side of GA 400 will continue to expand, and a major commercial center will develop around the proposed Rouse Mall site. The map also indicates additional commercial development along GA Hwy 9.

The implications of this trend scenario include increased demands on public infrastructure, such as schools, water, sewer, roads, police and fire protection. It also indicates that the dramatic changes that the area has experienced over the past 10 years are only the beginning of additional changes for the area if current trends continue. The question that this planning exercise poses is one that the citizens of the McFarland area have to answer, and that is “Is this the future that we envision for our community?”

Figure 7  
McFarland Trend Scenario



### III. Subarea Committee Recommendations

There were two meetings held from May to June 2003 to discuss the development of a land use plan for the McFarland subarea. A list of the meeting dates can be found in the **Appendix**. At the first meeting the inventory of existing conditions for the subarea was presented, and the participants were asked to help craft a vision for the subarea. At the second meeting, a draft land use plan map was presented along with the draft vision and participants were asked to fill out comments cards, which were presented to the subarea committee for discussion and review. The result of this meeting was a revised land use plan map and a list of policy recommendations that the subcommittee would like to present to the Countywide Land Use Steering Committee for possible inclusion in the county's Comprehensive Plan. The results of these meetings are presented below.

#### A) McFarland Subarea Vision

- The McFarland subarea will be the premier employment center for the County.
- It will be the site of quality development and business opportunities.
- Convenient access to commercial services will be located along major arterial roads, such as Hwy 9.
- A network of greenways will run along the Big Creek with passive parks and connected trails.

#### B) Policy Recommendations

- The County needs to prepare a Greenway Master Plan that includes connected greenways throughout the County. Existing natural features such as stream banks and groundwater recharge areas could be utilized.
- Need more land in public parks.
- Create hiking trails along Big Creek and connect with North Fulton County.
- Future expansions of stream buffers should include appropriate compensation.
- Control the amount of multi-family residential that is allowed. Use the area north of Windward Pkwy. and east of GA 400 as an example of the appropriate mixture of residential.
- Need design standards for McFarland Blvd. And SR 9, but not strict architectural standards or architectural review board.
- Provide incentives for constructing mixed-use developments.
- Create more grid pattern streets in large developments.
- Transportation improvements are needed to serve the Future Land Use Plan.
- Need better public safety services, library and post office.

#### C) McFarland Land Use Plan Map

The future land use plan is an extension of the goals and values of the community and a culmination of the subarea planning effort. This future land use map is intended to depict a 2025 future land use

scenario. The acreages and percentages of each land use are compiled in **Figure 8** and a map showing the location of future land uses is included in **Figure 9**.

There are fourteen land use designations depicted on the future land use map, including three residential designations and six commercial/industrial/mixed-use designations. Below is brief definition of each.

**Low Density Residential** - This category is intended for single-family detached residential dwellings typically on septic sewer systems. Minimum lot size is 30,000 square feet, or the overall density is up to 1.5 units per acre. Institutional uses that are considered complimentary in this area include churches, schools, and libraries.

**Medium Density Residential** - Consists of single-family detached residential dwellings typically on sewer, with overall densities from 1.5 to 2.5 units per acre. Institutional uses that are considered complimentary in this area include churches, schools, and libraries. Private recreational uses, such as golf courses, tennis courts, walking trails and swimming pools are encouraged in these areas in developments greater than 50 lots.

**High Density Residential** - Typical uses include single-family detached and attached dwellings (such as townhouses) as well as multifamily condominiums and apartments, at densities of up to 6 units per acre. These developments should incorporate some amount of central outdoor public space for their residents. A limited number of churches, schools, libraries, other miscellaneous institutional uses and daycare facilities would be complimentary in these areas. An urban-density residential area is usually located near areas of high employment concentration, large commercial nodes, transportation nodes and mixed-use developments. It is essential that these developments include proper buffering between adjacent land uses.

**Office Transitional** - The Office Transitional category is intended to allow for the redevelopment or transition of residential uses along major roadways to office professional uses. It also allows for new office development that is constructed in a manner consistent and in keeping with the surrounding residential uses. The physical character and design of proposed new structures should be compatible with existing establishments. This category includes small single occupant structures for doctors and or accountants, as well as larger offices with multiple tenants. Businesses that are allowed in this category may provide a product directly to customers on the premises as an accessory to the service, but do not, as a primary activity, involve the manufacture, storage, or distribution of products. These areas should provide employment opportunities in close proximity to residential areas while providing a transition between the more intense commercial areas and residential neighborhoods.

**Neighborhood Commercial** - This category includes a limited range of retail and service activities to serve the everyday needs of local residents. Limitations should apply to both size and character of individual establishments. The basic character of this category is one that encourages and assures a compatible mixture of residential, office and retail types of land uses. Businesses in this land use category should be designed to encourage the development of neighborhood scale shopping that offers both goods and products, and the furnishing of selected services.

**General Commercial** - This category includes standard retail and commercial service activities such as shopping centers, general retailers, specialty shops, grocery stores, drug stores, banks, restaurants,

theatres, hotels, dry cleaners and entertainment facilities. These establishments should be located on appropriate transportation corridors to easily serve the public. Visual impacts of these developments should be minimized by requiring buffers, landscaping, and architectural controls.

**Activity Center** - The Activity Center land use category includes commercial, entertainment, limited residential, and public/institutional land uses typically found in a central business district. The commercial business district (CBD) and urban village (UV) zoning classifications are considered appropriate for developments proposed within the Activity Center classification. Developments within the Activity Center classification may be encouraged to consider additional zoning classifications, based on future revisions to the Forsyth County Unified Development Code. The types of uses that are desirable in this area would be restaurants, specialty retail, governmental offices, low-intensity offices (e.g. accountant or real estate office) and appropriate parking. Uses should be complemented with walking, biking and transit opportunities to provide alternative modes of transportation. Also, any roadway improvements that are considered for this area should carefully consider the scale of the area. Residential uses shall be considered accessory and limited to townhouses or apartments mixed into the commercial establishments. Commercial uses must be developed or present first in comparable scale before residential uses can be permitted for construction.

**Corridor Commercial** - The Corridor Commercial category is intended to focus on major transportation corridors, which presently contain a mix of agricultural, residential, commercial, and industrial land uses. Such corridors are unlikely to experience small scale, low or medium density residential development over the course of the planning period.

Developments within the corridor commercial classification will focus on land uses of varying intensity that will allow for the appropriate transition between high-intensity development abutting the transportation corridor as well as provide for a continued decrease of intensity as the development moves away from the transportation corridor. The physical character and design of proposed developments should be compatible with surrounding uses. Inter-parcel connectivity and side street access should be encouraged to minimize curb cuts and improve traffic flow.

Typical uses include standard retail and commercial service activities such as shopping centers, general retailers, specialty shops, grocery stores, drug stores, banks, restaurants, theatres, hotels, dry cleaners, entertainment facilities, multiple tenant offices, small single occupant structures, and entrances to residential subdivisions located outside the corridor commercial designation. The transitional nature of the category should be supported through the use of buffers, landscaping, and architectural controls to minimize the impacts on lower intensity land uses.

**Industrial** - The primary purpose of this category is to provide for areas where light industrial uses can be located. These light industrial uses include light manufacturing, warehousing, wholesale/distribution and assembly. More intensive industrial uses that are characterized by noise, fumes, vibration and other forms of pollution that might be viewed as objectionable by surrounding uses are acceptable only on a case-by-case basis if well screened and buffered from other uses. Limited commercial uses are also allowed in industrial areas if they compliment existing industrial uses, such as cafeterias and day cares.

**Public / Institutional** - Includes uses such as schools, colleges, hospitals, municipal community centers, churches, cemeteries, municipal buildings and post offices.

**Public Park** - This category includes land dedicated to active and passive recreation uses. These areas are publicly owned and may include sports fields, recreation areas, greenways, and similar uses.

**Private Park** - Privately owned land that is used for active and passive recreation. This may include subdivision amenities areas, golf courses and Army Corps of Engineers recreation areas.

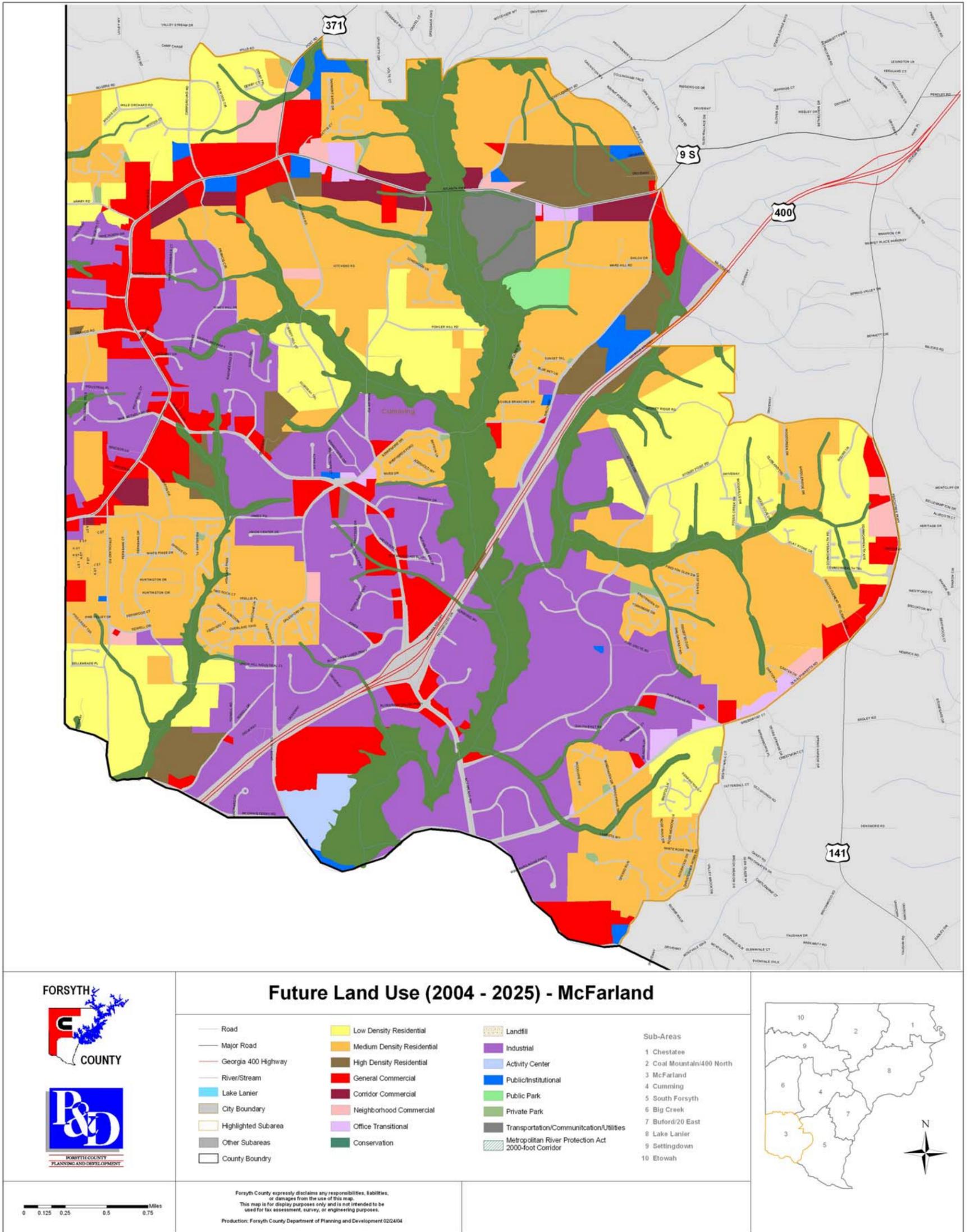
**Conservation** - This classification includes environmentally sensitive areas that are regulated at the local and state levels. Areas included in this category are the 35 ft. buffer along all county streams, a 100 ft. buffer along the Etowah River and land that is part of the 100-year floodplain of local waterways. This land has the potential to be used as public greenways or multi-purpose paths. Land classified as Conservation alerts government officials and property owners to the presence of environmental conditions that shall be factored into the rezoning and permitting process.

**Transportation / Communication / Utilities (TCU)** - This category includes such uses as landfills, water treatment plants, wastewater treatment plants, power substations, rail yards, mass transit facilities, airports, etc. These uses may be either public or private.

Figure 8  
McFarland Future Land Use, 2025

<b>Land Use</b>	<b>Acres</b>	<b>Percent</b>
Medium Density Residential	3,769	30.3%
Industrial	3,388	27.2%
Low Density Residential	1,830	14.7%
General Commercial	1,077	8.7%
Road Right-of Way (TCU)	938	7.5%
High Density Residential	460	3.7%
Transportation/Communication/Utilities	204	1.6%
Corridor Commercial	171	1.4%
Public/Institutional	141	1.1%
Neighborhood Commercial	137	1.1%
Activity Center (Commercial)	115	0.9%
Office-Transitional	80	0.6%
Private Park	72	0.6%
Public Park	65	0.5%
<b>Total Land Acreage</b>	<b>12,447</b>	<b>100.0%</b>

Figure 9  
McFarland 2025 Future Land Use Plan



# Appendix

## **A. McFarland Subarea Advisory Committee**

Grant Nintzel  
Jay Land  
Barbara Edwards  
Phil Bettis  
Dennis Anderson

## **B. Meeting Dates**

McFarland Subarea Public Visioning Workshop – May 13<sup>th</sup> at 7:30 PM in the West Hall Cafeteria,  
South Forsyth High School

McFarland Subarea Advisory Committee Meeting – June 12th at 6:30 PM in the West Hall Cafeteria,  
South Forsyth High School

Forsyth County  
Comprehensive Plan

Cumming Subarea  
Land Use Report

September 25, 2003



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# I. Introduction

## A) Purpose

In preparing the 2003 Update to the Forsyth County Comprehensive Plan, the County initiated an ambitious public involvement process. In order to better analyze the County's needs and elicit a higher degree of community participation, the county was divided into ten planning subareas (**Figure 1**) with individual committees established to develop specific land use policies and a future land use map for their subarea. The subarea boundaries were determined by a variety of factors including: physical barriers, historical communities, economics and transportation corridors.



This information was gathered to help enable the community to look at where they are today, how they got there and where they want to go in the future. Included in this document are the findings from the land use inventory and assessment for the Cumming subarea, as well as the recommendations of the Cumming Subarea Advisory Committee. The membership of the committee and the meeting dates can be found in the **Appendix**.

## B) Scope

The following report provides a current “snapshot” of the Cumming subarea. First, a description of existing land uses in the subarea is provided, along with an existing land use map and summary table. This is followed by an inventory of environmentally sensitive areas. These two sets of information allow the community to identify those sections of the subarea that could potentially be developed in the future, as well as those areas that should be protected from development pressures.

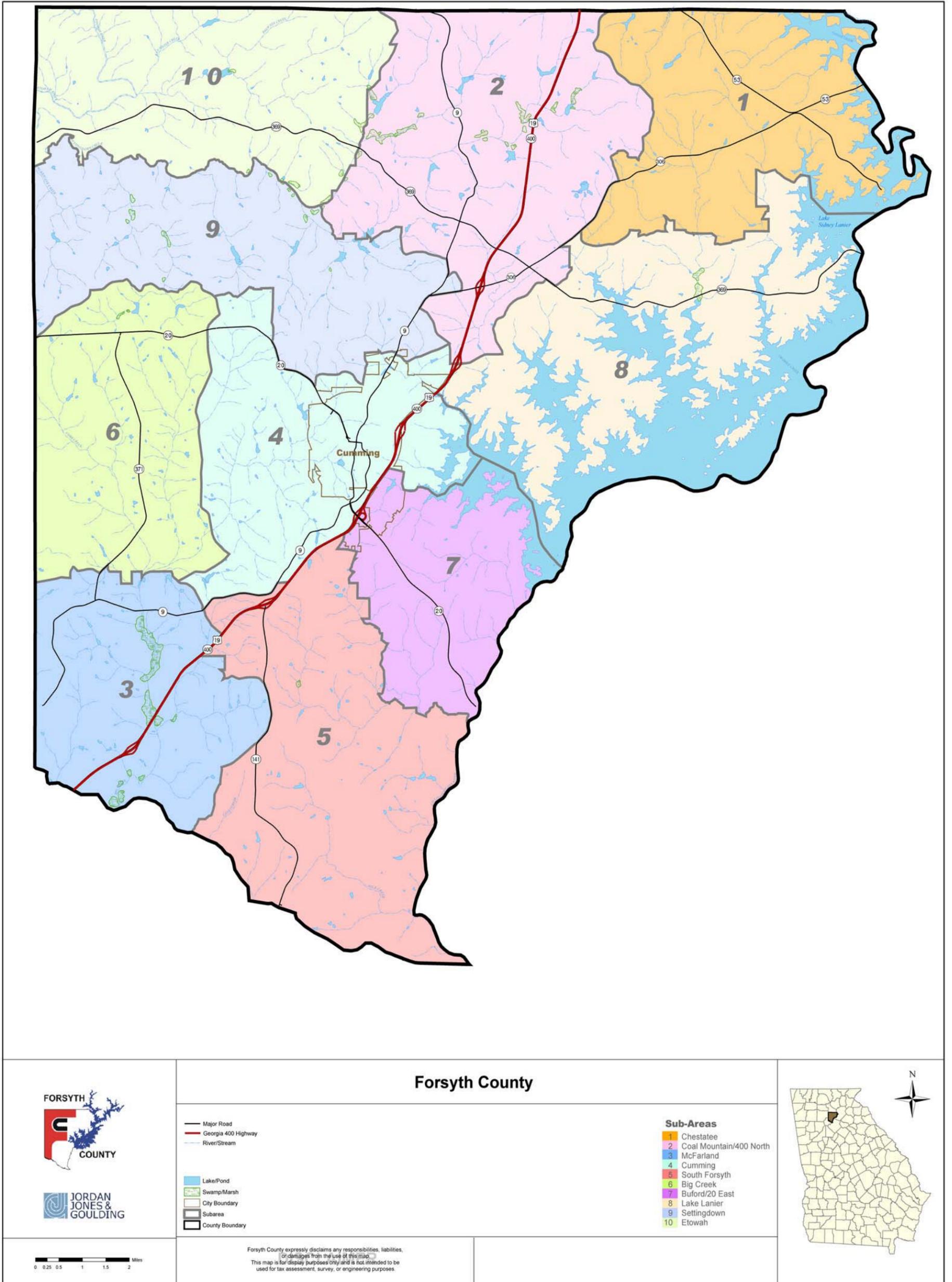
Following this inventory, there is an examination of the historic development patterns in the Cumming subarea. This includes a discussion of demographic changes in the subarea between 1990 and 2000, as well as an estimate of land consumption during the last decade. There is also a summary of the historical factors that have led to the current development patterns.

An examination of future development trends is also provided. This includes an assessment of the future sewer and transportation infrastructure needs, as well as the identification of transitional areas that could potentially be redeveloped. Forsyth County's land use policies are also examined in order to determine what is allowed to develop under the current regulations. Finally, this report includes the subarea vision and policy recommendations developed by the Cumming Subarea Advisory Committee, and a copy of the future land use map for the subarea.

## C) Location

The Cumming subarea is located in the center of the County, primarily including land west of the Cumming city limits to Bethelview Road. Land falling within the Cumming city limits is not included as part of this study. This subarea also includes a small portion of land immediately east of the Bald Ridge Marina Road exit on GA 400.

Figure 1  
Forsyth County Subarea Locations



## II. Inventory of Existing Conditions

### A) Description of Existing Land Uses

A comprehensive land use survey was conducted for Forsyth County in the Summer of 2002 using tax parcel maps, aerial photographs and field review. In April 2003, JJG conducted a field review and a review of aerial photographs to verify the land uses in the Cumming subarea. These land uses are shown on **Figure 2** on the following page and summarized in **Figure 3** below. The subarea does not include the City of Cumming. There is a large amount of commercial, industrial, and institutional/public land concentrated in the City. This landuse inventory focuses on the area outside of the City limits.

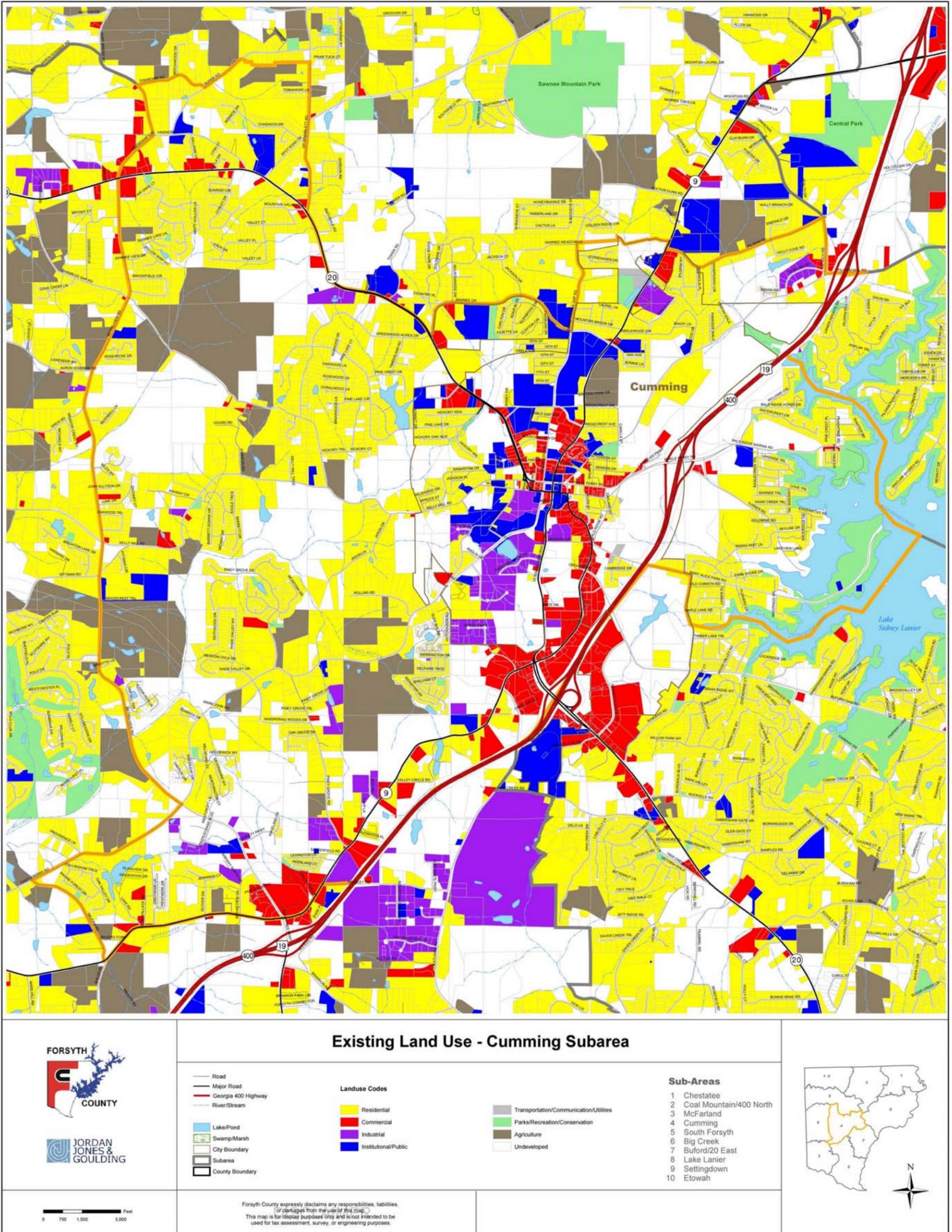
**Figure 3: Cumming Existing Land Use, 2003**

Land Use	Acres	Percent
Residential	5,155.72	38.32%
Undeveloped	4,117.20	30.60%
Road Right-of-way	1,173.43	8.72%
Agriculture	1,057.19	7.86%
Commercial	699.60	5.20%
Institutional/Public	504.62	3.75%
Industrial	375.15	2.79%
<b>Cumming Total</b>	<b>13,453.18</b>	<b>100.00%</b>
Total Sq. Miles for Sub Area	21.0	--

As indicated in the table above, the largest land use category in the Cumming subarea is residential land, comprising 38 percent of the subarea. Most of the residential land is distributed evenly throughout the subarea, outside the City of Cumming. The second largest category is undeveloped land, which makes up 31 percent of the subarea. The majority of the undeveloped land is spread evenly throughout the subarea, with a concentration around Big Creek and its flood plain. The next largest category is right-of-way/other, accounting for 9 percent of the land area. Agricultural land accounts for almost 8 percent of the subarea. There are three large agricultural tracts in the Cumming area, the largest of which is located in the northwest part of the subarea.

The remaining land uses make up less than 11 percent of the total area. These uses include commercial, industrial, public/institutional and parks/recreation/conservation land. The commercial and industrial uses are concentrated along SR 9 south of Cumming and along SR 20 in the northernmost part of the subarea.

Figure 2  
Cumming Existing Land Use



## B) Environmentally Sensitive Areas

### 1. Historic Resources

In the mid-1990s a historic resources inventory was completed for Forsyth County. The Historic Resources Survey Report identified 490 historic resources in unincorporated Forsyth County. Thirty-five of these historic sites were located in the Cumming subarea, and 13 of these have the potential for listing on the National Register of Historic Places.

### 2. Water Resources

There are 881 acres of 100-year floodplains in the Cumming subarea. Development is regulated in this area by the Federal Emergency Management Agency, the Georgia Floodplain Management Program of DNR and by local ordinances. The majority of the floodplains are around Big Creek. Big Creek is a Small Water Supply Watershed and therefore must meet the Part 5 Minimum Environmental Planning Criteria established by the Georgia Department of Community Affairs. These are state standards set for the protection of natural resources in the County, such as water supply watersheds, stream buffers, floodplains, wetlands and groundwater recharge areas. Once these environmental resources are mapped and protected with policies in the Comprehensive Plan, local governments are required to implement the policies through amendments to their zoning ordinances and subdivision regulations. Forsyth County already protects the Big Creek Watershed with a 50-foot buffer on both sides of the creek. Additionally, a 25-foot impervious surface setback has been added to the established buffer.

Of the 33,593 acres of groundwater recharge in Forsyth County, 2,941 are located in the Cumming subarea. The acres of groundwater recharge are located in one area in the southern portion of the subarea, following GA 400 and SR 9.

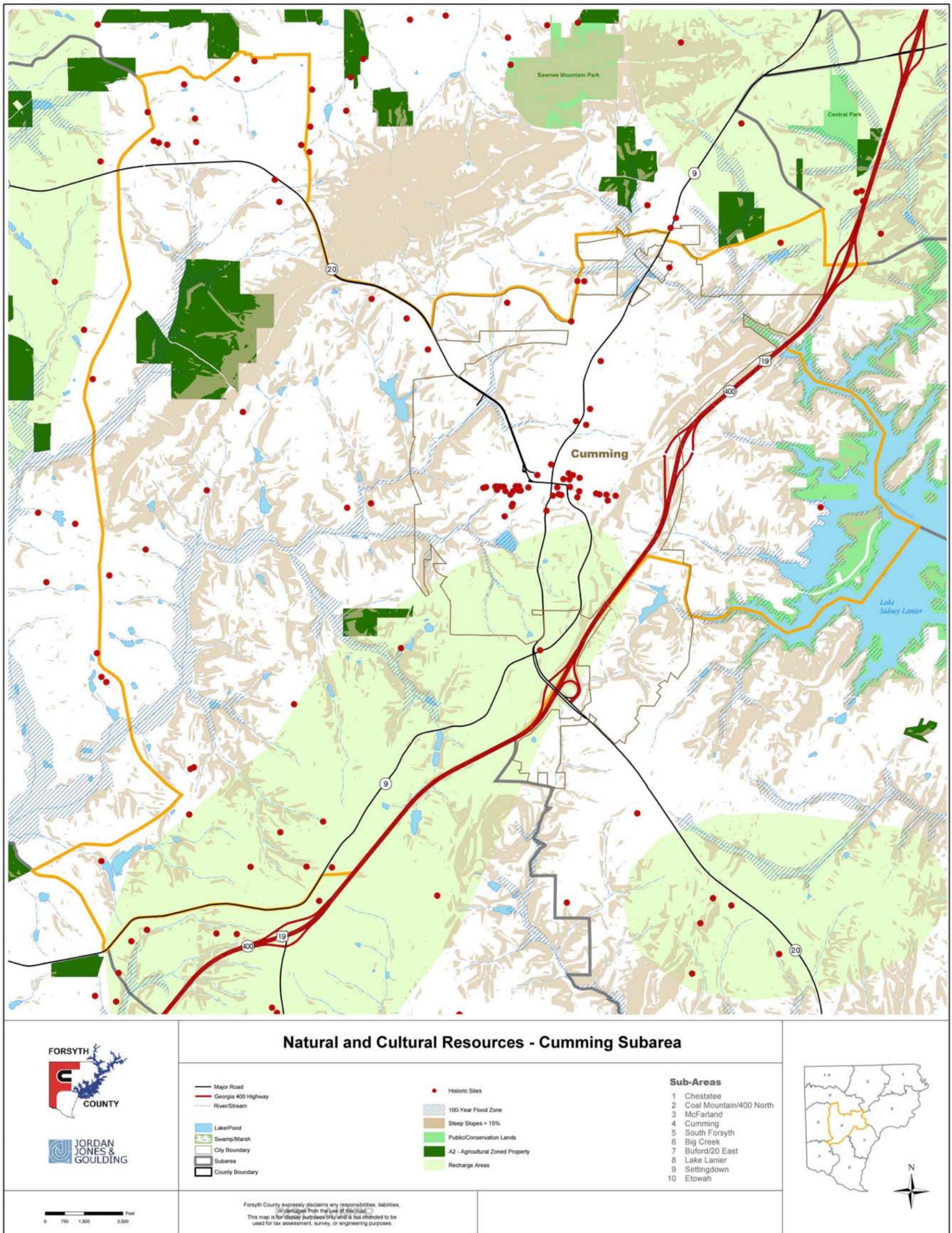
### 3. Steep Slopes

There are 2,883 acres of steep slopes (15% or greater) in the Cumming subarea. The majority of steep slopes are concentrated in the northern portion of the subarea on the mountain, or around the subarea's streams.

### 4. Conservation & Park Lands

There are 67 acres of parks in the Cumming subarea. These parks are small and distributed evenly throughout the subarea. The locations of the natural and cultural resources in the Cumming subarea are shown on the map included as **Figure 4**.

Figure 4  
Cumming Natural and Cultural Resources



## C) Historic Development Patterns

### 1. Demographics

The Cumming subarea is comprised of the unincorporated area adjacent to the City of Cumming. Similar to other parts of Forsyth County, this area has historically been characterized by farms, open land and single-family residences. However, upon completion of GA 400, the City of Cumming and the Cumming subarea has become more attractive for residential subdivisions and other development.

The Cumming subarea is well connected with roadways including GA 400, SR 20 and SR 9. GA 400 is a four-lane divided highway with limited access from the Fulton County line through the subarea. Beyond the subarea, at SR 306, GA 400 has several at-grade road crossings. The major highways within this subarea serve commuters and other regional traffic moving across north Georgia. Additionally, the majority of the commercial and industrial development within the subarea has developed along the corridors of SR 20 and SR 9. The City of Cumming serves as the county hub for commerce and industry. The Cumming subarea serves as a residential base for the City of Cumming and the employment areas to the south.

In 2000, the population of the Cumming subarea totaled 13,445. This is an increase of nearly 100% percent since 1990. The population density of the area is 622 people per square mile. This makes it among the most densely populated areas of the county. By comparison, the most densely populated subarea is the South Forsyth subarea, with 701 people per square mile.

The Cumming subarea is 91 percent white. However, the Hispanic population in the subarea grew dramatically in the 1990s. In 1990, Hispanics accounted for 4% of the population. By 2000, this number had grown to nearly 13%. During the 1990s, the area also added 266 black residents. The age distribution figures indicate the majority of residents in this area are 30-39 years of age, which was the fastest growing category in the 1990s. The second largest group is children between the ages of 5 and 17. The next fastest growing category is older adults, ages 50 to 64 years of age. **Figure 5** provides a comparison of the demographic statistics for the area for 1990 and 2000.

The number of housing units in the Cumming subarea increased considerably during the 1990s. In 1990, there were 2,631 housing units and by 2000 the number of units increased to 4,948, an 88 percent increase. While the total number of vacant housing units increased in the 1990s, the vacancy rate decreased by two-thirds, dropping from 7.6 percent in 1990 to 4.8 percent in 2000. Nearly three-quarters of the housing units in this area are owner-occupied, with 24 percent being renter occupied. The overall trend is for an increase in the share of owner occupied units.

**Figure 5: Cumming Subarea Demographics  
1990 – 2000**

	<b>1990</b>	<b>2000</b>	<b>Percent Change</b>
Total Population	6,795	13,445	97.9%
<b><i>Racial and Cultural Distribution *</i></b>			
White	6,767	12,238	80.8%
Black or African American	0	266	N/A
Asian	12	52	322.7%
Hispanic or Latino, regardless of race	291	1,699	484.5%
<b><i>Age Distribution</i></b>			
Under 5	543	1,069	97.0%
5 to 17	1,306	2,320	77.7%
18 to 21	449	641	42.7%
22 to 29	1,023	1,541	50.7%
30 to 39	1,132	2,591	128.8%
40 to 49	999	1,950	95.1%
50 to 64	814	1,843	126.3%
65 and over	819	1,490	81.9%
<b><i>Housing</i></b>			
Total Units	2,631	4,948	88.1%
Occupied	2,430	4,711	93.9%
Vacancy Rate	7.6%	4.7%	-2.9%
Owner Occupied	1,644	3,521	114.1%
Renter Occupied	786	1,190	51.5%
* Note: The racial and cultural distribution numbers total to a sum larger than the total population. Hispanic is a cultural descriptor and is not exclusive of race.			

## B) Development Activity

The large majority of land consumption that has occurred in the Cumming subarea is from residential development. Even with the large increase in developed acres, it is estimated there are still over 5,000 acres that could be developed. About 18 percent of these developable acres are currently agriculture lands.

One of the tools the JJG team used to evaluate development activity in the County is the occurrence of Developments of Regional Impact (DRIs) since 1990. A DRI review is required by law to be completed for large-scale developments that are likely to have impacts outside of the jurisdiction(s) where they are located. The Georgia Planning Act of 1989 authorized the Department of Community Affairs (DCA) to establish procedures for intergovernmental review of these large-scale projects. More than 40 DRI reviews have been completed in Forsyth County since 1990. Two of these are located in the Cumming subarea.

The first DRI was Manchester Park. This development was approved in 1998 and is comprised of 478 residential units on 95 acres. The second is the Beazer Homes Planned Unit Development. This is a mixed use Planned Unit Development Community on 217 acres. The development consists of cluster housing, townhouses, offices and other facilities.

## D) Future Development Trends

### 1. Future Infrastructure

One of the primary drivers of development is the provision for public infrastructure, particularly sewer and roads. The availability of sewer allows for higher density land uses such as apartments or small-lot subdivisions (less than one-half acre lots). Roads are also primary drivers of change because they provide access to desired destinations, such as jobs and shopping. Better access leads to a higher land value and a greater likelihood of more intensive uses.

highlight the planned transportation improvements for 2005, 2010 and 2020 in the County. These maps were originally created as part of the 2002 Update of the county's Major Transportation Plan. As the maps indicate, there are numerous transportation improvements planned for the Cumming subarea.

The 2002 Update of the county's Major Transportation Plan list of improvements planned for 2005 and 2010 include the widening of Canton Hwy./SR 20, Dahlonega Hwy./SR 9, Castleberry Road, Hutchinson Road and Kelly Mill Road. Also planned for 2010 is the extension of Keith Bridge Road from SR 9 west to SR 20. By 2020, plans show a portion of SR 20 within the Cumming subarea to be widened from 4 to 6 lanes. Also, the 2020 plan shows widening GA 400 from 6 lanes to 8 lanes.

Most all of the land within the Cumming subarea falls within the City of Cumming's service area for sewer service. As a result, homes and businesses already have access to sanitary sewer service. No plans exist for the County to serve any part of this area with sewer service.

### 2. Transitional Areas

With the high amount of steep slopes associated with Sawnee Mountain and the creeks within the Cumming subarea, developing the land can be challenging. Other than preserving much of this steep terrain, residential development is the recommended use of the land since residential uses can be designed to fit the terrain and not cause extensive land disturbance.

There are still large tracts of available land for development in the Cumming subarea, so the likelihood of redevelopment is small. Generally, it is more expensive to tear down or renovate existing structures compared to constructing new, so as long as land is available with the same locational benefits as existing structures, new construction is likely to locate on vacant land.

### 3. Land Use Policies

The 2015 Future Land Use map for the Cumming subarea identifies over 59 percent of the area to be developed as large-lot single-family houses. Current land use policy was analyzed by examining the primary tools of land use including the Unified Development Code and the Land Use Element of the Comprehensive Plan. The JJG team also examined the current zoning and 2015 Future Land Use maps to determine any implications that might arise from those elements.

A difference exists between the way land is currently zoned in Forsyth County and the 2015 Future Land Use map. In order to achieve the future land uses that are envisioned in the Comprehensive Plan, large amounts of land would have to be re-zoned. Rezoning would have to occur not only within land use categories, but significant amounts of land would have to be rezoned into entirely different categories. **Figure 6** shows the amount of land that would have to be rezoned to provide consistency with the 2015 Future Land Use map. For example, **Figure 6** shows that 38 percent of the land is zoned for agricultural use. Although the current agricultural zoning standards allow one acre single-family residences, but 26 percent of this land would need to be rezoned for single-family residential use to be consistent with the Future Land Use map.

The chart included as **Figure 6** shows the amount of land within the Cumming subarea that is intended for conversion from a current zoning category (rows), to a future land use category (columns). Individual cells of the table are currently zoned within a particular category (shown by the row) and intended for a particular future land use category (shown by the column). Percentages within each cell indicate the percentage of total land area that is categorized by a particular zoning category/future land use category combination.

The colored areas of the chart indicate land that is currently intended for a future land use that is different from the way the land is currently zoned. At the present time, only approximately 33% of the Cumming subarea is intended to perform the same use as it is currently allowed by zoning (shown by the white areas). To achieve the land uses shown in the current future land use map, 67% of the land will require significant rezonings. Areas shown in red represent required “downzonings” – zoning changes that are traditionally difficult to perform because they further restrict the use of the land. This comprises approximately 19% of the subarea. Areas shown in green represent required “upzonings” – zoning changes that are traditionally easier to perform because they generally increase the allowable uses of the land. This comprises approximately 46% of the subarea.

Approximately 28% of the Cumming subarea is currently intended to be moved away from agricultural zoning, to a mixture of residential (27%), and other uses (1%). Ten percent of land currently zoned agricultural is intended for conservation and/or park use (primarily flood plain). Although the current land use regulations allow single-family residences on land zoned agricultural, this represents a significant conversion of the land’s purpose.

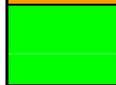
## E) Trend Scenario

### 1. Methodology

As part of the JJG team’s examination of current land use policies and their potential impacts, an analysis of current development trends for the Cumming subarea was performed. It was based upon the existing 2015 Future Land Use map, rezoning history, and real estate market preferences. This analysis had no specific time horizon. It is intended to gain an understanding of the ultimate impact of future development, if such development follows existing trends and is guided by existing land use policy.

**Figure 6**  
**Cumming Rezoning to Match the 2015 Future Land Use Plan**

			Future Land Use Category					
				59%	9%	0%	3%	7%
			Conservation and Park	Single Family Residential	Multi-Family Residential	Office/ Institutional	Industrial	Commercial
Current Zoning Category	38%	Agriculture	10%	26%	1%	<1%	<1%	<1%
	44%	Single-Family Residential	11%	27%	4%	<1%	<1%	2%
	5%	Multi-Family Residential	<1%	1%	2%		<1%	<1%
	0%	Office/Institutional						<1%
	4%	Industrial	<1%	1%	1%		1%	<1%
	9%	Commercial	<1%	3%	1%		1%	3%

-  Indicates that a rezoning is not required to be consistent with the Future Land Use Plan
-  Indicates potentially difficult rezoning
-  Indicates rezoning that might be moderately difficult
-  Indicates potentially easy rezoning

In order to accomplish this analysis, the JGG team made several assumptions including:

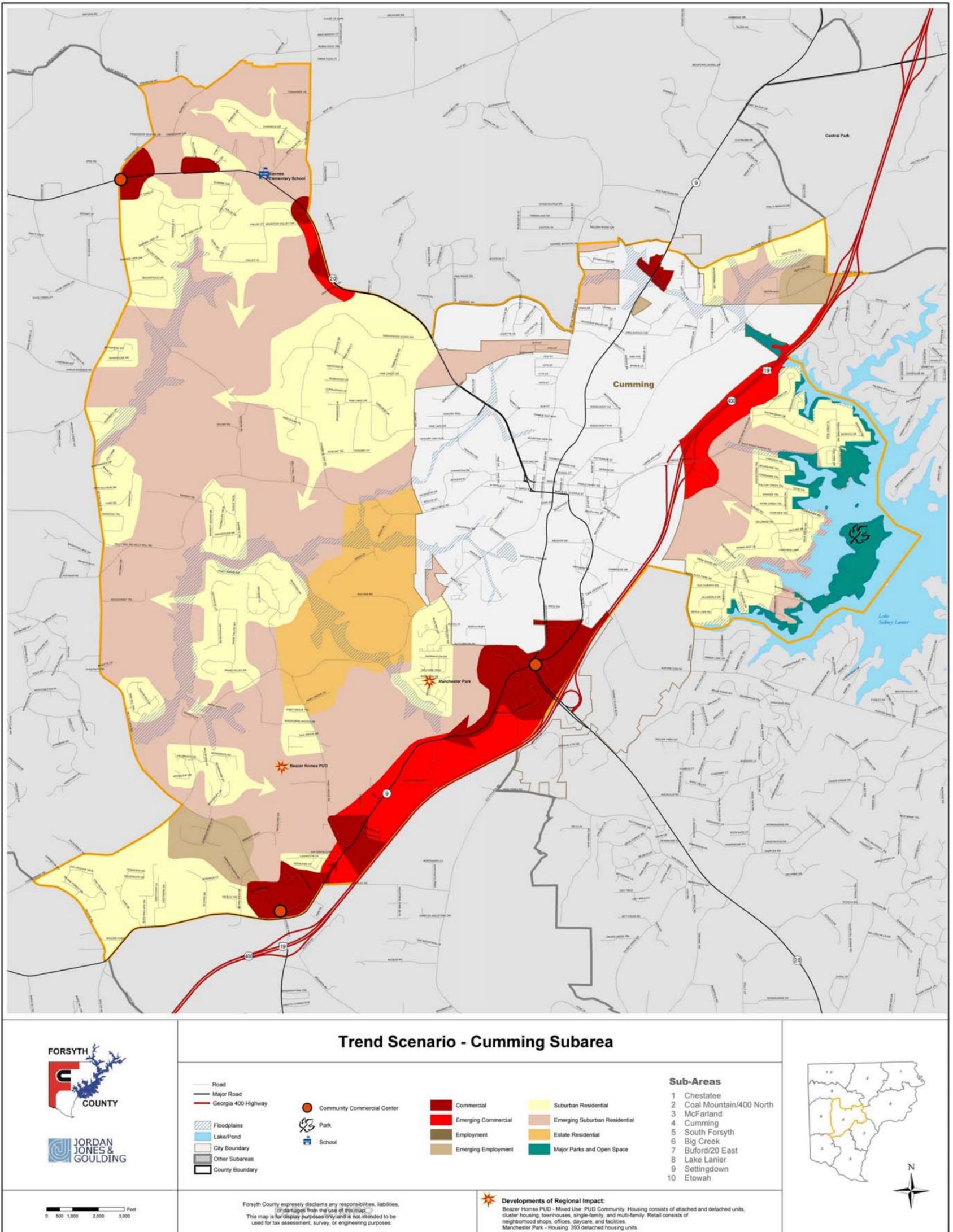
- ◆ Areas that are designated as having future land uses that are different from their existing land uses will be redeveloped;
- ◆ Existing structures that are non-conforming with respect to their current zoning will be redeveloped in a way to bring them into conformance;
- ◆ Future development within broad land use categories (for example, “Commercial”) will consist of a mix of uses and intensities that mirrors the county-wide proportions of land that is currently zoned within that category;
- ◆ Future development restrictions (for example, minimum lot sizes, maximum floor-area-ratios) will be based upon those that are currently expressed in the Unified Development Code;
- ◆ “Density shifting” to accommodate land lying within flood plains will continue to be permitted. In other words, parcels that contain part of their land within flood plains will be allowed to develop at the maximum density permitted, based on the area of the entire parcel, not just the part that is outside the flood plain;
- ◆ Moderately sloping land (>15% but less than 30%) that is designated residential, will eventually be developed; and
- ◆ Sewer and water services will be extended to all areas that require them.

