



Appendix A: County Profile (Data) Element

Appendix A. County Profile (Data) Element

The *County Profile (Data) Element* (the “County Profile”) serves as the primary reference point for basic information common to each of the Elements contained within the Comprehensive Plan. As such, it is intended to provide a convenient location for population statistics as well as key social, environmental, and economic conditions that exist within Orange County.

Although the scope of the Comprehensive Plan is intended to guide the development and growth in unincorporated areas of Orange County, many data variables are available for the County as a whole. Unless otherwise indicated, tables and charts for county-level data will pertain to both the incorporated and unincorporated areas. Population values for the extra-territorial jurisdictions will not be included within city or town totals, but rather within the unincorporated County totals.

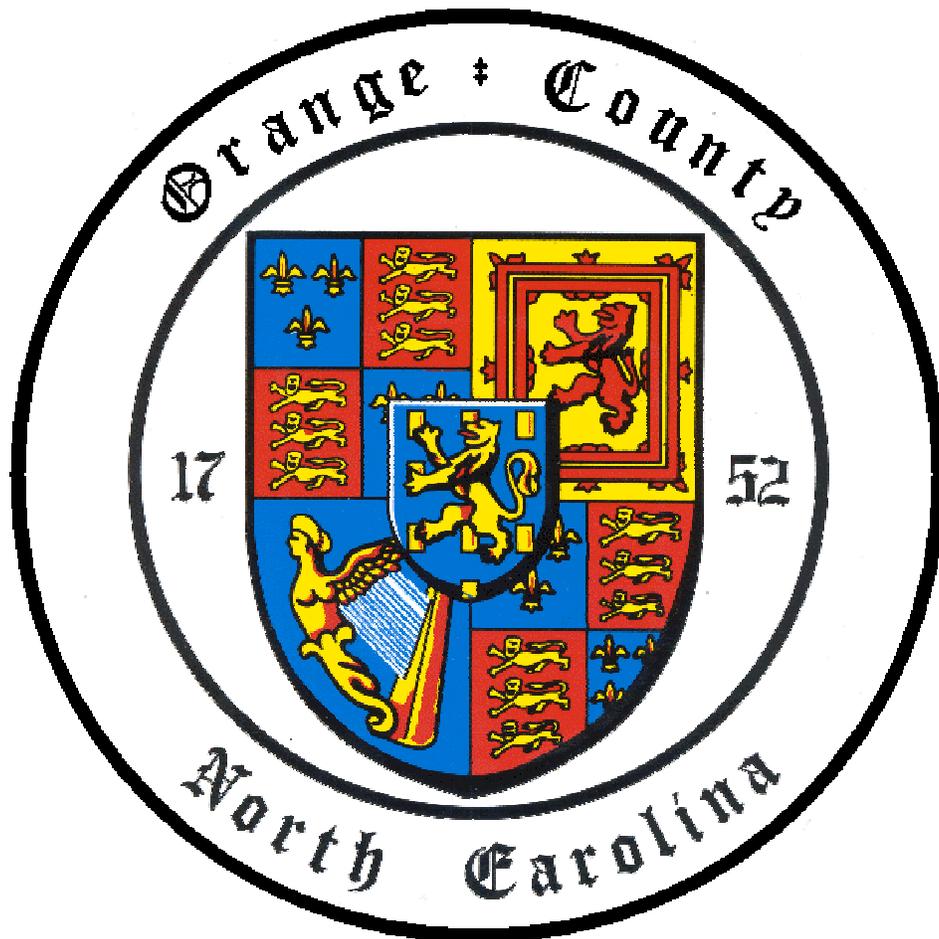
The complete *County Profile (Data) Element* is provided on the following pages.



Appendix A: County Profile (Data) Element

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ORANGE COUNTY PROFILE (DATA) ELEMENT



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Orange County Profile Element: Table of Contents

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Section A: Purpose

The County Profile (Data) Element (hereafter referred to as the County Profile) serves as the primary reference point for basic information common to each of the Elements contained within the Comprehensive Plan. As such, it is intended to provide a convenient location for population statistics as well as key social, environmental, and economic conditions that exist within Orange County. Although the scope of the Comprehensive Plan is intended to guide the development and growth in unincorporated areas of Orange County, many data variables are available for the county as a whole. Unless otherwise indicated, tables and charts for county-level data will pertain to both the incorporated and unincorporated areas; further, population values for the extra-territorial jurisdictions will not be included within city or town totals but rather within the unincorporated county totals.

The County Profile Element contains three sections: Historic and Current Conditions, Population Projections and General Maps. The Historic and Current Conditions section contains the most recent data available, which in most instances is either the 2000 Census or the 2005 State certified estimates. Population projections are included in the County Profile to be used as a resource for future planning. Maps depicting locations, trends, and geographic features are incorporated to provide a visual reference for data and information contained within this and other Elements. Please note these maps are general in nature and do not have extensive explanatory notations contained within the County Profile, although they may be referenced by other Elements.

Policy-makers, community organizations, and advocates need a consistent source for information and data to guide decision-making and to provide benchmarks for assessing progress toward meeting objectives. Conditions contained within the County Profile are dynamic and therefore will need to undergo periodic updates as recommended in Chapter 1, Section 1.5.2 of the Comprehensive Plan. During these updates, data will be revised to reflect the most current information available and to account for other changing community conditions.

The County Profile has not been designed as an exhaustive resource for all demographics. The publications and agencies cited as sources at the end of each table or chart usually contain additional statistical detail and present a more comprehensive range of information than can reasonably be presented here. Users are encouraged to consult these sources for more specific information. Additional data, detailed information, and future conditions for specific topics may be contained within the seven (7) Elements of the Comprehensive Plan, prepared by departments and organizations with expertise in the respective areas.



Section A: Purpose

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Section B: Historic and Current Conditions

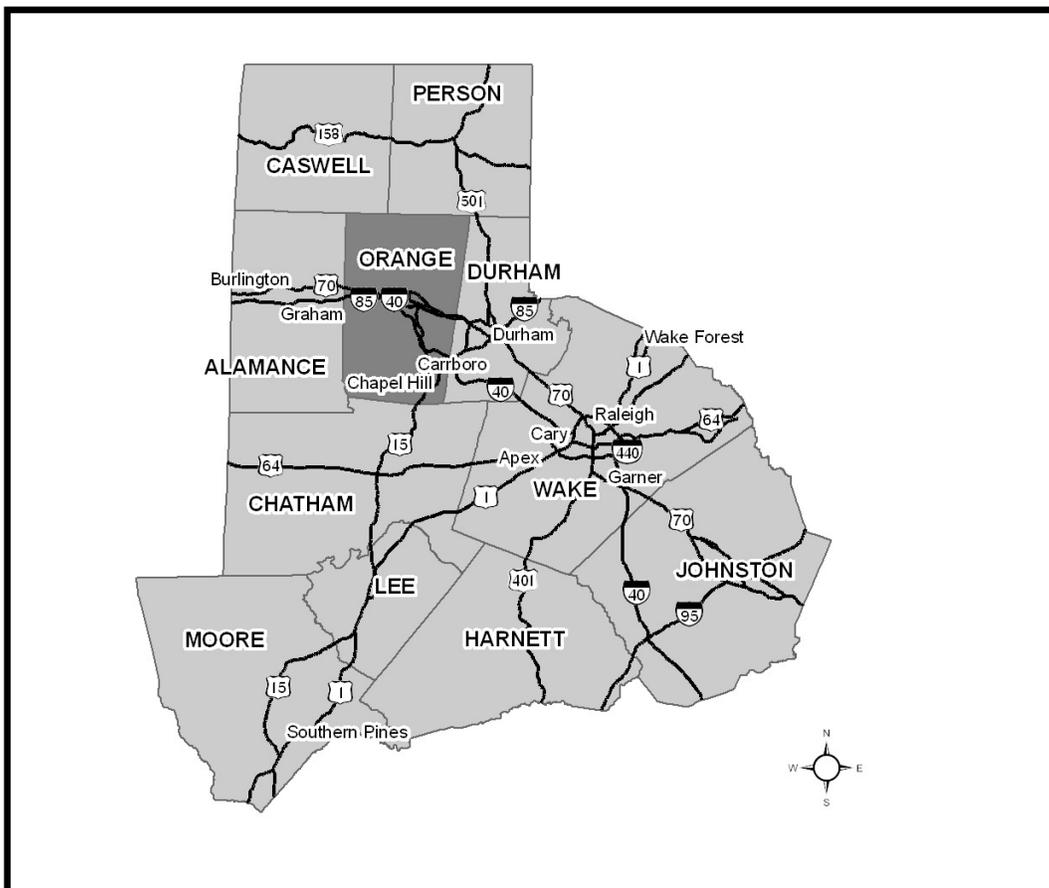
Sub-Section B1. Geographic Context

B1.1. ORANGE COUNTY LOCATION

Orange County is centrally located in the Piedmont region of North Carolina. The County offers scenic farms and small town living as well as first-rate educational opportunities and vibrant urban areas.

The County is located within the fast growing Triangle area, with a regional population of over 1.2 million. The Triangle includes the state capital, Raleigh, and twenty-three other municipalities. At the heart of this area is the Research Triangle Park, anchored by three major universities: UNC Chapel Hill, Duke University and NC State University, and home to research and development related industries that attract people from around the globe.

Map B.1.1. Orange County and Surrounding Area





Section B: Historic and Current Conditions

Interstates 85 and 40 provide the primary transit linkages for Orange County residents to surrounding Triangle communities. These interstates also connect the County to other major cities in North Carolina, including: the Triad cities of Greensboro, High Point and Winston-Salem, as well as Charlotte to the west and southwest along I-85; and Wilmington to the east along I-40.

Orange County is also linked to the surrounding regions by natural resources, such as rivers and their watersheds, which overlap county and municipal boundaries.

B1.2. ORANGE COUNTY DESCRIPTION

As an integral part of the Triangle, Orange County has experienced dramatic increases in population during the past few decades more than doubling its population from 57,707 in 1970 to an estimated population of 121,991 in 2005. With a total land area of 254,720 acres or 399 square miles, Orange County has an overall population density of 305 persons per square mile (in 2005), although population is not evenly distributed throughout the county. Density is focused in the southern section of the County with fifty-seven percent of the population residing within the towns of Chapel Hill and Carrboro.

The County is divided into the seven townships of Bingham, Cedar Grove, Chapel Hill, Cheeks, Eno, Hillsborough, and Little River. Five of the seven were once used as voting districts in the nineteenth century; however, none have legal standing today. Within its boundaries, the County also contains five incorporated municipalities/cities: Carrboro, Chapel Hill, Hillsborough, and portions of Durham and Mebane. Outside of the municipal boundaries, urban growth areas or extra-territorial jurisdictions (ETJ) have been identified. The respective municipalities exercise planning authority over these areas into which they expect to grow. Additionally, Transition Areas have been identified around towns as areas in the process of changing from rural to urban. Beyond the Transition Areas, a Rural Buffer surrounds the towns of Chapel Hill and Carrboro. The Rural Buffer contains approximately 38,000 acres and is expected to remain rural in character, with annexation by municipalities prohibited. This concept is unique to Orange County and underscores the importance of retaining the rural residential and agricultural character in the unincorporated areas of the County.



Section B: Historic and Current Conditions

B1.3. FIGURES AND TABLES

B1a) Table: Orange County Township Population Profile, 2000

Geographic Area	Land Area In Square Miles ¹	Population					Density Per square mile of land area
		Total ²	Rural	Urban	Male	Female	
Bingham	73.3	6,181	6,181	-	3,084	3,097	84.3
Cedar Grove	78.0	4,930	4,930	-	2,451	2,479	63.2
Chapel Hill	90.9	76,578	9,620	69,654	36,897	42,377	842.2
Cheeks	50.8	7,064	5,850	1,214	3,450	3,614	138.9
Eno	36.6	6,092	4,284	1,808	3,040	3,052	166.4
Hillsborough	26.3	11,639	4,205	7,434	5,613	6,026	443.2
Little River	43.8	3,047	3,047	-	1,503	1,544	69.5
Orange County	399.8	115,531	38,117	80,110	56,038	62,189	288.9

Notes and Sources:

¹ Land Area excludes Water Areas.