## 2. Trend Scenario Map

A Trend Scenario map was created in order to illustrate this future land use scenario and it is included on the following page as **Figure 7**. The future that this map indicates is not a given, but a likely scenario of how the area will develop over the next 20 years. It shows that existing suburban residential development will spread out and occupy a large amount of the subarea. Continued commercial growth will occur along SR 20, SR 9 and GA 400.

The implications of this trend scenario include increased demands on public infrastructure, such as schools, water, sewer, roads, police and fire protection. It also indicates that the dramatic changes that the area has experienced over the past 10 years are only the beginning of additional changes for the area if current trends continue. The question that this planning exercise poses is one that the citizens of the Cumming area have to answer and that is, “Is this the future we envision for our community?”

Figure 7  
Cumming Trend Scenario



### III. Subarea Committee Recommendations

There were two meetings held from May to June 2003 to discuss the development of a land use plan for the Cumming subarea. A list of the meeting dates can be found in the **Appendix**. At the first meeting the inventory of existing conditions for the subarea was presented, and the participants were asked to help craft a vision for the subarea. At the second meeting, a draft land use plan map was presented along with the draft vision and participants were asked to fill out comments cards, which were presented to the subarea committee for discussion and review. The result of this meeting was a revised land use plan map and a list of policy recommendations that the subcommittee would like to present to the Countywide Land Use Steering Committee for possible inclusion in the county's Comprehensive Plan. The results of these meetings are presented below.

#### A) Cumming Subarea Vision

- The Cumming subarea will primarily be a residential community with close proximity to jobs and commercial areas.
- GA 400 will continue to be a valuable asset that provides connectivity to employment and shopping opportunities.
- Commercial development will take the form of nodes as opposed to “strip commercial”. It should be directed to the major arterials such as GA 400, SR 9 and SR 20. Adopt appropriate design standards to promote quality development throughout the subarea.
- A network of greenways will run throughout the subarea with passive parks and connected trails.
- Provide areas for water retention along SR 9 that can also serve as passive parks.

#### B) Policy Recommendations

- Provide public participation earlier in the development process per the Municipal Code.
- The County needs to prepare a Greenway Master Plan that includes connected greenways throughout the County. Existing natural features such as stream banks and groundwater recharge areas could be utilized.
- Results of the Greenway Master Plan should be added to the Future Land Use Map.
- Identify potential greenspace now and approach property owners with fair market offer for their property.
- Need more land in public parks.
- Consider Northern Arc right-of-way as part of a Greenway Master Plan.
- Current Tree Ordinance needs to be strengthened, with a focus on preserving existing trees and requiring more trees in parking lots.
- Establish architectural and design standards with citizen based design commission to review plans.
- Provide greenspace buffers around commercial developments.
- Connect Activity Centers to residential neighborhoods with sidewalks.
- Limit impervious surfaces and/or stormwater runoff in groundwater recharge areas.
- Need to provide for alternate modes of transportation, such as a trolley, to access commercial areas.

## C) Cumming Land Use Plan Map

The future land use plan is an extension of the goals and values of the community and a culmination of the subarea planning effort. This future land use map is intended to depict a 2025 future land use scenario. The acreages and percentages of each land use are compiled in **Figure 8** and a map showing the location of future land uses is included in **Figure 9**.

There are fourteen land use designations depicted on the future land use map, including three residential designations and six commercial/industrial/mixed-use designations. Below is brief definition of each.

**Low Density Residential** - This category is intended for single-family detached residential dwellings typically on septic sewer systems. Minimum lot size is 30,000 square feet, or the overall density is up to 1.5 units per acre. Institutional uses that are considered complimentary in this area include churches, schools, and libraries.

**Medium Density Residential** - Consists of single-family detached residential dwellings typically on sewer, with overall densities from 1.5 to 2.5 units per acre. Institutional uses that are considered complimentary in this area include churches, schools, and libraries. Private recreational uses, such as golf courses, tennis courts, walking trails and swimming pools are encouraged in these areas in developments greater than 50 lots.

**High Density Residential** - Typical uses include single-family detached and attached dwellings (such as townhouses) as well as multifamily condominiums and apartments, at densities of up to 6 units per acre. These developments should incorporate some amount of central outdoor public space for their residents. A limited number of churches, schools, libraries, other miscellaneous institutional uses and daycare facilities would be complimentary in these areas. An urban-density residential area is usually located near areas of high employment concentration, large commercial nodes, transportation nodes and mixed-use developments. It is essential that these developments include proper buffering between adjacent land uses.

**Office Transitional** - The Office Transitional category is intended to allow for the redevelopment or transition of residential uses along major roadways to office professional uses. It also allows for new office development that is constructed in a manner consistent and in keeping with the surrounding residential uses. The physical character and design of proposed new structures should be compatible with existing establishments. This category includes small single occupant structures for doctors and or accountants, as well as larger offices with multiple tenants. Businesses that are allowed in this category may provide a product directly to customers on the premises as an accessory to the service, but do not, as a primary activity, involve the manufacture, storage, or distribution of products. These areas should provide employment opportunities in close proximity to residential areas while providing a transition between the more intense commercial areas and residential neighborhoods.

**Neighborhood Commercial** - This category includes a limited range of retail and service activities to serve the everyday needs of local residents. Limitations should apply to both size and character of individual establishments. The basic character of this category is one that encourages and assures a compatible mixture of residential, office and retail types of land uses. Businesses in this land use

category should be designed to encourage the development of neighborhood scale shopping that offers both goods and products, and the furnishing of selected services.

**General Commercial** - This category includes standard retail and commercial service activities such as shopping centers, general retailers, specialty shops, grocery stores, drug stores, banks, restaurants, theatres, hotels, dry cleaners and entertainment facilities. These establishments should be located on appropriate transportation corridors to easily serve the public. Visual impacts of these developments should be minimized by requiring buffers, landscaping, and architectural controls.

**Activity Center** - The Activity Center land use category includes commercial, entertainment, limited residential, and public/institutional land uses typically found in a central business district. The commercial business district (CBD) and urban village (UV) zoning classifications are considered appropriate for developments proposed within the Activity Center classification. Developments within the Activity Center classification may be encouraged to consider additional zoning classifications, based on future revisions to the Forsyth County Unified Development Code. The types of uses that are desirable in this area would be restaurants, specialty retail, governmental offices, low-intensity offices (e.g. accountant or real estate office) and appropriate parking. Uses should be complemented with walking, biking and transit opportunities to provide alternative modes of transportation. Also, any roadway improvements that are considered for this area should carefully consider the scale of the area. Residential uses shall be considered accessory and limited to townhouses or apartments mixed into the commercial establishments. Commercial uses must be developed or present first in comparable scale before residential uses can be permitted for construction.

**Corridor Commercial** - The Corridor Commercial category is intended to focus on major transportation corridors, which presently contain a mix of agricultural, residential, commercial, and industrial land uses. Such corridors are unlikely to experience small scale, low or medium density residential development over the course of the planning period.

Developments within the corridor commercial classification will focus on land uses of varying intensity that will allow for the appropriate transition between high-intensity development abutting the transportation corridor as well as provide for a continued decrease of intensity as the development moves away from the transportation corridor. The physical character and design of proposed developments should be compatible with surrounding uses. Inter-parcel connectivity and side street access should be encouraged to minimize curb cuts and improve traffic flow.

Typical uses include standard retail and commercial service activities such as shopping centers, general retailers, specialty shops, grocery stores, drug stores, banks, restaurants, theatres, hotels, dry cleaners, entertainment facilities, multiple tenant offices, small single occupant structures, and entrances to residential subdivisions located outside the corridor commercial designation. The transitional nature of the category should be supported through the use of buffers, landscaping, and architectural controls to minimize the impacts on lower intensity land uses.

**Industrial** - The primary purpose of this category is to provide for areas where light industrial uses can be located. These light industrial uses include light manufacturing, warehousing, wholesale/distribution and assembly. More intensive industrial uses that are characterized by noise, fumes, vibration and other forms of pollution that might be viewed as objectionable by surrounding

uses are acceptable only on a case-by-case basis if well screened and buffered from other uses. Limited commercial uses are also allowed in industrial areas if they compliment existing industrial uses, such as cafeterias and day cares.

**Public / Institutional** - Includes uses such as schools, colleges, hospitals, municipal community centers, churches, cemeteries, municipal buildings and post offices.

**Public Park** - This category includes land dedicated to active and passive recreation uses. These areas are publicly owned and may include sports fields, recreation areas, greenways, and similar uses.

**Private Park** - Privately owned land that is used for active and passive recreation. This may include subdivision amenities areas, golf courses and Army Corps of Engineers recreation areas.

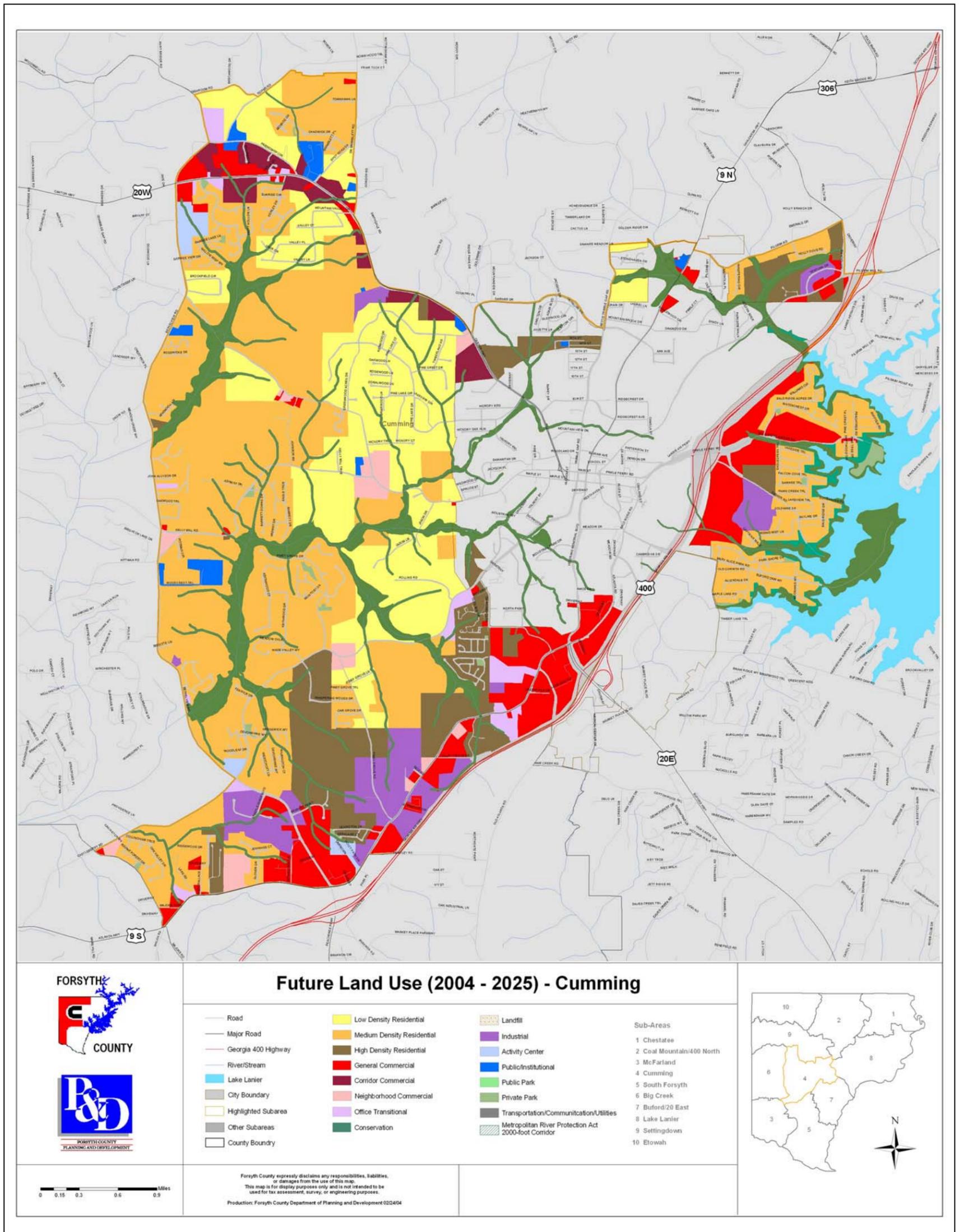
**Conservation** - This classification includes environmentally sensitive areas that are regulated at the local and state levels. Areas included in this category are the 35 ft. buffer along all county streams, a 100 ft. buffer along the Etowah River and land that is part of the 100-year floodplain of local waterways. This land has the potential to be used as public greenways or multi-purpose paths. Land classified as Conservation alerts government officials and property owners to the presence of environmental conditions that shall be factored into the rezoning and permitting process.

**Transportation / Communication / Utilities (TCU)** - This category includes such uses as landfills, water treatment plants, wastewater treatment plants, power substations, rail yards, mass transit facilities, airports, etc. These uses may be either public or private.

**Figure 8**  
**Cumming Future Land Use, 2025**

<b>Land Use</b>	<b>Acres</b>	<b>Percent</b>
Medium Density Residential	4,274	31.7%
Cumming	2,802	20.8%
Low Density Residential	1,896	14.1%
Road Right-of Way (TCU)	1,192	8.8%
High Density Residential	929	6.9%
General Commercial	952	7.1%
Industrial	454	3.4%
Corridor Commercial	201	1.5%
Conservation (Lake Lanier US Corps land only)	162	1.2%
Private Park	154	1.1%
Neighborhood Commercial	147	1.1%
Office-Transitional	135	1.0%
Public/Institutional	105	0.8%
Activity Center (Commercial)	72	0.5%
Public Park	0	0.0%
Transportation/Communication/Utilities	0	0.0%
<b>Total Land Acreage</b>	<b>13,475</b>	<b>100.0%</b>

Figure 9  
 Cumming 2025 Future Land Use Plan



# Appendix

## **A. Cumming Subarea Advisory Committee**

Lisa Hoxie  
Lynn Bayles  
Richard Webb  
Teddy Dumont  
Reva Jennings

## **B. Meeting Dates**

Cumming Area Subarea Public Visioning Workshop – May 8th at 6:00 PM in the Sawnee Cultural Center

Cumming Area Subarea Advisory Committee Meeting – June 17th at 7:00 PM in the Sawnee Cultural Center

Forsyth County  
Comprehensive Plan

South Forsyth Subarea  
Land Use Report

September 25, 2003



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# I. Introduction

## A) Purpose

In preparing the 2003 Update to the Forsyth County Comprehensive Plan, the County initiated an ambitious public involvement process. In order to better analyze the County's needs and elicit a higher degree of community participation, the county was divided into ten planning subareas (**Figure 1**) with individual committees established to develop specific land use policies and a future land use map for their subarea. The subarea boundaries were determined by a variety of factors including: physical barriers, historical communities, economics and transportation corridors.

This information was gathered to help enable the community to look at where they are today, how they got there and where they want to go in the future. Included in this document are the findings from the land use inventory and assessment for the South Forsyth subarea, as well as the recommendations of the South Forsyth Subarea Advisory Committee. The membership of the committee and the meeting dates can be found in the **Appendix**.

## B) Scope

The following report provides a current "snapshot" of the South Forsyth subarea. First, a description of existing land uses in the subarea is provided, along with an existing land use map and summary table. This is followed by an inventory of environmentally sensitive areas. These two sets of information allow the community to identify those sections of the subarea that could potentially be developed in the future, as well as those areas that should be protected from development pressures.

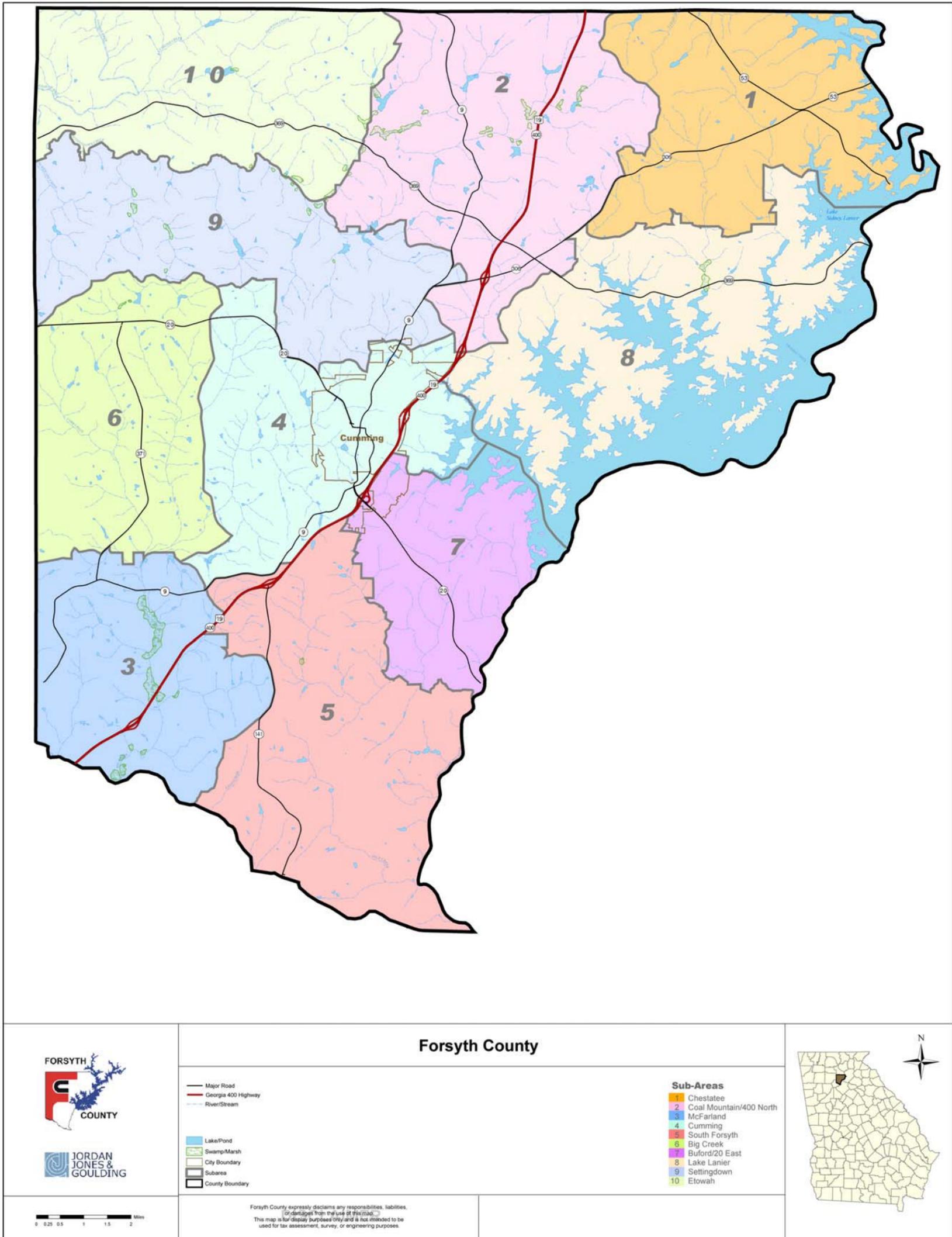
Following this inventory is an examination of the historic development patterns in the South Forsyth subarea. This includes a discussion of demographic changes in the subarea between 1990 and 2000, as well as an estimate of land consumption during the last decade. There is also a summary of the historical factors that have led to the current development patterns.

An examination of future development trends is also provided. This includes an assessment of the future sewer and transportation infrastructure needs, as well as the identification of transitional areas that could potentially be redeveloped. Forsyth County's land use polices are also examined in order to determine what is allowed to develop under the current regulations. Finally, this report includes the subarea vision and policy recommendations developed by the South Forsyth Subarea Advisory Committee, and a copy of the future land use map for the subarea.

## C) Location

The South Forsyth subarea is located in the southeast corner of Forsyth County. GA 400 cuts diagonally along the northwest border of this subarea. The general boundaries include Fulton County to the south, Gwinnett County to the east, the McFarland subarea to the west, the Cumming subarea to the north, and the Buford/GA Hwy 20 subarea to the northeast.

Figure 1  
Forsyth County Subarea Locations



## II. Inventory of Existing Conditions

### A) Description of Existing Land Uses

A comprehensive land use survey was conducted for Forsyth County in the Summer of 2002 using tax parcel maps, aerial photographs and field review. In April 2003, JJG conducted a field review and a review of aerial photographs to verify the land uses in the South Forsyth subarea. These land uses are shown on **Figure 2** on the following page and summarized in **Figure 3** below.

**Figure 3: South Forsyth Existing Land Use, 2003**

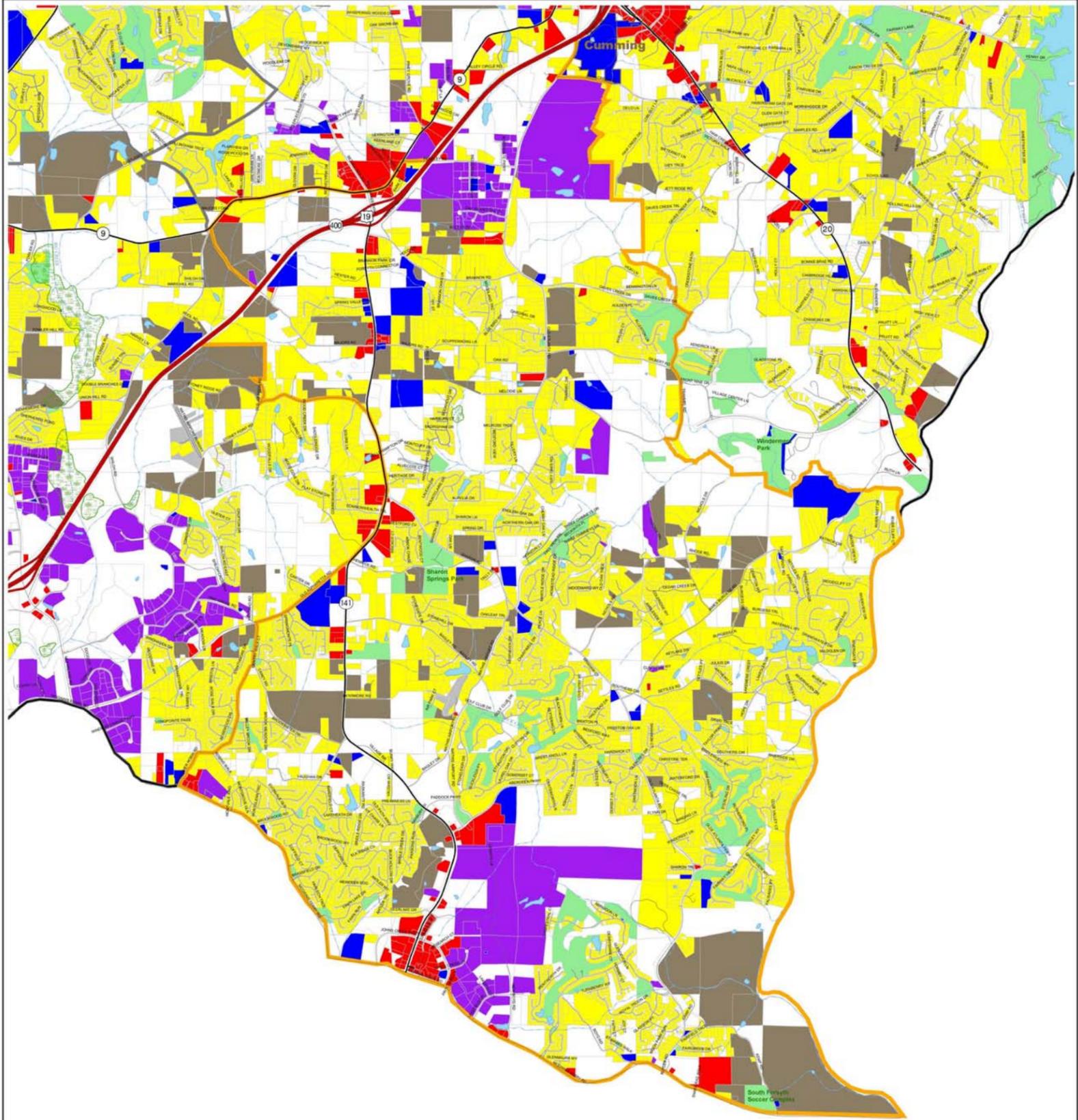
<b>Land Use</b>	<b>Acres</b>	<b>Percent</b>
Residential	7,063.73	37.83%
Undeveloped	5,028.08	26.93%
Agriculture	1,871.69	10.02%
Road Right-of-way	1,432.73	7.67%
Industrial	1,394.02	7.47%
Parks/Recreation/Conservation	1,028.84	5.51%
Institutional/Public	456.10	2.44%
Commercial	380.39	2.04%
<b>South Forsyth Total</b>	<b>18,673.14</b>	<b>100.00%</b>
Total Sq. Miles for Sub Area	29.2	--

As indicated in the table above, the largest land use category in the South Forsyth subarea is residential, comprising 38 percent of the subarea. Practically all of this residential land is made up of single-family homes. The average lot size is little more than one acre.

The second largest category is undeveloped land, which makes up 27 percent of the subarea. Undeveloped land is scattered throughout the area, though the largest concentration is located along the eastern border of the subarea, that area farthest away from GA 400 and Peachtree Parkway.

The remaining land uses make up 35 percent of the total area of the subarea. These uses include a variety of land use categories, such as agriculture, industrial, parks, institutional and commercial. It is worth noting that though industrial uses only account for approximately 1,400 acres or 7% of the total land area. South Forsyth does contain the second largest concentration of industrial uses in the county. Only the McFarland subarea contains more industrial land. The most prominent of these uses is John's Creek, a business park located around the intersection of McGinnis Ferry Road and Peachtree Parkway.

**Figure 2**  
**South Forsyth Existing Land Use Map**



**Existing Land Use - South Forsyth Subarea**

- Road
- Major Road
- Georgia 400 Highway
- River/Stream
- Lake/Pond
- Swamp/Marsh
- City Boundary
- Subarea
- County Boundary

- Landuse Codes**
- Residential
  - Commercial
  - Industrial
  - Institutional/Public

- Transportation/Communication/Utilities
- Parks/Recreation/Conservation
- Agriculture
- Undeveloped

**Sub-Areas**

- 1 Chestatee
- 2 Coal Mountain/400 North
- 3 McFarland
- 4 Cumming
- 5 South Forsyth
- 6 Big Creek
- 7 Buford/20 East
- 8 Lake Lanier
- 9 Settingdown
- 10 Etowah



Forsyth County expressly disclaims any responsibilities, liabilities, or damages from the use of this map. This map is for display purposes only and is not intended to be used for tax assessment, survey, or engineering purposes.

## B) Environmentally Sensitive Areas

### 1. Historic Resources

In the mid-1990s a historic resources inventory was completed for Forsyth County. The Historic Resources Survey Report identified 490 historic resources in unincorporated Forsyth County. Sixty-five (65) of these historic sites were located in the South Forsyth subarea. According to the Survey Report at least ten of these sites have potential for National Register listing.

### 2. Water Resources

There are 676 acres of 100-year floodplains in the South Forsyth subarea. Development is regulated in this area by the Federal Emergency Management Agency, the Georgia Floodplain Management Program of DNR and by local ordinances. Most of the floodplain associated with the South Forsyth area is located along Dick Creek and James Creek, tributaries of the Chattahoochee River.

There are 4,863 acres of land associated with groundwater recharge areas in the South Forsyth subarea. Significant recharge areas have been mapped by the Georgia Department of Natural Resources at the state level. If a significant recharge area is identified, the local government must comply with the Official Code Georgia Annotated 12-2-8. This Code outlines restrictions on locating landfills and hazardous waste facilities, above ground chemical or petroleum storage tanks, agricultural waste, impoundment sites, septic tank drain fields, slow rate land treatment, storm water infiltration basins, and waste treatment basins. There are two large recharge areas located in the South Forsyth subarea. One is located along both sides of GA 400, and the other is located east of Peachtree Parkway between the headwaters of the Dick and James Creeks.

### 3. Steep Slopes

There are 4,213 acres of steep slopes (15% grade or greater) in the South Forsyth subarea. This amounts to approximately 22 percent of the total land area in the subarea. Most of these steep slopes are located in the eastern portion of the subarea and are associated with the stream banks of Dick and James Creeks. The vast majority of this area is dedicated to residential land uses, so steep slope is not a major deterrent to future land development of the area.

### 4. Conservation & Park Lands

There is only one active county park located in the South Forsyth subarea, Sharon Springs Park. The park includes seven youth baseball/softball fields, a senior baseball field, a football field, a soccer field, outdoor basketball courts, eight tennis courts, a playground, a walking trail, a picnic pavilion, and a community building/kitchen. It was constructed in 1994, and was the first sports complex in the county. Built with SPLOST funding, the park has had significant additions--a community building to answer indoor programming needs, day camps and cultural activities, and a football/soccer concession building. Sharon Springs Park remains the most consistently used park in the county.

The county is building another park on a 20-acre site on Kemp Road, which will be known as the South Forsyth Soccer Complex. It is scheduled to be opened in the Fall of 2003, and will include four lighted soccer fields and a practice field.

The locations of the natural and cultural resources in the South Forsyth subarea are shown on the map included as **Figure 4**.

## C) Historic Development Patterns

### 1. Demographics

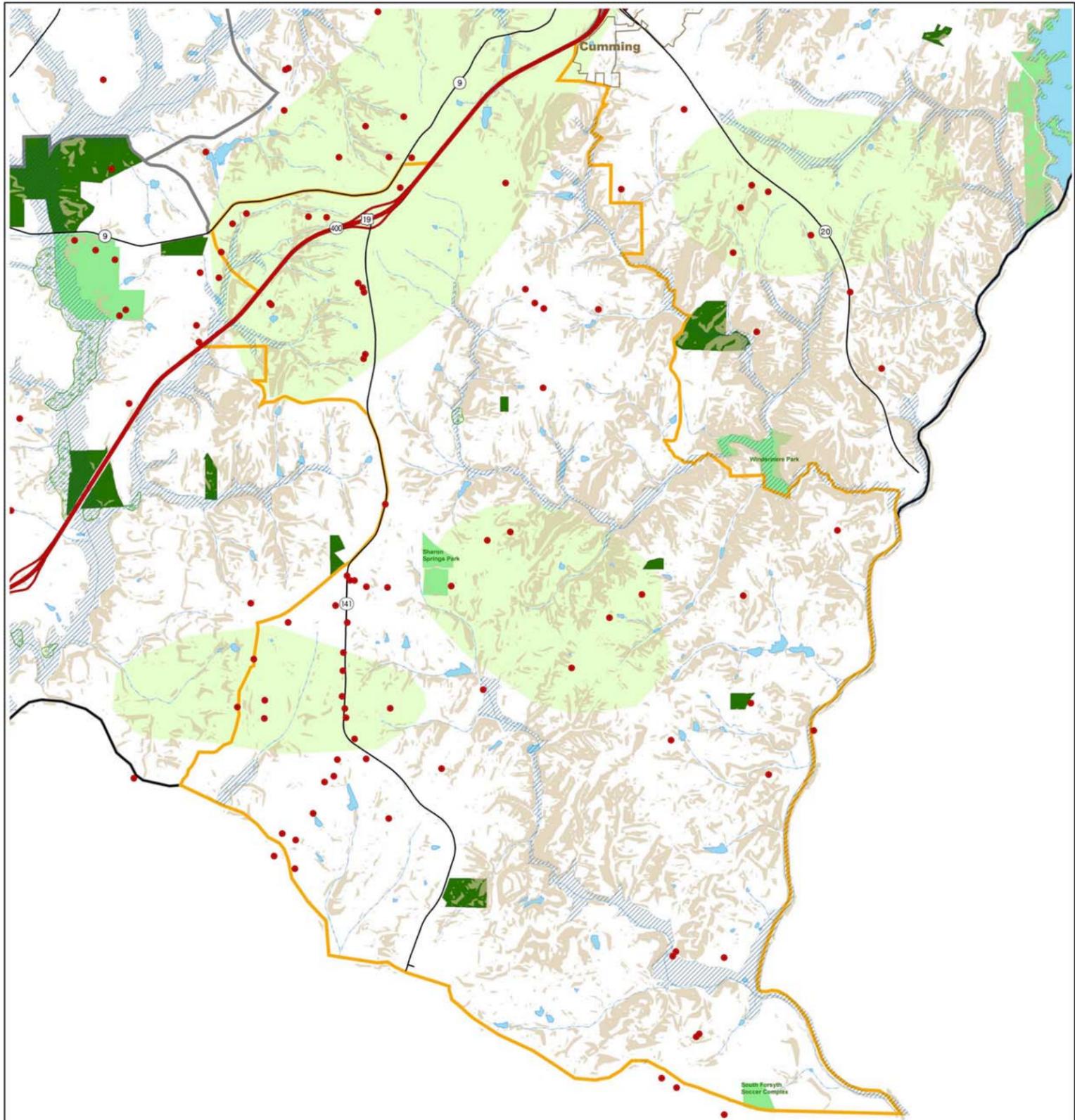
Forsyth County is one of the fastest growing counties in the United States, and South Forsyth is the fastest growing subarea in the county. In 2000, the population of the South Forsyth subarea totaled 20,554. This is an increase of 378% percent since 1990. The population density of the area is 701 people per square mile. That represents the highest population density of any subarea in the county.

The South Forsyth subarea is 94 percent white. The age distribution figures indicate the majority of residents in this area are 30-39 years of age. The second largest age category is children between the ages of 5 and 17. The largest increase in age distribution has been for the groups 5 and under and 30 to 39 years of age. **Figure 5** provides a comparison of the demographic statistics for the area for 1990 and 2000.



The number of housing units in the South Forsyth subarea exploded during the 1990s. In 1990, there were 1,665 housing units and by 2000 the number of units increased to 7,008, a 321 percent increase. During the 1990s the vacancy rate was cut in half, dropping from 6.1 percent in 1990 to 2.8 percent in 2000. The housing units in this area are largely owner-occupied, with 94 percent being owner-occupied and 6 percent renter occupied units. The number of owner-occupied units increased by 400 percent during the 1990s.

**Figure 4**  
**South Forsyth Natural and Cultural Resources Map**



 <p><b>FORSYTH COUNTY</b></p>  <p><b>JORDAN JONES &amp; GOULDING</b></p>	<p><b>Natural and Cultural Resources - South Forsyth Subarea</b></p>	 <p style="text-align: center;">N</p>
	<p style="font-size: small;">Forsyth County expressly disclaims any responsibilities, liabilities, or damages from the use of this map. This map is for display purposes only and is not intended to be used for tax assessment, survey, or engineering purposes.</p>	

**Figure 5**  
**South Forsyth Subarea Demographics**  
**1990 – 2000**

	1990	2000	Percent Change
Total Population	4,298	20,554	378.2%
<b><i>Racial and Cultural Distribution*</i></b>			
White	4,274	19,432	354.7%
Black or African-American	2	163	8,050.0%
Asian	10	426	4,160.0%
Hispanic or Latino of any race	65	842	1,195.4%
<b><i>Age Distribution</i></b>			
Under 5	358	2,554	613.4%
5 to 17	805	3,900	384.5%
18 to 21	234	523	123.5%
22 to 29	590	1,439	143.9%
30 to 39	864	5,157	496.9%
40 to 49	659	3,410	417.5%
50 to 64	542	2,760	409.2%
65 and over	311	811	160.8%
<b><i>Housing</i></b>			
Total Units	1,665	7,008	320.9%
Occupied	1,564	6,811	335.6%
Vacancy Rate	6.1%	2.8%	-3.3%
Owner Occupied	1,290	6,455	400.4%
Renter Occupied	274	356	29.9%
* Note: The racial and cultural distribution numbers total to a sum larger than the total population. Hispanic is a cultural descriptor and is not exclusive of race. In other words, many who consider themselves Hispanic also consider themselves White.			

## 2. Development Activity

It is estimated that since 1990 approximately one-third of the land (6,000 acres) in the South Forsyth subarea has been developed. Most of this construction has been for residential uses. Even with this large increase in developed acres, it is estimated there are still another 5,700 acres that could be developed in the South Forsyth subarea.

One of the tools the JJG team used to evaluate development activity in the county is the occurrence of Developments of Regional Impact (DRIs) since 1990. A DRI review is required by law to be completed for large-scale developments that are likely to have impacts outside of the jurisdiction(s) where they are located. The Georgia Planning Act of 1989 authorized the Department of Community Affairs (DCA) to establish procedures for intergovernmental review of these large-scale projects. More than 40 DRI reviews have been completed in Forsyth County since 1990, with nine

of these located in the South Forsyth subarea. This is the largest concentration of DRIs in the county.

The South Forsyth DRIs include the following:

- Grand Cascade - Housing: 560 single-family residences with river front community recreation facility.
- Laurel Springs - Housing: 854 single-family homes, 18-hole golf course.
- Windermere - Mixed Use: Office, commercial, housing, and recreational facilities.
- The Paddocks - Mixed Use: Mostly office and supportive uses for office developments.
- Omni Developments - Mixed Use: Office and industrial.
- Harrison - Mixed Use: Retail and other commercial uses; office, office distribution and multi-family residential.
- Orby Group - Housing: Multi-family residential development; Park and Residential (2 units/acre).
- Riverbrooke Properties - Mixed Use: Single-family detached residential development with amenities, including park, commercial and industrial land use.
- James Creek Community - Housing: Proposed development of 343.34 acres of land as a PUD. There will be 1028 attached and detached homes. Applicant also proposes to develop seven of the acres as commercial.

## D) Future Development Trends

### 1. Future Infrastructure

One of the primary drivers of development is the provision for public infrastructure, particularly sewer and roads. The availability of sewer allows for higher density land uses such as apartments or small-lot subdivisions (less than one-half acre lots). Roads are also primary drivers of change because they provide access to desired destinations, such as jobs and shopping. Better access leads to a higher land value and a greater likelihood of more intensive land uses.

The following paragraphs list the planned transportation improvements for 2005, 2010 and 2020 in the county as defined in the 2002 Update of the county's Major Transportation Plan. There are numerous transportation improvements planned for the South Forsyth subarea. In the short-term several key roadways are planned to be widened from two to four lanes, including:

- Peachtree Parkway (GA Hwy 141)
- Bagley Drive
- Mathis Airport Road
- Old Atlanta Road
- Atlanta Highway (GA Hwy 9)

Two new four lane roads are also planned to be constructed by 2005, namely Market Place Parkway, a frontage road that will run parallel to GA 400, and Mathis Airport Road Extension which will link Peachtree Parkway (GA Hwy 141) with Buford Hwy (GA Hwy 20).

By 2010, GA 400 and Peachtree Parkway are planned to be further widened to six lanes, and Old Alpharetta Road is planned to be widened to four lanes. In the long term, by 2020, GA 400 is planned to be widened to eight lanes, and Laurel Springs Parkway is planned to be widened to four lanes from Peachtree Parkway to Old Atlanta Road.

Sewer is available throughout most of the southern portion of the South Forsyth subarea. The county's Sewer System Master Plan shows that a new water reclamation facility (WRF) will be constructed at the southern tip of the county close to the Chattahoochee River, the Threatt WRF. In addition, gravity sewer lines are planned to be constructed in the short-term to provide sewer to the rest of the subarea. These improvements are a high priority on the plan and will likely be constructed within the next five to ten years.