² Values represent the corrected numbers for the 2000 census, updated January 9, 2004.

Source: US Census Bureau (2000, corrected)

B1b) Table: Orange County Township Housing and Income Profile, 2000

Geographic Area	Housing Units		Number of Hhlds ¹	Avg Hhld ² Size	Median Household Income	Per Capita Income
	Number of Units	Density Per square mile of land area				
Bingham	2,830	38.6	2,639	2.3	\$50,506	\$28,106
Cedar Grove	2,082	26.7	1,870	2.6	\$52,088	\$22,199
Chapel Hill	31,085	359.3	28,902	2.3	\$40,852	\$25,660
Cheeks	2,930	57.6	2,742	2.6	\$39,904	\$17,665
Eno	2,609	71.3	2,449	2.5	\$49,767	\$26,568
Hillsborough	4,909	186.9	4,514	2.6	\$41,237	\$22,384
Little River	1,261	28.8	1,166	2.6	\$56,176	\$25,872
Orange County	47,706	123.3	44,282	2.6	\$42,372	\$24,873

Notes and Sources:

¹Hhld = Household(s)

² Avg Hhld Size = Population/Number of Hhlds

Source: US Census Bureau (2000, corrected)



Section B: Historic and Current Conditions

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Sub-Section B2. Population

B2.1. BACKGROUND

Population change is a fundamental factor affecting the pattern of development and the provision of services throughout the County. Population refers to the absolute number of persons, to their race/ethnicity, age groups, and physical distribution across the county. Changes in the county's age distribution may be the most influential demographic change facing the County. Orange County's median age has historically been younger, reflecting the influence of Chapel Hill's college population. Recent trends, however, have shown a gradual aging of the Orange County population and the United States population as a whole.

Because population changes at a local and regional level will likely have ramifications countywide, this section contains municipal (cities and towns) and regional comparisons. Unless otherwise indicated, population tables for county-level data pertain to the entire county, including municipal areas and their extra-territorial jurisdictions (ETJ).

Historic population values were obtained primarily from the US Census Bureau. In 2003, the US Census Bureau issued an amended 2000 Census count for the Town of Chapel Hill. The Town's population was amended from 48,175 to 46,019; likewise the County's population was amended from 118,227 to 115,531. Most data tables reflect the amended values and are so noted.

State-certified population estimates for the municipalities and counties for 2005 were provided by the NC Office of Budget, Planning, and Management, Demographics Section. It is important to note that the 2005 population estimates from the NC Office of Budget, Planning and Management (OBPM) are provided as the most recent estimates available for municipalities. However, use caution when making any comparisons between US Census Data (1980, 1990, and 2000) and NC OBPM estimates (2005). For Orange County, it is significant that the NC OBPM does not project populations for unincorporated areas. Rather, unincorporated populations are yielded from the resulting balance after municipal and countywide population estimates are made. The Orange County Planning Department believes that the 2005 estimate provided for unincorporated Orange County (46,964) may be low and the data provided in Table C1c should be consulted for comparison.

Historic and current demographic conditions in this section lay a foundation for further analysis, such as population projections covered in Section C. Maps depicting Orange County population distributions by age and North Carolina population growth by county can be found in Section D.



Section B: Historic and Current Conditions

B2.2. HIGHLIGHTS

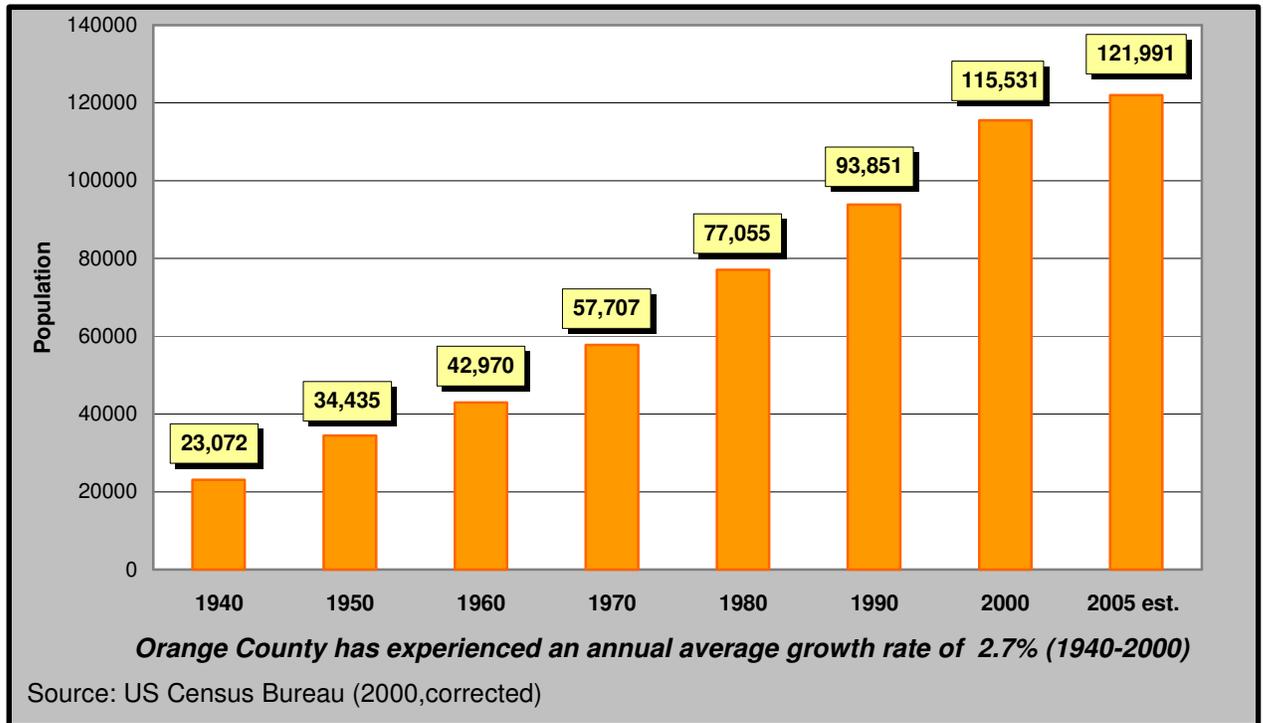
- Orange County's total population for 2005 is estimated to be 121,991. During the 30-year time period from 1970 to 2000, Orange County more than doubled its population.
- Orange County's population grew at what is considered a moderate rate of 23% during the decade of 1990-2000.
- Over 1.2 million people live in the Triangle areas including the Durham and Raleigh Metropolitan Statistical Areas.
- Population change is not distributed evenly throughout Orange County. In absolute terms, Chapel Hill Township accounted for over two-thirds of the County's growth with 82% of this growth in the urbanized areas of Chapel Hill and Carrboro.
- Little River Township has shown the largest percent increase in population (104%) since 1980, growing from 1,493 to 3,047 persons in 2000.
- Incorporated Cities and Towns account for only 8% of Orange County's land area but 62% of the population.
- The majority of Orange County's growth (75%) was attributed to the in-migration of new residents. Between 1990 and 2000, 19,000 new residents relocated to Orange County.
- The remaining 25% growth was due to natural increases, which is the number of births that exceeded the number of deaths.
- The median age for Orange County has increased from 25.7 in 1980 to 30.4 in 2000.
- In absolute terms, population growth for the 65(+) age group has doubled since 1980, from 5,783 to 10,639.
- The school age population (5-18) has grown by 8,000 since 1980.
- Orange County's population is slightly younger when compared to the State, with age spikes in the 15-19 and 20-24 age groups, due to the presence of UNC-Chapel Hill and other universities in the area.



Section B: Historic and Current Conditions

B2.3. FIGURES AND TABLES

B2a) Figure: Orange County Population Growth, 1940-2005



B2b) Table: Orange County Population by Race and Ethnicity, 2000

Place	Total Population	White	Black or African American	Asian and Pacific Islander	Native American/Indian	Other/Two or More Races	Hispanic or Latino Ethnicity
Orange County	115,531	78.0%	13.8%	4.1%	0.4%	4.1%	4.5%
Carrboro	16,782	72.7%	13.5%	5.2%	0.0%	8.7%	12.3%
Chapel Hill ¹	46,019	82.5%	12.1%	7.6%	0.0%	3.6%	3.4%
Hillsborough	5,446	60.3%	34.8%	0.6%	0.0%	4.3%	2.8%
Mebane ¹	7,284	77.4%	17.5%	0.6%	0.0%	4.5%	5.2%
North Carolina	8,049,313	72.1%	21.6%	1.4%	1.2%	4.8%	4.7%

Notes and Sources:

¹Total population for multi-county towns.

Source: U.S. Census Bureau (2000, corrected)



Section B: Historic and Current Conditions

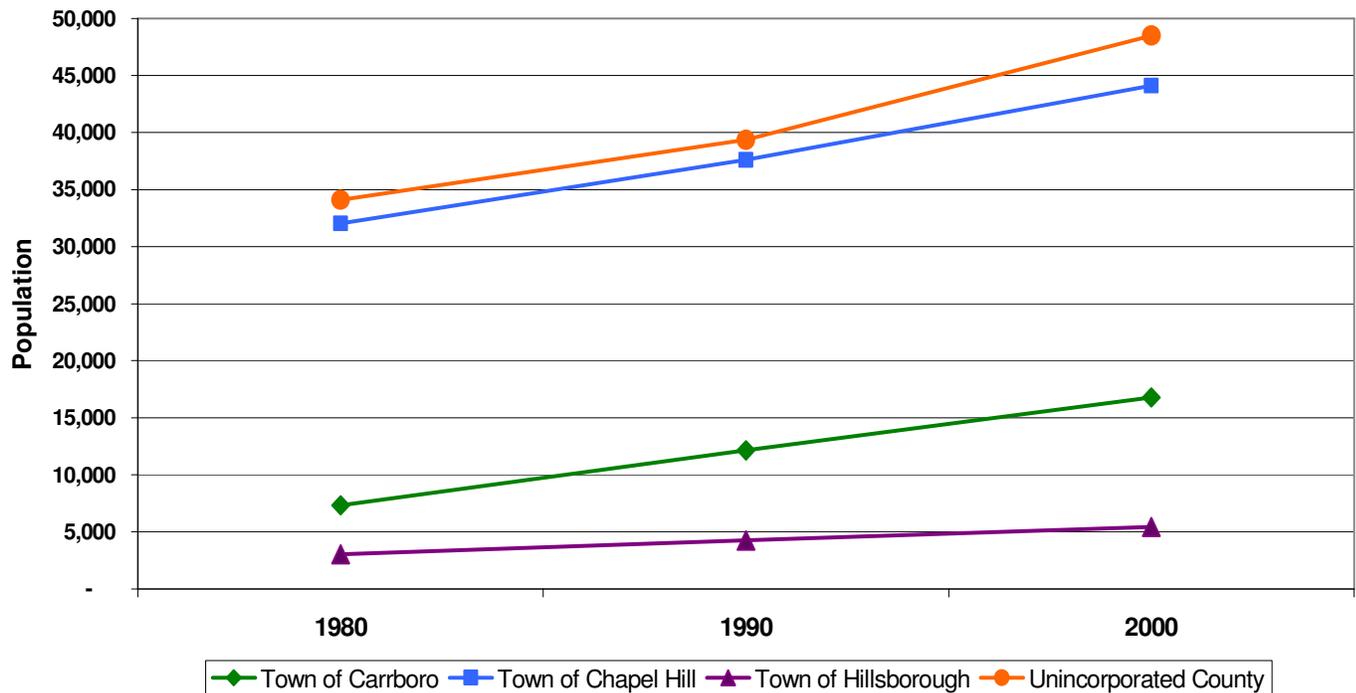
B2c) Table: Orange County Municipal and Unincorporated Population

Municipality	Population ²			% Increase 1980-2000	2005 ³
	1980	1990	2000		
Town of Carrboro	7,336	12,134	16,782	128.8%	17,797
Town of Chapel Hill ⁴	32,038	37,596	44,102	37.7%	50,262
City of Durham ⁴		17	39	n/a	47
City of Mebane ⁴	379	485	675	78.1%	759
Town of Hillsborough	3,019	4,263	5,446	80.4%	6,162
Unincorporated County ⁵	34,102	39,356	48,487	42.2%	46,964
ORANGE COUNTY	77,055	93,851	115,531	49.9%	121,991

Notes and Sources:

- ¹ Municipal refers to incorporated cities and towns.
- ² The Population figures for 1980, 1990, and 2000 are from the US Census.
- ³ 2005 Estimated population is from the NC Office of Budget, Planning and Management
- ⁴ Only the portions within Orange County are included.
- ⁵ ETJs are included in unincorporated totals.

B2d) Figure: Orange County Municipal and Unincorporated Population





Section B: Historic and Current Conditions

B2e) Table: Comparative Population Growth Trends: Townships

Township	Population Totals			Population Change					
	Year			AAGR ¹			% Increase		
	1980	1990	2000	1980-1990	1990-2000	1980-2000	1980-1990	1990-2000	1980-2000
Little River	1,493	2,183	3,047	3.9%	3.4%	3.6%	46.2%	39.6%	104.1%
Cedar Grove	3,166	3,691	4,930	1.5%	2.9%	2.2%	16.6%	33.6%	55.7%
Cheeks	4,821	5,422	7,064	1.2%	2.7%	1.9%	12.5%	30.3%	46.5%
Hillsborough	8,599	10,136	11,639	1.7%	1.4%	1.5%	17.9%	14.8%	35.4%
Eno	4,450	5,262	6,092	1.7%	1.5%	1.6%	18.2%	15.8%	36.9%
Bingham	3,954	5,184	6,181	2.7%	1.8%	2.3%	31.1%	19.2%	56.3%
Chapel Hill	50,572	61,973	76,578	2.1%	2.1%	2.1%	22.5%	23.6%	51.4%
Orange County	77,055	93,851	115,531	2.0%	2.1%	2.0%	21.8%	23.1%	49.9%

Notes and Sources:

¹ AAGR=Average Annual Growth Rate
 Source: U.S. Census Bureau (2000, corrected)

B2f) Table: Comparative Population Growth Trends: Cities/Towns

City	Population Totals				Population Change					
	Year				AAGR ²			% Increase		
	1980	1990	2000	2005 ¹	1980-1990	1990-2000	2000-2005	1980-1990	1990-2000	2000-2005
Carrboro	7,336	12,134	16,782	17,797	5.2%	3.3%	1.2%	65.4%	38.3%	6.0%
Chapel Hill ³	32,421	38,711	46,019	52,397	1.8%	1.7%	2.6%	19.4%	18.9%	13.9%
Hillsborough	3,019	4,263	5,446	6,162	3.5%	2.5%	2.5%	41.2%	27.8%	13.1%
Durham ³	101,149	136,612	187,035	209,123	3.1%	3.2%	2.3%	35.1%	36.9%	11.8%
Mebane ³	2,782	4,754	7,367	8,100	5.5%	4.5%	1.9%	70.9%	55.0%	9.9%
Burlington	37,266	39,498	44,917	47,295	0.6%	1.3%	1.0%	6.0%	13.7%	5.3%
Raleigh	150,255	212,092	276,094	338,357	3.5%	2.7%	4.2%	41.2%	30.2%	22.6%
Cary	21,763	44,397	94,536	115,967	7.4%	7.9%	4.2%	104.0%	112.9%	22.7%

Notes and Sources:

¹ 2005 estimates from NC Office of Budget, Planning and Management, Demographics Section
² AAGR=Average Annual Growth Rate
³ Includes total multi-county population.
 Source: U.S. Census Bureau (2000, corrected)



Section B: Historic and Current Conditions

B2g) Table: Comparative Population Growth Trends: Counties

County	Population Totals Year				Population Change					
	1980	1990	2000	2005 ¹	AAGR ²			% Increase		
					1980-1990	1990-2000	2000-2005	1980-1990	1990-2000	2000-2005
Orange	77,055	93,851	115,531	121,991	2.0%	2.1%	1.1%	21.8%	23.1%	5.6%
Alamance	99,319	108,213	130,794	138,578	0.9%	1.9%	1.2%	9.0%	20.9%	6.0%
Chatham	33,415	38,979	49,329	56,090	1.6%	2.4%	2.6%	16.7%	26.6%	13.7%
Durham	101,149	136,612	187,035	242,207	3.1%	3.2%	5.3%	35.1%	36.9%	29.5%
Person	29,164	30,180	35,623	37,125	0.3%	1.7%	0.8%	3.5%	18.0%	4.2%
Wake	301,429	426,301	627,846	755,053	3.5%	3.9%	3.8%	41.4%	47.3%	20.3%
North Carolina	5,874,429	6,628,637	8,049,313	8,682,066	1.2%	2.0%	1.5%	12.8%	21.4%	7.9%

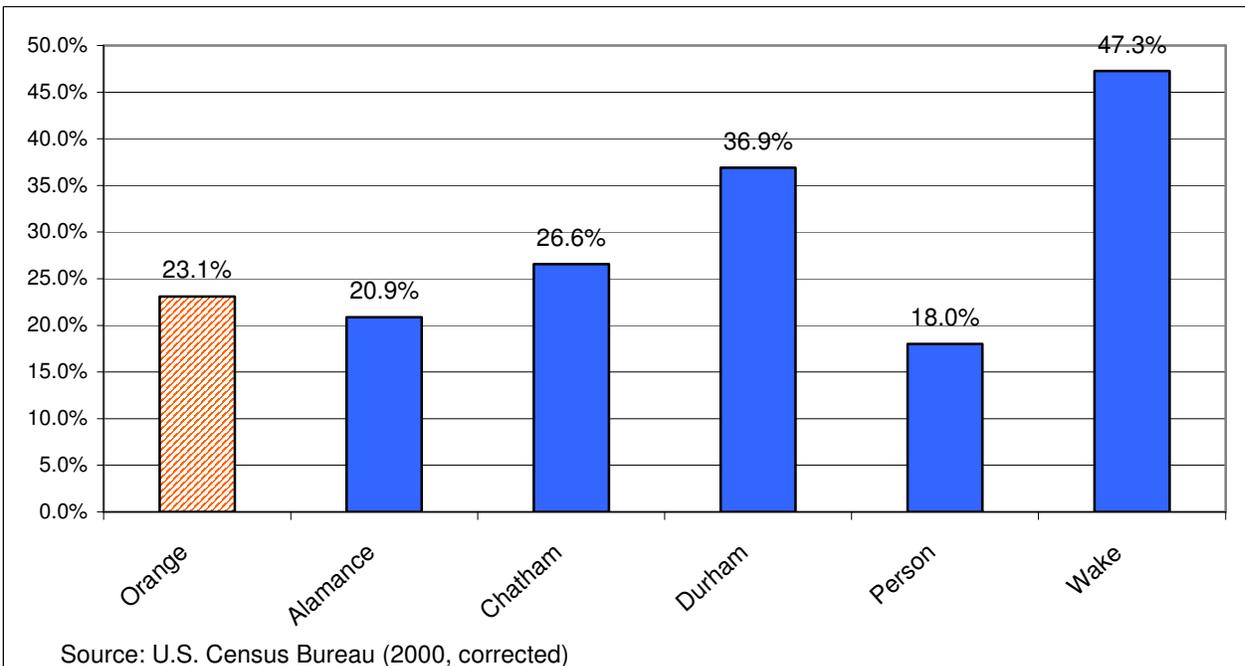
Notes and Sources:

¹ 2005 estimates from NC Office of Budget, Planning and Management, Demographics Section

² AAGR=Average Annual Growth Rate

Source: U.S. Census Bureau (2000, corrected)

B2h) Figure: Comparative Population Growth Trends, by County, 1990-2000





Section B: Historic and Current Conditions

B2i) Table: Municipal Density and Population Percents: Comparisons, by County, 2005

County	Population				Land Area		
	Pop. 2005	Municipal Density ¹	% Non-Municipal	% Municipal ²	Total Area (Sq Mile)	% Non-Municipal	% Municipal
Orange	121,991	2,360	38.5%	61.5%	399.8	92.0%	8.0%
Alamance	138,578	1,709	39.2%	60.8%	430.0	88.5%	11.5%
Chatham	56,090	945	80.9%	19.1%	682.9	98.3%	1.7%
Durham	242,210	2,019	12.6%	87.4%	290.3	63.9%	36.1%
Person	37,125	1,402	76.2%	23.8%	392.1	98.4%	1.6%
Wake	755,034	2,201	23.0%	77.0%	831.9	68.2%	31.8%
North Carolina	8,682,066	1,286	46.9%	53.1%	48,711	92.6%	7.4%

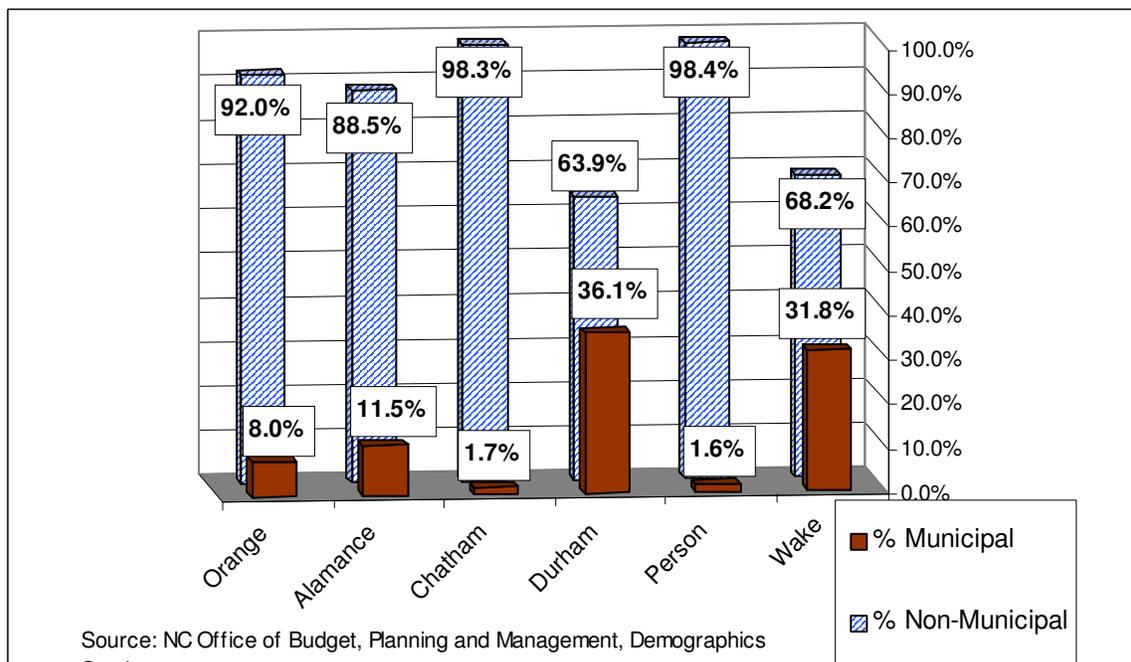
Notes and Sources:

¹ Municipal Density=Persons per Square Mile in Municipal Areas Only

² "Municipal" refers to the population living in active municipalities (cities) and excluding ETJ areas.