One of the strongest influences on the future development of the South Forsyth subarea will be continued expansion of the Atlanta urbanized area. Over the last ten years, the southern half of the county has experienced intense development pressure, and this pressure is moving northward along either side of GA 400. Because of this growth pressure, land values in the southern portion of the county are likely to continue to rise, making it more economical for higher density development, particularly for those areas closest to GA 400.

## 2. Transitional Areas

There are still large tracts of available land for development in the South Forsyth subarea, so the likelihood of redevelopment is small. Generally, it is more expensive to tear down or renovate existing structures compared to constructing new, so as long as land is available with the same locational benefits as existing structures, new construction is likely to locate on vacant land.

## 3. Current Land Use Policies

The 2015 Future Land Use map for the South Forsyth subarea identifies over 67 percent of the area to be developed as large-lot single-family houses, 7 percent to be developed as industrial uses, and 17 percent to be conserved as parkland and open space. Current land use policy was analyzed by examining the primary tools of land use including the Unified Development Code and the Land Use Element of the Comprehensive Plan. The JJG team also examined the current zoning and 2015 Future Land Use maps to determine any implications that might arise from those elements.

A difference exists between the way land is currently zoned in Forsyth County and the 2015 Future Land Use map. In order to achieve the future land uses that are envisioned in the Comprehensive Plan, large amounts of land would have to be re-zoned. Rezoning would have to occur not only within land use categories, but significant amounts of land would have to be rezoned into entirely different categories. **Figure 6** on the following page shows the amount of land that would have to be rezoned to provide consistency with the 2015 Future Land Use map. For example, **Figure 9** shows that seven percent of the land is zoned for commercial use and four percent of this land (or 57% of the commercial zoned property) would need to be rezoned for single-family residential use to be consistent with the Land Use Plan.

The chart included as **Figure 6** shows the amount of land within the South Forsyth subarea that is intended for conversion from a current zoning category (rows), to a future land use category (columns). Individual cells of the table are currently zoned within a particular category (shown by the row) and intended for a particular future land use category (shown by the column). Percentages

within each cell indicate the percentage of total land area that is categorized by a particular zoning category/future land use category combination.

The colored areas of the chart indicate land that is currently intended for a future land use that is different from the way the land is currently zoned. At the present time, approximately 53% of the South Forsyth subarea is intended to perform the same use as it is currently allowed by zoning (shown by the white areas). To achieve the land uses shown in the current future land use map, 47% of the land will require rezonings. Areas shown in red represent required “downzonings” – zoning changes that are traditionally difficult to perform because they further restrict the use of the land. This comprises approximately 17% of the subarea. Areas shown in green represent required “upzonings” – zoning changes that are traditionally easier to perform because they generally increase the allowable uses of the land. This comprises approximately 30% of the subarea.

Approximately 30% of the South Forsyth subarea is currently intended to be moved away from agricultural zoning, to a mixture of residential (27%), and other uses (3%). Seven percent of the land currently zoned agricultural is intended for conservation and/or park use (primarily flood plain) and as such would not require a rezoning to be consistent with the Land Use Plan. Although the current land use regulations allow single-family residences on land zoned agricultural, this represents a significant conversion of the land’s purpose.

**Figure 6**  
**South Forsyth Rezoning to Match Future Land Use Plan**

			Future Land Use Category					
				67%	3%	1%	7%	5%
			Conservation and Park *	Single Family Residential	Multi-Family Residential	Office/ Institutional	Industrial	Commercial
Current Zoning Category	37%	Agriculture	7%	27%	2%	<1%	<1%	<1%
	39%	Single-Family Residential	8%	29%	<1%	<1%	<1%	<1%
	3%	Multi-Family Residential	<1%	<1%	<1%		<1%	<1%
	1%	Office Institutional	<1%	<1%			<1%	<1%
	13%	Industrial	1%	4%			5%	<1%
	7%	Commercial	<1%	4%		<1%	<1%	2%

\* Note: Conservation and park land can be associated with any zoning category.

- Indicates that a rezoning is not required to be consistent with the future Land Use Plan
- Indicates potentially difficult rezoning
- Indicates rezoning that might be moderately difficult
- Indicates potentially easy rezoning

## E) Trend Scenario

### 1. Methodology

As part of the JJG team's examination of current land use policies and their potential impacts, an analysis of current development trends for the South Forsyth subarea was performed. It was based upon the existing Future Land Use map, rezoning history, and real estate market preferences. This analysis had no specific time horizon. It is intended to gain an understanding of the ultimate impact of future development, if such development follows existing trends and is guided by existing land use policy.

In order to accomplish this analysis, the JJG team made several assumptions including:

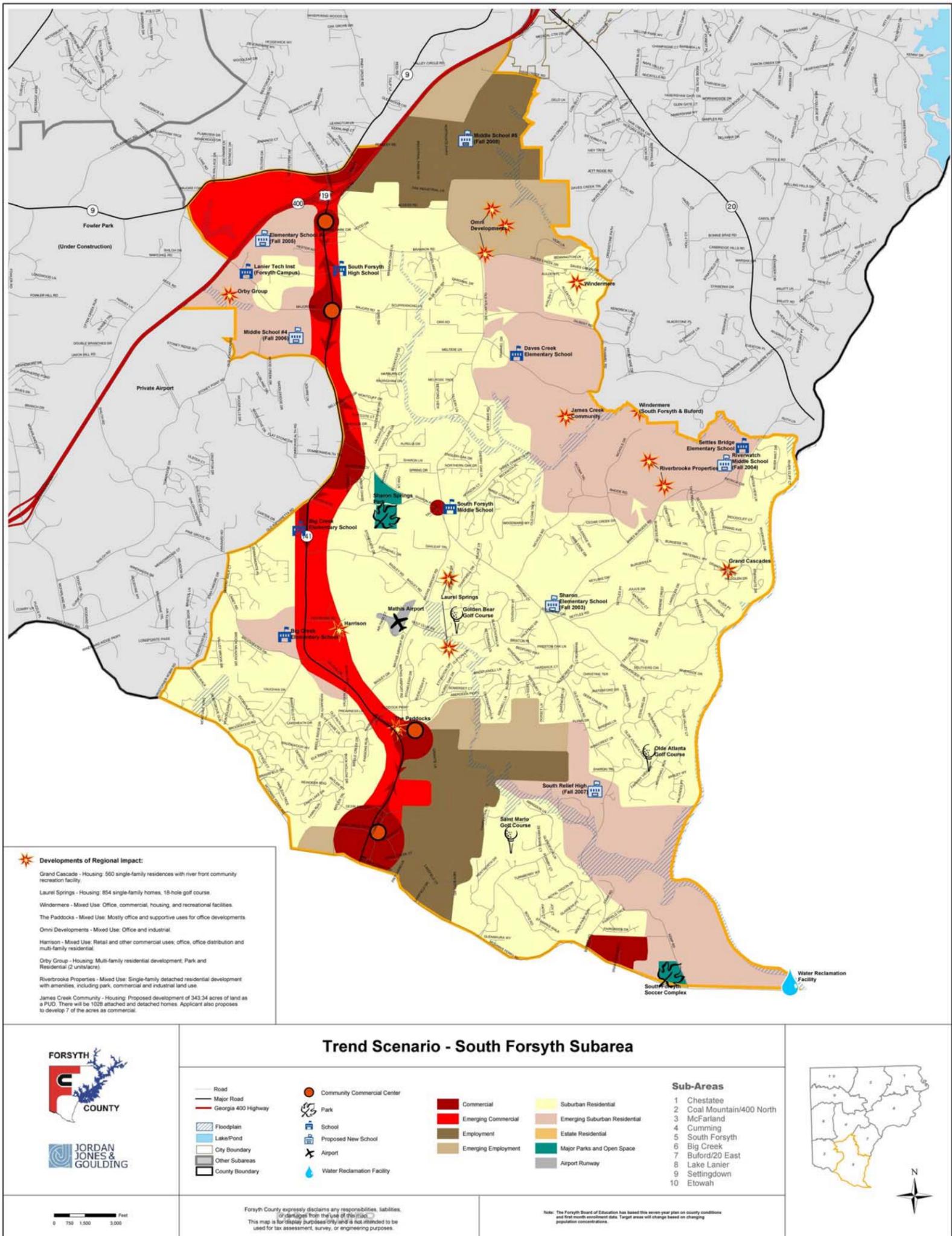
- ◆ Areas that are designated as having future land uses that are more intensive than their existing land uses will be redeveloped;
- ◆ Future development within broad land use categories (for example, "Commercial") will consist of a mix of uses and intensities that mirrors the county-wide proportions of land that are currently zoned within that category;
- ◆ Future development restrictions (for example, minimum lot sizes, maximum floor-area-ratios) will be based upon those that are currently expressed in the Unified Development Code;
- ◆ "Density shifting" to accommodate land lying within flood plains will continue to be permitted. In other words, parcels that contain part of their land within flood plains will be allowed to develop at the maximum density permitted, based on the area of the entire parcel, not just the part that is outside the flood plain;
- ◆ Moderately sloping land (>15% but less than 30%) that is designated residential, will eventually be developed; and
- ◆ Sewer and water services will be extended to all areas that require them.

### 2. Trend Scenario Map

A Trend Scenario map was created in order to illustrate this future land use scenario and it is included on the following page as **Figure 7**. The future that this map indicates is not a given, but a likely scenario of how the area will develop over the next twenty years. It shows that existing residential developments will spread out and occupy most of the land in the subarea, and additional commercial development along Peachtree Parkway (GA Hwy 141).

The implications of this trend scenario include increased demands on public infrastructure, such as schools, water, sewer, roads, police and fire protection. It also indicates that the dramatic changes that the subarea has experienced over the past ten years are only the beginning. The question that this planning exercise poses is one that the citizens of the South Forsyth area have to answer, and that is "Is this the future that we envision for our community?"

**Figure 7  
South Forsyth Trend Scenario Map**



### III. Subarea Committee Recommendations

There were two meetings held from May to June 2003 to discuss the development of a land use plan for the South Forsyth subarea. A list of the meeting dates can be found in the **Appendix**. At the first meeting the inventory of existing conditions for the subarea was presented, and the participants were asked to help craft a vision for the subarea. At the second meeting, a draft land use plan map was presented along with the draft vision and participants were asked to fill out comments cards, which were presented to the subarea committee for discussion and review. The result of this meeting was a revised land use plan map and a list of policy recommendations that the subcommittee would like to present to the Countywide Land Use Steering Committee for possible inclusion in the county's Comprehensive Plan. The results of these meetings are presented below.

#### A) South Forsyth Subarea Vision

- The South Forsyth subarea will offer its residents a high quality of life, opportunities for employment, shopping and recreation, and a safe environment.
- It will be the site of quality development distinctive from other areas of the county and the rest of the Atlanta region. The subarea will be known to have grown in a responsible manner.
- Available open space with passive parks and connected trails will be one of the area's prime assets.
- New activity centers will be located along Peachtree Parkway both near its intersection with Old Alpharetta Road and GA 400, offering convenient access to commercial services and employment opportunities.
- A network of well-engineered roads, bike trails and sidewalks will provide circulation alternatives.
- Sewer will be extended throughout the subarea.
- Citizens will have easy access to libraries and other government services.

#### B) Policy Recommendations

- Land Use Plan should be coordinated with the latest SPLOST.
- The County needs to prepare a Greenway Master Plan that includes connected greenways throughout the County. Existing natural features such as stream banks and groundwater recharge areas could be utilized.
- Need more land in public parks.
- Consider Northern Arc right-of-way as part of a Greenway Master Plan.
- Current Tree Ordinance needs to be strengthened, with a focus on preserving existing trees and requiring more trees in parking lots.
- Widen existing stream buffers from 35 ft. to between 50 - 100 ft.
- Prepare a Feasibility Study on Transfer of Development Rights (TDRs) countywide, in order to preserve open space.
- Need to protect 30% of South Forsyth subarea for open space.
- Densities used for Future Land Use should be lowered.

- Establish architectural and design standards with citizen based design commission to review plans.
- Limit industrial land uses to areas that would not disturb environmentally sensitive areas. Industry should only be clean and high tech.
- Office parks in the county should be pedestrian friendly.
- Have infrastructure in place in advance of rezonings.
- Subarea plans should reflect infrastructure plans.
- Create more grid pattern streets in large developments.

## C) South Forsyth Land Use Plan Map

The future land use plan is an extension of the goals and values of the community and a culmination of the subarea planning effort. This future land use map is intended to depict a 2025 future land use scenario. The acreages and percentages of each land use are compiled in **Figure 8** and a map showing the location of future land uses is included in **Figure 9**.

There are fourteen land use designations depicted on the future land use map, including three residential designations and six commercial/industrial/mixed-use designations. Below is brief definition of each.

**Low Density Residential** - This category is intended for single-family detached residential dwellings typically on septic sewer systems. Minimum lot size is 30,000 square feet, or the overall density is up to 1.5 units per acre. Institutional uses that are considered complimentary in this area include churches, schools, and libraries.

**Medium Density Residential** - Consists of single-family detached residential dwellings typically on sewer, with overall densities from 1.5 to 2.5 units per acre. Institutional uses that are considered complimentary in this area include churches, schools, and libraries. Private recreational uses, such as golf courses, tennis courts, walking trails and swimming pools are encouraged in these areas in developments greater than 50 lots.

**High Density Residential** - Typical uses include single-family detached and attached dwellings (such as townhouses) as well as multifamily condominiums and apartments, at densities of up to 6 units per acre. These developments should incorporate some amount of central outdoor public space for their residents. A limited number of churches, schools, libraries, other miscellaneous institutional uses and daycare facilities would be complimentary in these areas. An urban-density residential area is usually located near areas of high employment concentration, large commercial nodes, transportation nodes and mixed-use developments. It is essential that these developments include proper buffering between adjacent land uses.

**Office Transitional** - The Office Transitional category is intended to allow for the redevelopment or transition of residential uses along major roadways to office professional uses. It also allows for new office development that is constructed in a manner consistent and in keeping with the surrounding residential uses. The physical character and design of proposed new structures should be compatible with existing establishments. This category includes small single occupant structures

for doctors and or accountants, as well as larger offices with multiple tenants. Businesses that are allowed in this category may provide a product directly to customers on the premises as an accessory to the service, but do not, as a primary activity, involve the manufacture, storage, or distribution of products. These areas should provide employment opportunities in close proximity to residential areas while providing a transition between the more intense commercial areas and residential neighborhoods.

**Neighborhood Commercial** - This category includes a limited range of retail and service activities to serve the everyday needs of local residents. Limitations should apply to both size and character of individual establishments. The basic character of this category is one that encourages and assures a compatible mixture of residential, office and retail types of land uses. Businesses in this land use category should be designed to encourage the development of neighborhood scale shopping that offers both goods and products, and the furnishing of selected services.

**General Commercial** - This category includes standard retail and commercial service activities such as shopping centers, general retailers, specialty shops, grocery stores, drug stores, banks, restaurants, theatres, hotels, dry cleaners and entertainment facilities. These establishments should be located on appropriate transportation corridors to easily serve the public. Visual impacts of these developments should be minimized by requiring buffers, landscaping, and architectural controls.

**Activity Center** - The Activity Center land use category includes commercial, entertainment, limited residential, and public/institutional land uses typically found in a central business district. The commercial business district (CBD) and urban village (UV) zoning classifications are considered appropriate for developments proposed within the Activity Center classification. Developments within the Activity Center classification may be encouraged to consider additional zoning classifications, based on future revisions to the Forsyth County Unified Development Code. The types of uses that are desirable in this area would be restaurants, specialty retail, governmental offices, low-intensity offices (e.g. accountant or real estate office) and appropriate parking. Uses should be complemented with walking, biking and transit opportunities to provide alternative modes of transportation. Also, any roadway improvements that are considered for this area should carefully consider the scale of the area. Residential uses shall be considered accessory and limited to townhouses or apartments mixed into the commercial establishments. Commercial uses must be developed or present first in comparable scale before residential uses can be permitted for construction.

**Corridor Commercial** - The Corridor Commercial category is intended to focus on major transportation corridors, which presently contain a mix of agricultural, residential, commercial, and industrial land uses. Such corridors are unlikely to experience small scale, low or medium density residential development over the course of the planning period.

Developments within the corridor commercial classification will focus on land uses of varying intensity that will allow for the appropriate transition between high-intensity development abutting the transportation corridor as well as provide for a continued decrease of intensity as the development moves away from the transportation corridor. The physical character and design of proposed developments should be compatible with surrounding uses. Inter-parcel connectivity and side street access should be encouraged to minimize curb cuts and improve traffic flow.

Typical uses include standard retail and commercial service activities such as shopping centers, general retailers, specialty shops, grocery stores, drug stores, banks, restaurants, theatres, hotels, dry cleaners, entertainment facilities, multiple tenant offices, small single occupant structures, and entrances to residential subdivisions located outside the corridor commercial designation. The transitional nature of the category should be supported through the use of buffers, landscaping, and architectural controls to minimize the impacts on lower intensity land uses.

**Industrial** - The primary purpose of this category is to provide for areas where light industrial uses can be located. These light industrial uses include light manufacturing, warehousing, wholesale/distribution and assembly. More intensive industrial uses that are characterized by noise, fumes, vibration and other forms of pollution that might be viewed as objectionable by surrounding uses are acceptable only on a case-by-case basis if well screened and buffered from other uses. Limited commercial uses are also allowed in industrial areas if they compliment existing industrial uses, such as cafeterias and day cares.

**Public / Institutional** - Includes uses such as schools, colleges, hospitals, municipal community centers, churches, cemeteries, municipal buildings and post offices.

**Public Park** - This category includes land dedicated to active and passive recreation uses. These areas are publicly owned and may include sports fields, recreation areas, greenways, and similar uses.

**Private Park** - Privately owned land that is used for active and passive recreation. This may include subdivision amenities areas, golf courses and Army Corps of Engineers recreation areas.

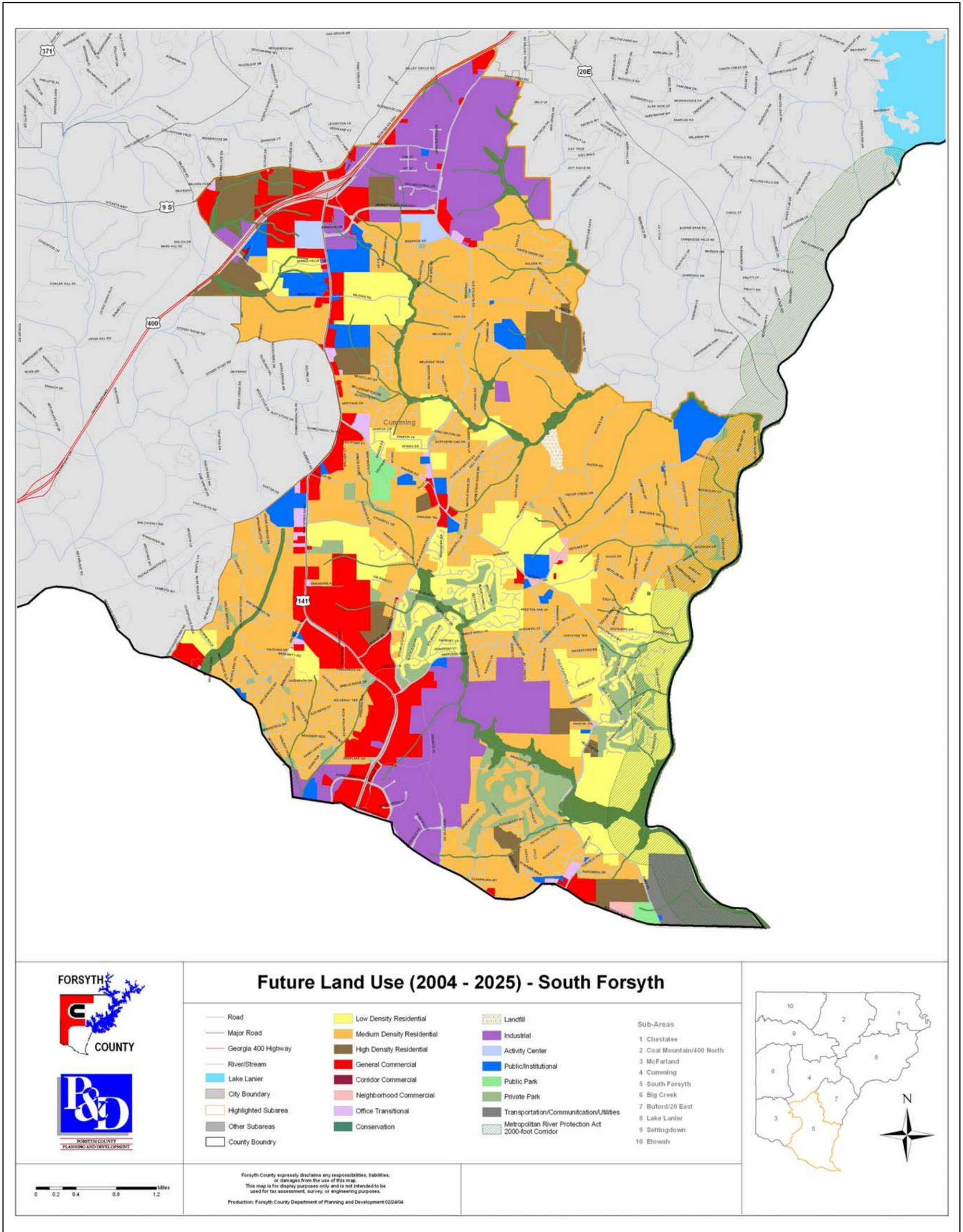
**Conservation** - This classification includes environmentally sensitive areas that are regulated at the local and state levels. Areas included in this category are the 35 ft. buffer along all county streams, a 100 ft. buffer along the Etowah River and land that is part of the 100-year floodplain of local waterways. This land has the potential to be used as public greenways or multi-purpose paths. Land classified as Conservation alerts government officials and property owners to the presence of environmental conditions that shall be factored into the rezoning and permitting process.

**Transportation / Communication / Utilities (TCU)** - This category includes such uses as landfills, water treatment plants, wastewater treatment plants, power substations, rail yards, mass transit facilities, airports, etc. These uses may be either public or private.

**Figure 8**  
**South Forsyth Future Land Use, 2025**

<b>Land Use</b>	<b>Acres</b>	<b>Percent</b>
Medium Density Residential	7,793	41.7%
Low Density Residential	2,737	14.7%
Industrial	2,376	12.7%
General Commercial	1,530	8.2%
Road Right-of Way (TCU)	1,439	7.7%
High Density Residential	789	4.2%
Private Park	783	4.2%
Public/Institutional	597	3.2%
Transportation/Communication/Utilities	281	1.5%
Activity Center (Commercial)	94	0.5%
Office-Transitional	92	0.5%
Public Park	87	0.5%
Neighborhood Commercial	44	0.2%
Landfill	35	0.2%
Corridor Commercial	0	0.0%
<b>Total Land Acreage</b>	<b>18,677</b>	<b>100.0%</b>

Figure 9  
 South Forsyth 2025 Future Land Use Plan



# Appendix

## **A. South Forsyth Subarea Advisory Committee**

Andy Walker  
John Pickering  
Michael Humber  
Joseph Moore  
Lamar Wakefield

## **B. Meeting Dates**

South Forsyth Subarea Public Visioning Workshop – May 13<sup>th</sup> at 5:30 PM in the West Hall Cafeteria, South Forsyth High School

South Forsyth Subarea Advisory Committee Meeting – June 19<sup>th</sup> at 6:30 PM in the West Hall Cafeteria, South Forsyth High School

Forsyth County  
Comprehensive Plan

Big Creek Subarea  
Land Use Report

September 25, 2003



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# I. Introduction

## A) Purpose

In preparing the 2003 Update to the Forsyth County Comprehensive Plan, the County initiated an ambitious public involvement process. In order to better analyze the County's needs and elicit a higher degree of community participation, the county was divided into ten planning subareas (**Figure 1**) with individual committees established to develop specific land use policies and a future land use map for their subarea. The subarea boundaries were determined by a variety of factors including: physical barriers, historical communities, economics and transportation corridors.



This information was gathered to help enable the community to look at where they are today, how they got there and where they want to go in the future. Included in this document are the findings from the land use inventory and assessment for the Big Creek subarea, as well as the recommendations of the Big Creek Subarea Advisory Committee. The membership of the committee and the meeting dates can be found in the **Appendix**.

## B) Scope

The following report provides a current “snapshot” of the Big Creek subarea. First, a description of existing land uses in the subarea is provided, along with an existing land use map and summary table. This is followed by an inventory of environmentally sensitive areas. These two sets of information allow the community to identify those sections of the subarea that could potentially be developed in the future, as well as those areas that should be protected from development pressures.

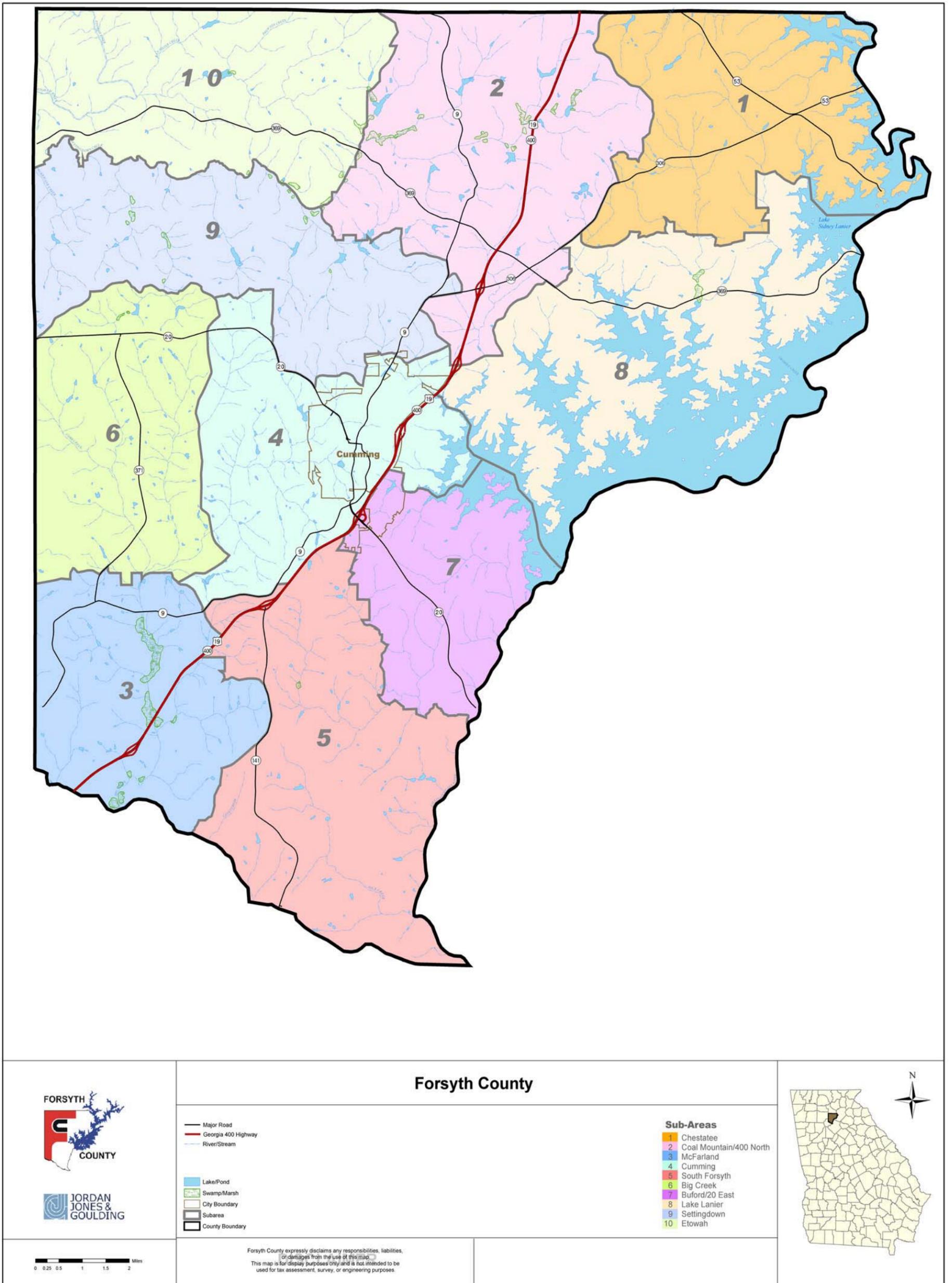
Following this inventory, there is an examination of the historic development patterns in the Big Creek subarea. This includes a discussion of demographic changes in the subarea between 1990 and 2000, as well as an estimate of land consumption during the last decade. There is also a summary of the historical factors that have led to the current development patterns.

An examination of future development trends is also provided. This includes an assessment of the future sewer and transportation infrastructure needs, as well as the identification of transitional areas that could potentially be redeveloped. Forsyth County's land use polices are also examined in order to determine what is allowed to develop under the current regulations. Finally, this report includes the subarea vision and policy recommendations developed by the Big Creek Subarea Advisory Committee, and a copy of the future land use map for the subarea.

## C) Location

The Big Creek subarea is located in the western part of the County, bounded by Cherokee and Fulton counties to the west, the Settingdown subarea to the north, the Cumming subarea to the east, and the McFarland subarea to the south.

Figure 1  
Forsyth County Subarea Locations



## II. Inventory of Existing Conditions

### A) Description of Existing Land Uses

A comprehensive land use survey was conducted for Forsyth County in the Summer of 2002 using tax parcel maps, aerial photographs and field review. In April 2003, JJG conducted a field review and a review of aerial photographs to verify the land uses in the Big Creek subarea. These land uses are shown on **Figure 2** on the following page and summarized in **Figure 3** below.

**Figure 3: Big Creek Existing Land Use, 2003**

Land Use	Acres	Percent
Residential	5,941.69	44.32%
Agriculture	3,739.16	27.89%
Undeveloped	2,184.62	16.30%
Road Right-of-way	749.25	5.59%
Parks/Recreation/Conservation	446.97	3.33%
Commercial	144.86	1.08%
Institutional/Public	129.44	0.97%
Industrial	69.03	0.51%
<b>Big Creek Total</b>	<b>13,405.01</b>	<b>100.00%</b>
Total Sq. Miles for Sub Area	20.9	--

As indicated in the table above, the largest land use category in the Big Creek subarea is residential land, comprising 44 percent of the subarea. The residential land is distributed evenly throughout the subarea. The second largest category is agriculture, which makes up 28 percent of the subarea. Next is undeveloped land, accounting for 16 percent of the land area. Both undeveloped and agriculture land are distributed evenly throughout the subarea.

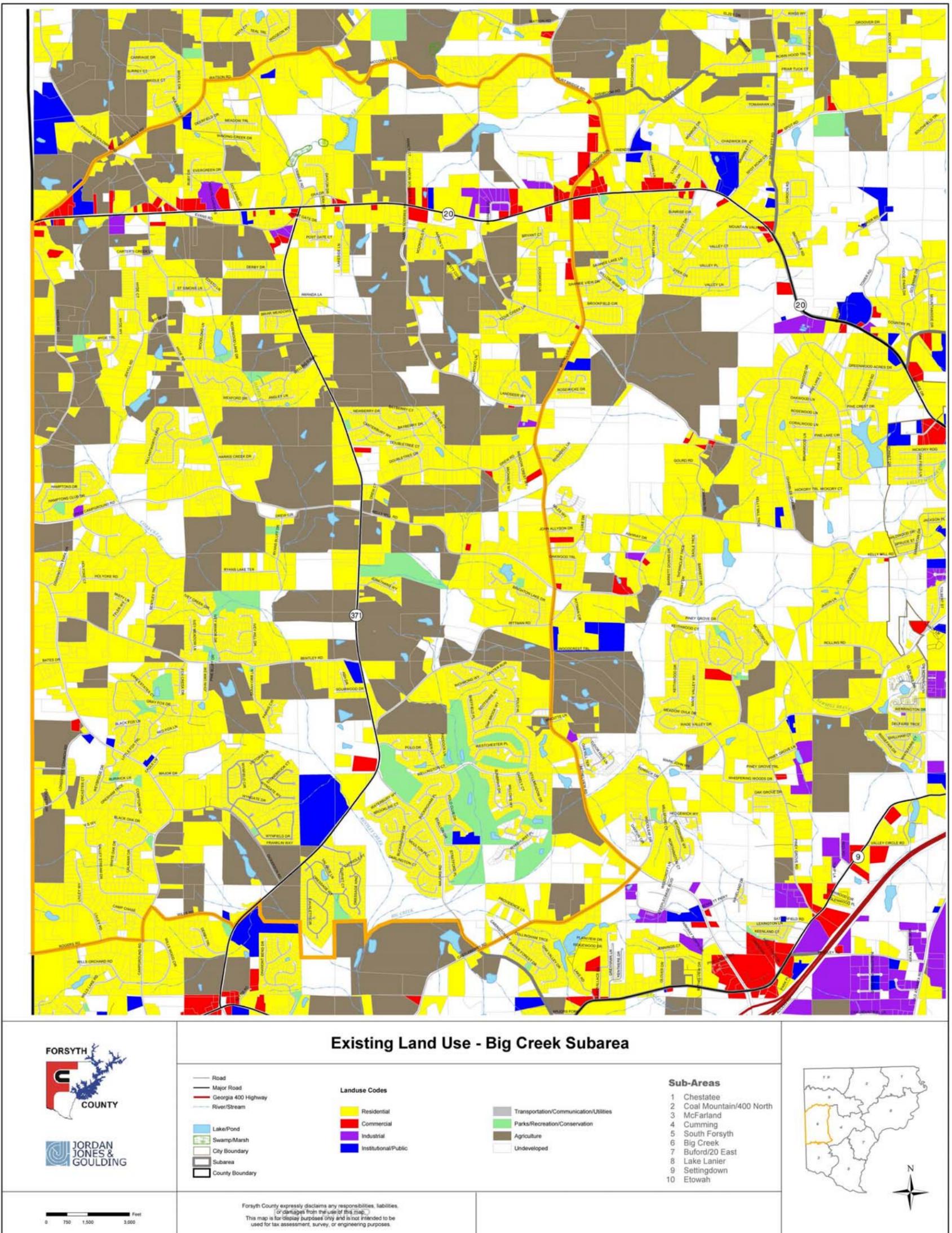
The remaining land uses make up less than 12 percent of the total area. These uses include right-of-way, commercial, industrial, public/institutional and parks/recreation/conservation land. Generally, the commercial and industrial uses are concentrated along SR 20.

### B) Environmentally Sensitive Areas

#### 1. Historic Resources

In the mid-1990s a historic resources inventory was completed for Forsyth County. The Historic Resources Survey Report identified 490 historic resources in unincorporated Forsyth County. Forty-nine of these historic structures are located in the Big Creek subarea. According to the Survey Report at least three of these sites have potential for National Register listing.

Figure 2  
Big Creek Existing Land Use



## 2. Water Resources

There are 1,521 acres of 100-year floodplains in the Big Creek subarea. All of the floodplains in the subarea are associated with areas around streams. Development is regulated in this area by the Federal Emergency Management Agency, the Georgia Floodplain Management Program of DNR and by local ordinances.

There are 33,593 acres of groundwater recharge in Forsyth County, with 5,396 acres located in the Big Creek subarea. All the groundwater recharge acres are located in one area stretching from the middle of the subarea northward. This large area is shared with the Settingdown subarea to the north. Significant recharge areas have been mapped by the Georgia Department of Natural Resources at the state level. If a significant recharge area is identified, the local government must comply with the Official Code of Georgia Annotated 12-2-8. This Code outlines restrictions on locating landfills and hazardous waste facilities, above ground chemical or petroleum storage tanks, agricultural waste, impoundment sites, septic tank drain fields, slow rate land treatment, storm water infiltration basins, and waste treatment basins.

## 3. Steep Slopes

There are 1,019 acres of steep slopes (15% grade or greater) in the Big Creek subarea. These steep slopes are spread evenly throughout the subarea. Since the majority of this area is dedicated to residential land uses, steep slopes are not a major deterrent to future land development.



## 4. Conservation & Park Lands

There are 381 acres of park, recreation, and/or conservation land in the subarea. The subarea includes Midway Park, which is a 40-acre sports complex located at 5100 Post Road/SR 371. The park includes seven youth baseball/softball fields, one football field, one soccer field, two tennis courts, a playground, a walking trail, a picnic pavilion and a community building.

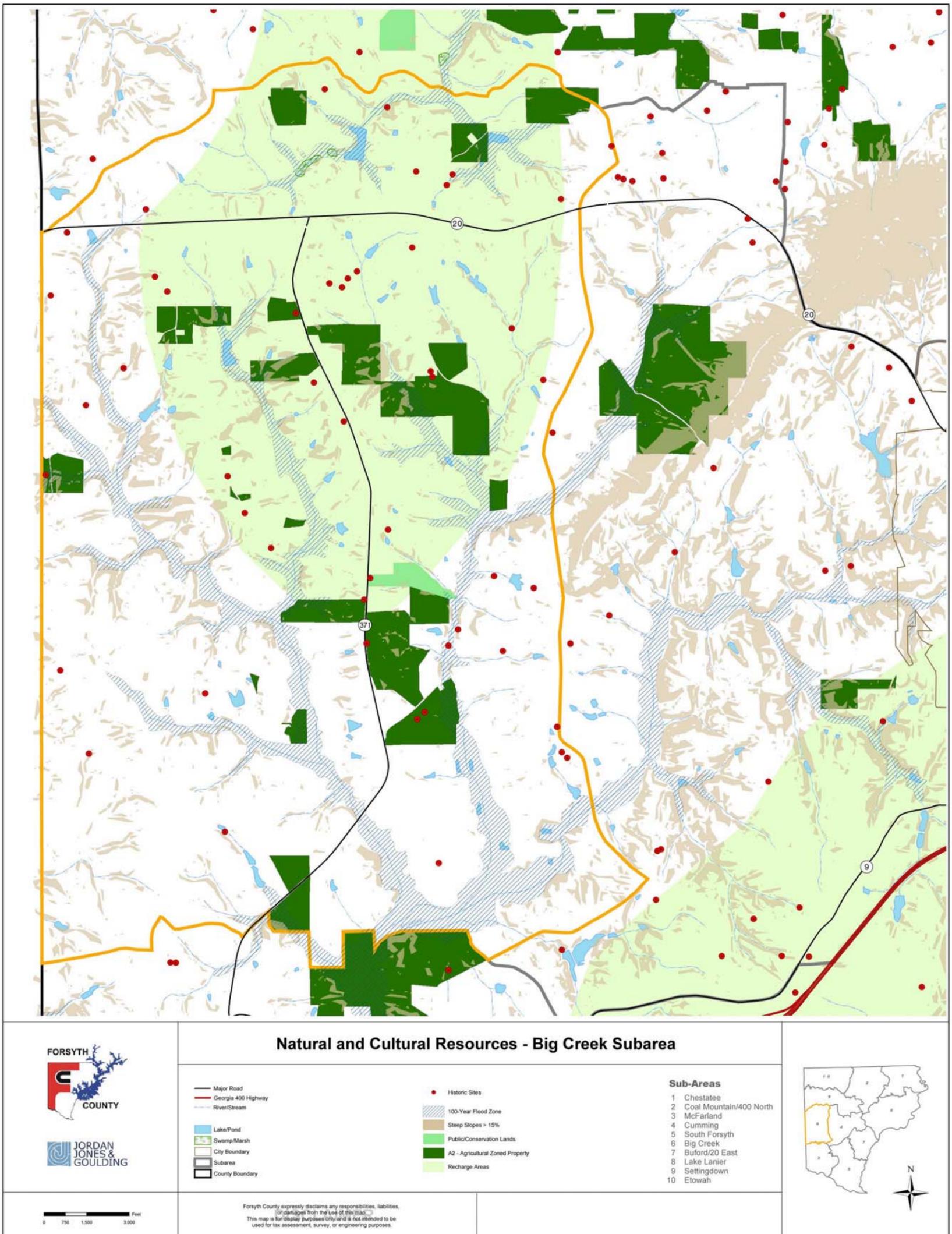
The locations of the natural and cultural resources in the Big Creek subarea are shown on the map included as **Figure 4**.

## C) Historic Development Patterns

### 1. Demographics

The Big Creek subarea has historically been characterized by farms, open land and single-family residences. As metro Atlanta began rapidly spreading northward in the 1980s, the Big Creek area became an attractive location for suburban residential development. In addition to the rural character of the area and affordable home prices, the northern reaches of Atlanta are easily accessible via GA 400 from this area.

Figure 4  
Big Creek Natural and Cultural Resources



SR 20 and 371 provide local and regional connectivity within the Big Creek area. These major highways within this subarea serve commuters and other regional traffic moving across north Georgia. Additionally, the majority of the commercial and industrial development within the subarea has developed along the SR 20 corridor.

In 2000, the population of the Big Creek subarea totaled 11,705. The population has almost tripled since 1990. The population density of the subarea is 622 people per square mile. This density is the same as the Cumming subarea and makes it among the most densely populated areas of the County. In comparison, the most densely populated subarea is South Forsyth, with 701 people per square mile.

The Big Creek subarea is 97 percent white. The age distribution figures indicate the majority of residents in this area are adults 30 to 39 years of age, and children ages 5 to 17 rank second. The fastest growth in population has been for children under 5. **Figure 5** provides a comparison of the demographic statistics for the area for 1990 and 2000.

**Figure 5**  
**Big Creek Subarea Demographics**  
**1990 – 2000**

	<b>1990</b>	<b>2000</b>	<b>Percent Change</b>
Total Population	4,016	11,705	191.5%
<b><i>Racial Distribution</i></b>			
White	3,999	11,350	183.8%
Black or African-American	0	29	6380.4%
Asian	9	72	663.2%
Hispanic or Latino of any race	23	333	1347.6%
<b><i>Age Distribution</i></b>			
Under 5	332	1,183	255.9%
5 to 17	760	2,242	195.1%
18 to 21	210	327	55.7%
22 to 29	509	946	86.0%
30 to 39	804	2,561	218.6%
40 to 49	599	1,966	228.4%
50 to 64	555	1,764	218.1%
65 and over	271	716	164.3%
<b><i>Housing</i></b>			
Total Units	1,549	4,168	169.1%
Occupied	1,422	4,053	185.0%
Vacancy Rate	127	115	-9.6%
Owner Occupied	1,244	3,776	203.7%
Renter Occupied	178	277	55.3%
* Note: The racial and cultural distribution numbers total to a sum larger than the total population. Hispanic is a cultural descriptor and is not exclusive of race. In other words, many who consider themselves Hispanic also consider themselves White.			