Source: NC Office of Budget, Planning and Management, Demographics Section

B2j) Figure: Municipal Density Percentages, by County 2005





Section B: Historic and Current Conditions

B2k) Table: Metropolitan Statistical Area 5 Year Growth Comparisons

MeSA ¹	County	2005 Pop	2000-2005		Natural Increase ³	Net Migration ⁴	% Net Migration	2005 Persons Per Sq Mile Estimates ⁵
			Growth ²	% Growth				
Charlotte-Gastonia-Concord		1,327,650	161,854	13.9	58,293	103,561	8.9	
	Anson	25,766	491	1.9	218	273	1.1	48
	Cabarrus	150,434	19,371	14.8	5,520	13,851	10.6	413
	Gaston	193,886	3,570	1.9	3,297	273	0.1	544
	Mecklenburg	796,232	100,862	14.5	41,458	59,404	8.5	1,513
	Union	161,332	37,560	30.3	7,800	29,760	24.0	253
Durham		457,416	33,613	7.9	16,220	17,393	4.1	
	Chatham	56,090	6,761	13.7	1,057	5,704	11.6	82
	Durham	242,210	18,896	8.5	11,507	7,389	3.3	834
	Orange	121,991	6,454	5.6	3,272	3,182	2.8	305
	Person	37,125	1,502	4.2	384	1,118	3.1	95
Greensboro-High Point		670,528	27,081	4.2	16,658	10,423	1.6	
	Guilford	441,428	20,380	4.8	12,631	7,749	1.8	680
	Randolph	137,283	6,812	5.2	3,571	3,241	2.5	174
	Rockingham	91,817	-111	-0.1	456	-567	-0.6	162
Raleigh-Cary		955,452	158,426	19.9	47,795	110,631	13.9	
	Franklin	54,106	6,846	14.5	1,216	5,630	11.9	110
	Johnston	146,312	24,412	20.0	6,135	18,277	15.0	185
	Wake	755,034	127,168	20.3	40,444	86,724	13.8	908
					0			
Total MeSA		6,008,294	525,436	9.6	209,690	315,746	5.8	
NORTH CAROLINA		8,682,066	635,253	7.9	246,258	388,995	4.8	178

Notes and Sources:

¹ MeSA = Metropolitan Statistical Area

² Growth = (Natural Increase + Net Migration)

³ Migration- Persons moving into Orange County from another county or state.

⁴ Natural Increase = (Births - Deaths)

⁵ Persons per Sq Mile = (Population/Land Area)

Source: NC State Demographics



Section B: Historic and Current Conditions

B2l) Table: Orange County Population by Age

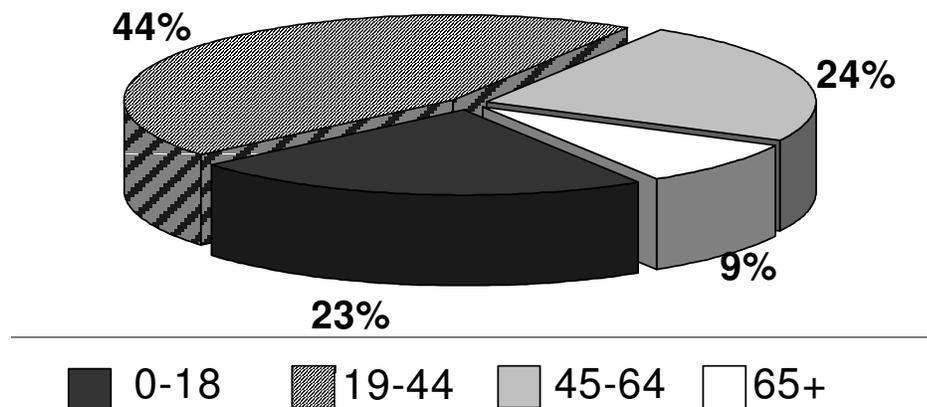
Age	1980	1980 % of the Pop.	1990	1990 % of the Pop.	2000	2000 % of the Pop.	2005 est.	2005 % of the Pop.
0-4	3,994	5.2%	5,440	5.8%	5,854	5.1%	6,418	5.2%
5-14	8,891	11.5%	9,707	10.3%	14,200	12.3%	13,796	11.3%
15-18	5,702	7.4%	5,300	5.6%	6,641	5.7%	7,645	6.2%
0-18 Total	18,587	24.1%	20,447	21.8%	26,695	23.1%	27,859	22.7%
19-24	18,596	24.1%	18,948	20.2%	19,468	16.9%	21,435	17.5%
25-34	15,537	20.2%	18,059	19.2%	17,887	15.5%	16,420	13.4%
35-44	7,751	10.1%	14,299	15.2%	17,448	15.1%	17,187	14.0%
45-54	5,709	7.4%	8,146	8.7%	15,923	13.8%	17,476	14.3%
55-64	5,092	6.6%	5,869	6.3%	8,181	7.1%	11,458	9.4%
19-64 Total	52,685	68.4%	65,321	69.6%	78,907	68.3%	83,976	68.6%
65-74	3,553	4.6%	4,755	5.1%	5,275	4.6%	5,631	4.6%
75-84	1,752	2.3%	2,517	2.7%	3,482	3.0%	3,613	3.0%
85 +	478	0.6%	811	0.9%	1,174	1.0%	1,395	1.1%
65+ Total	5,783	7.5%	8,083	8.6%	9,931	8.6%	10,639	8.7%
Grand Total	77,055	100.0%	93,851	100.0%	115,533	100.0%	122,474	100.0%

Notes and Sources:

Population totals for age cohorts may differ from County totals elsewhere due to rounding.

Source: NC Office of Budget, Planning and Management, Demographics Section

B2m) Figure: Orange County Percent Population by Age Group, 2005

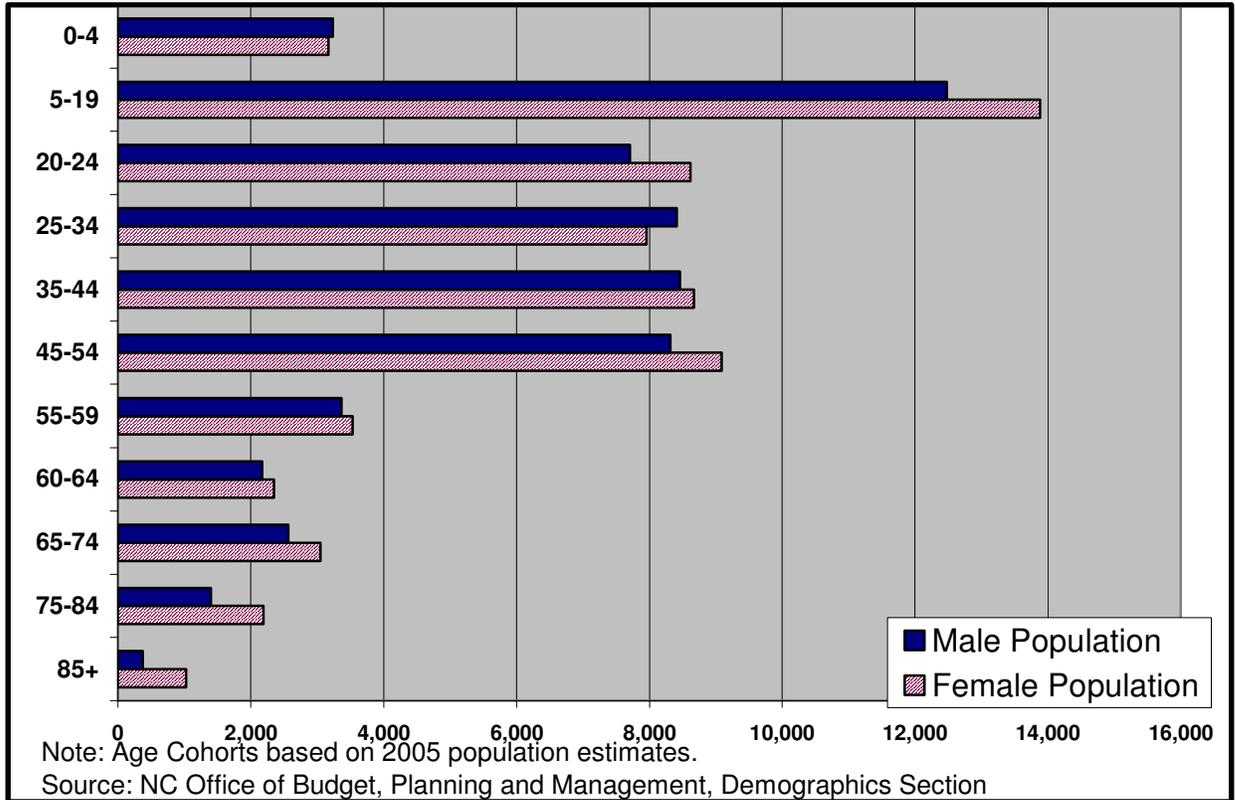


Source: NC Office of Budget, Planning and Management, Demographics Section

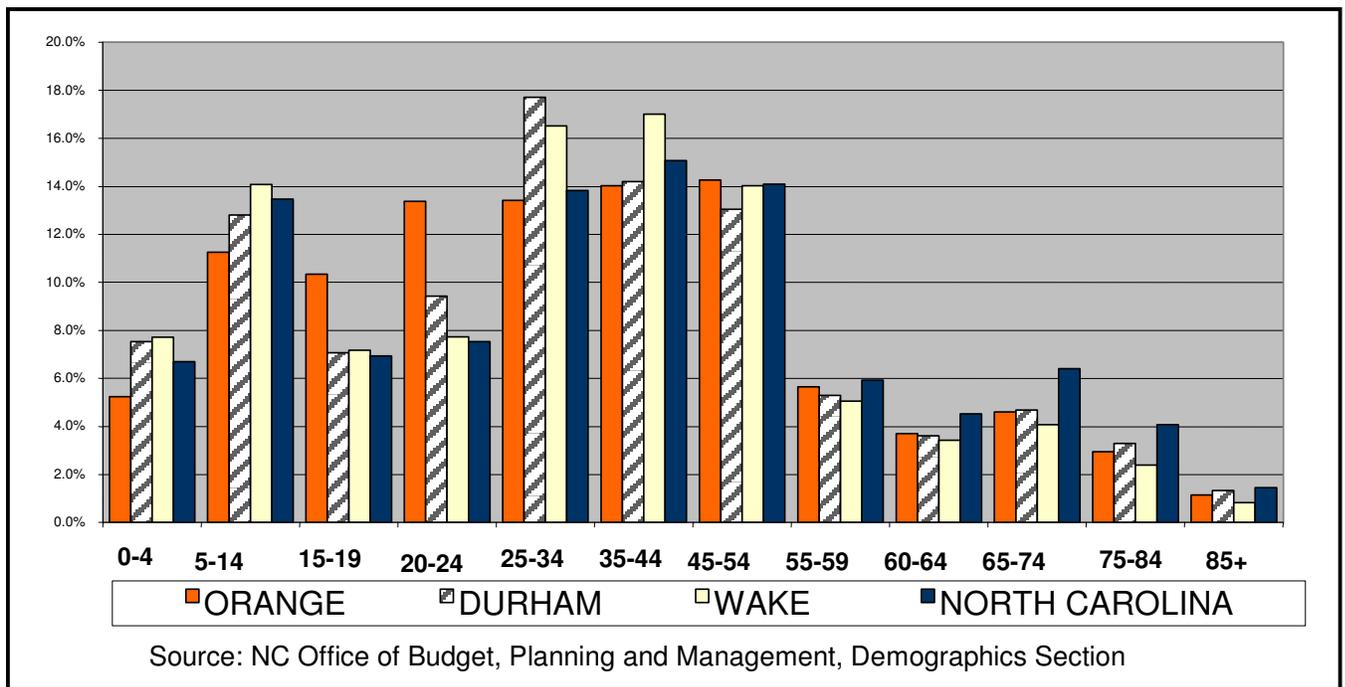


Section B: Historic and Current Conditions

B2n) Figure: Orange County Age and Gender Breakouts, 2005



B2o) Figure: Age Cohort Regional Comparisons, 2005





Sub-Section B3. Housing

B3.1. BACKGROUND

This section examines Orange County's existing housing conditions including housing sales, prices, and trends. When possible, data for the municipalities (cities) have been listed separately. However, much of the information is available only for the county as a whole. Data for Orange County that excludes the cities will be labeled as Unincorporated Orange County.

In-depth information and analysis of the housing market, and more specifically affordable housing, can be found within the Housing Element of the Comprehensive Plan. Information contained in this section has been obtained primarily from the US Census Bureau, the Orange County Department of Housing and Community Development and the Triangle MLS.

B3.2. HIGHLIGHTS

- According to the 2000 Census (corrected), there were 47,706 housing units in Orange County with an average household size of 2.6 people.
- Median house values for owner occupied housing in all of Orange County has increased by over \$160,000 (a nine-fold increase) since 1970.
- Orange County's re-sale and new housing sales prices (for homes on the real estate market) have increased 87% from 1995-2005 to an average price of \$320,489 for homes sold in 2005.
- Only 18% of homes on the market in 2005 were considered affordable for families of four making median income or less.
- Of the Triangle counties, Orange County has the highest housing sales price. The sales price gap continues to widen among these counties, with housing prices increasing nearly twice as fast in Orange as Durham and Wake counties since 1995.
- Availability of homes with sales prices in the \$120,000 and less range has dropped over 40% while the number of homes available in the \$250,000+ range has increased 32% since 2000.
- Within Orange County, housing prices vary significantly. Hillsborough homes sell on average for \$100,000 less than homes sold in the Chapel Hill/Carrboro area in 2005.
- Similarly, existing housing tax values are polarized within the county. In the unincorporated areas of Orange County, 50% of the houses are valued under \$120,000 whereas in Chapel Hill 45% of the homes are valued at \$250,000 or more.
- Renters occupy over 50% of available housing units in Chapel Hill. Likewise, the majority of large complex rental apartments are in Chapel Hill, accounting for 56.7% of all large complex apartments in Orange County for 2005.
- Based on information by the Orange County Department of Housing & Community Development, in 2005, there were a significant number of three bedroom apartment units available at all income levels except for those at the incomes less than 30% of median.
- Unincorporated Orange County only contains 1.8% of available apartment housing.
- Average rents in Orange County were \$708 in 2005.



Section B: Historic and Current Conditions

B3.3. FIGURES AND TABLES

B3a) Table: Orange County Housing Profile, 2000

Housing Attribute	Carrboro	Chapel Hill	Hillsborough	Total Orange Co.
People Per Hshld	2.2	2.2	2.5	2.6
# Housing Units	8,207	18,976	2,329	47,706
Vacant House Units	8%	6%	10%	7%
Renter Occ ¹ Units	63%	54%	36%	39%
Owner Occ ¹ Units	29%	40%	55%	54%
Mobile Homes	107	234	170	5,124
Med ² Contract Rent	\$607	\$607	\$485	\$591
Med ² Value Owner Unit	\$172,800	\$229,100	\$117,100	\$179,000
Occ Units >10yr old	68.8%	77.9%	74.1%	70.3%
Occ Units >20yr old	42.9%	58.0%	57.0%	49.2%
Occ Units >30yr old	22.4%	37.2%	41.7%	29.3%

Notes and Sources:

¹ Occ=Occupied. Indicates whether the owner lives in the unit or if it is rental property.

² Med=Median. See Appendix for further explanation.

Source: US Census Bureau (2000, corrected)

B3b) Table: Orange County Family Household Size by Township, 2000

Township	Number of Family households ¹	2-person household % of Total	3-person household % of Total	4-person household % of Total	5-person household % of Total	6-person household % of Total	7-or-more person household % of Total
Bingham	1,737	46.5%	27.6%	17.6%	6.3%	1.3%	0.6%
Cedar Grove	1,425	41.0%	26.7%	21.3%	7.9%	2.0%	1.2%
Chapel Hill	2,050	43.8%	26.1%	19.4%	7.0%	2.2%	1.5%
Cheeks	3,126	43.1%	25.9%	20.4%	6.9%	2.7%	1.1%
Eno	15,080	44.0%	24.2%	21.3%	7.3%	2.0%	1.1%
Hillsborough	1,786	44.6%	27.3%	20.1%	5.7%	1.7%	0.7%
Little River	922	45.1%	25.1%	21.6%	5.9%	1.5%	0.9%
Orange County	26,126	44.0%	25.2%	20.7%	7.0%	2.0%	1.1%

Notes and Sources:

¹ Family Households includes all of the related people who occupy a housing unit.

Source: US Census Bureau, 2000



Section B: Historic and Current Conditions

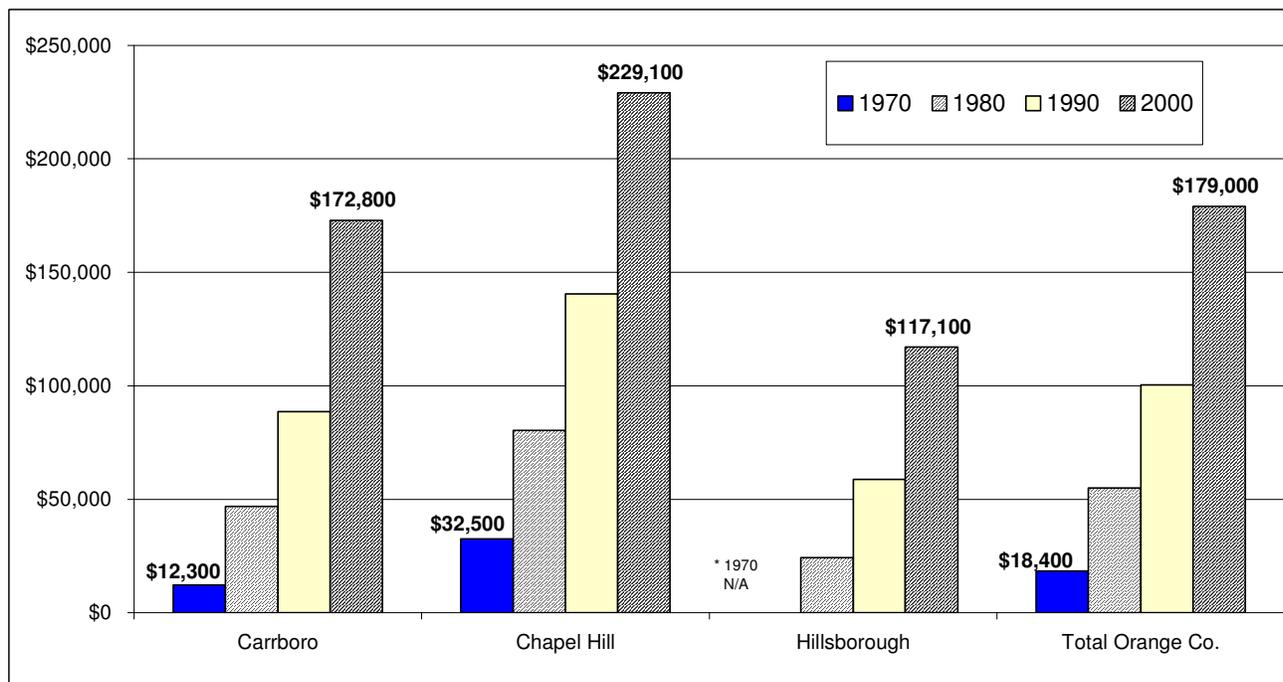
B3c) Table: Regional Housing Profile, County Comparisons, 2000

Housing Attribute	Orange County ³	Alamance County	Chatham County	Durham County	Person County	Wake County	North Carolina
# Housing Units	47,706	55,463	21,358	95,452	15,504	258,953	3,523,944
Vacant Units	7%	7%	8%	7%	9%	7%	11%
Renter Occ ¹ Units	39%	28%	21%	43%	23%	32%	27%
Owner Occ ¹ Units	54%	65%	71%	51%	68%	62%	62%
Mobile Homes	5,124	8,493	4,306	1,547	3,644	14,210	577,323
Med ² Contract Rent	\$591	\$443	\$446	\$561	\$341	\$631	\$431
Med ² Value Owner Unit	\$179,000	\$107,200	\$127,200	\$129,000	\$90,400	\$162,900	\$108,300
Occ Units >10yr old	72.6%	70.4%	63.4%	70.9%	67.6%	58.8%	65.0%
Occ Units >20yr old	50.8%	55.2%	43.9%	51.5%	51.6%	35.2%	47.7%
Occ Units >30yr old	30.3%	40.9%	28.9%	34.3%	37.1%	20.4%	31.5%

Notes and Sources:

- ¹ Occ=Occupied. Indicates whether the owner lives in the unit or if it is rental property.
 - ² Med=Median. See Appendix for further explanation.
 - ³ Corrected totals for Orange County. Figures include municipalities + unincorporated areas.
- Source: US Census Bureau, 2000

B3d) Figure: Median House Value (Owner Occupied) Trends, 1970-2000



Notes and Sources:

LINC Report
US Census Bureau, 2000



Section B: Historic and Current Conditions

B3e) Table: Total Orange County Housing Sales Price Distribution, 2000-2005

Price Distribution ¹	2000	2001	2002	2003	2004	2005	Change 2000-2005
< \$79,000	5.2%	4.0%	3.3%	2.3%	4.6%	2.9%	-44%
\$80,000 - \$119,999	13.1%	12.4%	11.6%	10.9%	8.9%	7.5%	-43%
\$120,000 - \$159,000	15.1%	16.0%	15.3%	14.3%	12.6%	14.0%	-7%
\$160,000 - \$199,000	14.2%	13.9%	14.7%	13.1%	11.4%	11.5%	-19%
\$200,000 - \$249,999	13.7%	12.1%	12.1%	14.4%	14.8%	14.0%	2%
\$250,000+	38.6%	41.6%	43.7%	45.2%	47.8%	51.0%	32%
Avg Price	\$235,633	\$249,226	\$261,895	\$280,592	\$298,883	\$320,489	36%

Notes and Sources:

¹ For new and re-sale residences.

Data compiled by Chapel Hill Planning Department

Source: Triangle MLS

B3f) Table: Orange County and City Housing Sales Price Distribution, 2005

Price Distribution ¹	Total Orange County ²	Chapel Hill/ Carrboro	Hillsborough
< \$79,000	55	20	21
\$80,000 - \$119,999	141	100	21
\$120,000 - \$159,000	235	127	46
\$160,000 - \$199,000	218	140	54
\$200,000 - \$249,999	268	189	55
\$250,000+	967	792	108
Avg Price	\$320,489	\$349,667	\$242,533

Notes and Sources:

¹ For new and re-sale residences.

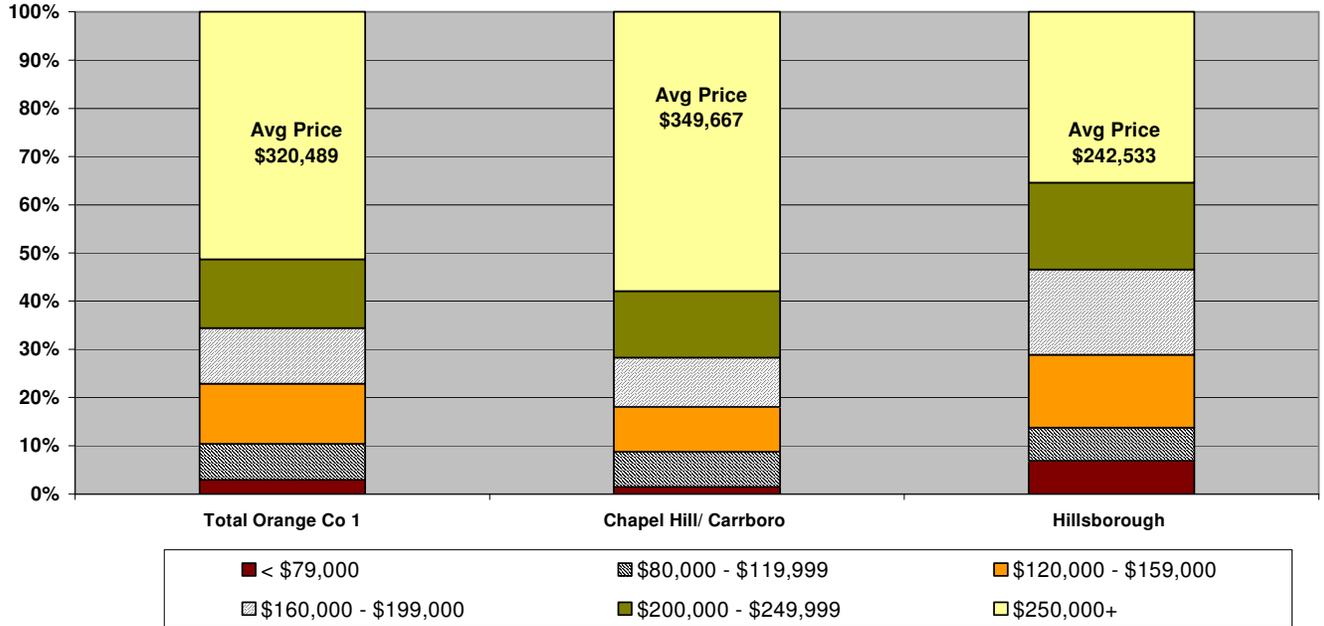
² Numbers include homes within cities and unincorporated areas.