The number of housing units in the Big Creek subarea increased notably during the 1990s. In 1990, there were 1,549 housing units and by 2000 the number of units increased to 4,168, a 169 percent increase. Between 1990 and 2000 the vacancy rate decreased from 8 percent to 3 percent. The housing units in this area are largely owner-occupied, with 91 percent being owner-occupied and 7 percent renter occupied units. The number of owner-occupied units more than doubled during the 1990s.

## 2. Development Activity

Residential development is responsible for the large majority of land consumption that has occurred in the Big Creek subarea. Even with the large increase in developed acres, it is estimated there are still nearly 6,000 acres that could be developed in the Big Creek area. Almost two-thirds of these developable acres are currently agricultural lands.

One of the tools the JJG team used to evaluate development activity in the County is the occurrence of Developments of Regional Impact (DRIs) since 1990. A DRI review is required by law to be completed for large-scale developments that are likely to have impacts outside of the jurisdiction(s) where they are located. The Georgia Planning Act of 1989 authorized the Department of Community Affairs (DCA) to establish procedures for intergovernmental review of these large-scale projects. More than 40 DRI reviews have been completed in Forsyth County since 1990, three of these being located in the Big Creek subarea.

The first DRI, Fox Creek, was approved in 1997. The Fox Creek development includes a golf course with 481 single-family homes. The second, Vickery, was approved in 2000. It is a mixed-use development with 744 units and 73,200 square feet of commercial space on 214 acres. Finally, Eagle Land Group, Inc. is in the process of completing a DRI for a 529-acre development. Two separate development scenarios are still being evaluated. The first plan consists of an 836 lot residential subdivision with a golf course. The second consists of a 1,115 lot residential subdivision with green space. The land where this development is proposed is currently being used for agricultural purposes.

## D) Future Development Trends

### 1. Future Infrastructure

One of the primary drivers of development is the provision for public infrastructure, particularly sewer and roads. The availability of sewer allows for higher density land uses such as apartments or small-lot subdivisions (less than one-half acre lots). Roads are also primary drivers of change because they provide access to desired destinations, such as jobs and shopping. Better access leads to a higher land value and a greater likelihood of more intensive uses.

There are numerous transportation improvements planned for the Big Creek subarea, as indicated in the 2002 Update of the county's Major Transportation Plan. Improvements planned for 2005 in the Big Creek area include the widening of Canton Hwy/SR 20. The portion east of SR 371 will be widened from 2 to 4 lanes. Widening from 3 to 4 lanes will occur on the portion west of SR 371 to Doc Sams Road. By 2010, SR 371 will be widened to 4 lanes from Majors Road north to SR 20. Also, Kelly Mill Road will be widened to 6 lanes and SR 20 will be widened to 4 lanes west of Doc Sams Road. The only transportation improvements shown for the Big Creek subarea in 2020 are the widening of both SR 20 and Majors Road to 6 lanes.

Sanitary sewer is currently not available in the Big Creek subarea. However, the County’s Sewer Service Master Plan shows plans to extend sewer lines into this area along Bentley Creek, Cheatam Creek and their tributaries. The lines will lead to the Fowler Wastewater Reclamation Facility, south of Highway 9. With the high rate of growth in this area, the extension of sewer lines will be a high priority for the County and will likely be constructed within the next 5 years.

## 2. Transitional Areas

There are still large tracts of available land for development in the Big Creek subarea, so the likelihood of redevelopment is small. Generally, it is more expensive to tear down or renovate existing structures compared to constructing new, so as long as land is available with the same locational benefits as existing structures, new construction is likely to locate on vacant or agricultural land. The large tracts of agriculture lands along SR 371 may transition to residential subdivisions as property values increase.

## 3. Land Use Policies

The current Future Land Use Map for the Big Creek subarea identifies over 59 percent of the area to be developed as large-lot single-family houses and 21 percent to be conserved as parkland and open space. Current land use policy was analyzed by examining the primary tools of land use including the Unified Development Code and the Land Use Element of the Comprehensive Plan. The JJG team also examined the current zoning and Future Land Use maps to determine any implications that might arise from those elements.

A difference exists between the way land is currently zoned in Forsyth County and the Future Land Use Map. In order to achieve the future land uses that are envisioned in the Comprehensive Plan, large amounts of land would have to be re-zoned. Rezoning would have to occur not only within land use categories, but significant amounts of land would have to be rezoned into entirely different categories. **Figure 6** on page 11 shows the amount of land that would have to be rezoned to provide consistency with the Future Land Use Map. For example, Figure 6 shows that 38 percent of the land is zoned for agricultural use, but 26 percent of this land would need to be rezoned for single-family residential use to be consistent with the Future Land Use Map.

The chart included as Figure 6 shows the amount of land within the Big Creek subarea that is intended for conversion from a current zoning category (rows), to a future land use category (columns). Individual cells of the table are currently zoned within a particular category (shown by the row) and intended for a particular future land use category (shown by the column). Percentages within each cell indicate the percentage of total land area that is categorized by a particular zoning category/future land use category combination.

The colored areas of the chart indicate land that is currently intended for a future land use that is different from the way the land is currently zoned. At the present time, approximately 33% of the Big Creek subarea is intended to perform the same use as it is currently allowed by zoning (shown by the white areas). To achieve the land uses shown in the current future land use map, 67% of the land will require significant rezonings. Areas shown in red represent required “downzonings” – zoning changes that are traditionally difficult to perform because they further restrict the use of the land. This comprises approximately 19% of the subarea. Areas shown in green represent required

“upzonings” – zoning changes that are traditionally easier to perform because they generally increase the allowable uses of the land. This comprises approximately 46% of the subarea.

Approximately 28% of the Big Creek subarea is currently intended to be moved away from agricultural zoning, to a mixture of residential (27%), and other uses (1%). Ten percent of land currently zoned agricultural is intended for conservation and/or park use (primarily flood plain). Although the current land use regulations allow single-family residences on land zoned agricultural, this represents a conversion of the land’s purpose.

## E) Trend Scenario

### 1. Methodology

As part of the JJG team’s examination of current land use policies and their potential impacts, an analysis of current development trends for the Big Creek subarea was performed. It was based upon the existing 2015 Future Land Use map, rezoning history, and real estate market preferences. This analysis had no specific time horizon. It is intended to gain an understanding of the ultimate impact of future development, if such development follows existing trends and is guided by existing land use policy.

**Figure 6**  
**Big Creek Rezoning to Match the 2015 Future Land Use Plan**

		Future Land Use Category						
			59%	9%	0%	3%	7%	
		Conservation and Park *	Single Family Residential	Multi-Family Residential	Office/ Institutional	Industrial	Commercial	
Current Zoning Category	38%	Agriculture	10%	26%	1%	<1%	<1%	<1%
	44%	Single-Family Residential	11%	27%	4%	<1%	<1%	2%
	5%	Multi-Family Residential	<1%	1%	2%		<1%	<1%
	0%	Office Institutional						<1%
	4%	Industrial	<1%	1%	1%		1%	<1%
	9%	Commercial	<1%	3%	1%		1%	3%

\* Note: Conservation and park land can be associated with any zoning category.

-  Indicates that a rezoning is not required to be consistent with the future Land Use Plan
-  Indicates potentially difficult rezoning
-  Indicates rezoning that might be moderately difficult
-  Indicates potentially easy rezoning

In order to accomplish this analysis, the JIG team made several assumptions including:

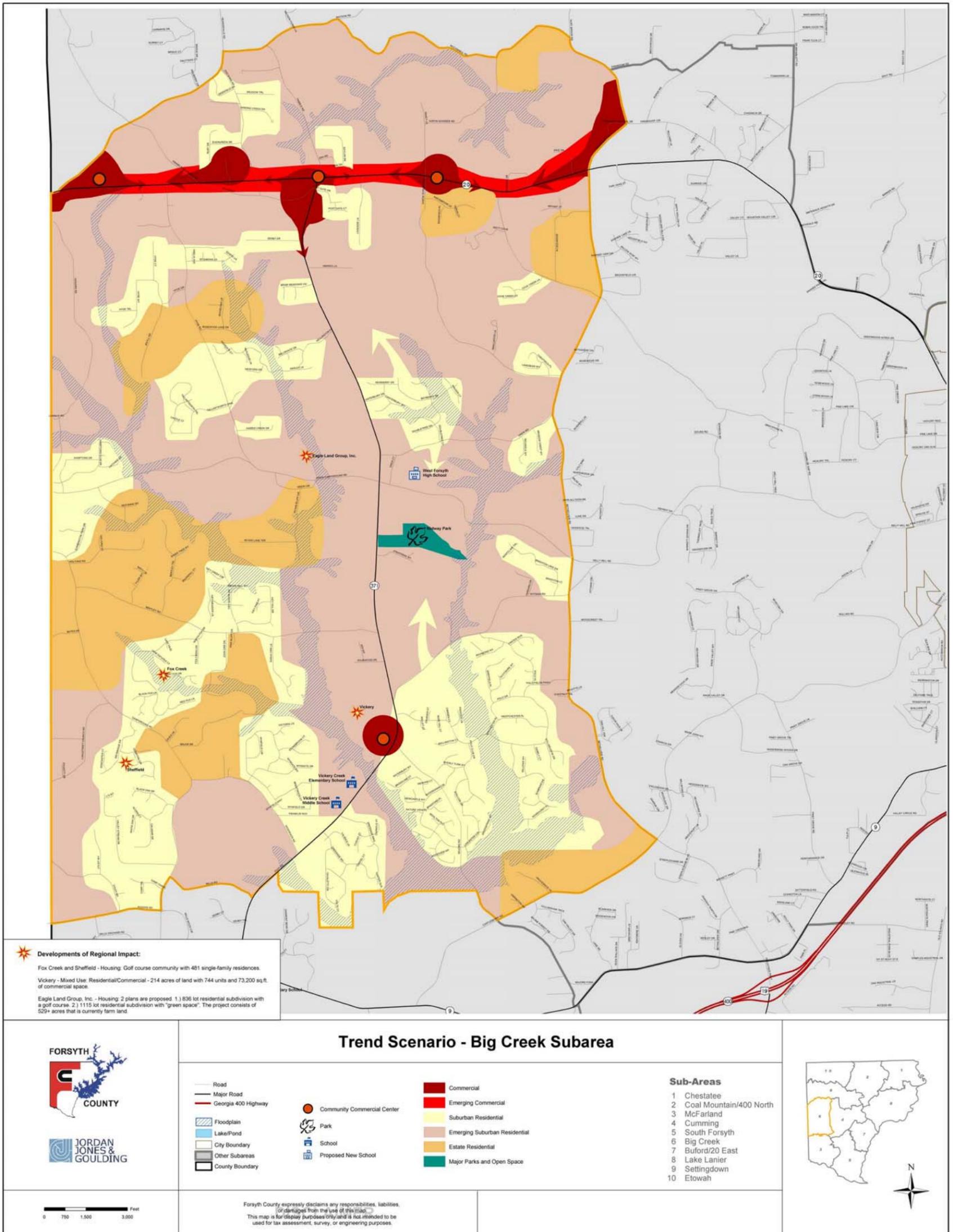
- ◆ Areas that are designated as having future land uses that are different from their existing land uses will be redeveloped;
- ◆ Existing structures that are non-conforming with respect to their current zoning will be redeveloped in a way to bring them into conformance;
- ◆ Future development within broad land use categories (for example, “Commercial”) will consist of a mix of uses and intensities that mirrors the county-wide proportions of land that is currently zoned within that category;
- ◆ Future development restrictions (for example, minimum lot sizes, maximum floor-area-ratios) will be based upon those that are currently expressed in the Unified Development Code;
- ◆ “Density shifting” to accommodate land lying within flood plains will continue to be permitted. In other words, parcels that contain part of their land within flood plains will be allowed to develop at the maximum density permitted, based on the area of the entire parcel, not just the part that is outside the flood plain;
- ◆ Moderately sloping land (>15% but less than 30%) that is designated residential, will eventually be developed; and
- ◆ Sewer and water services will be extended to all areas that require them.

## B) Trend Scenario Map

A Trend Scenario Map was created in order to illustrate this future land use scenario and is included on the following page as **Figure 7**. The future that this map indicates is not a given, but a likely scenario of how the area will develop over the next 20 years. It shows that existing suburban residential development will spread out and occupy a large amount of the subarea. Continued commercial growth will occur along SR 20, with smaller commercial nodes at SR 371 and Kelly Mill Road and at SR 371 and Majors Road.

The implications of this trend scenario include increased demands on public infrastructure, such as schools, water, sewer, roads, police and fire protection. It also indicates that the dramatic changes that the area has experienced over the past 10 years are only the beginning of additional changes for the area if current trends continue. The question that this planning exercise poses is one that the citizens of the Big Creek area have to answer and that is, “Is this the future we envision for our community?”

Figure 7  
Big Creek Trend Scenario



### III. Subarea Committee Recommendations

There were two meetings held from May to July 2003 to discuss the development of a land use plan for the Big Creek subarea. A list of the meeting dates can be found in the **Appendix**. At the first meeting the inventory of existing conditions for the subarea was presented, and the participants were asked to help craft a vision for the subarea. At the second meeting, a draft land use plan map was presented along with the draft vision and participants were asked to fill out comments cards, which were presented to the subarea committee for discussion and review. The result of this meeting was a revised land use plan map and a list of policy recommendations that the subcommittee would like to present to the Countywide Land Use Steering Committee for possible inclusion in the county's Comprehensive Plan. The results of these meetings are presented below.

#### A) Big Creek Subarea Vision

- The Big Creek subarea will primarily be a residential community with close proximity to jobs and commercial areas.
- Residential developments will preserve large amounts of open space.
- Commercial development will take the form of nodes as opposed to “strip commercial”. Commercial development should be directed along SR 20.
- Adopt appropriate design standards to promote quality development throughout the subarea.
- A network of greenways will run throughout the subarea with passive parks and connected trails.
- The subarea will offer a variety of lot sizes, but design guidelines will help to preserve the rural character.
- The subarea's valued natural and cultural resources will be preserved for future generations.

#### B) Policy Recommendations

- The County needs to prepare a Greenway Master Plan that includes connected greenways throughout the County. Existing natural features such as stream banks and groundwater recharge areas could be utilized.
- Need more land in public parks.
- Prepare a Feasibility Study on Transfer of Development Rights (TDRs) countywide, in order to preserve open space.
- Install sidewalks, bike paths and trees along roads as they are improved.
- Density calculations should include environmentally sensitive land.

#### C) Big Creek Land Use Plan Map

The future land use plan is an extension of the goals and values of the community and a culmination of the subarea planning effort. This future land use map is intended to depict a 2025 future land use scenario. The acreages and percentages of each land use are compiled in **Figure 8** and a map showing the location of future land uses is included in **Figure 9**.

There are fourteen land use designations depicted on the future land use map, including three residential designations and six commercial/industrial/mixed-use designations. Below is brief definition of each.

**Low Density Residential** - This category is intended for single-family detached residential dwellings typically on septic sewer systems. Minimum lot size is 30,000 square feet, or the overall density is up to 1.5 units per acre. Institutional uses that are considered complimentary in this area include churches, schools, and libraries.

**Medium Density Residential** - Consists of single-family detached residential dwellings typically on sewer, with overall densities from 1.5 to 2.5 units per acre. Institutional uses that are considered complimentary in this area include churches, schools, and libraries. Private recreational uses, such as golf courses, tennis courts, walking trails and swimming pools are encouraged in these areas in developments greater than 50 lots.

**High Density Residential** - Typical uses include single-family detached and attached dwellings (such as townhouses) as well as multifamily condominiums and apartments, at densities of up to 6 units per acre. These developments should incorporate some amount of central outdoor public space for their residents. A limited number of churches, schools, libraries, other miscellaneous institutional uses and daycare facilities would be complimentary in these areas. An urban-density residential area is usually located near areas of high employment concentration, large commercial nodes, transportation nodes and mixed-use developments. It is essential that these developments include proper buffering between adjacent land uses.

**Office Transitional** - The Office Transitional category is intended to allow for the redevelopment or transition of residential uses along major roadways to office professional uses. It also allows for new office development that is constructed in a manner consistent and in keeping with the surrounding residential uses. The physical character and design of proposed new structures should be compatible with existing establishments. This category includes small single occupant structures for doctors and or accountants, as well as larger offices with multiple tenants. Businesses that are allowed in this category may provide a product directly to customers on the premises as an accessory to the service, but do not, as a primary activity, involve the manufacture, storage, or distribution of products. These areas should provide employment opportunities in close proximity to residential areas while providing a transition between the more intense commercial areas and residential neighborhoods.

**Neighborhood Commercial** - This category includes a limited range of retail and service activities to serve the everyday needs of local residents. Limitations should apply to both size and character of individual establishments. The basic character of this category is one that encourages and assures a compatible mixture of residential, office and retail types of land uses. Businesses in this land use category should be designed to encourage the development of neighborhood scale shopping that offers both goods and products, and the furnishing of selected services.

**General Commercial** - This category includes standard retail and commercial service activities such as shopping centers, general retailers, specialty shops, grocery stores, drug stores, banks, restaurants, theatres, hotels, dry cleaners and entertainment facilities. These establishments should be located on appropriate transportation corridors to easily serve the public. Visual impacts of these developments should be minimized by requiring buffers, landscaping, and architectural controls.

**Activity Center** - The Activity Center land use category includes commercial, entertainment, limited residential, and public/institutional land uses typically found in a central business district. The commercial business district (CBD) and urban village (UV) zoning classifications are considered appropriate for developments proposed within the Activity Center classification. Developments within the Activity Center classification may be encouraged to consider additional zoning classifications, based on future revisions to the Forsyth County Unified Development Code. The types of uses that are desirable in this area would be restaurants, specialty retail, governmental offices, low-intensity offices (e.g. accountant or real estate office) and appropriate parking. Uses should be complemented with walking, biking and transit opportunities to provide alternative modes of transportation. Also, any roadway improvements that are considered for this area should carefully consider the scale of the area. Residential uses shall be considered accessory and limited to townhouses or apartments mixed into the commercial establishments. Commercial uses must be developed or present first in comparable scale before residential uses can be permitted for construction.

**Corridor Commercial** - The Corridor Commercial category is intended to focus on major transportation corridors, which presently contain a mix of agricultural, residential, commercial, and industrial land uses. Such corridors are unlikely to experience small scale, low or medium density residential development over the course of the planning period.

Developments within the corridor commercial classification will focus on land uses of varying intensity that will allow for the appropriate transition between high-intensity development abutting the transportation corridor as well as provide for a continued decrease of intensity as the development moves away from the transportation corridor. The physical character and design of proposed developments should be compatible with surrounding uses. Inter-parcel connectivity and side street access should be encouraged to minimize curb cuts and improve traffic flow.

Typical uses include standard retail and commercial service activities such as shopping centers, general retailers, specialty shops, grocery stores, drug stores, banks, restaurants, theatres, hotels, dry cleaners, entertainment facilities, multiple tenant offices, small single occupant structures, and entrances to residential subdivisions located outside the corridor commercial designation. The transitional nature of the category should be supported through the use of buffers, landscaping, and architectural controls to minimize the impacts on lower intensity land uses.

**Industrial** - The primary purpose of this category is to provide for areas where light industrial uses can be located. These light industrial uses include light manufacturing, warehousing, wholesale/distribution and assembly. More intensive industrial uses that are characterized by noise, fumes, vibration and other forms of pollution that might be viewed as objectionable by surrounding uses are acceptable only on a case-by-case basis if well screened and buffered from other uses. Limited commercial uses are also allowed in industrial areas if they compliment existing industrial uses, such as cafeterias and day cares.

**Public / Institutional** - Includes uses such as schools, colleges, hospitals, municipal community centers, churches, cemeteries, municipal buildings and post offices.

**Public Park** - This category includes land dedicated to active and passive recreation uses. These areas are publicly owned and may include sports fields, recreation areas, greenways, and similar uses.

**Private Park** - Privately owned land that is used for active and passive recreation. This may include subdivision amenities areas, golf courses and Army Corps of Engineers recreation areas.

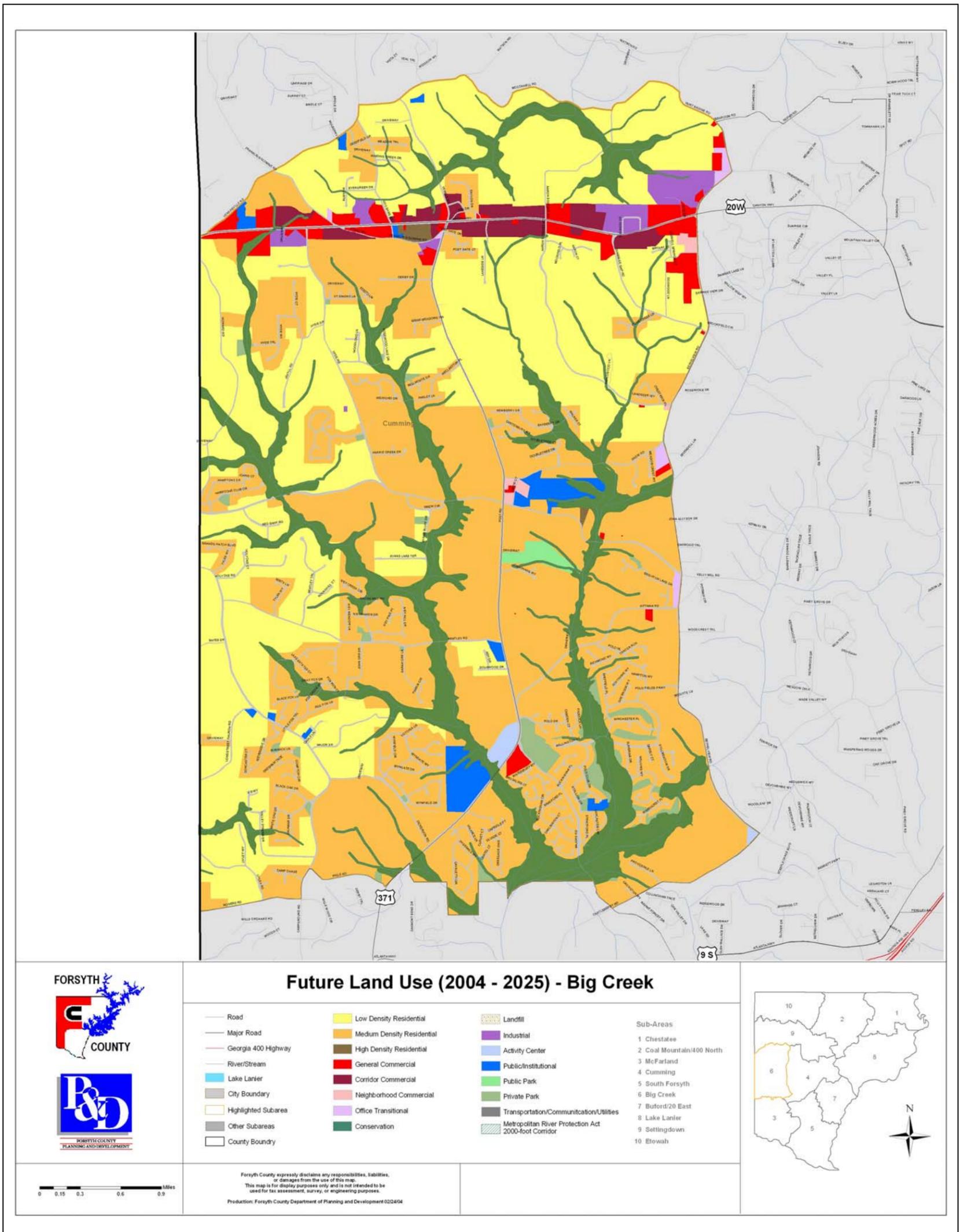
**Conservation** - This classification includes environmentally sensitive areas that are regulated at the local and state levels. Areas included in this category are the 35 ft. buffer along all county streams, a 100 ft. buffer along the Etowah River and land that is part of the 100-year floodplain of local waterways. This land has the potential to be used as public greenways or multi-purpose paths. Land classified as Conservation alerts government officials and property owners to the presence of environmental conditions that shall be factored into the rezoning and permitting process.

**Transportation / Communication / Utilities (TCU)** - This category includes such uses as landfills, water treatment plants, wastewater treatment plants, power substations, rail yards, mass transit facilities, airports, etc. These uses may be either public or private.

**Figure 8**  
**Big Creek Future Land Use, 2025**

<b>Land Use</b>	<b>Acres</b>	<b>Percent</b>
Medium Density Residential	6,001	44.8%
Low Density Residential	5,280	39.4%
Road Right-of Way (TCU)	754	5.6%
Private Park	360	2.7%
General Commercial	296	2.2%
Corridor Commercial	198	1.5%
Public/Institutional	214	1.6%
Industrial	152	1.1%
Public Park	43	0.3%
Activity Center (Commercial)	35	0.3%
Office-Transitional	28	0.2%
High Density Residential	23	0.2%
Neighborhood Commercial	23	0.2%
Transportation/Communication/Utilities	0	0.0%
<b>Total Land Acreage</b>	<b>13,407</b>	<b>100.0%</b>

Figure 9  
Big Creek 2025 Future Land Use Plan



# Appendix

## **A. Big Creek Subarea Advisory Committee**

Katherine Lindaman

Tony Gulla

Barry Russell

Linda Stewart

Bob Charles

## **B. Meeting Dates**

Big Creek Subarea Public Visioning Workshop – May 15th at 5:30 PM in the Sawnee Mountain Park Community Building

Big Creek Subarea Advisory Committee Meeting - July 22nd at 6:00 PM in the Cumming Library.

Forsyth County  
Comprehensive Plan

Buford/GA 20 East Subarea  
Land Use Report

September 25, 2003



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# I. Introduction

## A) Purpose

In preparing the 2003 Update to the Forsyth County Comprehensive Plan, the County initiated an ambitious public involvement process. In order to better analyze the County's needs and elicit a higher degree of community participation, the county was divided into ten planning subareas (**Figure 1**) with individual committees established to develop specific land use policies and a future land use map for their subarea. The subarea boundaries were determined by a variety of factors including: physical barriers, historical communities, economics and transportation corridors.



This information was gathered to help enable the community to look at where they are today, how they got there and where they want to go in the future. Included in this document are the findings from the land use inventory and assessment for the Buford/GA 20 East subarea, as well as the recommendations of the Buford/GA 20 East Subarea Advisory Committee. The membership of the committee and the meeting dates can be found in the **Appendix**.

## B) Scope

The following report provides a current “snapshot” of the Buford/ GA 20 East subarea. First, a description of existing land uses in the subarea is provided, along with an existing land use map and summary table. This is followed by an inventory of environmentally sensitive areas. These two sets of information allow the community to identify those sections of the subarea that could potentially be developed in the future, as well as those areas that should be protected from development pressures.

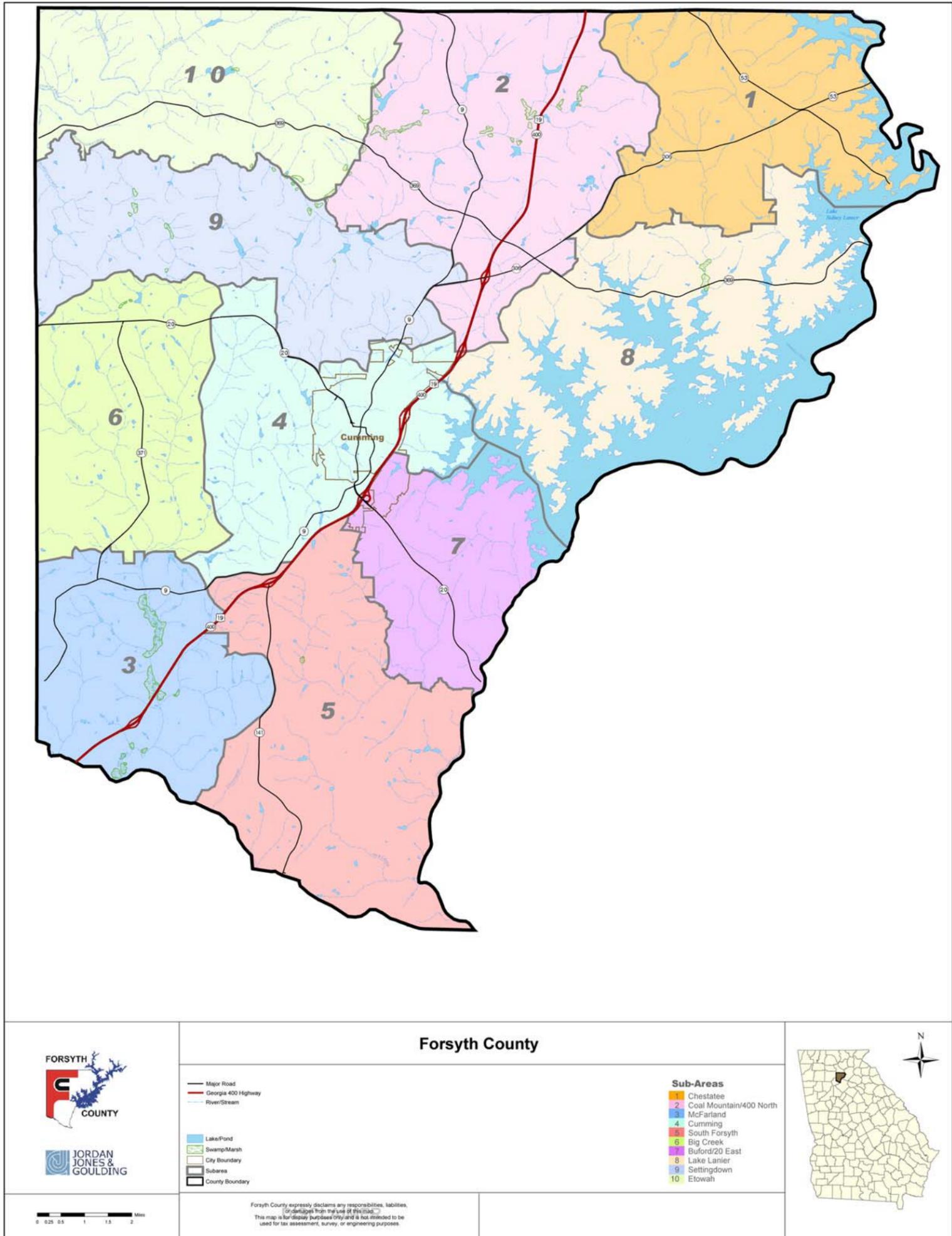
Following this inventory, there is an examination of the historic development patterns in the Buford/GA 20 East subarea. This includes a discussion of demographic changes in the subarea between 1990 and 2000, as well as an estimate of land consumption during the last decade. There is also a summary of the historical factors that have led to the current development patterns.

An examination of future development trends is also provided. This includes an assessment of the future sewer and transportation infrastructure needs, as well as the identification of transitional areas that could potentially be redeveloped. Forsyth County's land use polices are also examined in order to determine what is allowed to develop under the current regulations. Finally, this report includes the subarea vision and policy recommendations developed by the Buford/ GA 20 East Subarea Advisory Committee, and a copy of the future land use map for the subarea.

## C) Location

The Buford/20 East subarea is located on the eastern side of Forsyth County. Buford Highway (GA Hwy 20) cuts diagonally through the center of the subarea. The general boundaries

Figure 1  
Forsyth County Subarea Locations



include the Chattahoochee River and Gwinnett County to the east, the South Forsyth subarea to the south, the Cumming subarea to the northwest, and the Lake Lanier subarea to the northeast.

## II. Inventory of Existing Conditions

### A) Description of Existing Land Uses

A comprehensive land use survey was conducted for Forsyth County in the Summer of 2002 using tax parcel maps, aerial photographs and field review. In April 2003, JJG conducted a field review and a review of aerial photographs to verify the land uses in the Buford/GA 20 East subarea. These land uses are shown on **Figure 2** on the following page and summarized in **Figure 3** below.

**Figure 3: Buford/ 20 East Existing Land Use, 2003**

Land Use	Acres	Percent
Residential	3,981.00	45.07%
Undeveloped	2,333.95	26.42%
Parks/Recreation/Conservation	1,089.95	12.34%
Road Right-of-way	736.95	8.34%
Commercial	298.42	3.38%
Agriculture	233.32	2.64%
Institutional/Public	158.98	1.80%
<b>Buford/20 East Total</b>	<b>8,833.03</b>	<b>100.00%</b>
Total Sq. Miles for Sub Area	13.8	--

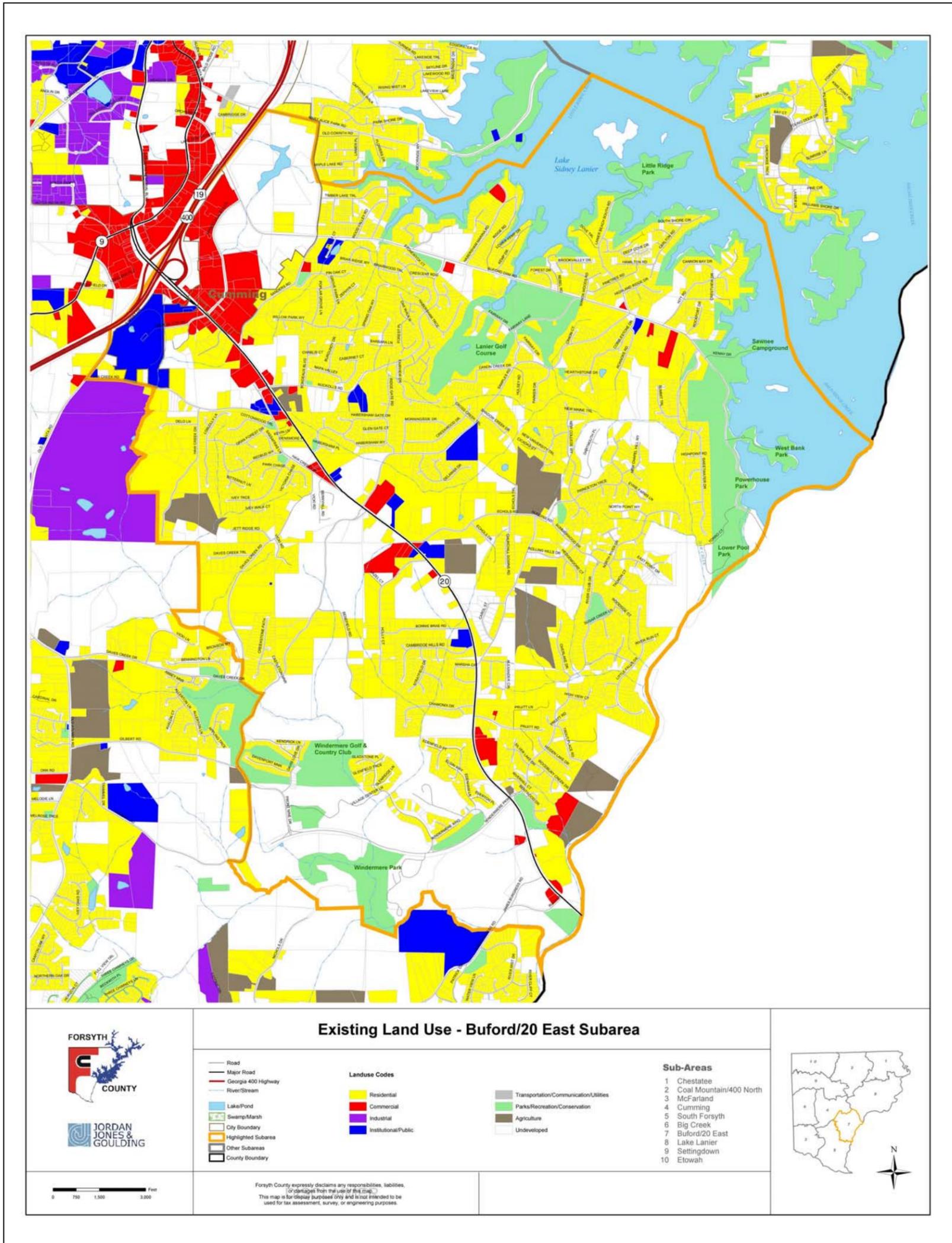
As indicated in the table above, the largest land use category in the Buford/GA 20 East subarea is residential land, comprising almost 45 percent of the subarea. Residential development is largely concentrated on the northern part of the subarea, particularly along the lake's perimeter. In fact, nearly all lake frontage parcels are either residential development or public conservation lands.

The second largest category is undeveloped land, which makes up almost 26 percent of the subarea. Undeveloped land is found primarily south of I-20 near Windermere Park and the Windermere Country Club. Much of this land will soon be developed as part of the Windermere mixed use development.

The third largest area is Parks/Recreation/Conservation which accounts for the large amount of land owned by the U.S. Army Corps of Engineers around Lake Lanier, and other private and public parks in the area. There is very little land in agriculture or industrial uses. Commercial uses are abundant in the western part of the subarea where the interchange of GA 400 and GA 20 in Cumming form a commercial hub. Some commercial development has moved down GA 20 toward the southern end of the subarea, but this development is widely scattered along the corridor.

Overall, this subarea has more of a bedroom community than other subareas, with its extensive amount of new residential growth. This is largely due to the impact of the lake, which has been well developed for many years. Future growth in the area will likely be caused by spillover growth from the North Fulton and Gwinnett areas.

**Figure 2**  
**Buford/GA 20 East Subarea Existing**  
**Land Use**



## B) Environmentally Sensitive Areas

### 1. Historic Resources

In the mid-1990s a historic resources inventory was completed for Forsyth County. The Historic Resources Survey Report identified 490 historic resources in unincorporated Forsyth County. Eleven (11) of these historic resources were located in the Buford/GA 20 East subarea. None of these sites are on the National Register of Historic Places.

### 2. Water Resources

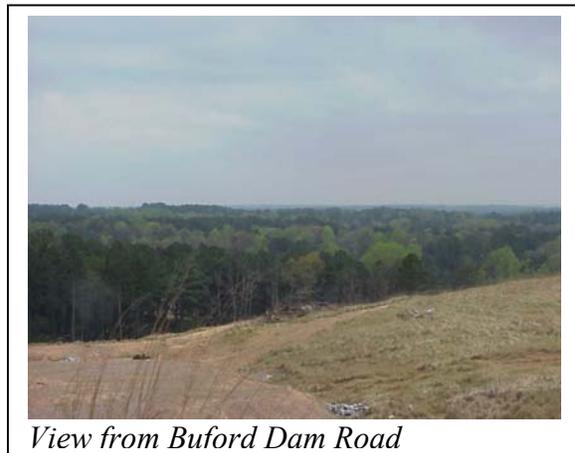
There are 782 acres of 100-year floodplains in the Buford/GA 20 East subarea. Development in these floodplains is regulated in this area by the Federal Emergency Management Agency, the Georgia Floodplain Management Program of DNR and by local ordinances. Most of the floodplain associated with the Buford/GA 20 East area is located along tributaries of the Chattahoochee River, such as Haw Creek and Daves Creek.

There are only 1,804 acres of land associated with groundwater recharge areas in the Buford/GA 20 East subarea. Significant recharge areas have been mapped by the Georgia Department of Natural Resources at the state level. If a significant recharge area is identified, the local government must comply with the Official Code Georgia Annotated 12-2-8. This Code outlines restrictions on locating landfills and hazardous waste facilities, above ground chemical or petroleum storage tanks, agricultural waste, impoundment sites, septic tank drain fields, slow rate land treatment, storm water infiltration basins, and waste treatment basins.

The largest recharge area in the Buford/GA 20 East subarea is located in the central portion of the subarea on either side of GA 20 near its intersection with Echols Road. This area boasts the majority of the subarea's agricultural land, but is primarily residential and undeveloped land. Since Forsyth relies on Lake Lanier for drinking water, the possibility of ground water contamination does not pose a significant threat to public safety.

### 3. Steep Slopes

There are 2,992 acres of steep slopes (15% grade or greater) in the Buford/GA 20 East subarea. These slopes are found mostly along the periphery of the subarea funneling water into the subarea's streams. Larger concentrations of steep slopes are found in the southern and eastern portions of the study area.



## 4. Conservation & Park Lands

There are several parks in this subarea, with the majority of them located near the older residential development by the lake. These parks include Lower Pool Park, West Bank Park, Powerhouse Park, Sawnee Campground and Little Ridge Park. Windermere Park is located in the southern portion of the subarea along James Creek, the only park not bordering the lake in the subarea. There are also two golf courses, the Windermere Golf and Country Club to the south and the Lanier Golf Course to the north.

The locations of the natural and cultural resources in the Buford/GA 20 East subarea are shown on the map included as **Figure 4**.

### C) Historic Development Patterns

#### 1. Demographics

In 2000, the population of the Buford/GA 20 East subarea totaled 8,711. This is an increase of 118% percent since 1990, very similar to the county as a whole which grew at a rate of 123%. The population density of the area is 567 people per square mile, somewhat more dense than the county as a whole which has 436 people per square mile .

The Buford/GA 20 East subarea is 96 percent white, similar to the county which is 95 percent white. The age distribution figures indicate the majority of residents in this area are between 30-39 years (nearly 20 percent) with the 5 to 17, 40 to 49 and 50 to 64 age cohorts all very close behind. The largest increase in age distribution has been for the 50 to 64 age cohort, with children under 5 coming in second. The 40 to 49 and 5 to 17 age cohorts are also experiencing large growth rates. By contrast, the slowest increase of any age cohort was the 22 to 29 group which grew by less than 5 percent. **Figure 5** provides a comparison of the demographic statistics for the area for 1990 and 2000.

The number of housing units in the Buford/GA 20 East subarea increased notably during the 1990s. In 1990, there were 1,764 housing units and by 2000 the number of units increased to 3,287, an 86 percent increase. While the population increased at nearly the same rate as the county (118 percent compared to 123 percent), housing units lagged slightly behind in proportion as the county housing unit growth rate exceeds 116 percent and Buford/GA 20 East stands at 86 percent. This suggests that in comparison to the county, housing sizes are becoming slightly larger, an expected phenomenon given the amount of families in the subarea. During the 1990s the vacancy rate was more than cut in half, dropping from 13.3 percent in 1990 to 4.9 percent.

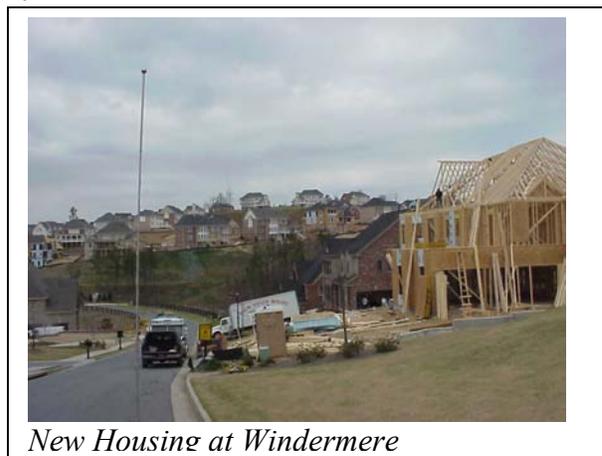
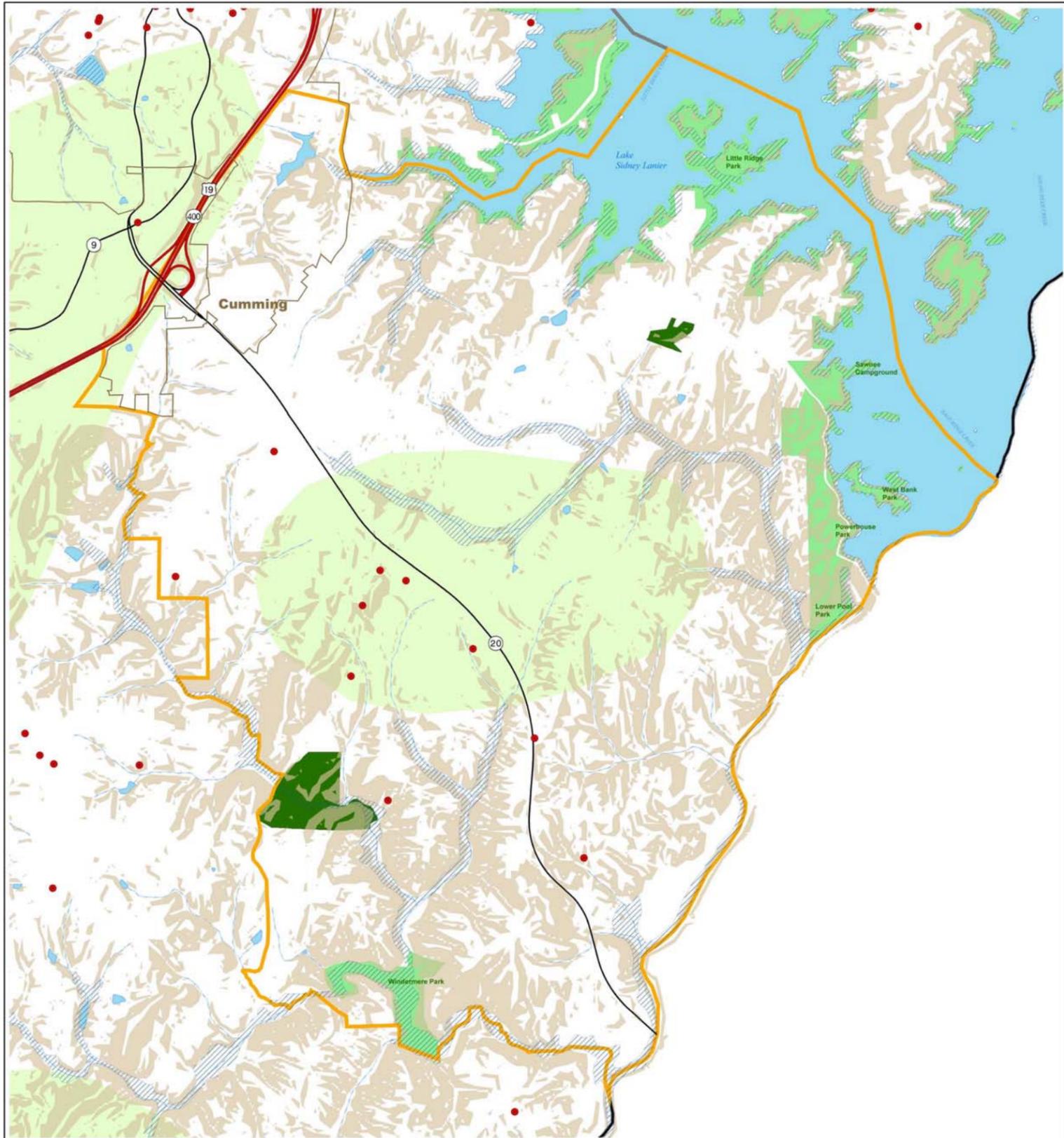


Figure 4  
 Buford/GA 20 East Natural and Cultural Resources



 	<p align="center"><b>Natural and Cultural Resources - Buford/20 East Subarea</b></p> <table border="0"> <tr> <td> <ul style="list-style-type: none"> <li>— Major Road</li> <li>— Georgia 400 Highway</li> <li>— River/Stream</li> <li>— Lake/Pond</li> <li>— Swamp/Marsh</li> <li>— City Boundary</li> <li>— Highlighted Subareas</li> <li>— Other Subareas</li> <li>— County Boundary</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>• Historic Sites</li> <li>▨ 100-Year Flood Zone</li> <li>▨ Steep Slopes &gt; 15%</li> <li>▨ Public Conservation Lands</li> <li>▨ A2 - Agricultural Zoned Property</li> <li>▨ Recharge Areas</li> </ul> </td> </tr> </table>	<ul style="list-style-type: none"> <li>— Major Road</li> <li>— Georgia 400 Highway</li> <li>— River/Stream</li> <li>— Lake/Pond</li> <li>— Swamp/Marsh</li> <li>— City Boundary</li> <li>— Highlighted Subareas</li> <li>— Other Subareas</li> <li>— County Boundary</li> </ul>	<ul style="list-style-type: none"> <li>• Historic Sites</li> <li>▨ 100-Year Flood Zone</li> <li>▨ Steep Slopes &gt; 15%</li> <li>▨ Public Conservation Lands</li> <li>▨ A2 - Agricultural Zoned Property</li> <li>▨ Recharge Areas</li> </ul>	<p><b>Sub-Areas</b></p> <ol style="list-style-type: none"> <li>1 Chestatee</li> <li>2 Coal Mountain/400 North</li> <li>3 McFarland</li> <li>4 Cumming</li> <li>5 South Forsyth</li> <li>6 Big Creek</li> <li>7 Buford/20 East</li> <li>8 Lake Lanier</li> <li>9 Settingdown</li> <li>10 Etowah</li> </ol> 
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	<p align="center"><small>Forsyth County expressly disclaims any responsibilities, liabilities, or damages from the use of this map. This map is for display purposes only and is not intended to be used for law assessment, survey, or engineering purposes.</small></p>			

**Figure 5**  
**Buford/GA 20 East Subarea Demographics**  
**1990 – 2000**

	<b>1990</b>	<b>2000</b>	<b>Percent Change</b>
Total Population	3,990	8,711	118.3%
<b><i>Racial and Cultural Distribution*</i></b>			
White	3,973	8,451	112.7%
Black or African-American	1	37	4,301.1%
Asian	6	44	612.0%
Hispanic or Latino of any race	48	256	438.2%
<b><i>Age Distribution</i></b>			
Under 5	326	758	132.7%
5 to 17	670	1,635	144.0%
18 to 21	183	241	31.9%
22 to 29	557	582	4.4%
30 to 39	825	1,729	109.5%
40 to 49	660	1,579	139.4%
50 to 64	515	1,555	202.0%
65 and over	302	632	109.1%
<b><i>Housing</i></b>			
Total Units	1,764	3,287	86.3%
Occupied	1,529	3,125	104.4%
Vacancy Rate	13.3%	4.9%	-8.4%%
Owner Occupied	1,260	2,888	129.2%
Renter Occupied	269	237	-11.9%
* Note: The racial and cultural distribution numbers total to a sum larger than the total population. Hispanic is a cultural descriptor and is not exclusive of race.			

in 2000. The housing units in this area are largely owner-occupied at 92 percent, while the remaining 8 percent are renter-occupied. The number of owner-occupied units increased by 104 percent during the 1990s.

## 2. Development Activity

It is estimated that since 1990 approximately 15 percent, or 1500 acres have been developed in this subarea. The majority of this development has been residential. Within the city limits of Cumming, some new big box commercial and the hospital have also been built around the intersection of GA 20 and GA 400.

One of the tools the JJG team used to evaluate development activity in the County is the occurrence of Developments of Regional Impact (DRIs) since 1990. A DRI review is required by law to be completed for large-scale developments that are likely to have impacts outside of the jurisdiction(s) where they are located. The Georgia Planning Act of 1989 authorized the Department of Community Affairs (DCA) to establish procedures for intergovernmental review of these large-scale projects. More than 40 DRI reviews have been completed in Forsyth County since 1990, with two of these developments slated to occur in the Buford/GA 20 East subarea. One of these

developments, the Windermere project, is a mixed-use project with office, commercial, housing and recreational uses proposed. This project will take up much of the undeveloped land in the southern tip of the subarea. The second development is the Chattahoochee River Club, a single-family housing development near River Park Court in the southeastern section of the subarea.

## D) Future Development Trends

### 1. Future Infrastructure

One of the primary drivers of development is the provision for public infrastructure, particularly sewer and roads. The availability of sewer allows for higher density land uses such as apartments or small-lot subdivisions (less than one-half acre lots). Roads are also primary drivers of change because they provide access to desired destinations, such as jobs and shopping. Better access leads to a higher land value and a greater likelihood of more intense uses.

There are several transportation improvements planned for the Buford/GA 20 East subarea. By 2005, the eastern section of GA 20 will be expanded to four lanes, the middle section (between Samples Road and Nuckolls Road) will be expanded to six lanes, while the remaining section stretching to GA 400 will go from four to six lanes. No further improvements are expected until 2020, when the section of GA 20 east of Samples Road will be upgraded again, this time to six lanes.



Currently, only the area northeast of GA Hwy 20 in the Buford/GA 20 East subarea has sewer service. This well developed northern half of the subarea falls within the Cumming sewer service area. The southern half of the subarea falls under the county's sewer service area and is slated for sewer expansion over the next five to ten years.

One of the strongest influences on the future development of the Buford/GA 20 East subarea will be continued expansion of the Atlanta urbanized area. Over the last ten years, this southern half of the County has experienced intense development pressure, and this pressure is moving northward along either side of GA 400. Because of this growth pressure, land values in the southern portion of the county are likely to continue to rise making it more economical for higher density development, particularly for those areas closest to GA 400. The residential component of the subarea should continue to thrive as GA 20 provides good east-west access and access to GA 400. As undeveloped land becomes scarcer in the subarea and the southern portion of the county, the demand for more intensive residential development will intensify.

## 2. Transitional Areas

There are still large tracts of available land for development in the Buford/GA 20 East subarea, so the likelihood of redevelopment is small. Generally, it is more expensive to tear down or renovate existing structures compared to constructing new, so as long as land is available with the same locational benefits as existing structures, new construction is likely to locate on vacant land.

The one major exception to this in the Buford subarea is the aging residential structures along Lake Lanier. There are several small older homes close to the lake that are likely to be redeveloped in the future. The value of lake front property has been rising steadily over the past ten years, as new residents have been moving into the County. Consequently, it is not unusual to find older homes located next to a newly constructed high-end single-family home near the lake. It can be expected that over time, most of these older houses will be replaced with new construction. As this transformation takes place, these smaller non-conforming lots will have to be brought up to existing County standards.

## 3. Land Use Policies

The 2015 Future Land Use map for the Buford/GA-400 subarea identifies over 60 percent of the area to be developed as large-lot single-family houses, 15 percent to be developed as commercial, industrial, and office/institutional uses, and 25 percent to be conserved as parkland and open space. Current land use policy was analyzed by examining the primary tools of land use including the Unified Development Code and the Land Use Element of the Comprehensive Plan. The JJG team also examined the current zoning and 2015 Future Land Use maps to determine any implications that might arise from those elements.

A difference exists between the way land is currently zoned in Forsyth County and the Future Land Use map. In order to achieve the future land uses that are envisioned in the Comprehensive Plan, large amounts of land would have to be re-zoned. Rezoning would have to occur not only within land use categories, but significant amounts of land would have to be rezoned into entirely different categories. **Figure 6** on the following page shows the amount of land that would have to be rezoned to provide consistency with the 2015 Future Land Use map.

**Figure 6**  
**Buford/GA-400 Rezoning to Match the 2015 Future Land Use Plan**

			Future Land Use Category				
				60%	3%	5%	7%
			Conservation and Park *	Single Family Residential	Office/ Institutional	Industrial	Commercial
<b>Current Zoning Category</b>	36%	<b>Agriculture</b>	8%	26%	1%	<1%	<1%
	55%	<b>Single-Family Residential</b>	15%	31%	<1%	3%	5%
	2%	<b>Multi-family Residential</b>	<1%	1%			<1%
	1%	<b>Office Institutional</b>	<1%	<1%	<1%	<1%	
	6%	<b>Commercial</b>	1%	2%	1%	1%	<1%

\* Note: Conservation and park land can be associated with any zoning category.

-  Indicates that a rezoning is not required to be consistent with the future Land Use Plan
-  Indicates potentially difficult rezoning
-  Indicates rezoning that might be moderately difficult
-  Indicates potentially easy rezoning

The chart included as **Figure 6** shows the amount of land within the Buford/GA 20 East subarea that is intended for conversion from a current zoning category (rows), to a future land use category (columns). Individual cells of the table are currently zoned within a particular category (shown by the row) and intended for a particular future land use category (shown by the column). Percentages within each cell indicate the percentage of total land area that is categorized by a particular zoning category/future land use category combination.

The colored areas of the chart indicate land that is currently intended for a future land use that is different from the way the land is currently zoned. At the present time, approximately 57% of the Buford/GA 20 East subarea is intended to perform the same use as it is currently allowed by zoning (shown by the white areas). To achieve the land uses shown in the current future land use map, 5% of the land will require significant rezonings. Areas shown in red represent required “downzonings” – zoning changes that are traditionally difficult to perform because they further restrict the use of the land. This comprises approximately 38% of the subarea. Areas shown in green represent required “upzonings” – zoning changes that are traditionally easier to perform because they generally increase the allowable uses of the land. This comprises approximately 40% of the subarea.

Approximately 36% of the Buford/GA 20 East subarea is currently intended to be moved away from agricultural zoning, to a mixture of residential (26%) and other uses (2%). Eight percent of the land, currently zoned agricultural, is intended for conservation and/or park use (primarily flood plain). Although the current land use regulations allow single-family residences on land zoned agricultural, this represents a significant conversion of the land’s purpose.

Over the next 10 to 20 years, the Buford/GA-400 area is likely to experience a rapid increase in population. Employment opportunities are likely to take the form of retail and service oriented businesses catering to the needs of future homeowners. The eventual form and density that this future development will take is strongly dependent on the provision of sewer and road improvements. There are no immediate plans now to extend sewer into the area, but the investment in new roads will increase property values and lead to further market interest in single-family residential development.

## E) Trend Scenario

### 1. Methodology

As part of the JJG team's examination of current land use policies and their potential impacts, an analysis of current development trends for the Buford/GA 20 East subarea was performed. It was based upon the existing 2015 Future Land Use map, rezoning history, and real estate market preferences. This analysis had no specific time horizon. It is intended to gain an understanding of the ultimate impact of future development, if such development follows existing trends and is guided by existing land use policy.

In order to accomplish this analysis, the JJG team made several assumptions including:

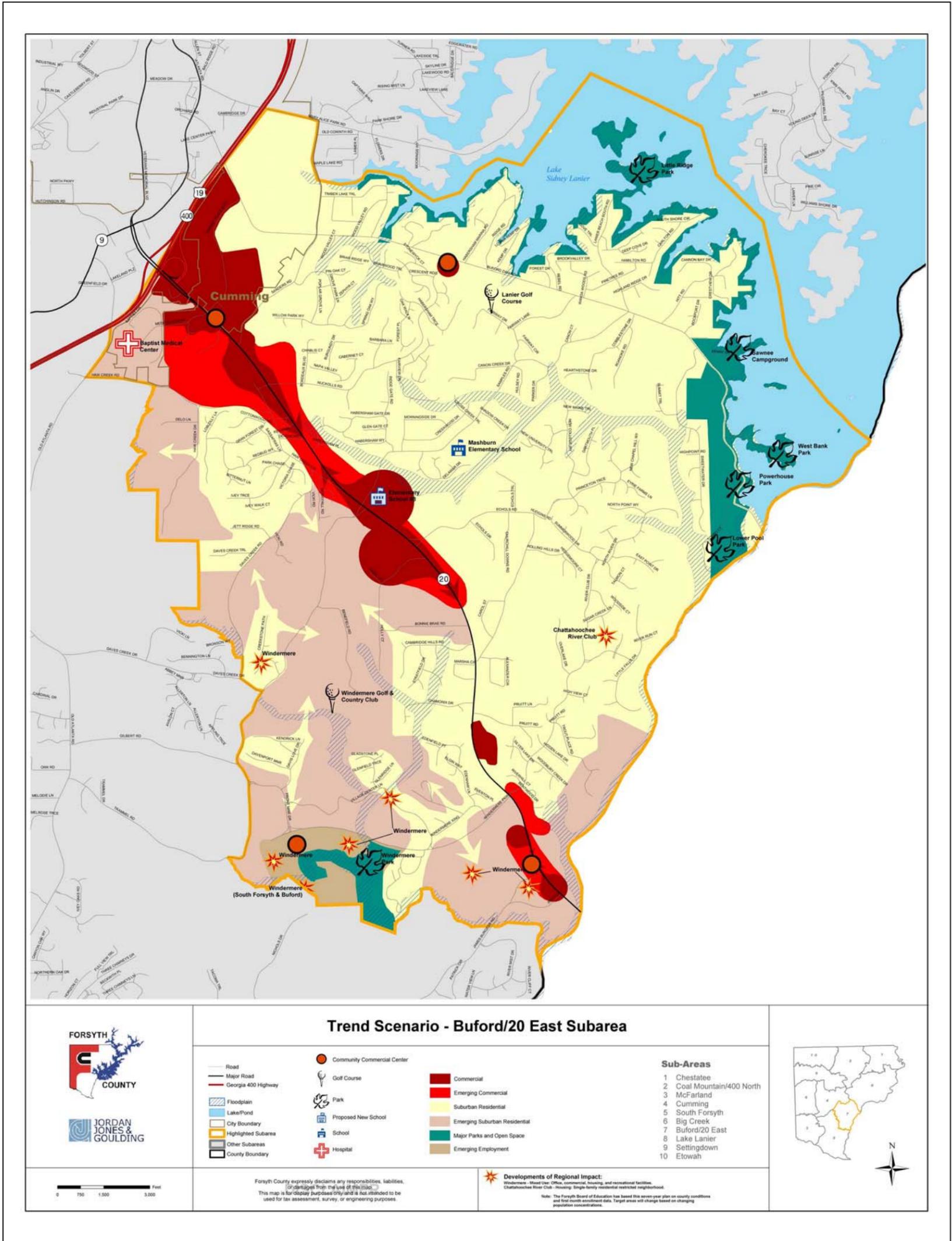
- ◆ Areas that are designated as having future land uses that are more intensive than their existing land uses will be redeveloped;
- ◆ Future development within broad land use categories (for example, "Commercial") will consist of a mix of uses and intensities that mirror the county-wide proportions of land that are currently zoned within that category;
- ◆ Future development restrictions (for example, minimum lot sizes, maximum floor-area-ratios) will be based upon those that are currently expressed in the Unified Development Code;
- ◆ "Density shifting" to accommodate land lying within flood plains will continue to be permitted. In other words, parcels that contain part of their land within flood plains will be allowed to develop at the maximum density permitted, based on the area of the entire parcel, not just the part that is outside the flood plain;
- ◆ Moderately sloping land (>15% but less than 30%) that is designated residential, will eventually be developed; and
- ◆ Sewer and water services will be extended to all areas that require them.

### 2. Trend Scenario Map

A Trend Scenario map was created in order to illustrate this future land use scenario and it is included on the following page as **Figure 7**. The future that this map indicates is not a given, but a likely scenario of how the area will develop over the next 20 years. This map shows that commercial areas will continue to expand along GA 20, filling in most of this route north of Echols Road and up to GA 400. Little additional commercial growth is likely along the southern strip of GA 20. Residential development will continue to take place along vacant parcels near GA 20, and will begin to fill in the lesser developed southern half of the subarea. As land becomes more scarce in the southern half of the county over the next couple of decades, some of this development may take place at higher densities, particularly as sewer is made available. However, the county is likely more than a decade away from seeing this trend begin.

The implications of this trend scenario include increased demands on public infrastructure, such as schools, water, sewer, roads, police and fire protection. It also indicates that the dramatic changes that the area has experienced over the past ten years are only the beginning of additional changes for the area if current trends continue. The question that this planning exercise poses is one that the citizens of the Buford/GA 20 East area have to answer, and that is "Is this the future that we envision for our community?"

Figure 7  
Buford/GA 20 East Trend Scenario



### III. Subarea Committee Recommendations

There were two meetings held from May to July 2003 to discuss the development of a land use plan for the Buford/GA 20 East subarea. A list of the meeting dates can be found in the **Appendix**. At the first meeting the inventory of existing conditions for the subarea was presented, and the participants were asked to help craft a vision for the subarea. At the second meeting, a draft land use plan map was presented along with the draft vision and participants were asked to fill out comments cards, which were presented to the subarea committee for discussion and review. The result of this meeting was a revised land use plan map and a list of policy recommendations that the subcommittee would like to present to the Countywide Land Use Steering Committee for possible inclusion in the county's Comprehensive Plan. The results of these meetings are presented below.

#### A) Buford/GA 20 East Subarea Vision

- The Buford/ 20 East subarea will primarily have residential character with convenient access to recreational, shopping and employment opportunities.
- The GA 400 and GA 20 highway corridors will continue to be an asset for residents of this subarea, providing a connection to jobs and commercial areas.
- New activity centers will be located near the intersection of GA 20 and Sanders Road and GA 20 and Windermere Parkway.
- Appropriate design standards will be adopted to promote quality development throughout the subarea.
- A network of greenways will run throughout the subarea with passive parks and connected trails.
- The subarea's valuable natural resources, including Lake Lanier and the Chattahoochee River, will be preserved for future generations through appropriated buffers and impervious surface restrictions.

#### B) Policy Recommendations

- Update the Unified Development Code to reflect the Future Land Use Plan.
- The County needs to prepare a Greenway Master Plan that includes connected greenways throughout the County. Existing natural features such as stream banks and groundwater recharge areas could be utilized.
- Need more land in public parks.
- Current Tree Ordinance needs to be strengthened, with a focus on preserving existing trees and requiring more trees in parking lots.
- Control the quality of development along SR 20 with design standards.
- Connect Activity Centers to residential neighborhoods with sidewalks.
- Limit impervious surfaces, promote pervious surfaces.
- Design standards should promote light colored roof tops to reduce urban heat islands and require lighting to face downward.

## C) Buford/GA 20 East Land Use Plan Map

The future land use plan is an extension of the goals and values of the community and a culmination of the subarea planning effort. This future land use map is intended to depict a 2025 future land use scenario. The acreages and percentages of each land use are compiled in **Figure 8** and a map showing the location of future land uses is included in **Figure 9**.

There are fourteen land use designations depicted on the future land use map, including three residential designations and six commercial/industrial/mixed-use designations. Below is brief definition of each.

**Low Density Residential** - This category is intended for single-family detached residential dwellings typically on septic sewer systems. Minimum lot size is 30,000 square feet, or the overall density is up to 1.5 units per acre. Institutional uses that are considered complimentary in this area include churches, schools, and libraries.

**Medium Density Residential** - Consists of single-family detached residential dwellings typically on sewer, with overall densities from 1.5 to 2.5 units per acre. Institutional uses that are considered complimentary in this area include churches, schools, and libraries. Private recreational uses, such as golf courses, tennis courts, walking trails and swimming pools are encouraged in these areas in developments greater than 50 lots.

**High Density Residential** - Typical uses include single-family detached and attached dwellings (such as townhouses) as well as multifamily condominiums and apartments, at densities of up to 6 units per acre. These developments should incorporate some amount of central outdoor public space for their residents. A limited number of churches, schools, libraries, other miscellaneous institutional uses and daycare facilities would be complimentary in these areas. An urban-density residential area is usually located near areas of high employment concentration, large commercial nodes, transportation nodes and mixed-use developments. It is essential that these developments include proper buffering between adjacent land uses.

**Office Transitional** - The Office Transitional category is intended to allow for the redevelopment or transition of residential uses along major roadways to office professional uses. It also allows for new office development that is constructed in a manner consistent and in keeping with the surrounding residential uses. The physical character and design of proposed new structures should be compatible with existing establishments. This category includes small single occupant structures for doctors and or accountants, as well as larger offices with multiple tenants. Businesses that are allowed in this category may provide a product directly to customers on the premises as an accessory to the service, but do not, as a primary activity, involve the manufacture, storage, or distribution of products. These areas should provide employment opportunities in close proximity to residential areas while providing a transition between the more intense commercial areas and residential neighborhoods.

**Neighborhood Commercial** - This category includes a limited range of retail and service activities to serve the everyday needs of local residents. Limitations should apply to both size and character of individual establishments. The basic character of this category is one that encourages and assures a compatible mixture of residential, office and retail types of land uses. Businesses in this land use

category should be designed to encourage the development of neighborhood scale shopping that offers both goods and products, and the furnishing of selected services.

**General Commercial** - This category includes standard retail and commercial service activities such as shopping centers, general retailers, specialty shops, grocery stores, drug stores, banks, restaurants, theatres, hotels, dry cleaners and entertainment facilities. These establishments should be located on appropriate transportation corridors to easily serve the public. Visual impacts of these developments should be minimized by requiring buffers, landscaping, and architectural controls.

**Activity Center** - The Activity Center land use category includes commercial, entertainment, limited residential, and public/institutional land uses typically found in a central business district. The commercial business district (CBD) and urban village (UV) zoning classifications are considered appropriate for developments proposed within the Activity Center classification. Developments within the Activity Center classification may be encouraged to consider additional zoning classifications, based on future revisions to the Forsyth County Unified Development Code. The types of uses that are desirable in this area would be restaurants, specialty retail, governmental offices, low-intensity offices (e.g. accountant or real estate office) and appropriate parking. Uses should be complemented with walking, biking and transit opportunities to provide alternative modes of transportation. Also, any roadway improvements that are considered for this area should carefully consider the scale of the area. Residential uses shall be considered accessory and limited to townhouses or apartments mixed into the commercial establishments. Commercial uses must be developed or present first in comparable scale before residential uses can be permitted for construction.

**Corridor Commercial** - The Corridor Commercial category is intended to focus on major transportation corridors, which presently contain a mix of agricultural, residential, commercial, and industrial land uses. Such corridors are unlikely to experience small scale, low or medium density residential development over the course of the planning period.

Developments within the corridor commercial classification will focus on land uses of varying intensity that will allow for the appropriate transition between high-intensity development abutting the transportation corridor as well as provide for a continued decrease of intensity as the development moves away from the transportation corridor. The physical character and design of proposed developments should be compatible with surrounding uses. Inter-parcel connectivity and side street access should be encouraged to minimize curb cuts and improve traffic flow.

Typical uses include standard retail and commercial service activities such as shopping centers, general retailers, specialty shops, grocery stores, drug stores, banks, restaurants, theatres, hotels, dry cleaners, entertainment facilities, multiple tenant offices, small single occupant structures, and entrances to residential subdivisions located outside the corridor commercial designation. The transitional nature of the category should be supported through the use of buffers, landscaping, and architectural controls to minimize the impacts on lower intensity land uses.

**Industrial** - The primary purpose of this category is to provide for areas where light industrial uses can be located. These light industrial uses include light manufacturing, warehousing, wholesale/distribution and assembly. More intensive industrial uses that are characterized by noise, fumes, vibration and other forms of pollution that might be viewed as objectionable by surrounding

uses are acceptable only on a case-by-case basis if well screened and buffered from other uses. Limited commercial uses are also allowed in industrial areas if they compliment existing industrial uses, such as cafeterias and day cares.

**Public / Institutional** - Includes uses such as schools, colleges, hospitals, municipal community centers, churches, cemeteries, municipal buildings and post offices.

**Public Park** - This category includes land dedicated to active and passive recreation uses. These areas are publicly owned and may include sports fields, recreation areas, greenways, and similar uses.

**Private Park** - Privately owned land that is used for active and passive recreation. This may include subdivision amenities areas, golf courses and Army Corps of Engineers recreation areas.

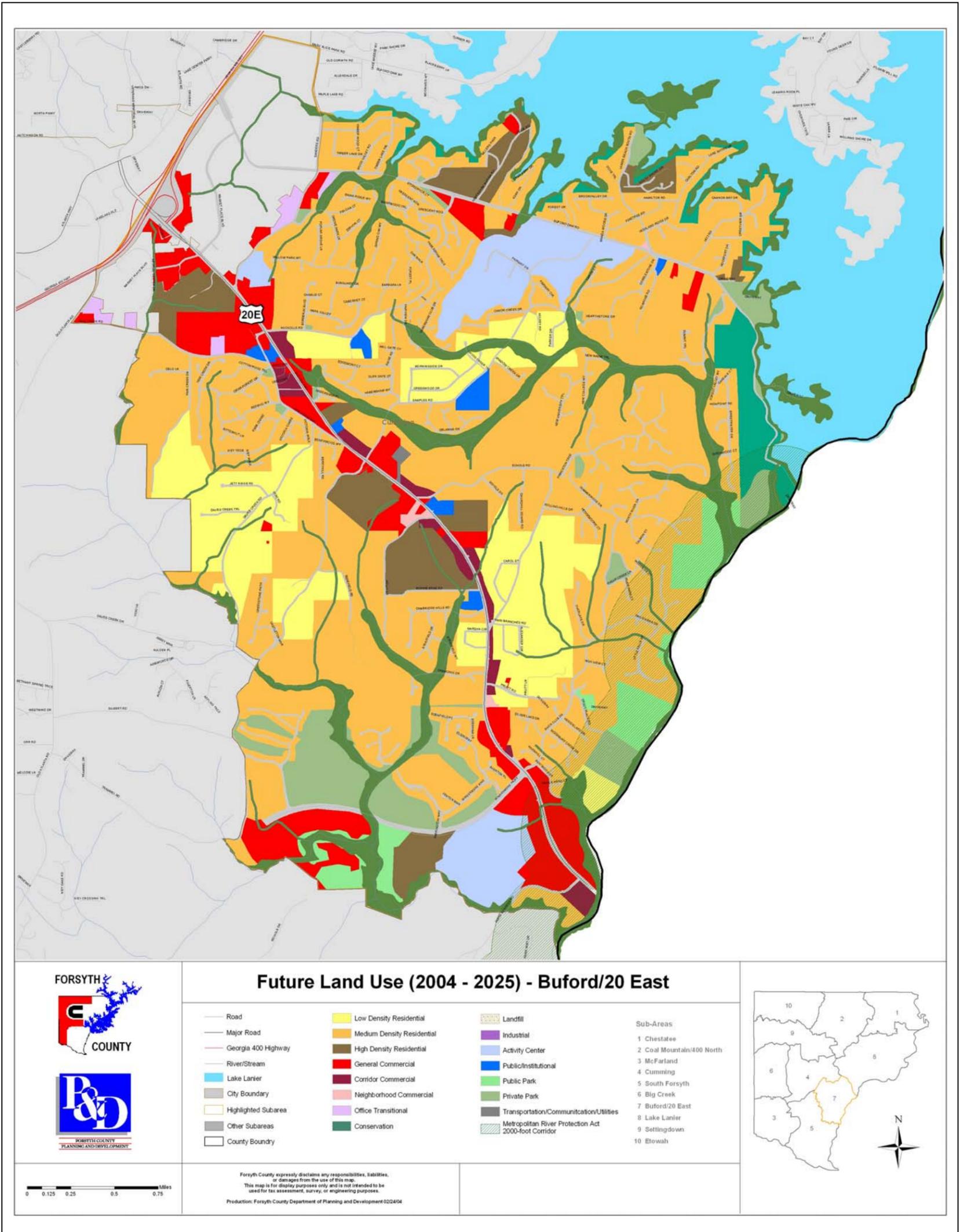
**Conservation** - This classification includes environmentally sensitive areas that are regulated at the local and state levels. Areas included in this category are the 35 ft. buffer along all county streams, a 100 ft. buffer along the Etowah River and land that is part of the 100-year floodplain of local waterways. This land has the potential to be used as public greenways or multi-purpose paths. Land classified as Conservation alerts government officials and property owners to the presence of environmental conditions that shall be factored into the rezoning and permitting process.

**Transportation / Communication / Utilities (TCU)** - This category includes such uses as landfills, water treatment plants, wastewater treatment plants, power substations, rail yards, mass transit facilities, airports, etc. These uses may be either public or private.

**Figure 8**  
**Buford/20 East Future Land Use, 2025**

Land Use	Acres	Percent
Medium Density Residential	4,039	45.7%
Low Density Residential	946	10.7%
Road Right-of Way (TCU)	742	8.4%
General Commercial	568	6.4%
Cumming	508	5.8%
Private Park	507	5.7%
High Density Residential	403	4.6%
Activity Center (Commercial)	365	4.1%
Public Park	260	2.9%
Conservation (Lake Lanier US Corps land only)	302	3.4%
Corridor Commercial	85	1.0%
Public/Institutional	53	0.6%
Office-Transitional	40	0.5%
Neighborhood Commercial	9	0.1%
Transportation/Communication/Utilities	6	0.1%
Industrial	0	0.0%
<b>Total Land Acreage</b>	<b>8,833</b>	<b>100.0%</b>

**Figure 9**  
**Buford/GA 20 East 2025 Future Land Use Plan**



# Appendix

## **A. Buford/GA 20 East Subarea Advisory Committee**

Michael Ecols  
Steve Carter  
Chuck Perry  
Prescott Eaton

## **B. Meeting Dates**

Buford Hwy/20 Subarea Public Visioning Workshop – May 20th at 6:30 PM in the West Hall Cafeteria, South Forsyth High School

Buford Subarea Advisory Committee Meeting - July 24th at 6:00 PM in the Deer Creek Shores Presbyterian Church Fellowship Hall.

Forsyth County  
Comprehensive Plan

Lake Lanier Subarea  
Land Use Report

September 25, 2003



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# I. Introduction

## A) Purpose

In preparing the 2003 Update to the Forsyth County Comprehensive Plan, the County initiated an ambitious public involvement process. In order to better analyze the County's needs and elicit a higher degree of community participation, the county was divided into ten planning subareas (**Figure 1**) with individual committees established to develop specific land use policies and a future land use map for their subarea. The subarea boundaries were determined by a variety of factors including: physical barriers, historical communities, economics and transportation corridors.



This information was gathered to help enable the community to look at where they are today, how they got there and where they want to go in the future. Included in this document are the findings from the land use inventory and assessment for the Lake Lanier subarea, as well as the recommendations of the Lake Lanier Subarea Advisory Committee. The membership of the committee and the meeting dates can be found in the **Appendix**.

## B) Scope

The following report provides a current “snapshot” of the Lake Lanier subarea. First, a description of existing land uses in the subarea is provided, along with an existing land use map and summary table. This is followed by an inventory of environmentally sensitive areas. These two sets of information allow the community to identify those sections of the subarea that could potentially be developed in the future, as well as those areas that should be protected from development pressures.

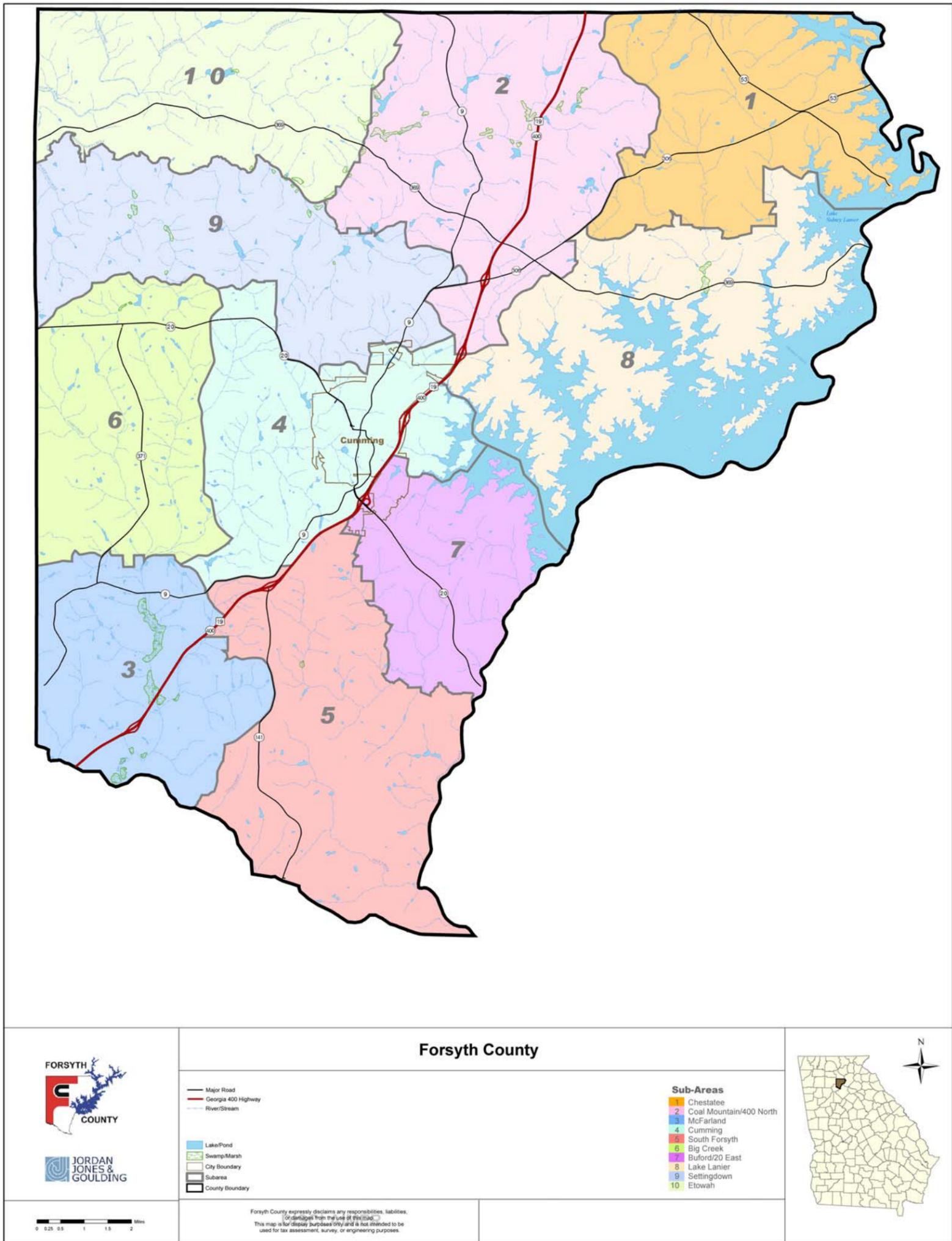
Following this inventory, there is an examination of the historic development patterns in the Lake Lanier subarea. This includes a discussion of demographic changes in the subarea between 1990 and 2000, as well as an estimate of land consumption during the last decade. There is also a summary of the historical factors that have led to the current development patterns.

An examination of future development trends is also provided. This includes an assessment of the future sewer and transportation infrastructure needs, as well as the identification of transitional areas that could potentially be redeveloped. Forsyth County's land use policies are also examined in order to determine what is allowed to develop under the current regulations. Finally, this report includes the subarea vision and policy recommendations developed by the Lake Lanier Subarea Advisory Committee, and a copy of the future land use map for the subarea.

## C) Location

The Lake Lanier subarea is located in the eastern part of Forsyth County. The general boundaries include the Chestatee subarea to the north, Lake Lanier to the east, the Buford subarea to the south and the Cumming and Coal Mountain subareas to the west. .

Figure 1  
Forsyth County Subarea Locations



## II. Inventory of Existing Conditions

### A) Description of Existing Land Uses

A comprehensive land use survey was conducted for Forsyth County in the summer of 2002 using tax parcel maps, aerial photographs and field review. In April 2003, JJG conducted a field review and a review of aerial photographs to verify the land uses in the Lake Lanier subarea. These land uses are shown on **Figure 2** on the following page and summarized in **Figure 3** below.

**Figure 3: Lake Lanier Existing Land Use, 2003**

Land Use	Acres	Percent
Residential	6,009.54	41.08%
Parks/Recreation/Conservation	3,618.33	24.74%
Undeveloped	2,942.59	20.12%
Agriculture	930.71	6.36%
Road Right-of-way	854.19	5.84%
Commercial	178.80	1.22%
Institutional/Public	82.78	0.57%
Industrial	9.77	0.07%
<b>Lake Lanier Total</b>	<b>14,627.72</b>	<b>100.00%</b>
Total Sq. Miles for Sub Area	22.9	--

As indicated in the table above, the largest land use category in the Lake Lanier subarea is residential, which makes up 41 percent of the subarea. The second largest category is parks/ recreation/ conservation land accounting for 24 percent of the total area. This land use category includes all of the park acreage around the lake. The third largest category is undeveloped land, which makes up 20 percent of the subarea. Undeveloped land is scattered throughout the area.