Source: Brian Decker, Triangle MLS



Section B: Historic and Current Conditions

B3g) Figure: Orange County and City Housing Sales Price by Percent Distribution, 2005



Notes and Sources:

¹ Numbers include homes within cities and unincorporated areas.

Source: Triangle MLS

B3h) Table: Average Regional Housing Sales Price Trends, 1995-2005

Year	Orange	Durham	Wake	Total Avg. Price
1995	\$171,038	\$123,266	\$158,431	\$150,912
1996	\$192,144	\$130,749	\$162,474	\$161,789
1997	\$197,071	\$138,876	\$170,170	\$168,706
1998	\$209,208	\$143,529	\$175,039	\$175,925
1999	\$218,875	\$146,795	\$187,217	\$184,296
2000	\$235,633	\$156,568	\$199,362	\$197,188
2001	\$249,226	\$162,913	\$204,374	\$205,504
2002	\$261,895	\$163,462	\$212,567	\$212,641
2003	\$280,592	\$173,844	\$212,382	\$222,273
2004	\$298,883	\$171,071	\$221,903	\$230,619
2005	\$320,489	\$181,162	\$235,615	\$245,756
%Change				
1995-2005	87.4%	47.0%	48.7%	62.8%

Notes and Sources:

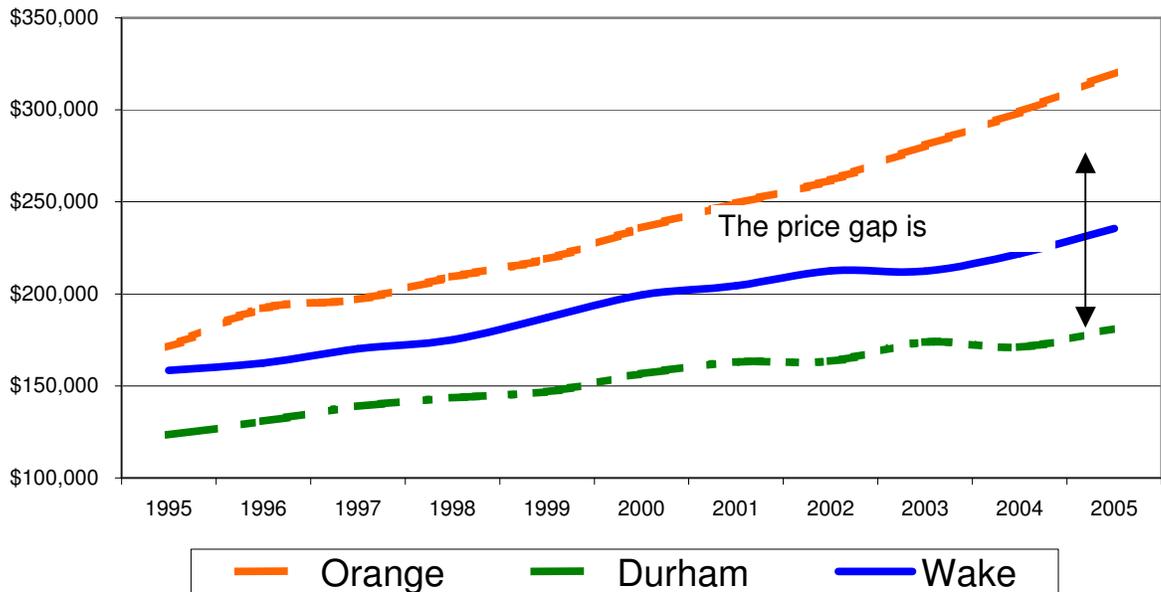
Source: Triangle MLS

Data compiled by Chapel Hill Planning Department



Section B: Historic and Current Conditions

B3i) Figure: Average Regional Housing Sales Price Trends, 1995-2005



Source: Triangle MLS

B3j) Table: Orange County House Tax Values, 2005

House Value ²	Total County	Chapel Hill ¹ /			
		Carrboro (City+ETJ)	Hillsborough (City + ETJ)	Mebane ¹ (City+ETJ)	Unincorporated
10,000-79,999	22.2%	9.9%	39.9%	35.4%	30.7%
80,000-119,999	20.0%	18.5%	20.6%	33.2%	20.8%
120,000-159,999	14.6%	14.7%	14.3%	15.1%	14.5%
160,000-199,999	10.8%	12.2%	11.3%	5.0%	9.6%
200,000-249,999	10.2%	13.5%	5.1%	4.2%	8.1%
250,000+	22.2%	31.2%	8.8%	7.1%	16.2%
Total	100%	100%	100%	100%	100%

Notes and Sources:

¹ Includes portions of Cities in Orange County only. Unincorporated is Total County minus all Cities and ETJ.

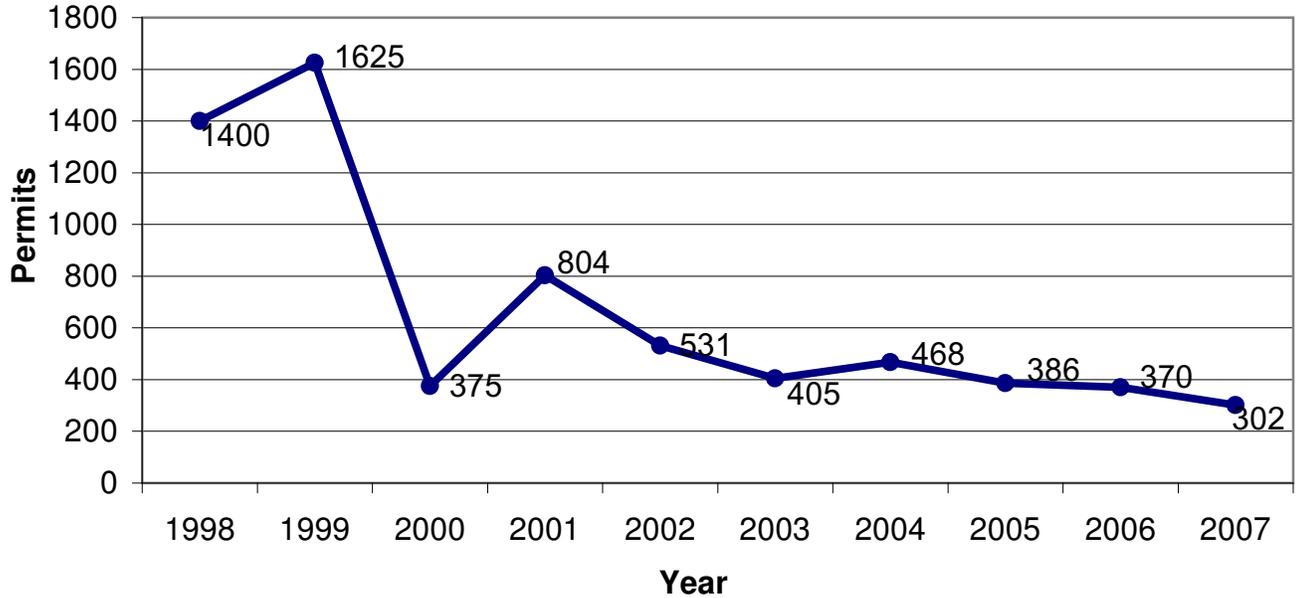
² Housing values based on current tax value.

Source: Orange County Department of Planning and Inspections, GIS Section



Section B: Historic and Current Conditions

B3k) Figure: New Residential Permits, Orange County Planning and Inspections Department Jurisdiction, FY 1998-2007



Source: Orange County Department of Planning and Inspections

B3l) Table: Orange County Permitted Residential Construction, 2005

Housing Type	Quantity	Square Feet	Value ¹
Single Family Dwellings (Detached)	313	1,175,041	\$96,988,130
Residential Townhouse (Attached)	15	37,115	\$243,862
Doublewide Mobile Home New	11	21,176	\$668,376
Doublewide Mobile Home Replacement	6	9,581	\$150,000
Singlewide Mobile Home New	9	8,764	\$165,000
Singlewide Mobile Home Replacement	29	29,652	\$310,090
Total	383	1,281,329	\$98,525,458

Notes and Sources:

¹Construction Value as reported by Permit Applicant

For areas within Orange County Inspection's jurisdiction.

Source: Orange County Department of Planning and Inspections



Section B: Historic and Current Conditions

B3m) Table: Availability of Orange County Housing by Median Income, Snapshot: August 26, 2005

	60% of Median		80% of Median Income		100% of Median Income	
	Three Person ²	Four Person	Three Person	Four Person	Three Person	Four Person
Median Incomes¹	\$ 38,520	\$ 42,672	\$ 51,360	\$ 56,896	\$ 64,200	\$ 71,120
Single Family Houses on the Market (190 Total Units Available)³						
Affordable Housing ⁴	\$124,737	\$138,182	\$199,579	\$210,036	\$249,473	\$262,546
Homes Available ⁵	2	2	9	11	21	23
Affordable as a % of the Available Housing Market	1.1%	1.1%	4.7%	5.8%	11.1%	12.1%

Notes and Sources:

¹ Median Incomes: US Census Bureau, 2000

² Denotes number of persons in household.

³ Homes available in Unincorporated Orange County on August 26th, 2005.

⁴ Housing price necessary to be affordable for the family size shown.

⁵ One newly constructed home was available that was affordable at or below 110% of median income.

Source: *Comprehensive Housing Strategy "Draft", April 2006*, Orange County Dept. of Housing and Community Devt
Market data provided by Triangle MLS

B3n) Table: Orange County¹ Apartment² Growth, Vacancy Rates and Average Rents, 1996-2005

Description	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Total Units in Market Segment	6,136	6,893	7,479	7,628	7,815	8,705	8,822	8,671	8,617	9,249
Percent Increase/Decrease	0.0%	12.3%	8.5%	-2.8%	7.5%	11.4%	1.3%	-1.7%	-6.0%	7.3%
Vacancy Rate	1.8%	4.3%	5.5%	6.4%	8.0%	8.5%	8.5%	9.7%	9.4%	9.3%
Average Rent	\$627	\$647	\$685	\$749	\$756	\$764	\$782	\$783	\$758	\$708
Percent Increase/Decrease	0.0%	3.2%	5.9%	9.3%	0.9%	1.1%	2.4%	0.1%	-3.2%	-6.6%

Notes and Sources:

¹ For all of Orange County

² Developments with over 50 units only.