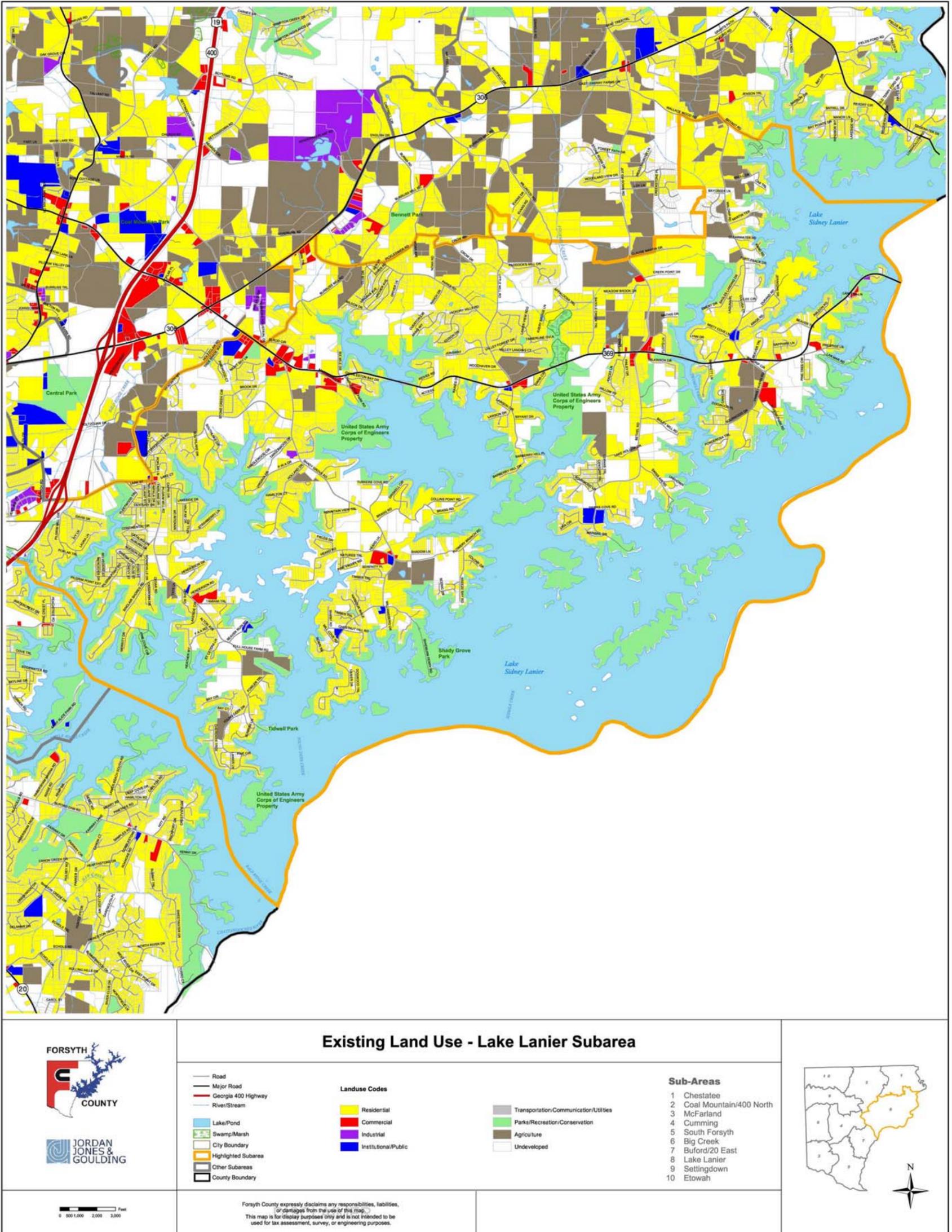
The remaining land uses make up just over 14 percent of the total area. These uses include agriculture, commercial, public/institutional, industrial and transportation/communication/utilities. Generally, the commercial uses are concentrated along SR 369, especially in the eastern part of the subarea. Industrial land use is limited to a few small parcels.

### B) Environmentally Sensitive Areas

#### 1. Historic Resources

In the mid-1990s a historic resources inventory was completed for Forsyth County. The Historic Resources Survey Report identified 490 historic resources in unincorporated Forsyth County. Fifty-three of these historic sites are located in the Lake Lanier subarea. According to the Survey Report at least 15 of these sites have potential for National Register listing.

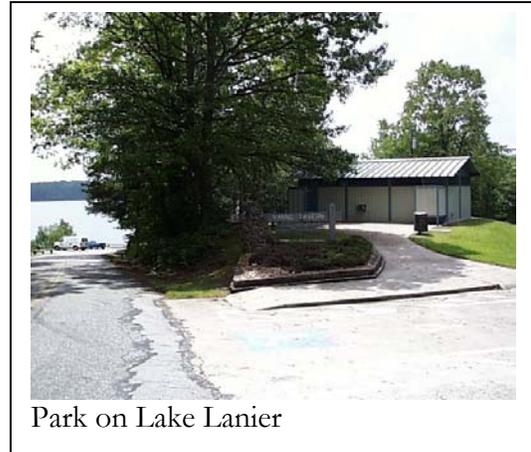
Figure 2  
Lake Lanier Subarea Existing Land Use



## 2. Water Resources

Lake Lanier, the primary reservoir for the Atlanta region, makes up the eastern boundary of the Lake Lanier subarea. In addition, there are a number of creeks and streams that drain into Lake Lanier. There are 2,469 acres of 100-year floodplains around the lake and its tributaries. Development on these floodplains is regulated in this area by the Federal Emergency Management Agency, the Georgia Floodplain Management Program of DNR and by local ordinances.

Of the 33,593 acres of groundwater recharge in Forsyth County, 1,520 acres are located in the Lake Lanier subarea. The recharge area is located in the northeast section of the subarea, along the border with the Coal Mountain subarea. Significant recharge areas have been mapped by the Georgia Department of Natural Resources at the state level. If a significant recharge area is identified, the local government must comply with the Official Code of Georgia Annotated 12-2-8. This Code outlines restrictions on locating landfills and hazardous waste facilities, above ground chemical or petroleum storage tanks, agricultural waste, impoundment sites, septic tank drain fields, slow rate land treatment, storm water infiltration basins and waste treatment basins.



## 3. Steep Slopes

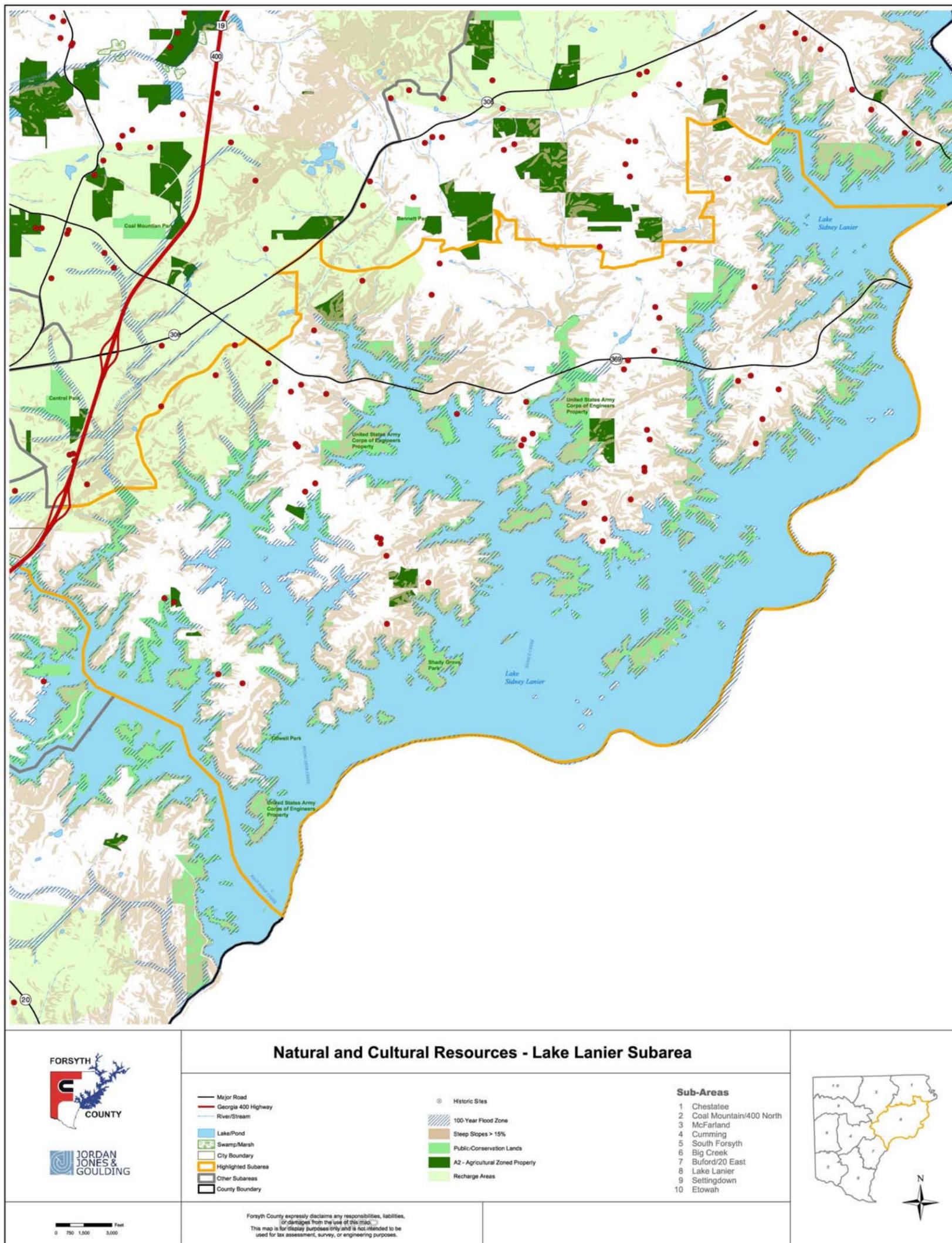
There are 5,261 acres of steep slopes (15% grade or greater) in the Lake Lanier subarea. The majority of steep slopes are located around Lake Lanier and its tributaries. Since the majority of this area is dedicated to residential land uses, steep slopes are not a major deterrent to future land development.

## 4. Conservation & Park Lands

There are no County parks in the subarea. However much of the lakefront is owned by the Army Corp of Engineers and has boat launches, picnic areas and campsites available for public use.

The locations of the natural and cultural resources in the Lake Lanier subarea are shown on the map included as **Figure 4**.

Figure 4  
Lake Lanier Natural and Cultural Resources



## C) Historic Development Patterns

### 1. Demographics

Development around Lake Lanier began nearly 50 years ago with mainly vacation and cottage homes. Over the past two decades, there has been a high amount of residential growth near the lake for year round residents. With the job opportunities located further south in the County, this area is highly desirable and easily accessible via GA 400. As indicated by the land use statistics, there has been very little non-residential development in the Lake Lanier subarea.

In 2000, the Census recorded 11,251 residents in the Lake Lanier subarea. This is an increase of 85 percent since 1990. While this increase is large, the area did not grow as fast as many other areas in Forsyth County. The population density for the Lake Lanier area is about average for the County with 292 people per square mile. The highest population density is in the South Forsyth subarea, with 373 people per square mile.

The Lake Lanier subarea is 96 percent white, but did add almost 500 minority residents during the 1990s. The majority of new minority residents are Hispanic or Latino. In 1990, the subarea had only 50 Hispanic or Latino residents. By 2000, this number had grown to 486, or 4 percent of the total population. The age distribution figures indicate the majority of residents in this area are 30-64 years of age. However, the fastest growing age category is young children under 5. Also, the number of residents 40-49 years of age has more than doubled since 1990, totaling 18 percent in 2000. **Figure 5** provides a comparison of the demographic statistics for the area for 1990 and 2000.

The number of housing units in the Lake Lanier subarea increased significantly during the 1990s. In 1990, there were 3,106 housing units and by 2000 the number of units increased to 4,952, a 59 percent increase. During the 1990s the vacancy rate declined 13 percent, dropping from 13 to 23 percent. The housing units in this area are mostly owner-occupied. The percent of owner-occupied units increased from 65 percent in 1990 to 75 percent in 2000.

**Figure 5**  
**Lake Lanier Subarea Demographics**  
**1990 – 2000**

	<b>1990</b>	<b>2000</b>	<b>Percent Change</b>
Total Population	6,079	11,251	85.1%
<b><i>Racial Distribution</i></b>			
White	6,057	10,852	79.2%
Black or African-American	0	32	N/A
Asian	11	30	184.4%
Hispanic or Latino of any race	50	486	877.2%
<b><i>Age Distribution</i></b>			
Under 5	396	840	112.4%
5 to 17	974	1,868	91.8%
18 to 21	286	388	35.8%
22 to 29	722	1,078	49.3%
30 to 39	1,160	2,111	82.0%
40 to 49	931	1,969	111.5%
50 to 64	1,018	1,965	93.0%
65 and over	642	1,032	60.8%
<b><i>Housing</i></b>			
Total Units	3,106	4,952	59.4%
Occupied	2,395	4,335	81.0%
Vacancy Rate	22.3%	12.4%	-9.9%
Owner Occupied	2,034	3,716	82.7%
Renter Occupied	361	619	71.6%
* Note: The racial and cultural distribution numbers total to a sum larger than the total population. Hispanic is a cultural descriptor and is not exclusive of race. In other words, many who consider themselves Hispanic also consider themselves White.			

## 2. Development Activity

The large majority of land consumption that has occurred in the Lake Lanier subarea is from residential development. Even with the large increase in developed acres, it is estimated there are still over 6,600 acres that could be developed in the Lake Lanier subarea.

One of the tools the JJG team used to evaluate development activity in the County is the occurrence of Developments of Regional Impact (DRIs) since 1990. A DRI review is required by law to be completed for large-scale developments that are likely to have impacts outside of the jurisdiction(s) where they are located. The Georgia Planning Act of 1989 authorized the Department of Community Affairs (DCA) to establish procedures for intergovernmental review of these large-scale projects. More than 40 DRI reviews have been completed in Forsyth County since 1990, but none within the Lake Lanier subarea.

## D) Future Development Trends

### 1. Future Infrastructure

One of the primary drivers of development is the provision for public infrastructure, particularly sewer and roads. The availability of sewer allows for higher density land uses such as apartments or small-lot subdivisions (less than one-half acre lots). Roads are also primary drivers of change because they provide access to desired destinations, such as jobs and shopping. Better access leads to a higher land value and a greater likelihood of more intense uses.

The only planned transportation improvement for the Lake Lanier subarea is the widening of SR 369. In 2005, SR 369 will be widened to four lanes from Keith Bridge Road to Circle Shores Road. By 2010, SR 369 will be widened to four lanes from Circle Shores Road east to the Hall County line.

The majority of land within the subarea is not served by public sewer. However, the property located immediately east of GA 400 falls within the City of Cumming's service area and does have access to sewer. The County's Sewer System Master Plan shows that a new water treatment facility will be constructed east of SR 306, near its intersection with SR 369. Construction of this new plant and the extension of sewer lines into the Lake Lanier subarea are likely long-term projects for the County.

### 2. Transitional Areas

There are still large tracts of available land for development in the Lake Lanier subarea, so the likelihood of redevelopment is small. Generally, it is more expensive to tear down or renovate existing structures compared to constructing new, so as long as land is available with the same locational benefits as existing structures, new construction is likely to locate on vacant land.

The one major exception to this in the Lake Lanier subarea is the aging residential structures along Lake Lanier. There are several small older homes close to the lake that are likely to be redeveloped in the future. The value of lake front property has been rising steadily over the past ten years, as new residents have been moving into the County. Consequently, it is not unusual to find older manufactured homes located next to a newly constructed high-end, single-family home near the lake. It can be expected that over time, most of these older manufactured and small vacation houses will be replaced with new construction. As this transformation takes place, these smaller non-conforming lots will have to be brought up to existing County standards.

### 3. Land Use Policies

The 2015 Future Land Use map for the Lake Lanier subarea identifies 87 percent of the area to be developed as large-lot single-family houses, 12 percent to be conserved as parkland and open space and only 1 percent to be developed as commercial space. Current land use policy was analyzed by examining the primary tools of land use including the Unified Development Code and the Land Use Element of the Comprehensive Plan. The JJG team also examined the current zoning and 2015 Future Land Use maps to determine any implications that might arise from those elements.

A difference exists between the way land is currently zoned in Forsyth County and the 2015 Future Land Use map. In order to achieve the future land uses that are envisioned in the Comprehensive Plan, large amounts of land would have to be re-zoned. Rezoning would have to occur not only within land use categories, but significant amounts of land would have to be rezoned into entirely different categories. **Figure 6** on the following page shows the amount of land that would have to be rezoned to provide consistency with the 2015 Future Land Use map. For example, **Figure 6** shows that 17 percent of the land is zoned for agricultural use, but 16 percent of this land would need to be rezoned for single-family residential use to be consistent with the 2015 Future Land Use Map. It is important to note that single-family residences are permitted on land zoned agricultural, but this use is different from the intended purpose of the agricultural district.

The chart included as Figure 6 shows the amount of land within the Lake Lanier subarea that is intended for conversion from a current zoning category (rows), to a future land use category (columns). Individual cells of the table are currently zoned within a particular category (shown by the row) and intended for a particular future land use category (shown by the column). Percentages within each cell indicate the percentage of total land area that is categorized by a particular zoning category/future land use category combination.

The colored areas of the chart indicate land that is currently intended for a future land use that is different from the way the land is currently zoned. At the present time, approximately 68% of the Lake Lanier subarea is intended to perform the same use as it is currently allowed by zoning (shown by the white areas). The colored areas of the chart indicate land that is currently intended for a future land use that is different from the way the land is currently zoned.

To achieve the land uses shown in the current future land use map, 31% of the land will require rezonings. Areas shown in red represent required “downzonings” – zoning changes that are traditionally difficult to perform because they further restrict the use of the land. This comprises approximately 13% of the subarea. Areas shown in green represent required “upzonings” – zoning changes that are traditionally easier to perform because they generally increase the allowable uses of the land. This comprises approximately 18% of the subarea.

Approximately 17% of the Lake Lanier subarea is intended to be moved away from agricultural zoning, to a mixture of residential (16%), and other uses (1%). Although the current land use regulations allow single-family residences on land zoned agricultural, this represents a significant conversion of the land’s purpose.

**Figure 6  
Lake Lanier Rezoning to Match Future Land Use Plan**

		Future Land Use Category			
		12%	87%	1%	
		Co Park	Single Family Residential	Commercial	
Current Zoning Category	17%	Agriculture	<1%	<b>16%</b>	<1%
	80%	Single-Family Residential	<b>11%</b>	<b>68%</b>	<1%
	0%	Multi-Family Residential		<1%	
	0%	Industrial		<1%	
	3%	Commercial	<1%	<b>2%</b>	<1%

-  Indicates that a rezoning is not required to be consistent with the Future Land Use Plan
-  Indicates potentially difficult rezoning
-  Indicates rezoning that might be moderately difficult
-  Indicates potentially easy rezoning

## E) Trend Scenario

### 1. Methodology

As part of the JGG team's examination of current land use policies and their potential impacts, an analysis of current development trends for the Lake Lanier subarea was performed. It was based upon the existing Future Land Use map, rezoning history, and real estate market preferences. This analysis had no specific time horizon. It is intended to gain an understanding of the ultimate impact of future development, if such development follows existing trends and is guided by existing land use policy.

In order to accomplish this analysis, the JGG team made several assumptions including:

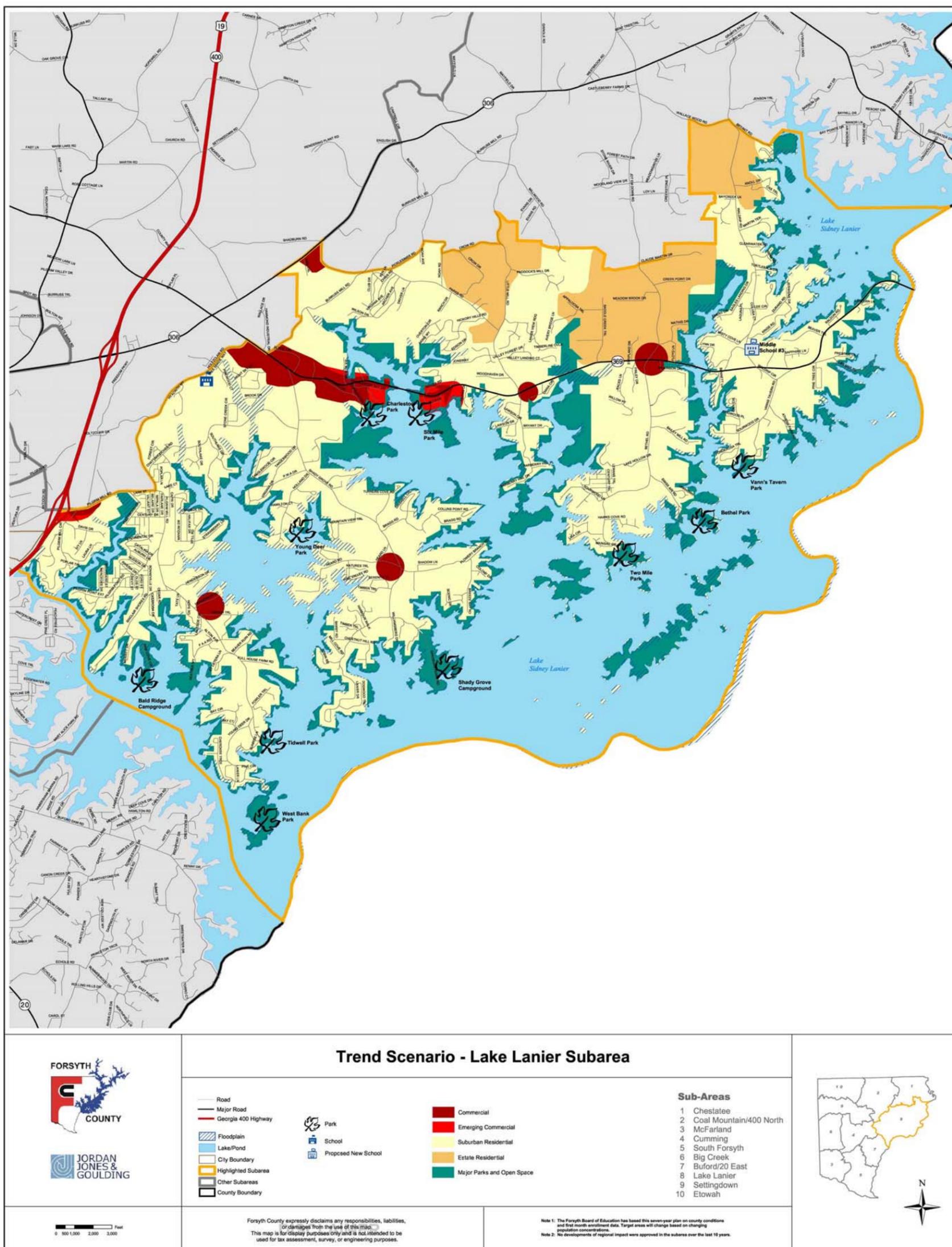
- ◆ Areas that are designated as having future land uses that are more intensive than their existing land uses will be redeveloped;
- ◆ Future development within broad land use categories (for example, "Commercial") will consist of a mix of uses and intensities that mirrors the county-wide proportions of land that is currently zoned within that category;
- ◆ Future development restrictions (for example, minimum lot sizes, maximum floor-area-ratios) will be based upon those that are currently expressed in the Unified Development Code;
- ◆ "Density shifting" to accommodate land lying within flood plains will continue to be permitted. In other words, parcels that contain part of their land within flood plains will be allowed to develop at the maximum density permitted, based on the area of the entire parcel, not just the part that is outside the flood plain;
- ◆ Moderately sloping land (>15% but less than 30%) that is designated residential, will eventually be developed; and
- ◆ Sewer and water services will be extended to all areas that require them.

### 2. Trend Scenario Map

A Trend Scenario map was created in order to illustrate this future land use scenario and it is included on the following page as **Figure 7**. The future that this map indicates is not a given, but a likely scenario of how the area will develop over the next 20 years. It shows that existing residential developments will continue to spread out and occupy most of the land in the subarea. Commercial growth is anticipated to continue along Browns Bridge Road/SR 369, Keiths Bridge Road/SR 306 and at the intersection of Freedom Parkway and Pilgrim Mill Road.

The implications of this trend scenario include increased demands on public infrastructure, such as schools, water, sewer, roads, police and fire protection. It also indicates that the dramatic changes that the area has experienced over the past ten years are only the beginning of additional changes for the area if current trends continue. The question that this planning exercise poses is one that the citizens of the Lake Lanier area have to answer, and that is "Is this the future that we envision for our community?"

Figure 7  
Lake Lanier Trend Scenario



### III. Subarea Committee Recommendations

There were two meetings held from May to July 2003 to discuss the development of a land use plan for the Lake Lanier subarea. A list of the meeting dates can be found in the **Appendix**. At the first meeting the inventory of existing conditions for the subarea was presented, and the participants were asked to help craft a vision for the subarea. At the second meeting, a draft land use plan map was presented along with the draft vision and participants were asked to fill out comments cards, which were presented to the subarea committee for discussion and review. The result of this meeting was a revised land use plan map and a list of policy recommendations that the subcommittee would like to present to the Countywide Land Use Steering Committee for possible inclusion in the county's Comprehensive Plan. The results of these meetings are presented below.

#### A) Lake Lanier Subarea Vision

- Lake Lanier will continue to be a valuable asset that provides recreational opportunities for local residents and visitors.
- The Lake Lanier subarea will primarily have a rural and large lot residential character.
- Commercial development will be limited in the subarea. Nodal commercial development will be concentrated in designated areas along the SR 369 corridor.
- The GA 400 corridor will continue to be an asset for residents of this subarea, providing a connection to jobs and commercial areas.
- Appropriate design standards will be adopted to promote quality development throughout the subarea.
- A network of greenways will run throughout the subarea with passive parks and connected trails, in particular connecting U.S. Army Corps of Engineers Land.

#### B) Policy Recommendations

- Continue to educate the public on planning issues through continuation of the Subarea Subcommittees and Steering Committee.
- Reconsider the Future Land Use Plan on a regular basis.
- County needs additional staff for enforcement of erosion control and other development standards.
- The County needs to prepare a Greenway Master Plan that includes connected greenways throughout the County. Existing natural features such as stream banks and groundwater recharge areas could be utilized.
- Consider establishing performance standards and enforcement criteria to protect areas around Lake Lanier.
- Need more land in public parks.
- Current Tree Ordinance needs to be strengthened, with a focus on preserving existing trees and requiring more trees in parking lots.
- Prepare a Feasibility Study on Transfer of Development Rights (TDRs) countywide, in order to preserve open space.
- Install sidewalks, bike paths and trees along roads as they are improved.

- Stormwater issues need to be addressed as they relate to water quality.
- Establish architectural and design standards with citizen based design commission to review plans.
- Look at the feasibility of offering tax or impact fee incentives for reducing density.

### C) Lake Lanier Land Use Plan Map

The future land use plan is an extension of the goals and values of the community and a culmination of the subarea planning effort. This future land use map is intended to depict a 2025 future land use scenario. The acreages and percentages of each land use are compiled in **Figure 8** and a map showing the location of future land uses is included in **Figure 9**.

There are fourteen land use designations depicted on the future land use map, including three residential designations and six commercial/industrial/mixed-use designations. Below is brief definition of each.

**Low Density Residential** - This category is intended for single-family detached residential dwellings typically on septic sewer systems. Minimum lot size is 30,000 square feet, or the overall density is up to 1.5 units per acre. Institutional uses that are considered complimentary in this area include churches, schools, and libraries.

**Medium Density Residential** - Consists of single-family detached residential dwellings typically on sewer, with overall densities from 1.5 to 2.5 units per acre. Institutional uses that are considered complimentary in this area include churches, schools, and libraries. Private recreational uses, such as golf courses, tennis courts, walking trails and swimming pools are encouraged in these areas in developments greater than 50 lots.

**High Density Residential** - Typical uses include single-family detached and attached dwellings (such as townhouses) as well as multifamily condominiums and apartments, at densities of up to 6 units per acre. These developments should incorporate some amount of central outdoor public space for their residents. A limited number of churches, schools, libraries, other miscellaneous institutional uses and daycare facilities would be complimentary in these areas. An urban-density residential area is usually located near areas of high employment concentration, large commercial nodes, transportation nodes and mixed-use developments. It is essential that these developments include proper buffering between adjacent land uses.

**Office Transitional** - The Office Transitional category is intended to allow for the redevelopment or transition of residential uses along major roadways to office professional uses. It also allows for new office development that is constructed in a manner consistent and in keeping with the surrounding residential uses. The physical character and design of proposed new structures should be compatible with existing establishments. This category includes small single occupant structures for doctors and or accountants, as well as larger offices with multiple tenants. Businesses that are allowed in this category may provide a product directly to customers on the premises as an accessory to the service, but do not, as a primary activity, involve the manufacture, storage, or distribution of products. These areas should provide employment opportunities in close proximity to residential areas while providing a transition between the more intense commercial areas and residential neighborhoods.

**Neighborhood Commercial** - This category includes a limited range of retail and service activities to serve the everyday needs of local residents. Limitations should apply to both size and character of individual establishments. The basic character of this category is one that encourages and assures a compatible mixture of residential, office and retail types of land uses. Businesses in this land use category should be designed to encourage the development of neighborhood scale shopping that offers both goods and products, and the furnishing of selected services.

**General Commercial** - This category includes standard retail and commercial service activities such as shopping centers, general retailers, specialty shops, grocery stores, drug stores, banks, restaurants, theatres, hotels, dry cleaners and entertainment facilities. These establishments should be located on appropriate transportation corridors to easily serve the public. Visual impacts of these developments should be minimized by requiring buffers, landscaping, and architectural controls.

**Activity Center** - The Activity Center land use category includes commercial, entertainment, limited residential, and public/institutional land uses typically found in a central business district. The commercial business district (CBD) and urban village (UV) zoning classifications are considered appropriate for developments proposed within the Activity Center classification. Developments within the Activity Center classification may be encouraged to consider additional zoning classifications, based on future revisions to the Forsyth County Unified Development Code. The types of uses that are desirable in this area would be restaurants, specialty retail, governmental offices, low-intensity offices (e.g. accountant or real estate office) and appropriate parking. Uses should be complemented with walking, biking and transit opportunities to provide alternative modes of transportation. Also, any roadway improvements that are considered for this area should carefully consider the scale of the area. Residential uses shall be considered accessory and limited to townhouses or apartments mixed into the commercial establishments. Commercial uses must be developed or present first in comparable scale before residential uses can be permitted for construction.

**Corridor Commercial** - The Corridor Commercial category is intended to focus on major transportation corridors, which presently contain a mix of agricultural, residential, commercial, and industrial land uses. Such corridors are unlikely to experience small scale, low or medium density residential development over the course of the planning period.

Developments within the corridor commercial classification will focus on land uses of varying intensity that will allow for the appropriate transition between high-intensity development abutting the transportation corridor as well as provide for a continued decrease of intensity as the development moves away from the transportation corridor. The physical character and design of proposed developments should be compatible with surrounding uses. Inter-parcel connectivity and side street access should be encouraged to minimize curb cuts and improve traffic flow.

Typical uses include standard retail and commercial service activities such as shopping centers, general retailers, specialty shops, grocery stores, drug stores, banks, restaurants, theatres, hotels, dry cleaners, entertainment facilities, multiple tenant offices, small single occupant structures, and entrances to residential subdivisions located outside the corridor commercial designation. The transitional nature of the category should be supported through the use of buffers, landscaping, and architectural controls to minimize the impacts on lower intensity land uses.

**Industrial** - The primary purpose of this category is to provide for areas where light industrial uses can be located. These light industrial uses include light manufacturing, warehousing, wholesale/distribution and assembly. More intensive industrial uses that are characterized by noise, fumes, vibration and other forms of pollution that might be viewed as objectionable by surrounding uses are acceptable only on a case-by-case basis if well screened and buffered from other uses. Limited commercial uses are also allowed in industrial areas if they compliment existing industrial uses, such as cafeterias and day cares.

**Public / Institutional** - Includes uses such as schools, colleges, hospitals, municipal community centers, churches, cemeteries, municipal buildings and post offices.

**Public Park** - This category includes land dedicated to active and passive recreation uses. These areas are publicly owned and may include sports fields, recreation areas, greenways, and similar uses.

**Private Park** - Privately owned land that is used for active and passive recreation. This may include subdivision amenities areas, golf courses and Army Corps of Engineers recreation areas.

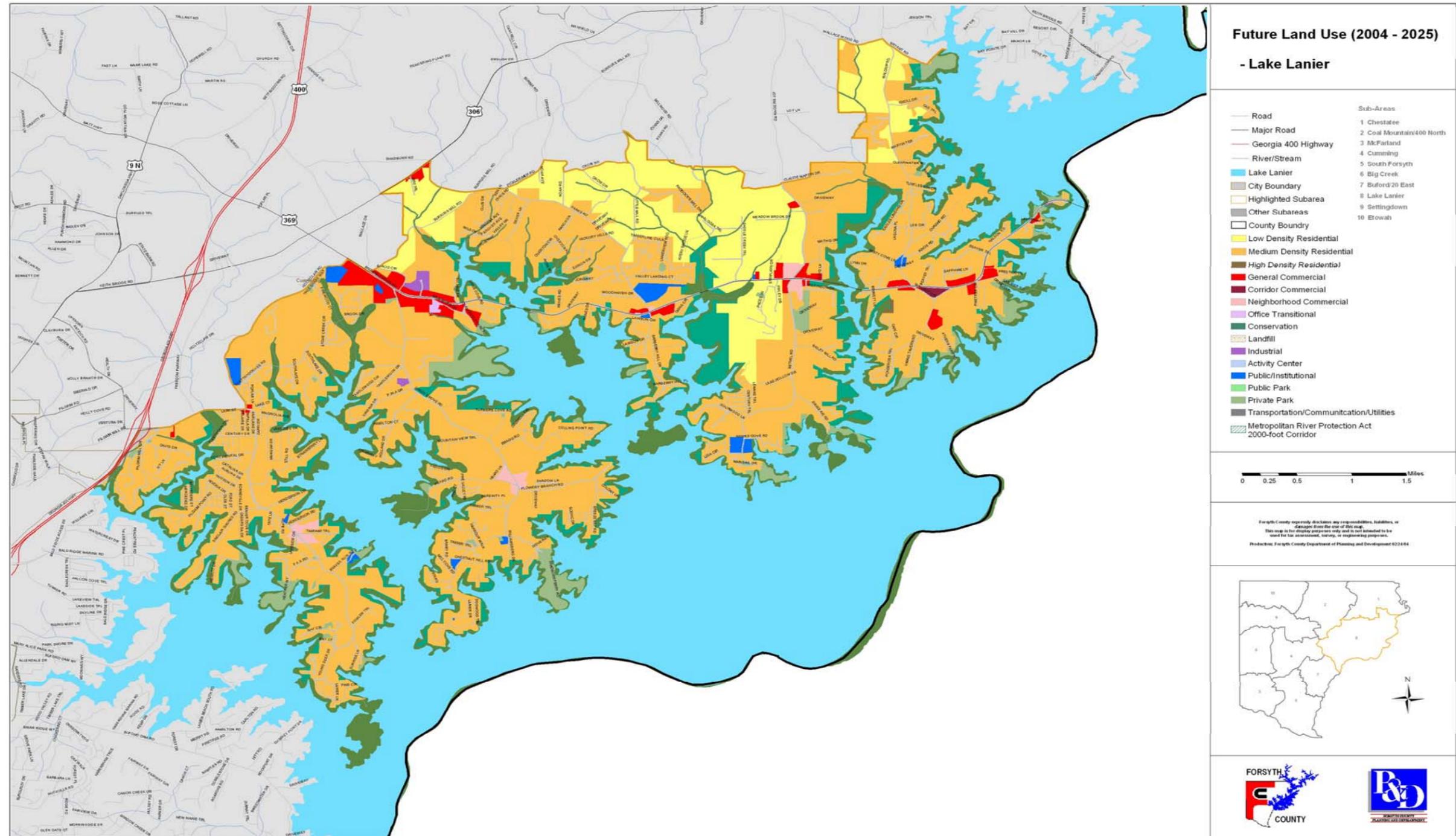
**Conservation** - This classification includes environmentally sensitive areas that are regulated at the local and state levels. Areas included in this category are the 35 ft. buffer along all county streams, a 100 ft. buffer along the Etowah River and land that is part of the 100-year floodplain of local waterways. This land has the potential to be used as public greenways or multi-purpose paths. Land classified as Conservation alerts government officials and property owners to the presence of environmental conditions that shall be factored into the rezoning and permitting process.

**Transportation / Communication / Utilities (TCU)** - This category includes such uses as water treatment plants, wastewater treatment plants, power substations, rail yards, mass transit facilities, airports, etc. These uses may be either public or private.

**Figure 8**  
**Lake Lanier Future Land Use, 2025**

<b>Land Use</b>	<b>Acres</b>	<b>Percent</b>
Medium Density Residential	7,799	53.4%
Conservation (Lake Lanier US Corps land only)	2,669	18.3%
Low Density Residential	1,850	12.7%
Private Park (PRC)	926	6.3%
Road Right-of Way (TCU)	887	6.1%
General Commercial	251	1.7%
Public/Institutional	109	0.7%
Neighborhood Commercial	75	0.5%
Industrial	25	0.2%
Corridor Commercial	9	0.1%
High Density Residential	6	0.0%
Office-Transitional	7	0.0%
Transportation/Communication/Utilities	1	0.0%
Activity Center (Commercial)	0	0.0%
Public Park (PRC)	0	0.0%
<b>Lake Lanier Total</b>	<b>14,615</b>	<b>100.0%</b>

Figure 9  
Lake Lanier 2025 Future Land Use Plan



# Appendix

## **A. Lake Lanier Subarea Advisory Committee**

Ronnie Pinson  
Gray Smith  
Chuck Jonaitis  
Lillian Zwald  
Jim Callison

## **B. Meeting Dates**

Lake Lanier Subarea Public Visioning Workshop – May 22nd at 6:30 PM in the Deer Creek Shores Presbyterian Church

Lake Lanier Subarea Advisory Committee Meeting - July 24th at 6:00 PM in the Deer Creek Shores Presbyterian Church Fellowship Hall.

Forsyth County  
Comprehensive Plan

Settingdown Subarea  
Land Use Report

September 25, 2003



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# I. Introduction

## A) Purpose

In preparing the 2003 Update to the Forsyth County Comprehensive Plan, the County initiated an ambitious public involvement process. In order to better analyze the County's needs and elicit a higher degree of community participation, the county was divided into ten planning subareas (**Figure 1**) with individual committees established to develop specific land use policies and a future land use map for their subarea. The subarea boundaries were determined by a variety of factors including: physical barriers, historical communities, economics and transportation corridors.



This information was gathered to help enable the community to look at where they are today, how they got there and where they want to go in the future. Included in this document are the findings from the land use inventory and assessment for the Settingdown subarea, as well as the recommendations of the Settingdown Subarea Advisory Committee. The membership of the committee and the meeting dates can be found in the **Appendix**.

## B) Scope

The following report provides a current “snapshot” of the Settingdown subarea. First, a description of existing land uses in the subarea is provided, along with an existing land use map and summary table. This is followed by an inventory of environmentally sensitive areas. These two sets of information allow the community to identify those sections of the subarea that could potentially be developed in the future, as well as those areas that should be protected from development pressures.

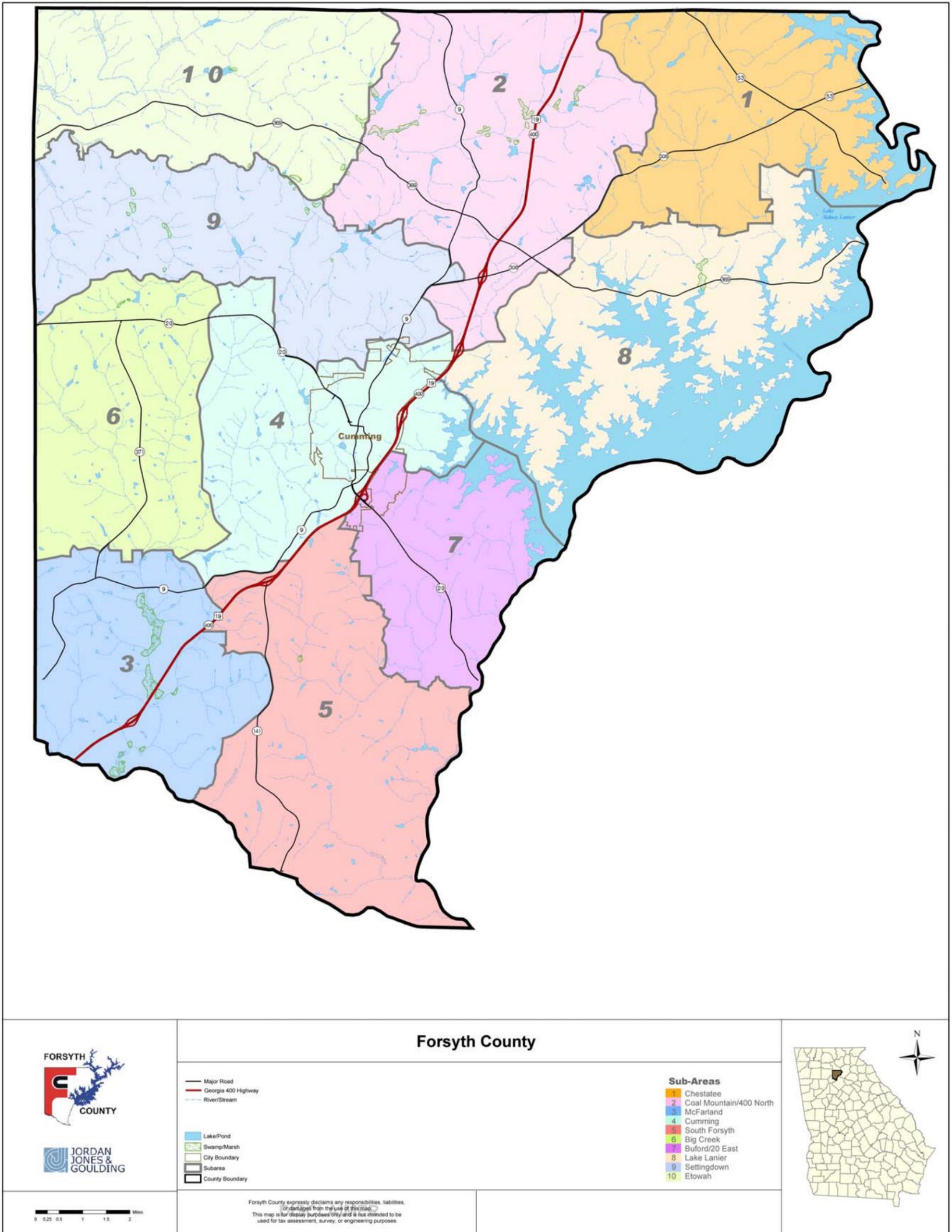
Following this inventory, there is an examination of the historic development patterns in the Settingdown subarea. This includes a discussion of demographic changes in the subarea between 1990 and 2000, as well as an estimate of land consumption during the last decade. There is also a summary of the historical factors that have led to the current development patterns.

An examination of future development trends is also provided. This includes an assessment of the future sewer and transportation infrastructure needs, as well as the identification of transitional areas that could potentially be redeveloped. Forsyth County's land use polices are also examined in order to determine what is allowed to develop under the current regulations. Finally, this report includes the subarea vision and policy recommendations developed by the Settingdown Subarea Advisory Committee, and a copy of the future land use map for the subarea.

## C) Location

The Settingdown subarea is located near the northwest corner of Forsyth County. Highway 9 cuts through the eastern side of the subarea, running north/south. The general boundaries include Cherokee County to the west, Settingdown creek to the north, and the Cumming and Big Creek subareas to the south.

Figure 1  
Forsyth County Subarea Locations



## II. Inventory of Existing Conditions

### A) Description of Existing Land Uses

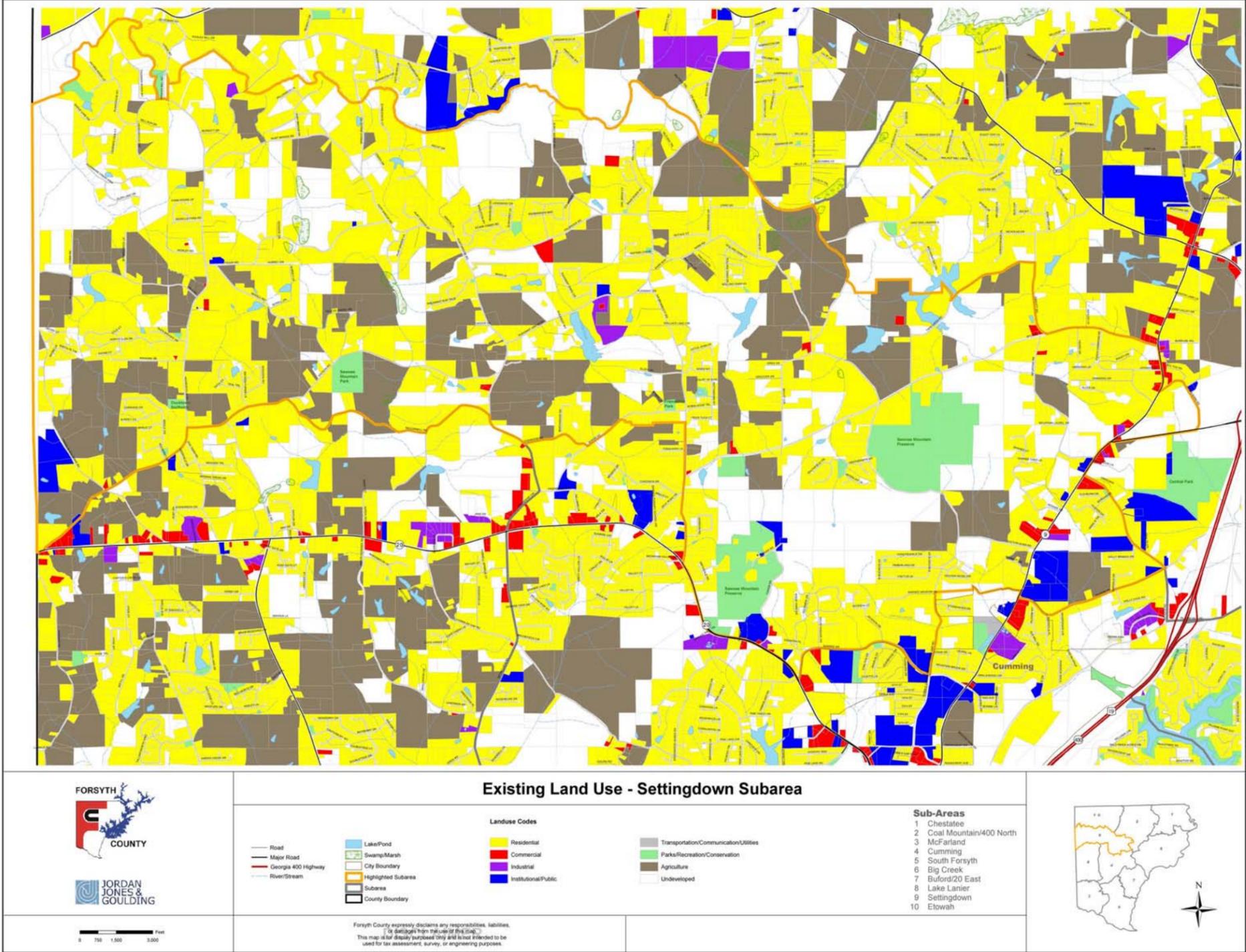
A comprehensive land use survey was conducted for Forsyth County in the Summer of 2002 using tax parcel maps, aerial photographs and field review. In April 2003, JJG conducted a field review and a review of aerial photographs to verify the land uses in the Settingdown subarea. These land uses are shown on **Figure 2** on the following page and summarized in **Figure 3** below.

**Figure 3: Settingdown Existing Land Use, 2003**

Land Use	Acres	Percent
Residential	6,555.54	42.72%
Undeveloped	4,177.84	27.23%
Agriculture	3,023.85	19.71%
Road Right-of-way	642.78	4.19%
Parks/Recreation/Conservation	579.47	3.78%
Institutional/Public	239.91	1.56%
Commercial	83.13	0.54%
Industrial	41.07	0.27%
<b>Settingdown Total</b>	<b>15,343.59</b>	<b>100.00%</b>
Total Sq. Miles for Sub Area	24.0	--

As indicated in the table above, the largest land use category in the Settingdown subarea is residential land, comprising 43 percent of the subarea. Residential land is scattered throughout the subarea, with lesser concentrations in the eastern portion and greater concentrations on the western side. Commercial land uses are few and far between and are mostly concentrated along Highway 9 in the eastern quarter of the subarea. In total, commercial land uses comprise less than 1 percent of all land uses in the subarea. The majority of agriculture in the area is spread out, and for the most part, is surrounded by residential development. While undeveloped lands account for over a quarter of all land uses in the Settingdown subarea, much of this land is located along Sawnee Mountain in the eastern portion of the subarea.

Figure 2  
Settingdown Subarea Existing Land Use



## B) Environmentally Sensitive Areas

### 1. Historic Resources

In the mid-1990s a historic resources inventory was completed for Forsyth County. The Historic Resources Survey Report identified 490 historic resources in unincorporated Forsyth County. Sixty-six (66) of these historic sites were located in the Settingdown subarea. One of these sites, the Settingdown Creek Covered Bridge on Pool's Mill Road was listed in the National Register of Historic Places in 1975. This covered bridge is considered a historically significant transportation route witnessing its greatest importance in the first quarter of the 20<sup>th</sup> century.

### 2. Water Resources

There are 943 acres of 100-year floodplains in the Settingdown subarea. Development is regulated in this area by the Federal Emergency Management Agency, the Georgia Floodplain Management Program of DNR and by local ordinances. Most of the floodplain associated with the Settingdown area is located along Settingdown Creek and its tributaries including Hurricane Creek, Thally Creek, Yellow Creek and Stark Creek.



There are 3,133 acres of land associated with groundwater recharge areas in the Settingdown subarea. Significant recharge areas have been mapped by the Georgia Department of Natural Resources at the state level. If a significant recharge area is identified, the local government must comply with the Official Code Georgia Annotated 12-2-8. This Code outlines restrictions on locating landfills and hazardous waste facilities, above ground chemical or petroleum storage tanks, agricultural waste, impoundment sites, septic tank drain fields, slow rate land treatment, storm water infiltration basins, and waste treatment basins.

There are two large groundwater recharge areas in the Settingdown subarea. One is in the northeastern corner of the area west of Highway 9. Land uses in this area are mostly commercial, residential and public, thus posing little threat to the health of the aquifer. The second area is in the central portion of the subarea north and south of Watson Road. This recharge area has a significant amount of agricultural land within it, and if pesticides or excessive fertilizers are used, may pose groundwater contamination threats. Due to the fact that Forsyth gets most of its drinking water from Lake Lanier, this poses threats only to the small portion of the constituency that depends on wells for drinking water.

### 3. Steep Slopes

There are 3,075 acres of steep slopes (15% grade or greater) in the Settingdown subarea. This amounts to approximately 20 percent of the total land area in the subarea. Most of these steep slopes are located in the eastern portion of the subarea along Sawnee Mountain, and in the western portion of the county along Hurricane Creek. Where slopes are greater

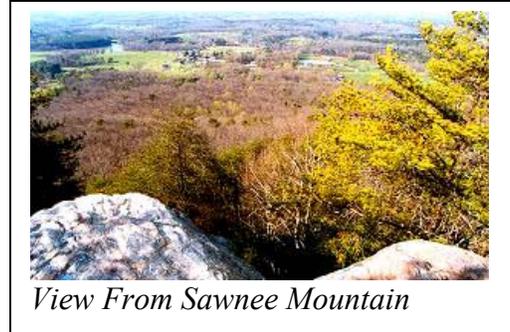
than 15 percent, greater care must be taken to control erosion and sedimentation and developing the land is more expensive and often cost prohibitive.

#### 4. Conservation & Park Lands

There are several parks within the Settingdown subarea, but none as large as the Sawnee Mountain Preserve. The preserve is currently about 725 acres.

Another park in the subarea with a similar name is the Sawnee Mountain Park. This facility covers 44 acres and is dedicated to active recreational needs including nine baseball and softball fields, four tennis courts, one football field, one soccer field, outdoor basketball courts, a picnic pavilion, playground and walking trail. Sawnee Mountain Park is located on Watson Road.

Other parks in the area include Ducktown Ballfields and Friendship Park.



The locations of the natural and cultural resources in the Settingdown subarea are shown on the map included as **Figure 4**.

### C) Historic Development Patterns

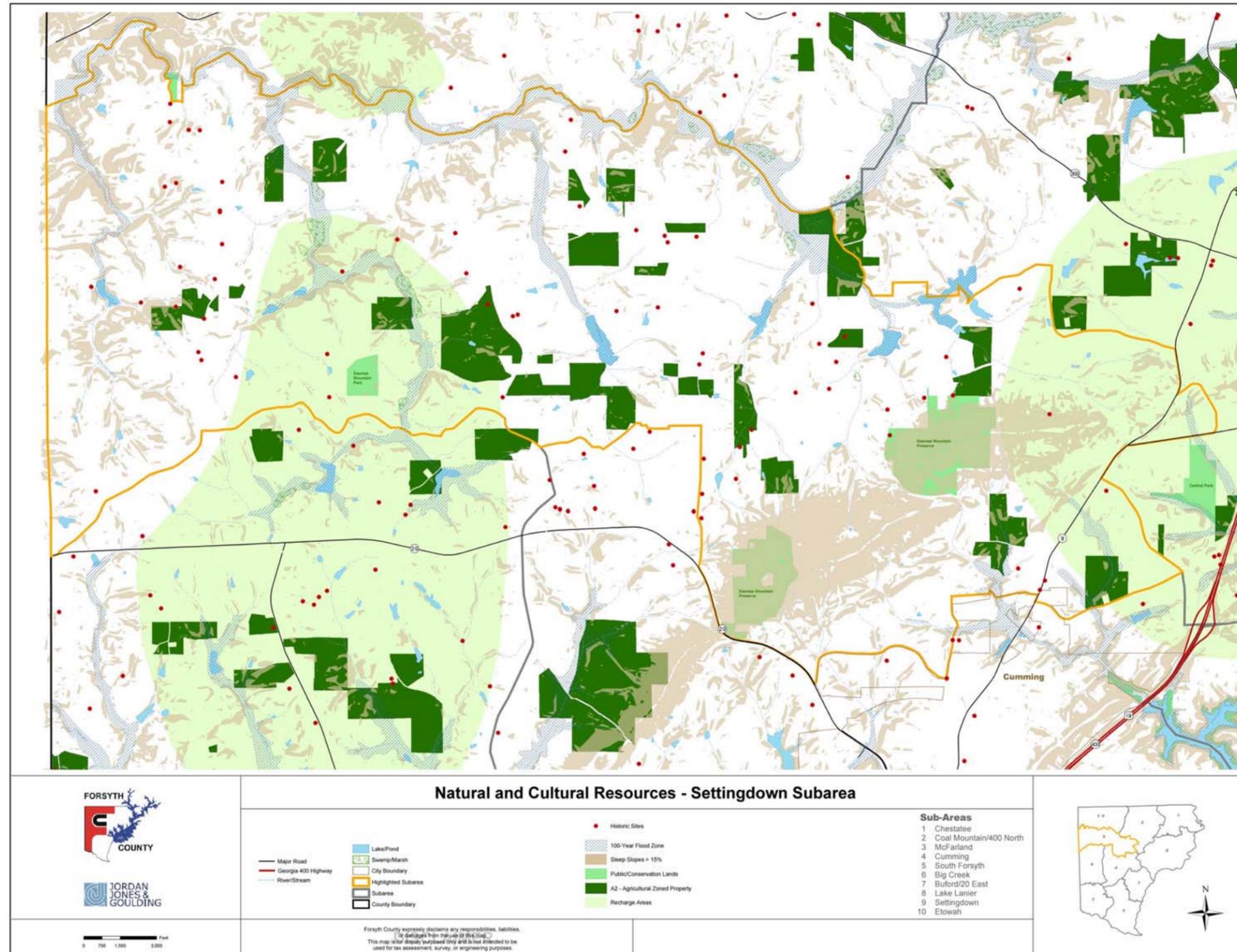
#### 1. Demographics

In 2000, the population of the Settingdown subarea totaled 8,647. This is an increase of 66.8% percent since 1990. This is considerably slower than the growth rate for Forsyth County, which was 123.2 percent during the 1990's (one of the fastest county growth rates in the country). The subarea is slightly less dense than the county as a whole, at 358 and 436 persons per square mile, respectively.

Following countywide trends, the Settingdown subarea is mostly white at 96 percent. The age distribution figures indicate the majority of residents in this area are 30-39 years of age with children between the ages of 5 and 17 ranking second. The largest increase in age distribution has been for the groups 5 and under and 40 to 49 years of age. **Figure 5** provides a comparison of the demographic statistics for the area for 1990 and 2000.

The number of housing units in the Settingdown subarea increased moderately in comparison to other subareas during the 1990s. In 1990, there were 1,995 housing units and by 2000 the number of units increased to 3,103, a 55.5 percent increase. During the 1990s the vacancy rate was cut in half, dropping from 7.7 percent in 1990 to 3.4 percent in 2000. The housing units in this area are largely owner-occupied, with 85 percent being owner-occupied and 12 percent renter occupied units. The number of owner-occupied units increased by 72 percent during the 1990s compared to an increase of only 12 percent for renter-occupied housing.

Figure 4  
Settingdown Natural and Cultural Resources



**Figure 5**  
**Settingdown Subarea Demographics**  
**1990 – 2000**

	1990	2000	Percent Change
Population	5,185	8,647	66.8%
<b><i>Racial and Cultural Distribution*</i></b>			
White	5,165	8,307	60.8%
Black or African American	1	22	2875.8%
Asian	9	34	284.6%
Hispanic or Latino, regardless of race	33	378	1060.3%
<b><i>Age Distribution</i></b>			
Under 5	405	775	91.6%
5 to 17	1,018	1,719	68.8%
18 to 21	293	339	15.7%
22 to 29	704	859	22.0%
30 to 39	968	1,782	84.1%
40 to 49	739	1,387	87.8%
50 to 64	654	1,189	81.8%
65 and over	437	597	36.5%
<b><i>Housing</i></b>			
Housing Units	1,995	3,103	55.5%
Occupied	1,840	2,998	62.9%
Vacancy Rate	7.7%	3.4%	4.3%
Owner Occupied	1,526	2,627	72.1%
Renter Occupied	314	371	18.2%
* Note: The racial and cultural distribution numbers total to a sum larger than the total population. Hispanic is a cultural descriptor and is not exclusive of race.			

## 2. Development Activity

It is estimated that since 1990 approximately one-eighth of the land (1,600 acres) in the Settingdown subarea has been developed. Almost all of this development has been for residential uses. Nearly half of the subarea is either undeveloped or used for agriculture, so the potential for future growth in the subarea is large.

One of the tools the JJG team used to evaluate development activity in the County is the occurrence of Developments of Regional Impact (DRIs) since 1990. A DRI review is required by law to be completed for large-scale developments that are likely to have impacts outside of the jurisdiction(s) where they are located. The Georgia Planning Act of 1989 authorized the Department of Community Affairs (DCA) to establish procedures for intergovernmental review of these large-scale projects. More than 40 DRI reviews have been completed in Forsyth County since 1990, but none of these developments are slated to occur in the Settingdown subarea.

## D) Future Development Trends

### 1. Future Infrastructure

One of the primary drivers of development is the provision for public infrastructure, particularly sewer and roads. The availability of sewer allows for more intensive land uses such small-lot subdivisions (less than one-half acre lots). Roads are also primary drivers of change because they provide access to desired destinations, such as jobs and shopping. Better access leads to a higher land value and a greater likelihood of more intense uses.

The 2002 Update of the County's Major Transportation Plan indicates there is only one transportation improvement planned for the Settingdown subarea by 2005. Highway 9 is slated to be upgraded from two to four lanes along the southern most section of the road. By 2010, the northern section of Highway 9 will be also be expanded to four lanes while a new four lane road will extend Keith's Bridge Road to Highway 9. By 2020, Doctor Bramblett Road is expected to be upgraded to a two-lane road with new left turn lanes.

Except for some areas close to the Hwy 9, sewer is not currently available in the subarea. Most of the eastern half of the subarea lies within the Cumming service area and would be served by City service if it were available. The western half falls within county sewer service area, yet no service is currently offered in that portion of the subarea. The County's Sewer System Master Plan shows future sewer service extended throughout much of the western portions of the subarea. These improvements are likely long-term, so the impact of their construction on land use patterns is not immediate.

Growth pressures in the Settingdown subarea are expected to remain less significant than that of the southern portion of the county. As the Atlanta metro area, and particularly the Alpharetta and Windward areas continue to grow, there will be significant growth pressures continuing in the southern portions of the county. As the southern subareas begin to be built out, there will certainly be increased pressures on northern subareas to accommodate additional growth. However, the substantial amounts of steep slopes and floodplains will serve to limit future nonresidential development.

## 2. Transitional Areas

There are still large tracts of available land for development in the Settingdown subarea, so the likelihood of redevelopment is small. Generally, it is more expensive to tear down or renovate existing structures compared to constructing new, so as long as land is available with the same locational benefits as existing structures, new construction is likely to locate on vacant land.

## 3. Land Use Policies

The 2015 Future Land Use map for the Settingdown subarea identifies over 77 percent of the area to be developed as large-lot single-family houses, one percent to be developed as multi-family and commercial uses, and 21 percent to be conserved as parkland and open space. Current land use policy was analyzed by examining the primary tools of land use including the Unified Development Code and the Land Use Element of the Comprehensive Plan. The JJG team also examined the current zoning and 2015 Future Land Use maps to determine any implications that might arise from those elements.

A difference exists between the way land is currently zoned in Forsyth County and the 2015 Future Land Use map. In order to achieve the future land uses that are envisioned in the Comprehensive Plan, some of the land would have to be re-zoned. Rezoning would have to occur not only within land use categories, but also some amounts of land would have to be rezoned into entirely different categories. **Figure 6** on the following page shows the amount of land that would have to be rezoned to provide consistency with the 2015 Future Land Use map.

The chart included as **Figure 6** shows the amount of land within the Settingdown subarea that is intended for conversion from a current zoning category (rows), to a future land use category (columns). Individual cells of the table are currently zoned within a particular category (shown by the row) and intended for a particular future land use category (shown by the column). Percentages within each cell indicate the percentage of total land area that is categorized by a particular zoning category/future land use category combination.

The colored areas of the chart indicate land that is currently intended for a future land use that is different from the way the land is currently zoned. At the present time, approximately 37% of the Settingdown subarea is intended to perform the same use as it is currently allowed by zoning (shown by the white areas). To achieve the land uses shown in the current 2015 Future Land Use map, 63% of the land will require significant rezonings. Areas shown in red represent required “downzonings” – zoning changes that are traditionally difficult to perform because they further restrict the use of the land. This comprises approximately 1% of the subarea. Areas shown in green represent required “upzonings” – zoning changes that are traditionally easier to perform because they generally increase the allowable uses of the land. This comprises approximately 78% of the subarea.

**Figure 6**  
**Settingdown Rezonings to Match the 2015Future Land Use Plan**

			Future Land Use Category			
				77%	1%	1%
			Conservation and Park *	Single Family Residential	Multi-family Residential	Commercial
Current Zoning Category	78%	Agriculture	16%	60%	1%	<1%
	21%	Single-Family Residential	4%	16%	<1%	<1%
	<1%	Multi-family Residential		<1%		<1%
	<1%	Industrial	<1%	<1%	<1%	<1%
	<1%	Commercial	<1%	<1%	<1%	<1%

\* Note: Conservation and park land can be associated with any zoning category.

	Indicates that a rezoning is not required to be consistent with the future Land Use Plan
	Indicates potentially difficult rezoning
	Indicates rezoning that might be moderately difficult
	Indicates potentially easy rezoning

Approximately 78% of the Settingdown subarea is currently intended to be moved away from agricultural zoning, to a mixture of residential (61%), and other uses (<1%). Sixteen percent of the land, currently zoned agricultural, is intended for conservation and/or park use (primarily flood plain). Although the current land use regulations allow single-family residences on land zoned agricultural, this represents a conversion of the land's purpose.

Over the next 10 to 20 years, the Settingdown area is likely to experience a rapid increase in population. Employment opportunities are likely to take the form of retail and service oriented businesses catering to the needs of future homeowners. The eventual form and density that this future development will take is strongly dependent on the provision of sewer and road improvements. There are no immediate plans now to extend sewer into the area, but the investment in new roads will increase property values and lead to further market interest in single-family residential development.

## E) Trend Scenario

### 1. Methodology

As part of the JJG team's examination of current land use policies and their potential impacts, an analysis of current development trends for the Settingdown subarea was performed. It was based upon the existing Future Land Use map, rezoning history, and real estate market preferences. This analysis had no specific time horizon. It is intended to gain an understanding of the ultimate impact of future development, if such development follows existing trends and is guided by existing land use policy.

In order to accomplish this analysis, the JJG team made several assumptions including:

- ◆ Areas that are designated as having future land uses that are more intensive than their existing land uses will be redeveloped;
- ◆ Future development within broad land use categories (for example, "Commercial") will consist of a mix of uses and intensities that mirror the county-wide proportions of land that are currently zoned within that category;
- ◆ Future development restrictions (for example, minimum lot sizes, maximum floor-area-ratios) will be based upon those that are currently expressed in the Unified Development Code;
- ◆ "Density shifting" to accommodate land lying within flood plains will continue to be permitted. In other words, parcels that contain part of their land within flood plains will be allowed to develop at the maximum density permitted, based on the area of the entire parcel, not just the part that is outside the flood plain;
- ◆ Moderately sloping land (>15% but less than 30%) that is designated residential, will eventually be developed; and
- ◆ Sewer and water services will be extended to all areas that require them.

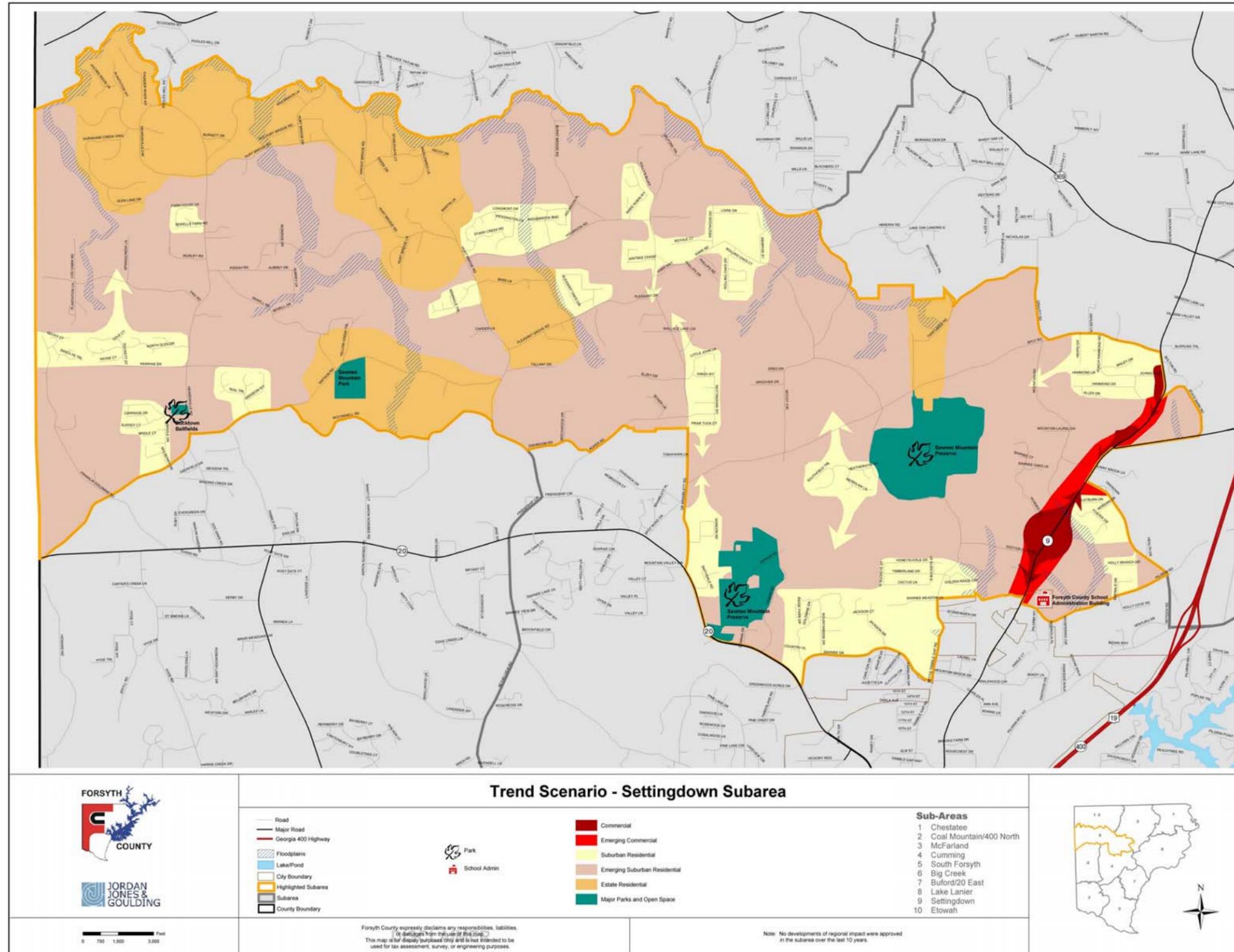
### 2. Trend Scenario Map

A Trend Scenario map was created in order to illustrate this future land use scenario and it is included on the following page as **Figure 7**. The future that this map indicates is not a given, but a

likely scenario of how the area will develop over the next 20 years. It shows that existing residential developments will spread out and occupy most of the land in the subarea. The map also indicates additional commercial development along GA Hwy 9.

The implications of this trend scenario include increased demands on public infrastructure, such as schools, water, sewer, roads, police, and fire protection. It also indicates that the dramatic changes that the area has experienced over the past 10 years are only the beginning of additional changes for the area if current trends continue. The question that this planning exercise poses is one that the citizens of the Settingdown area have to answer, and that is “Is this the future that we envision for our community?”

Figure 7  
Settingdown Trend Scenario



### III. Subarea Committee Recommendations

There were two meetings held from May to July 2003 to discuss the development of a land use plan for the Settingdown subarea. A list of the meeting dates can be found in the **Appendix**. At the first meeting the inventory of existing conditions for the subarea was presented, and the participants were asked to help craft a vision for the subarea. At the second meeting, a draft land use plan map was presented along with the draft vision and participants were asked to fill out comments cards, which were presented to the subarea committee for discussion and review. The result of this meeting was a revised land use plan map and a list of policy recommendations that the subcommittee would like to present to the Countywide Land Use Steering Committee for possible inclusion in the county's Comprehensive Plan. The results of these meetings are presented below.

#### A) Settingdown Subarea Vision

- Settingdown will primarily have a rural and large lot residential character.
- The subarea will offer a variety of lot sizes, but design guidelines will help to preserve the rural character.
- The subarea's valued natural and cultural resources will be preserved for future generations.
- With the exception of Hwy 9, the subarea will not contain any large-scale commercial areas.
- A nodal form of commercial development will develop along Hwy 9, not "strip commercial."
- Limited commercial development will be provided within large planned developments.
- A network of greenways will run throughout the subarea with passive parks and connected trails.

#### B) Policy Recommendations

- The County needs to prepare a Greenway Master Plan that includes connected greenways throughout the County. Existing natural features such as stream banks and groundwater recharge areas could be utilized.
- Need more land in public parks.
- Provide incentives for open space preservation through density bonuses.
- Provide large buffers around developments in environmentally sensitive areas such as around the Sawnee Mountain Preserve.

#### C) Settingdown Land Use Plan Map

The future land use plan is an extension of the goals and values of the community and a culmination of the subarea planning effort. This future land use map is intended to depict a 2025 future land use scenario. The acreages and percentages of each land use are compiled in **Figure 8** and a map showing the location of future land uses is included in **Figure 9**.

There are fourteen land use designations depicted on the future land use map, including three residential designations and six commercial/industrial/mixed-use designations. Below is brief definition of each.

**Low Density Residential** - This category is intended for single-family detached residential dwellings typically on septic sewer systems. Minimum lot size is 30,000 square feet, or the overall density is up to 1.5 units per acre. Institutional uses that are considered complimentary in this area include churches, schools, and libraries.

**Medium Density Residential** - Consists of single-family detached residential dwellings typically on sewer, with overall densities from 1.5 to 2.5 units per acre. Institutional uses that are considered complimentary in this area include churches, schools, and libraries. Private recreational uses, such as golf courses, tennis courts, walking trails and swimming pools are encouraged in these areas in developments greater than 50 lots.

**High Density Residential** - Typical uses include single-family detached and attached dwellings (such as townhouses) as well as multifamily condominiums and apartments, at densities of up to 6 units per acre. These developments should incorporate some amount of central outdoor public space for their residents. A limited number of churches, schools, libraries, other miscellaneous institutional uses and daycare facilities would be complimentary in these areas. An urban-density residential area is usually located near areas of high employment concentration, large commercial nodes, transportation nodes and mixed-use developments. It is essential that these developments include proper buffering between adjacent land uses.

**Office Transitional** - The Office Transitional category is intended to allow for the redevelopment or transition of residential uses along major roadways to office professional uses. It also allows for new office development that is constructed in a manner consistent and in keeping with the surrounding residential uses. The physical character and design of proposed new structures should be compatible with existing establishments. This category includes small single occupant structures for doctors and or accountants, as well as larger offices with multiple tenants. Businesses that are allowed in this category may provide a product directly to customers on the premises as an accessory to the service, but do not, as a primary activity, involve the manufacture, storage, or distribution of products. These areas should provide employment opportunities in close proximity to residential areas while providing a transition between the more intense commercial areas and residential neighborhoods.

**Neighborhood Commercial** - This category includes a limited range of retail and service activities to serve the everyday needs of local residents. Limitations should apply to both size and character of individual establishments. The basic character of this category is one that encourages and assures a compatible mixture of residential, office and retail types of land uses. Businesses in this land use category should be designed to encourage the development of neighborhood scale shopping that offers both goods and products, and the furnishing of selected services.

**General Commercial** - This category includes standard retail and commercial service activities such as shopping centers, general retailers, specialty shops, grocery stores, drug stores, banks, restaurants, theatres, hotels, dry cleaners and entertainment facilities. These establishments should be located on

appropriate transportation corridors to easily serve the public. Visual impacts of these developments should be minimized by requiring buffers, landscaping, and architectural controls.

**Activity Center** - The Activity Center land use category includes commercial, entertainment, limited residential, and public/institutional land uses typically found in a central business district. The commercial business district (CBD) and urban village (UV) zoning classifications are considered appropriate for developments proposed within the Activity Center classification. Developments within the Activity Center classification may be encouraged to consider additional zoning classifications, based on future revisions to the Forsyth County Unified Development Code. The types of uses that are desirable in this area would be restaurants, specialty retail, governmental offices, low-intensity offices (e.g. accountant or real estate office) and appropriate parking. Uses should be complemented with walking, biking and transit opportunities to provide alternative modes of transportation. Also, any roadway improvements that are considered for this area should carefully consider the scale of the area. Residential uses shall be considered accessory and limited to townhouses or apartments mixed into the commercial establishments. Commercial uses must be developed or present first in comparable scale before residential uses can be permitted for construction.

**Corridor Commercial** - The Corridor Commercial category is intended to focus on major transportation corridors, which presently contain a mix of agricultural, residential, commercial, and industrial land uses. Such corridors are unlikely to experience small scale, low or medium density residential development over the course of the planning period.

Developments within the corridor commercial classification will focus on land uses of varying intensity that will allow for the appropriate transition between high-intensity development abutting the transportation corridor as well as provide for a continued decrease of intensity as the development moves away from the transportation corridor. The physical character and design of proposed developments should be compatible with surrounding uses. Inter-parcel connectivity and side street access should be encouraged to minimize curb cuts and improve traffic flow.

Typical uses include standard retail and commercial service activities such as shopping centers, general retailers, specialty shops, grocery stores, drug stores, banks, restaurants, theatres, hotels, dry cleaners, entertainment facilities, multiple tenant offices, small single occupant structures, and entrances to residential subdivisions located outside the corridor commercial designation. The transitional nature of the category should be supported through the use of buffers, landscaping, and architectural controls to minimize the impacts on lower intensity land uses.

**Industrial** - The primary purpose of this category is to provide for areas where light industrial uses can be located. These light industrial uses include light manufacturing, warehousing, wholesale/distribution and assembly. More intensive industrial uses that are characterized by noise, fumes, vibration and other forms of pollution that might be viewed as objectionable by surrounding uses are acceptable only on a case-by-case basis if well screened and buffered from other uses. Limited commercial uses are also allowed in industrial areas if they compliment existing industrial uses, such as cafeterias and day cares.

**Public / Institutional** - Includes uses such as schools, colleges, hospitals, municipal community centers, churches, cemeteries, municipal buildings and post offices.

**Public Park** - This category includes land dedicated to active and passive recreation uses. These areas are publicly owned and may include sports fields, recreation areas, greenways, and similar uses.

**Private Park** - Privately owned land that is used for active and passive recreation. This may include subdivision amenities areas, golf courses and Army Corps of Engineers recreation areas.

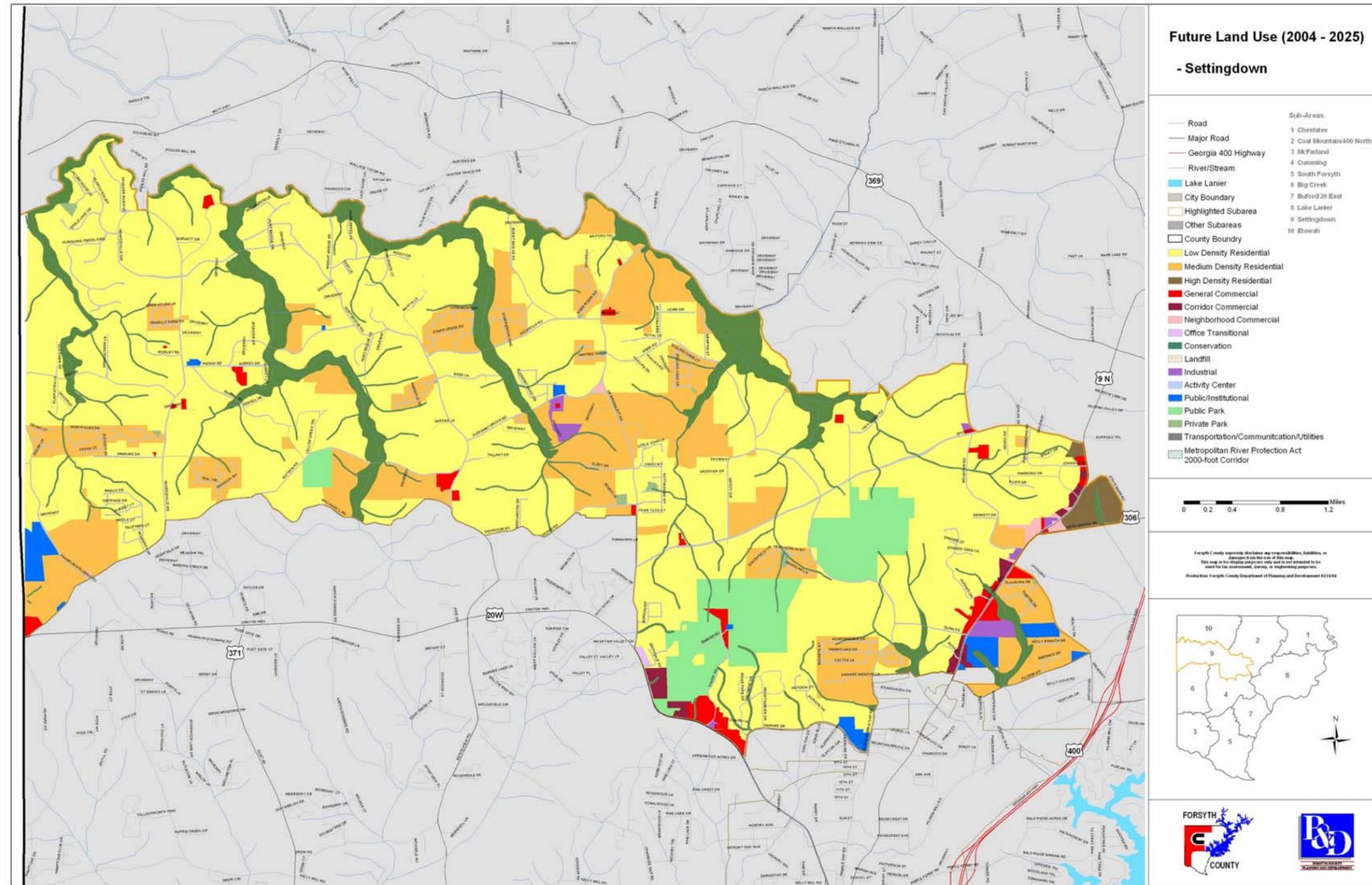
**Conservation** - This classification includes environmentally sensitive areas that are regulated at the local and state levels. Areas included in this category are the 35 ft. buffer along all county streams, a 100 ft. buffer along the Etowah River and land that is part of the 100-year floodplain of local waterways. This land has the potential to be used as public greenways or multi-purpose paths. Land classified as Conservation alerts government officials and property owners to the presence of environmental conditions that shall be factored into the rezoning and permitting process.

**Transportation / Communication / Utilities (TCU)** - This category includes such uses as landfills, water treatment plants, wastewater treatment plants, power substations, rail yards, mass transit facilities, airports, etc. These uses may be either public or private.

**Figure 8: Settingdown Future Land Use, 2025**

<b>Land Use</b>	<b>Acres</b>	<b>Percent</b>
Low Density Residential	10,519	68.5%
Medium Density Residential	2,706	17.6%
Public Park	773	5.0%
Road Right-of Way (TCU)	661	4.3%
General Commercial	187	1.2%
Public/Institutional	163	1.1%
High Density Residential	94	0.6%
Corridor Commercial	75	0.5%
Industrial	71	0.5%
Private Park	36	0.2%
Cumming	28	0.2%
Neighborhood Commercial	27	0.2%
Office-Transitional	6	0.0%
Activity Center	0	0.0%
Transportation/Communication/Utilities	0	0.0%
<b>Settingdown Total</b>	<b>15,346</b>	<b>100.0%</b>

Figure 9  
Settingdown 2025 Future Land Use Plan



# Appendix

## **A. Settingdown Subarea Advisory Committee**

Patty Durand  
Dan Wolf  
Jason May  
Pam Bowman  
Mark Tressler

## **B. Meeting Dates**

Settingdown Subarea Advisory Committee Meeting- May 29th at 6:30PM in the Cumming Library.

Settingdown Subarea Advisory Committee Meeting- July 22nd at 6:00PM in the Cumming Library.

Forsyth County  
Comprehensive Plan

Etowah Subarea  
Land Use Report

September 25, 2003



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# I. Introduction

## A) Purpose

In preparing the 2003 Update to the Forsyth County Comprehensive Plan, the County initiated an ambitious public involvement process. In order to better analyze the County's needs and elicit a higher degree of community participation, the county was divided into ten planning subareas (**Figure 1**) with individual committees established to develop specific land use policies and a future land use map for their subarea. The subarea boundaries were determined by a variety of factors including: physical barriers, historical communities, economics and transportation corridors.



Included in this document are the findings from the land use inventory and assessment for the Etowah subarea. The adequacy of the area's resources will be assessed further based on input from residents, appointed officials, County staff and elected officials. The information gathered at this stage enables the community to look at where they are today, how they got there and where they want to go in the future.

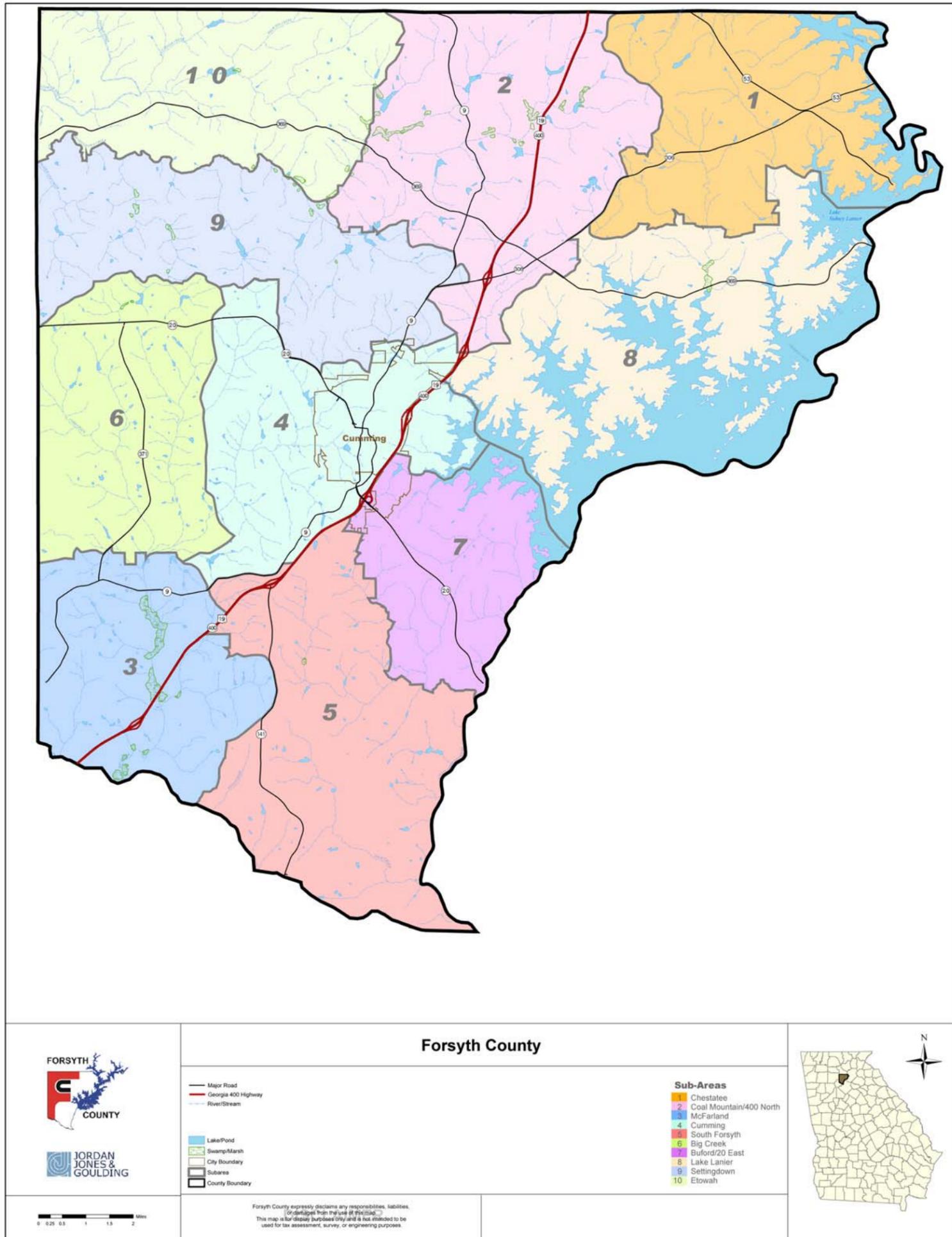
At the outset of the planning process, owners of parcels 25 acres and larger were identified as stakeholders and invited to participate in a special planning exercise. After a presentation on the planning process and four possible alternative development scenarios for the subarea, participating landowners sketched out their recommendations for land use on a blank map of the subarea and also provided written comments. The maps prepared by stakeholders were used to produce maximum and minimum coverages for each major type of land use (agricultural, residential, commercial). Using this information and considering all other relevant land use information (zoning, sensitive lands, etc.), a first draft of a land use plan for the subarea was produced.

In a second meeting, stakeholders were shown, via a Geographic Information System demonstration, the results of their recommendations and a draft future land use map that incorporated their suggestions. The resulting land use plan included a "balance" of input from the public and the planning staff.

Prior to the public hearings in front of the Planning Commission and Board of Commissioners, two additional meetings were held with the general public. The format of these meetings included a staff presentation of the plan, general citizen input, and a question and answer period.

JJG has reviewed the Policy and Implementation Guide and the Support Document that contains the inventory data for the Etowah subarea. This information was gathered to help enable the community to look at where they are today, how they got there and where they want to go in the future. Included in this document are the findings from the land use inventory and assessment for the Etowah subarea, as well as the recommendations of the Etowah Subarea Advisory Committee. The membership of the committee and the meeting dates can be found in the **Appendix**.

Figure 1  
Forsyth County Subarea Locations



## B) Scope

The following report provides a current “snapshot” of the Etowah subarea. First, a description of existing land uses in the subarea is provided, along with an existing land use map and summary table. This is followed by an inventory of environmentally sensitive areas. These two sets of information allow the community to identify those sections of the subarea that could potentially be developed in the future, as well as those areas that should be protected from development pressures.

Following this inventory, there is an examination of the historic development patterns in the Etowah subarea. This includes a discussion of demographic changes in the subarea between 1990 and 2000, as well as an estimate of land consumption during the last decade. There is also a summary of the historical factors that have led to the current development patterns.

An examination of future development trends is also provided. This includes an assessment of the future sewer and transportation infrastructure needs, as well as the identification of transitional areas that could potentially be redeveloped. Forsyth County’s land use polices are also examined in order to determine what is allowed to develop under the current regulations. Finally, this report includes the subarea vision and policy recommendations developed by the Etowah Subarea Advisory Committee, and a copy of the future land use map for the subarea.

## C) Location

The Etowah subarea is located in the northwest corner of Forsyth County. Cherokee County forms a boundary to the west, while Dawson County lies to the north. The southern boundary of the Etowah subarea is formed by Etowah Creek and the eastern boundary runs north south just east of John Burrus Road.

## II. Inventory of Existing Conditions

### A) Description of Existing Land Uses

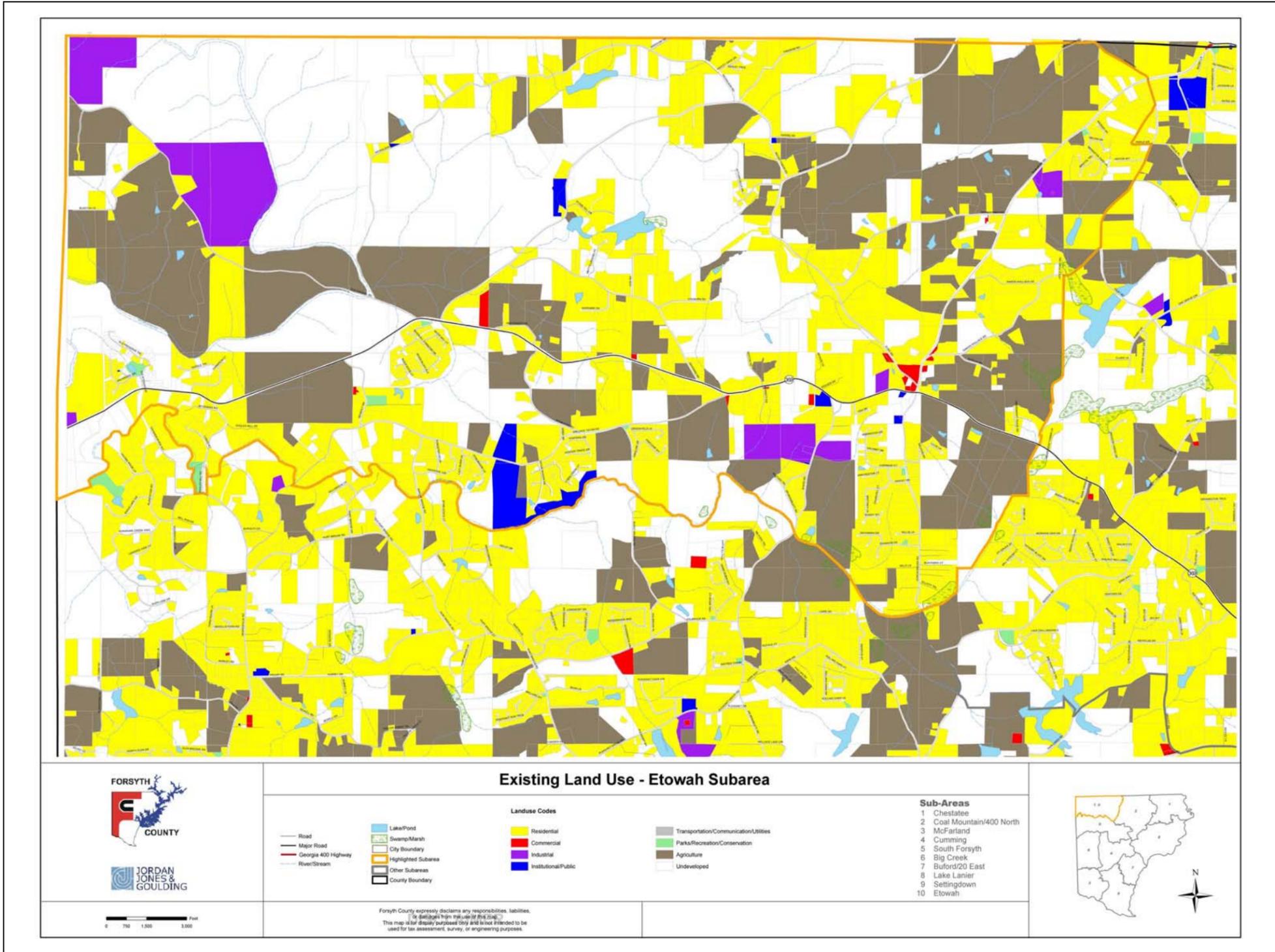
A comprehensive land use survey was conducted for Forsyth County in the Summer of 2002 using tax parcel maps, aerial photographs and field review. In April 2003, JJG conducted a field review and a review of aerial photographs to verify the land uses in the Etowah subarea. These land uses are shown on **Figure 3** on the following page and summarized in **Figure 2** below.

**Figure 2: Etowah Existing Land Use, 2003**

Land Use	Acres	Percent
Undeveloped	5,888.59	38.72%
Residential	4,279.63	28.14%
Agriculture	3,859.27	25.37%
Road Right-of-way	481.12	3.16%
Industrial	402.69	2.65%
Institutional/Public	134.94	0.89%
Parks/Recreation/Conservation	132.21	0.87%
Commercial	31.42	0.21%
<b>Etowah Total</b>	<b>15,209.87</b>	<b>100.00%</b>
Total Sq. Miles for Sub Area	23.8	--

As indicated in the table above, the largest land use category in the Etowah subarea is undeveloped land at nearly 38 percent of the subarea. That makes this subarea one of the least developed subareas in the county, and certainly, far less developed than subareas to the south or east. Undeveloped land can be found in mass around the two landfills in the northwest corner of the subarea. The majority of this undeveloped land is heavily forested and either on steep slopes or within the floodplain of the Etowah River. Residential land is concentrated on the eastern and southern boundaries of the subarea and constitutes over a quarter of the area, 28 percent to be exact. Commercial land uses are few and far between found primarily at the intersection of GA 369 and Bannister Road. At less than one-half of one percent, the Etowah subarea has the least amount of land dedicated to commercial uses in the county. In total, commercial land uses comprise less than 1 percent of all land uses in the subarea. What the Etowah subarea does have that few other areas in the county can lay claim to is a substantial amount of agricultural lands, at 25 percent. Thus, while lacking new residential and commercial development relative to other subareas, the Etowah subarea preserves and displays the rural character that defines Forsyth County's heritage.

Figure 3  
Etowah Subarea Existing Land Use



## B) Environmentally Sensitive Areas

### 1. Historic Resources

In the mid-1990s a historic resources inventory was completed for Forsyth County. The Historic Resources Survey Report identified 490 historic resources in unincorporated Forsyth County. Thirty nine of these historic sites are located in the Etowah subarea. The Etowah Subarea Plan Support Document produced in 2001 details four of these sites in detail:

**Old Federal Road:** Prior to White settlement, Forsyth County was part of the Cherokee Indian Territory. In the early 1800s, the Cherokee Federal Road was constructed across Northwest Georgia following the old Cherokee Middle Path. The Federal Road served as an emigrant artery to West Tennessee and northern Alabama and was eventually used as a postal route, stage route, and for transporting farm goods to market. The Old Federal Road was also significant in that it was used in the 1830s for the removal of the Cherokee Indians from the area (i.e., the “Trail of Tears”). Segments of the Old Federal Road survive today in northern Forsyth County, particularly in the northwest corner of the County within the Etowah subarea boundary. Vann’s Tavern, one of Forsyth County’s most notable historic resources, was located in the subarea near the Etowah River along the Old Federal Road; however, it was relocated to Gordon County.

**Mt. Tabor Church:** This historic resource is reportedly the oldest active church in Forsyth County today (1833). This site, which is located on the west side of Mt. Tabor Road approximately one mile north of Matt Highway (SR 369), also includes a cemetery.

**Buffington’s Tavern:** This early 1800’s structure is located on the north side of Old Federal Road, 0.7 miles west of the Etowah River. This structure was found in the survey report to be important to local history but in poor condition.

**Poole’s Mill Covered Bridge:** This covered bridge across Settingdown Creek at Old Poole's Mill Road was constructed in 1901. It was an important transportation route in the first quarter of the 20<sup>th</sup> century, and is now a county park. The bridge was listed individually on the National Register of Historic Places in 1975.

### 2. Water Resources

There are 1363 acres of 100-year floodplains in the Etowah subarea. Development is regulated in this area by the Federal Emergency Management Agency, the Georgia Floodplain Management Program of DNR and by local ordinances. Most of the floodplain associated with the Etowah area comes from the portions of Settingdown Creek that fall within the southern boundary of the subarea, and the Etowah River, located in the western half of the subarea. The Etowah River has been designated by the State of Georgia as a protected river corridor and as such has a required 100 foot vegetated buffer that is to be maintained on either side of the river.

There are 2506 acres of land associated with groundwater recharge areas in the Etowah subarea. Significant recharge areas have been mapped by the Georgia Department of Natural Resources at the state level. If a significant recharge area is identified, the local government must comply with the Official Code Georgia Annotated 12-2-8. This Code outlines restrictions on locating landfills and hazardous waste facilities, above ground chemical or petroleum storage tanks, agricultural waste,

impoundment sites, septic tank drain fields, slow rate land treatment, storm water infiltration basins, and waste treatment basins.

There are two large groundwater recharge areas in the Etowah subarea. One is in the northeastern corner of the area where agriculture, residential and undeveloped land parcels are found. The only threat to groundwater may come from the agricultural uses, but given the fact that the county relies heavily on surface water, this is more of long term concern if groundwater stocks were to be needed on a wider basis in the future. The second recharge area is significantly smaller, located on the southern border of the study area, south of GA 369 and in the vicinity of Wright Bridge Road. This recharge area has less agricultural lands associated with it, and thus, poses little threat to groundwater sources.

### 3. Steep Slopes

There are 3814 acres of steep slopes (15% grade or greater) in the Etowah subarea. This amounts to approximately 25 percent of the total land area in the subarea. Most of these steep slopes are in the western half of the subarea, particularly around the Etowah River. These slopes are found in the eastern portion of the study area, but to a lesser extent, and are practically nonexistent in the well-developed southeast corner.

### 4. Conservation & Park Lands

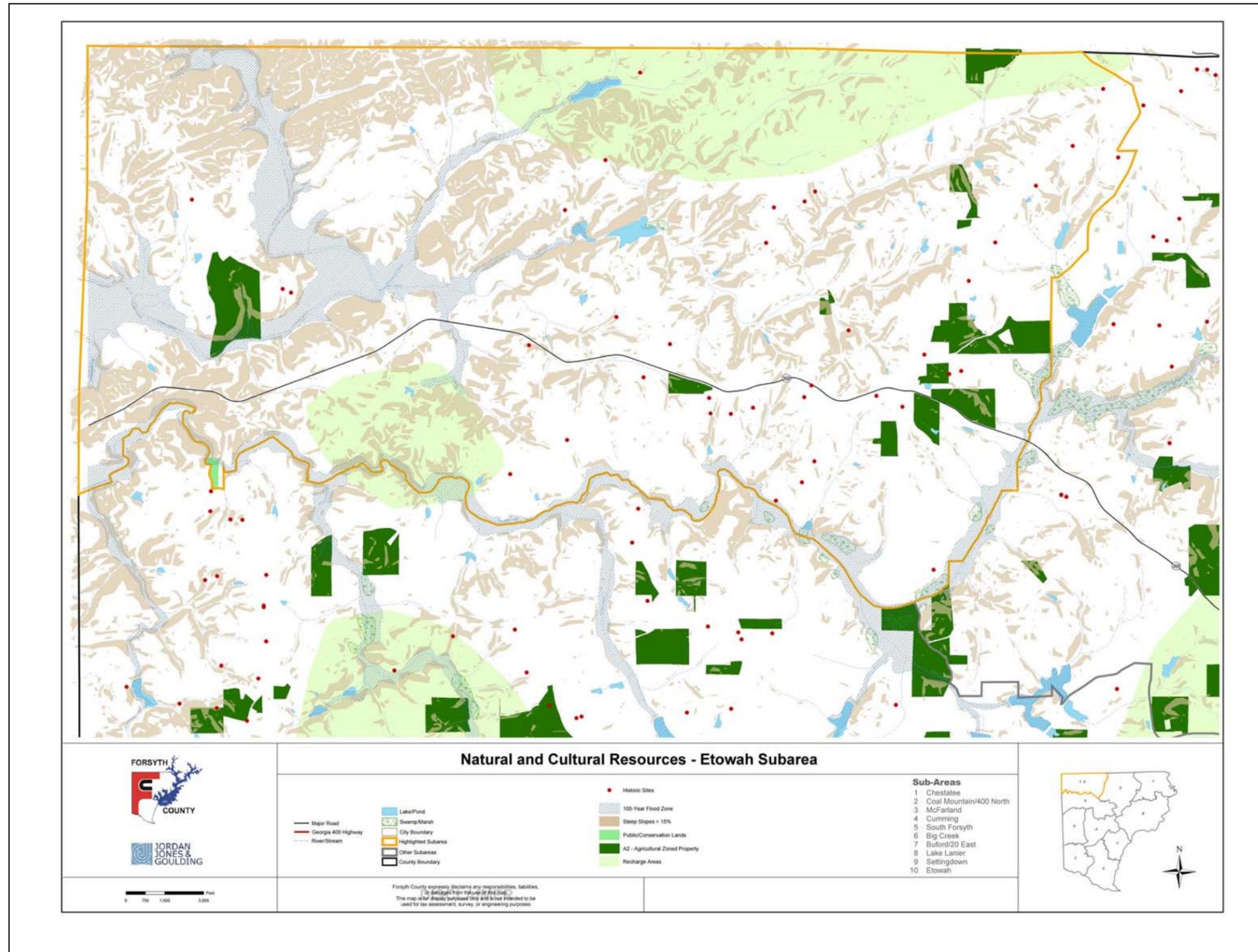
There are no public lands in the Etowah subarea, due to both the lack of population in the area and perhaps, the presence of scenic open lands. In light of the fact that there is little population to help drive the need for recreation spaces, it may be more important to preserve open spaces and scenic views to provide for passive recreational opportunities and scenic beauty. The Etowah Subarea Plan Support Document from 2001 outlines several areas of scenic beauty in this subarea.

“Matt Highway within the subarea is designated as a scenic corridor according to the comprehensive plan. Another potential scenic route worthy of protection is Spot Road-McCoy Road-John Burrus Road, although portions of this route are outside the Etowah subarea.”

“There are several views of Sawnee Mountain to the south from vantage points in the Etowah subarea, especially along Dr. Bramblett Road just south of its intersection with Matt Highway. There are also views of the distant mountain horizon at certain vantage points along Matt Highway and Whitmire Road going westbound. Along Mocking Bird Road, there are significant views of scenic resources looking north and south. There are some spectacular views of the distant mountain range and the Etowah River valley from the River Hill subdivision located north of the high ridgeline of Matt Highway, prior to its descent into Cherokee County. Furthermore, there are a number of views of the subarea’s rural and farm resources.”

The locations of the natural and cultural resources in the Etowah subarea are shown on the map included as **Figure 4**.

Figure 4  
Etowah Natural and Cultural Resources



## C) Historic Development Patterns

### 1. Demographics

In 2000, the population of the Etowah subarea totaled 4,188. This is an increase of 57.1% percent since 1990. This is considerably slower than the growth rate for Forsyth County, which was 123.2 percent during the 1990's (the second fastest county growth rate in the country). It also makes Etowah the least populated of the subareas, and the slowest growing. Coal Mountain to the east had a similar growth rate of 57.4% from 1990 to 2000, but has a population of about 6300.

Following countywide trends, the Etowah subarea is mostly white at 98 percent. The age distribution figures indicate the majority of residents in this area are 30-39 years of age with children between the ages of 5 and 17 ranking second. The largest increase in age distribution has been for the groups age 30 to 39, and 5 and under. **Figure 5** provides a comparison of the demographic statistics for the area for 1990 and 2000.

**Figure 5**  
**Etowah Subarea Demographics**  
**1990 – 2000**

	1990	2000	Percent Change
Population	2,666	4,188	57.1%
<b><i>Racial and Cultural Distribution</i></b> *			
White	2,656	4,101	54.4%
Black or African American	1	2	64.0%
Asian	1	19	1369.8%
Hispanic or Latino, regardless of race	16	105	543.8%
<b><i>Age Distribution</i></b>			
Under 5	196	380	94.3%
5 to 17	518	850	64.0%
18 to 21	165	166	0.9%
22 to 29	349	419	20.1%
30 to 39	465	929	99.8%
40 to 49	380	636	67.4%
50 to 64	358	552	54.3%
65 and over	252	256	1.5%
<b><i>Housing</i></b>			
Housing Units	1,002	1,541	53.7%
Occupied	959	1,463	52.5%
Vacancy Rate	43	78	80.7%
Owner Occupied	813	1,327	63.3%
Renter Occupied	146	136	-7.2%
* Note: The racial and cultural distribution numbers total to a sum larger than the total population. Hispanic is a cultural descriptor and is not exclusive of race.			

The number of housing units in the Etowah subarea increased moderately in comparison to other subareas during the 1990s. In 1990, there were 1,002 housing units and by 2000 the number of units increased to 1,541, a 53.7% percent increase. During the 1990s the vacancy rate actually rose, from 4.3 percent to 5.1 percent in 2000. Etowah is the only subarea in the county that had an increasing vacancy rate from 1990 to 2000. The housing units in this area are mostly owner-occupied, with 92.4 percent being owner-occupied and 7.6 percent renter occupied units. The number of owner-occupied units increased by 129 percent during the 1990s compared to a decrease of nearly 12 percent for renter-occupied housing.

## 2. Development Activity

It is estimated that since 1990 approximately 10 percent (1,500 acres) in the Etowah subarea has been developed. Almost all of this development has been for residential uses, with lots ranging from a minimum of one-half acre to more than five acres. Nearly half of the subarea is either undeveloped or used for agriculture, so the potential for future growth in the subarea is obvious. Some of these pressures have come to fruition, as the once rural landscape is now dotted with new, large lot suburban homes, interrupting a once comprehensive country-like setting. Many times, these new estates lie immediately next to older, abandoned farm houses and structures, a juxtaposition that symbolizes the trend that has taken place over the past several years in the Etowah subarea.

Despite these recent changes, development in the Etowah subarea has lagged behind that of other subareas and the county as a whole. Population increased 57.1 percent and housing units increased by 53.7 percent from 1990, compared to countywide increases of 123.2 percent in population and 116.9 percent in housing units. The subarea with the highest growth rates during the decade was in South Forsyth where population and housing units more than tripled. These growth rates in the South Forsyth subarea are more than six times the growth rates in this northwestern subarea.

## D) Future Development Trends

### 1. Future Infrastructure

One of the primary drivers of development is the provision for public infrastructure, particularly sewer and roads. The availability of sewer allows for more intensive land uses such small-lot subdivisions (less than one-half acre lots). Roads are also primary drivers of change because they provide access to desired destinations, such as jobs and shopping. Better access leads to a higher land value and a greater likelihood of more intense uses.

There are four transportation improvement planned for the Etowah subarea by 2020. By 2005, it is recommended that the portion of GA 369 up to Byers Road will be upgraded to a two-lane road with left turn lanes. The next improvements are slated to take place by 2010, as this same portion of GA 369 will be further upgraded to a four-lane road, as will the rest of the route to the west. Come 2020, Dr. Bramblett Road is expected to be expanded to a two-lane road with left turn lanes.

Currently, the entire Etowah subarea is served by water, but is not served with sewer. Although there are plans to put sewer in the area, these plans currently do not fall within a 20-year time frame.

Growth pressures in the Etowah subarea are expected to remain less significant than that of the southern portion of the county. As the Atlanta metro area, and particularly the Alpharetta and Windward areas continue to grow, there will be significant growth pressures continuing in the southern portions of the county. As the southern subareas begin to be built out, there will certainly be increased pressures on northern subareas to accommodate additional growth. This theory has already begun to play out as the southern border of the subarea along Settingdown Creek has developed far quicker than other parts of the subarea. However, the substantial amounts of steep slopes and floodplains may serve to limit this growth, as will the presence of the two landfills in the northwest corner of the subarea.

## 2. Transitional Areas

While transitional areas in the southern part of the county will be more concerned with older residential areas intensifying (in terms of density), transition areas in the Etowah subarea will continue to be focused on the conversion of forested land, and more importantly perhaps, agricultural land, into higher intensity residential and commercial uses. However, given the substantial amount of undeveloped land in the subarea, it is reasonable to assume that the majority of incoming growth can be accommodated on undeveloped parcels, without directly impacting agricultural parcels in the near future.

## 3. Current Land Use Policies

The 2015 Future Land Use map for the Etowah subarea identifies over 84 percent of the area to be developed as large-lot single-family houses, 1 percent to be developed as commercial uses, and 15 percent to be conserved as parkland and open space. Current land use policy was analyzed by examining the primary tools of land use including the Unified Development Code and the Land Use Element of the Comprehensive Plan. The JJG team also examined the current zoning and 2015 Future Land Use maps to determine any implications that might arise from those elements.

A difference exists between the way land is currently zoned in Forsyth County and the 2015 Future Land Use map. In order to achieve the future land uses that are envisioned in the Comprehensive Plan, large amounts of land would have to be re-zoned. Rezoning would have to occur not only within land use categories, but significant amounts of land would have to be rezoned into entirely different categories. **Figure 6** on the following page shows the amount of land that would have to be rezoned to provide consistency with the 2015 Future Land Use map. For example, **Figure 6** shows that 75 percent of the land is zoned for agricultural use, but over four-fifths of this land would need to be rezoned for single-family residential use to be consistent with the 2015 Future Land Use map.

**Figure 6**  
**Etowah Rezoning to Match Future the 2015 Land Use Plan**

		Future Land Use Category			
		15%	84%	1%	
		Conservation and Park *	Single Family Residential	Commercial	
Current Zoning Category	75%	Agriculture	<b>12%</b>	<b>63%</b>	<b>&lt;1%</b>
	24%	Single-Family Residential	<b>3%</b>	<b>21%</b>	<b>&lt;1%</b>
	1%	Industrial	<b>0%</b>	<b>&lt;1%</b>	<b>&lt;1%</b>
	<1%	Commercial	<b>0%</b>	<b>&lt;1%</b>	<b>&lt;1%</b>

\* Note: Conservation and park land can be associated with any zoning category.

-  Indicates that a rezoning is not required to be consistent with the future Land Use Plan
-  Indicates potentially difficult rezoning
-  Indicates rezoning that might be moderately difficult
-  Indicates potentially easy rezoning

The chart included as **Figure 6** shows the amount of land within the Etowah subarea that is intended for conversion from a current zoning category (rows), to a future land use category (columns). Individual cells of the table are currently zoned within a particular category (shown by the row) and intended for a particular future land use category (shown by the column). Percentages within each cell indicate the percentage of total land area that is categorized by a particular zoning category/future land use category combination.

The colored areas of the chart indicate land that is currently intended for a future land use that is different from the way the land is currently zoned. At the present time, approximately 21% of the Etowah subarea is intended to perform the same use as it is currently allowed by zoning (shown by the white areas). To achieve the land uses shown in the current future land use map, 79% of the land will require significant rezonings. Areas shown in red represent required “downzonings” – zoning changes that are traditionally difficult to perform because they further restrict the use of the land. This comprises approximately 4% of the subarea. Areas shown in green represent required “upzonings” – zoning changes that are traditionally easier to perform because they generally increase the allowable uses of the land. This comprises approximately 75% of the subarea.

Approximately 75% of the Etowah subarea is currently intended to be moved away from agricultural zoning, to a mixture of residential (63%), and other uses (less than 1%). Twelve percent of the land, currently zoned agricultural, is intended for conservation and/or park use (primarily flood plain). Although the current land use regulations allow single-family residences on land zoned agricultural, this represents a significant conversion of the land’s purpose.

Over the next 10 to 20 years, the Etowah area is likely to experience a rapid increase in population. Employment opportunities are likely to take the form of retail and service oriented businesses catering to the needs of future homeowners. The eventual form and density that this future development will take is strongly dependent on the provision of sewer and road improvements. There are no immediate plans now to extend sewer into the area, but the investment in new roads will increase property values and lead to further market interest in single-family residential development.

Another deficiency in land use policy is the treatment of agricultural lands. Currently, 47 percent of the land area in the Etowah subarea is zoned for agricultural use, the most extensive zoning in the subarea. However, there is no future land use designation for agriculture. This is particularly notable with the existence of the A2 zoning classification that appears to foster the future use of land for agriculture. Most of the current agricultural land appears in the Future Land Use map as intended for residential use. This represents a large and significant land conversion, and a major loss of open space.

### III. Subarea Committee Recommendations

There one meeting held on June 3, 2003 to discuss the development of a land use plan for the Etowah subarea. At the meeting the inventory of existing conditions for the subarea was presented, and the participants were asked to help craft a vision for the subarea. A draft land use plan map was presented along with the draft vision and participants were asked to fill out comments cards, which were presented to the subarea committee for discussion and review. The result of this meeting was a revised land use plan map and a list of policy recommendations that the subcommittee would like to present to the Countywide Land Use Steering Committee for possible inclusion in the county's Comprehensive Plan. The results of the meeting are presented below.

#### A) Etowah Subarea Vision

- The subarea's natural and cultural resources will be protected for future generations.
- The subarea will maintain a rural character and retain some agricultural uses.
- Conventional subdivisions will be encouraged to locate south of Matt Hwy.
- Current larger undeveloped tracts will be developed as conservation subdivisions.

#### B) Policy Recommendations

- In favor of a looser plan, more flexibility in the land use categories and density.
- The County needs to prepare a Greenway Master Plan that includes connected greenways throughout the County. Existing natural features such as stream banks and groundwater recharge areas could be utilized.
- Need more land in public parks.
- Limit lifecycle housing to urbanized areas
- Require large buffers around landfills

#### C) Etowah Land Use Plan Map

The future land use plan is an extension of the goals and values of the community and a culmination of the subarea planning effort. This future land use map is intended to depict a 2025 future land use scenario. The acreages and percentages of each land use are compiled in **Figure 7** and a map showing the location of future land uses is included in **Figure 8**.

There are fourteen land use designations depicted on the future land use map, including three residential designations and six commercial/industrial/mixed-use designations. Below is brief definition of each.

**Low Density Residential** - This category is intended for single-family detached residential dwellings typically on septic sewer systems. Minimum lot size is 30,000 square feet, or the overall density is up to 1.5 units per acre. Institutional uses that are considered complimentary in this area include churches, schools, and libraries.

**Medium Density Residential** - Consists of single-family detached residential dwellings typically on sewer, with overall densities from 1.5 to 2.5 units per acre. Institutional uses that are considered complimentary in this area include churches, schools, and libraries. Private recreational uses, such as golf courses, tennis courts, walking trails and swimming pools are encouraged in these areas in developments greater than 50 lots.

**High Density Residential** - Typical uses include single-family detached and attached dwellings (such as townhouses) as well as multifamily condominiums and apartments, at densities of up to 6 units per acre. These developments should incorporate some amount of central outdoor public space for their residents. A limited number of churches, schools, libraries, other miscellaneous institutional uses and daycare facilities would be complimentary in these areas. An urban-density residential area is usually located near areas of high employment concentration, large commercial nodes, transportation nodes and mixed-use developments. It is essential that these developments include proper buffering between adjacent land uses.

**Office Transitional** - The Office Transitional category is intended to allow for the redevelopment or transition of residential uses along major roadways to office professional uses. It also allows for new office development that is constructed in a manner consistent and in keeping with the surrounding residential uses. The physical character and design of proposed new structures should be compatible with existing establishments. This category includes small single occupant structures for doctors and or accountants, as well as larger offices with multiple tenants. Businesses that are allowed in this category may provide a product directly to customers on the premises as an accessory to the service, but do not, as a primary activity, involve the manufacture, storage, or distribution of products. These areas should provide employment opportunities in close proximity to residential areas while providing a transition between the more intense commercial areas and residential neighborhoods.

**Neighborhood Commercial** - This category includes a limited range of retail and service activities to serve the everyday needs of local residents. Limitations should apply to both size and character of individual establishments. The basic character of this category is one that encourages and assures a compatible mixture of residential, office and retail types of land uses. Businesses in this land use category should be designed to encourage the development of neighborhood scale shopping that offers both goods and products, and the furnishing of selected services.

**General Commercial** - This category includes standard retail and commercial service activities such as shopping centers, general retailers, specialty shops, grocery stores, drug stores, banks, restaurants, theatres, hotels, dry cleaners and entertainment facilities. These establishments should be located on appropriate transportation corridors to easily serve the public. Visual impacts of these developments should be minimized by requiring buffers, landscaping, and architectural controls.

**Activity Center** - The Activity Center land use category includes commercial, entertainment, limited residential, and public/institutional land uses typically found in a central business district. The commercial business district (CBD) and urban village (UV) zoning classifications are considered appropriate for developments proposed within the Activity Center classification. Developments within the Activity Center classification may be encouraged to consider additional zoning classifications, based on future revisions to the Forsyth County Unified Development Code. The types of uses that are desirable in this area would be restaurants, specialty retail, governmental offices, low-intensity offices (e.g. accountant or real estate office) and appropriate parking. Uses

should be complemented with walking, biking and transit opportunities to provide alternative modes of transportation. Also, any roadway improvements that are considered for this area should carefully consider the scale of the area. Residential uses shall be considered accessory and limited to townhouses or apartments mixed into the commercial establishments. Commercial uses must be developed or present first in comparable scale before residential uses can be permitted for construction.

**Corridor Commercial** - The Corridor Commercial category is intended to focus on major transportation corridors, which presently contain a mix of agricultural, residential, commercial, and industrial land uses. Such corridors are unlikely to experience small scale, low or medium density residential development over the course of the planning period.

Developments within the corridor commercial classification will focus on land uses of varying intensity that will allow for the appropriate transition between high-intensity development abutting the transportation corridor as well as provide for a continued decrease of intensity as the development moves away from the transportation corridor. The physical character and design of proposed developments should be compatible with surrounding uses. Inter-parcel connectivity and side street access should be encouraged to minimize curb cuts and improve traffic flow.

Typical uses include standard retail and commercial service activities such as shopping centers, general retailers, specialty shops, grocery stores, drug stores, banks, restaurants, theatres, hotels, dry cleaners, entertainment facilities, multiple tenant offices, small single occupant structures, and entrances to residential subdivisions located outside the corridor commercial designation. The transitional nature of the category should be supported through the use of buffers, landscaping, and architectural controls to minimize the impacts on lower intensity land uses.

**Industrial** - The primary purpose of this category is to provide for areas where light industrial uses can be located. These light industrial uses include light manufacturing, warehousing, wholesale/distribution and assembly. More intensive industrial uses that are characterized by noise, fumes, vibration and other forms of pollution that might be viewed as objectionable by surrounding uses are acceptable only on a case-by-case basis if well screened and buffered from other uses. Limited commercial uses are also allowed in industrial areas if they compliment existing industrial uses, such as cafeterias and day cares.

**Public / Institutional** - Includes uses such as schools, colleges, hospitals, municipal community centers, churches, cemeteries, municipal buildings and post offices.

**Public Park** - This category includes land dedicated to active and passive recreation uses. These areas are publicly owned and may include sports fields, recreation areas, greenways, and similar uses.

**Private Park** - Privately owned land that is used for active and passive recreation. This may include subdivision amenities areas, golf courses and Army Corps of Engineers recreation areas.

**Conservation** - This classification includes environmentally sensitive areas that are regulated at the local and state levels. Areas included in this category are the 35 ft. buffer along all county streams, a 100 ft. buffer along the Etowah River and land that is part of the 100-year floodplain of local waterways. This land has the potential to be used as public greenways or multi-purpose paths. Land

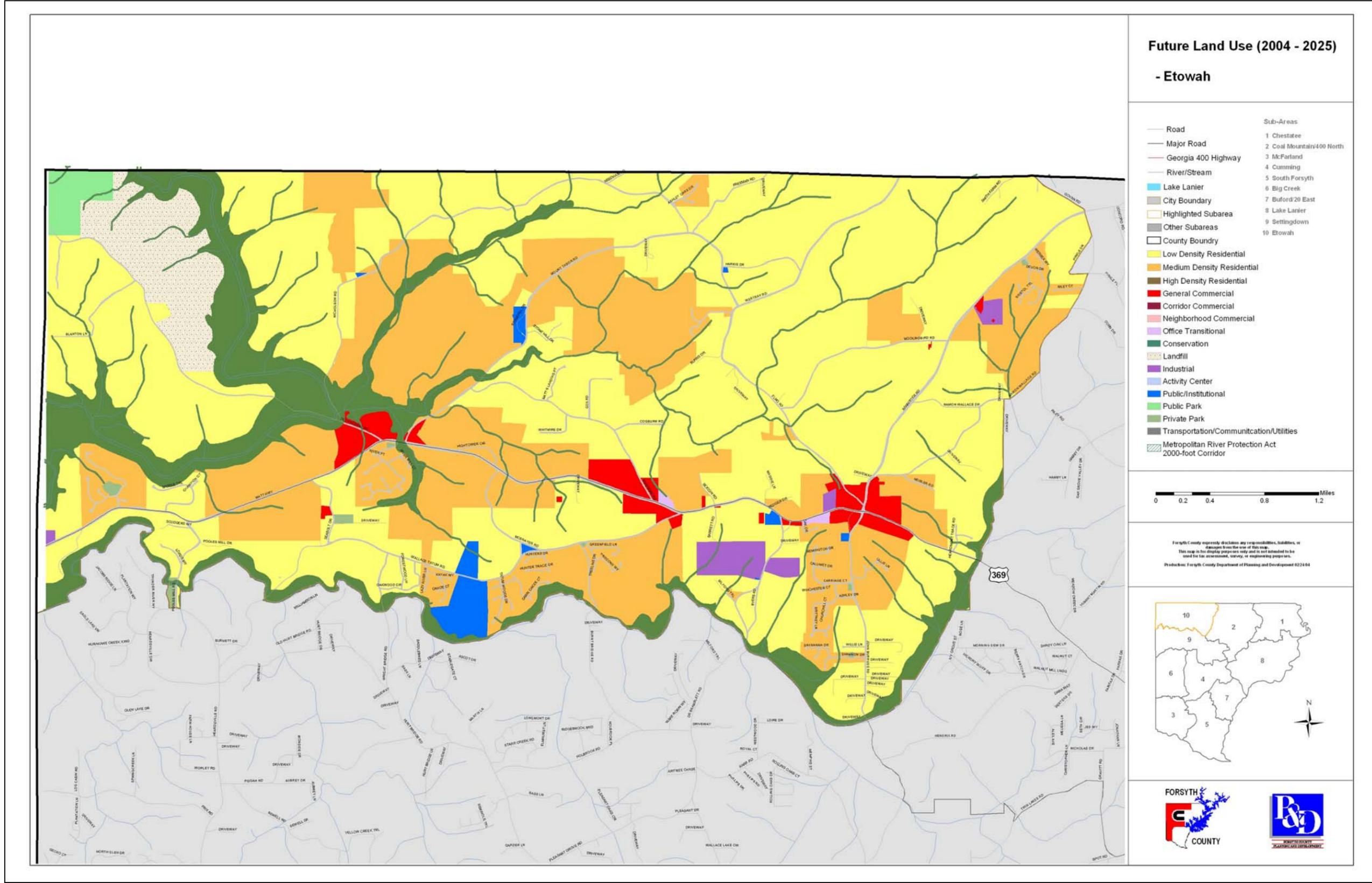
classified as Conservation alerts government officials and property owners to the presence of environmental conditions that shall be factored into the rezoning and permitting process.

**Transportation / Communication / Utilities (TCU)** - This category includes such uses as landfills, water treatment plants, wastewater treatment plants, power substations, rail yards, mass transit facilities, airports, etc. These uses may be either public or private.

**Figure 9**  
**Etowah Future Land Use, 2025**

<b>Land Use</b>	<b>Acres</b>	<b>Percent</b>
Low Density Residential	9,032	59.4%
Medium Density Residential	4,273	28.1%
Landfill (Industrial)	691	4.5%
Road Right-of Way (TCU)	483	3.2%
General Commercial	294	1.9%
Public/Institutional	159	1.0%
Industrial	133	0.9%
Public Park (PRC)	106	0.7%
Private Park (PRC)	26	0.2%
Office-Transitional	12	0.1%
High Density Residential	0	0.0%
Corridor Commercial	0	0.0%
Neighborhood Commercial	0	0.0%
Activity Center (Commercial)	0	0.0%
Transportation/Communication/Utilities	0	0.0%
<b>Etowah Total</b>	<b>15,209</b>	<b>100.0%</b>

Figure 8  
Etowah 2025 Future Land Use Plan



# Appendix

## **A. Etowah Subarea Advisory Committee**

Dennis Whittle

Joyce Neuner

John Pearson

Michael Gravitt

Roger Markle

## **B. Meeting Date**

Etowah Subarea Advisory Committee Meeting – June 3rd at 6:30 PM in the Sawnee Mountain Park Community Building