Source: *Comprehensive Housing Strategy "Draft", April 2006*, Orange County Dept. of Housing and Community Devt
Data provided by Chapel Hill Sub Market Summary, Real Data Apartment Market Research



Section B: Historic and Current Conditions

B3o) Table: Orange County Apartment Unit Size Mix in Large Complex Developments, 2005

Location	Studio	One ¹	Two	Three	Four	Total	% of Apt Housing Availability
Chapel Hill	5	2061	2842	535	138	5581	56.7%
Carrboro	16	1075	2194	177	0	3462	35.2%
Hillsborough	0	151	350	128	0	629	6.4%
Orange Co (Uninc)	0	92	76	8	0	176	1.8%
Total	21	3379	5462	848	138	9848	100.0%

Notes and Sources:

¹ Denotes number of bedrooms

Source: *Comprehensive Housing Strategy "Draft"*, April 2006

Orange County Department of Housing and Community Development

B3p) Table: Orange County Availability of Three Bedroom Apartments by Median Income, July 2005

	30% of Median Income	50% of Median Income	60% of Median Income	80% of Median Income	100% of Median Income
Median Incomes ¹	\$19,260	\$32,100	\$38,520	\$51,360	\$64,200
3 Bedroom Apartment Units at Market²					
Number of Units Available (July 2005)	24	172	511	703	862
Number of Vacant Units	1	15	99	130	140
Vacancy Rate	4.2%	8.7%	19.4%	18.5%	16.2%

Notes and Sources:

¹Median Incomes for 3 Person Families

²Large complexes only.

Source: *Comprehensive Housing Strategy "Draft"*, April 2006, pg 29

Orange County Dept. of Housing and Community Development

Data provided by Real Data, Apartment Index by Average Rent, pg 545



Section B: Historic and Current Conditions

B3q) Table: Orange County Household Size by Township, 2000

Township	Number of Family households ¹	2-person household % of Total	3-person household % of Total	4-person household % of Total	5-person household % of Total	6-person household % of Total	7-or-more person household % of Total
Bingham	1,737	46.5%	27.6%	17.6%	6.3%	1.3%	0.6%
Cedar Grove	1,425	41.0%	26.7%	21.3%	7.9%	2.0%	1.2%
Chapel Hill	2,050	43.8%	26.1%	19.4%	7.0%	2.2%	1.5%
Cheeks	3,126	43.1%	25.9%	20.4%	6.9%	2.7%	1.1%
Eno	15,080	44.0%	24.2%	21.3%	7.3%	2.0%	1.1%
Hillsborough	1,786	44.6%	27.3%	20.1%	5.7%	1.7%	0.7%
Little River	922	45.1%	25.1%	21.6%	5.9%	1.5%	0.9%
Orange County	26,126	44.0%	25.2%	20.7%	7.0%	2.0%	1.1%

Notes and Sources:

¹ Family Households includes all of the related people who occupy a housing unit.

Source: US Census Bureau, 2000

B3r) Table: Orange County Families by Township, 2000

Township	Families with own Children Under 18 Years of Age					
	Population in Families (With or Without Children)	All Families With Own Children Under 18 Years of Age	In married-couple families:	In other families:	Male householder, no wife present:	Female householder, no husband present:
Bingham	4,969	1,254	1,002	252	67	185
Cedar Grove	4,288	1,098	878	220	58	162
Cheeks	6,089	1,572	1,205	367	89	278
Hillsborough	9,258	2,604	1,680	924	168	756
Chapel Hill	44,645	13,598	10,613	2,985	460	2,525
Eno	5,165	1,367	1,048	319	84	235
Little River	2,710	694	592	102	34	68
Orange County Total	77,124	22,187	17,018	5,169	960	4,209

Source: US Census Bureau, 2000



Sub-Section B4: Employment and Economy

B4.1. BACKGROUND

Orange County is fortunate to be a part of an economically vibrant region that includes the Research Triangle Park, which attracts people and businesses from around the globe. Economic conditions and employment opportunities are often the catalyst for changes in population trends, land use, and resource consumption. In Orange County, commercial and industrial activities are primarily focused within the municipalities and cities, although districts for Economic Development have been identified in the unincorporated areas. This chapter provides a brief overview of general economic conditions; further discussion of the economy will be covered in the Economic Development Element of the Comprehensive Plan.

Statistics and data cited in this section have been obtained primarily from the US Census Bureau and Orange County's Economic Development Commission. Although not included herein, socioeconomic data and projections based on the Triangle Regional Model (TRM) for Orange, Chatham, and Durham Counties are now available through the Durham-Chapel Hill-Carrboro Metropolitan Planning Organization (DCHC MPO). To obtain this data, contact the Orange County Department of Planning and Inspections or one of the above mentioned member municipalities.

B4.2. HIGHLIGHTS

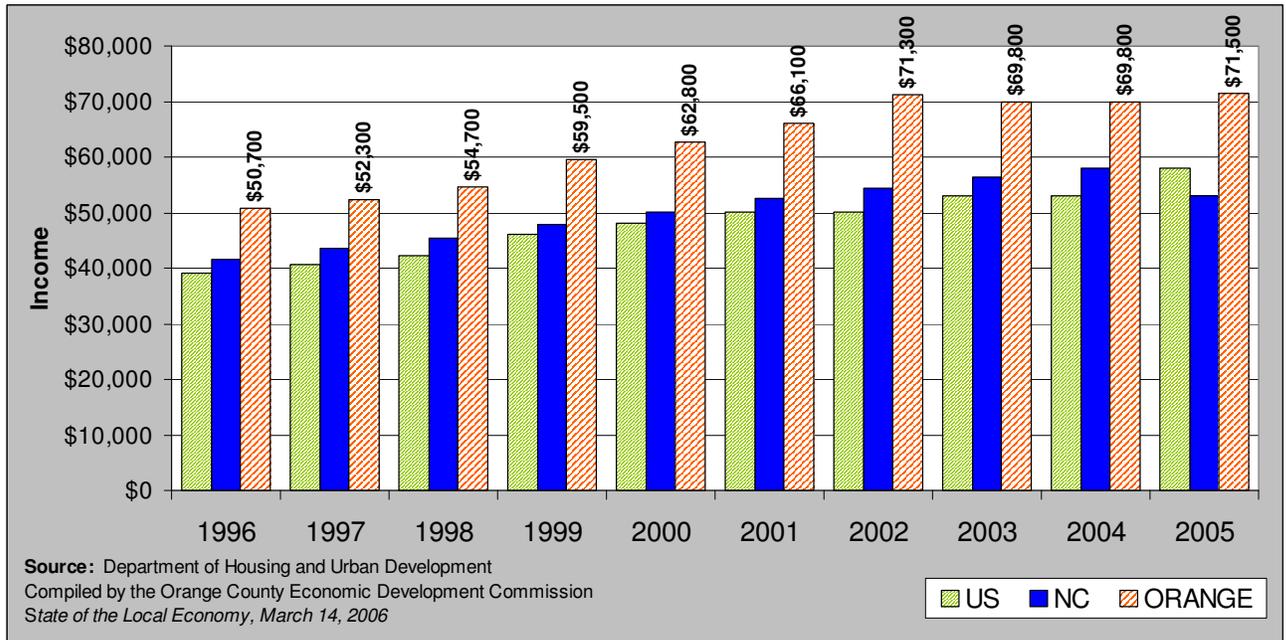
- Orange County's median family income was \$59,874 in 2000 23% higher than the US and 35% higher than the North Carolina average.
- Incomes have been rising steadily over the past 10 years.
- In the year 2000, 14.1% of Orange County residents were considered to be in poverty compared to 12.3% of North Carolina residents. This statistic includes the incomes of college students who live within the county.
- Orange County has twice the percent of college graduates as the state of North Carolina and the United States.
- Private Industry employs slightly over one-half of the Orange County population.
- Within the private sector, retail trade has the greatest number of employees, at slightly over 6,000; however, it has leveled off since the late 1990's.
- Manufacturing jobs have decreased nearly 40% since 2002, in part due to factory closings and relocations.
- Agriculture generated \$42 million dollars in income in 2005.
- The State government generates nearly half of the annual wages paid in Orange County, owing to the number of people employed by UNC-Chapel Hill, the County's largest employers.
- Weekly average wages for Orange County were \$781 as of September 2006, 12% higher than the state's average wages of \$696.
- In 2005, (55) commercial occupancy permits with a total value of over \$40 million dollars were issued by the Orange County Planning and Inspections Department for establishments located within its jurisdiction.
- Orange County has the lowest unemployment—in the Triangle Area.



Section B: Historic and Current Conditions

B4.3. HIGHLIGHTS

B4a) Figure: Median Family Income Comparisons, 1996-2005



B4b) Table: Regional Income Comparisons, 1970-2000

Location	Year	Per Capita Income	Mean Family Income	Median Family Income	Median Hshld Income	% in Poverty*
Orange County	2000	\$30,885	\$81,427	\$59,874	\$42,372	14.1
	1990	\$21,090	\$50,393	\$40,685	\$29,968	13.9
	1980	\$8,898	\$23,321	\$19,305	\$14,939	15.1
	1970	\$3,601	\$10,714	\$8,700	No data	16.8
Durham County	2000	\$30,675	\$67,013	\$53,223	\$43,337	13.4
	1990	\$20,000	\$43,892	\$38,578	\$30,526	11.9
	1980	\$9,464	\$21,719	\$19,286	\$15,395	14.1
	1970	\$3,794	\$10,064	\$8,713	No data	18
Wake County	2000	\$35,959	\$80,845	\$67,149	\$54,988	7.8
	1990	\$22,329	\$51,211	\$44,302	\$36,222	8.4
	1980	\$10,361	\$24,603	\$21,977	\$18,643	10
	1970	\$3,996	\$10,873	\$9,557	No data	15.3
North Carolina	2000	\$27,071	\$58,789	\$46,335	\$39,184	12.3
	1990	\$17,246	\$38,064	\$31,548	\$26,647	13
	1980	\$8,195	\$19,513	\$16,792	\$14,481	14.8
	1970	\$3,267	\$8,872	\$7,774	6976	20.3

Notes and Sources:

* Includes college student populations.

Source: US Census Bureau



Section B: Historic and Current Conditions

B4c) Table: Orange County Adults, Educational Attainment, 2000

Location	High School Graduates	College Graduates
Orange County (Total)	87.6%	56.9%
- Chapel Hill	94.3%	77.0%
- Carrboro	90.2%	66.1%
- Hillsborough	70.9%	31.8%
MSA ¹	85.3%	45.9%
North Carolina	78.1%	22.5%
United States	84.0%	26.0%

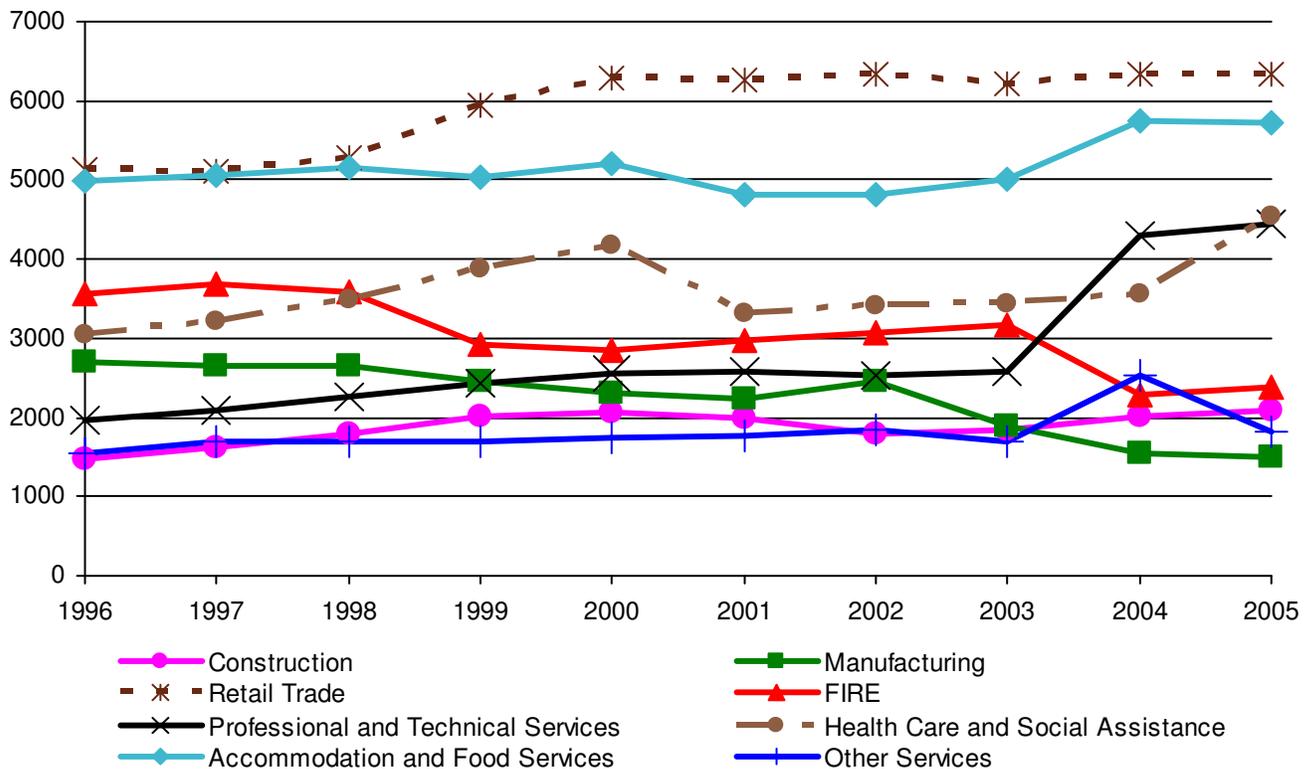
Notes and Sources:

¹ MSA=Metropolitan Statistical Area

Source: US Census Bureau, 2000

As compiled by the Orange County Economic Development Commission

B4d) Figure: Orange County Job Trends, Private Sector Employment,



Notes and Sources:

Employment Security Commission of NC,

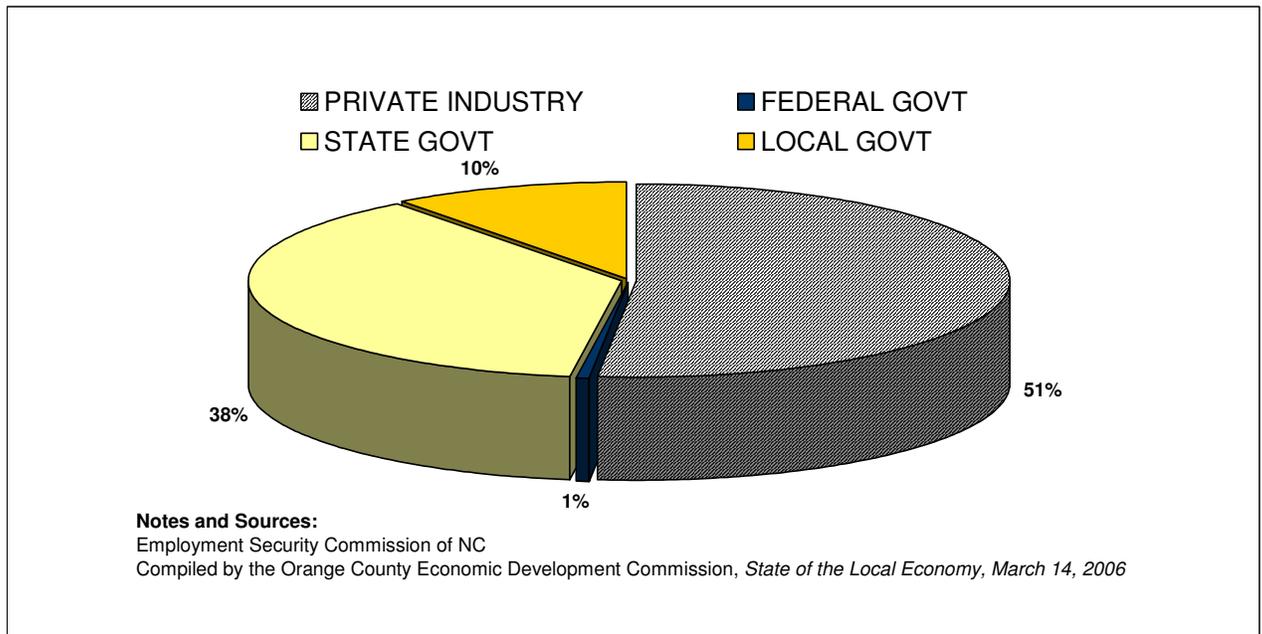
Compiled by the Orange County Economic Development Commission

State of the Local Economy, March 14, 2006



Section B: Historic and Current Conditions

B4e) Figure: Orange County Employment Sectors by Type, 2005



B4f) Table: Orange County Employment by Industry, 3rd Qtr, 2006

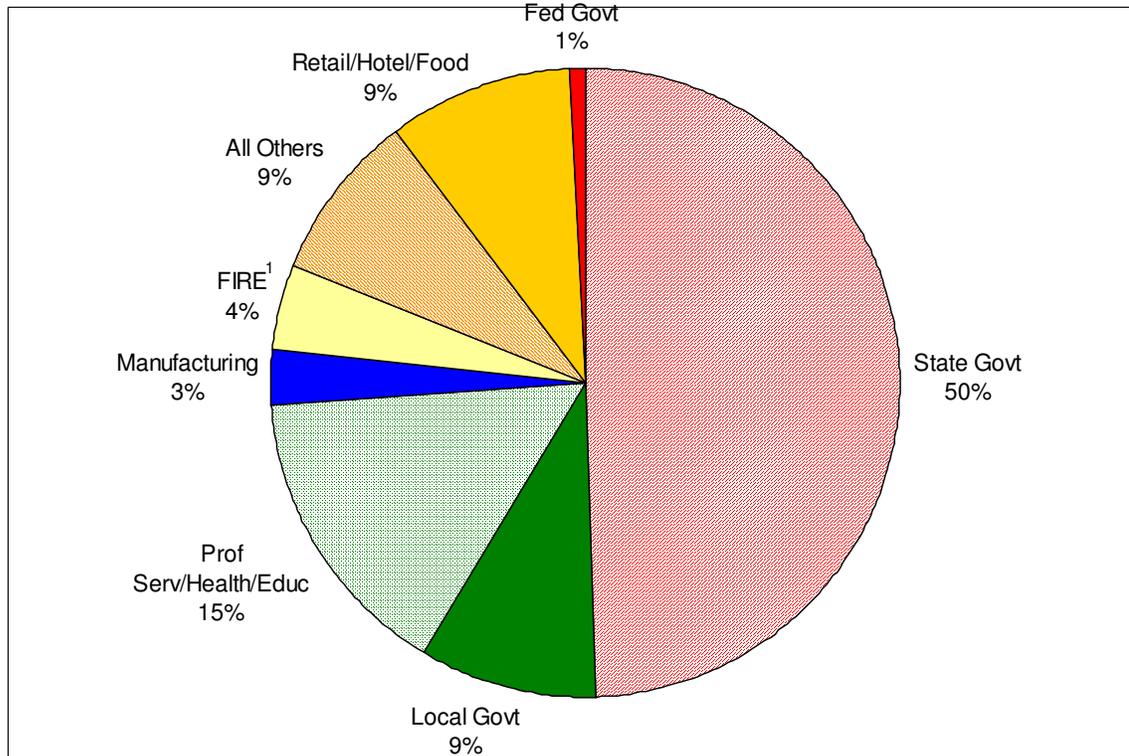
Employment Sector	Number of Business Units	Number of Employees
Total, All Industries	3,467	59,871
Education and Health Services	393	30,241
Trade, Transportation, and Utilities	558	8,062
Leisure and Hospitality	314	5,850
Professional and Business Services	740	4,921
Public Administration	39	2,558
Construction	357	2,140
Financial Activities	310	1,950
Other Services	399	1,650
Manufacturing	74	1,496
Information	63	578
Unclassified	196	239
Natural Resources and Mining	24	186

Source: NAICS Employment and Wages, Quarterly Census of Employment and Wages (QCEW) Unit, ESC/LMI Division



Section B: Historic and Current Conditions

B4g) Figure: Orange County Total Annual Wages Paid, 2nd Qtr 2005



Notes and Sources

1 FIRE = Finance, Insurance and Real Estate

Source: Employment Security Commission of NC

Compiled by the Orange County Economic Development Commission

State of the Local Economy, March 14, 2006

B4h) Table: Average Weekly Wages, State/County Comparisons, 3rd Qtr 2006

Location	Average Wkly Wage	% of NC Wages
Orange County	\$781	112.2
Alamance County	\$599	86.1
Chatham County	\$555	79.7
Durham County	\$1,039	149.3
Wake County	\$781	112.2
North Carolina	\$696	--

Notes and Sources:

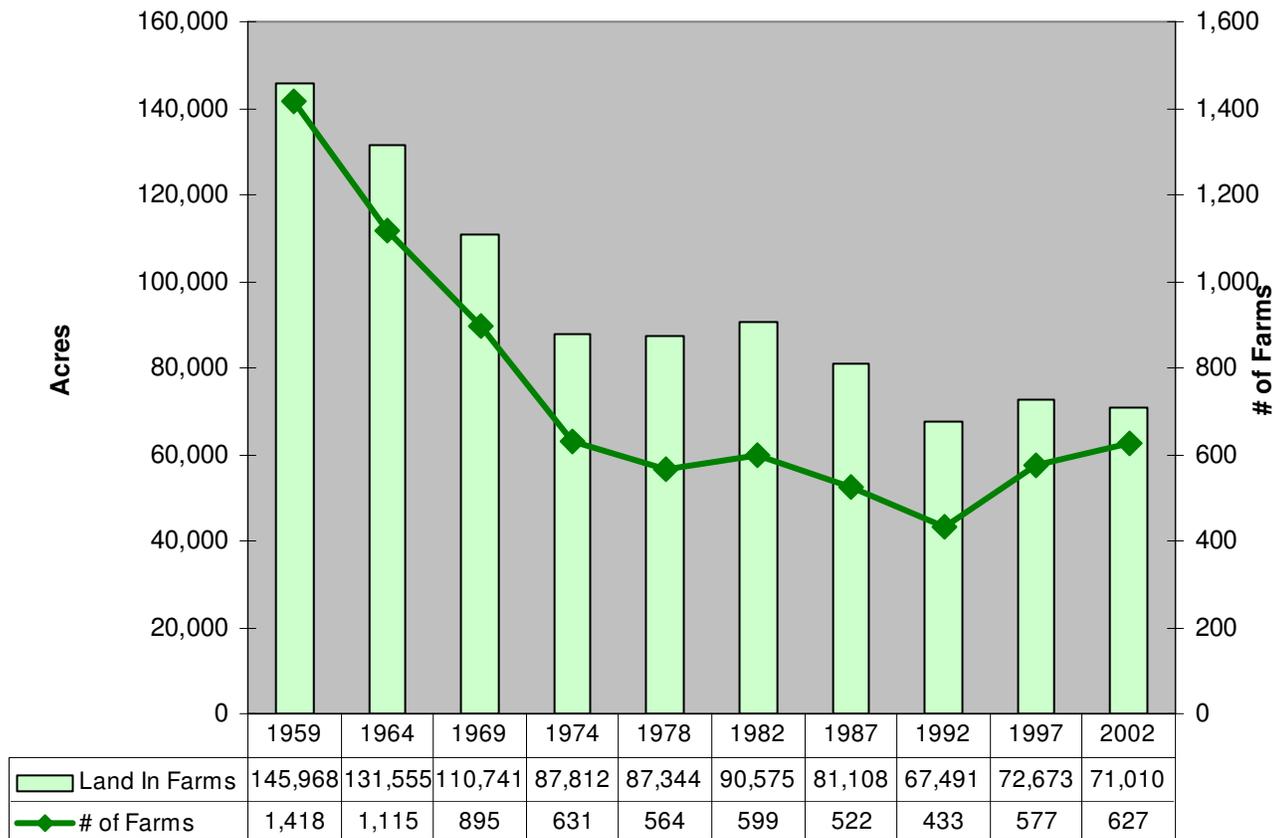
NAICS Employment and Wages, ESC/LMI Division

Quarterly Census of Employment and Wages (QCEW) Unit



Section B: Historic and Current Conditions

B4i) Figure: Orange County Agriculture Trends, 1959-2002



B4j) Table: Agriculture Census, State/County Comparisons, 2002

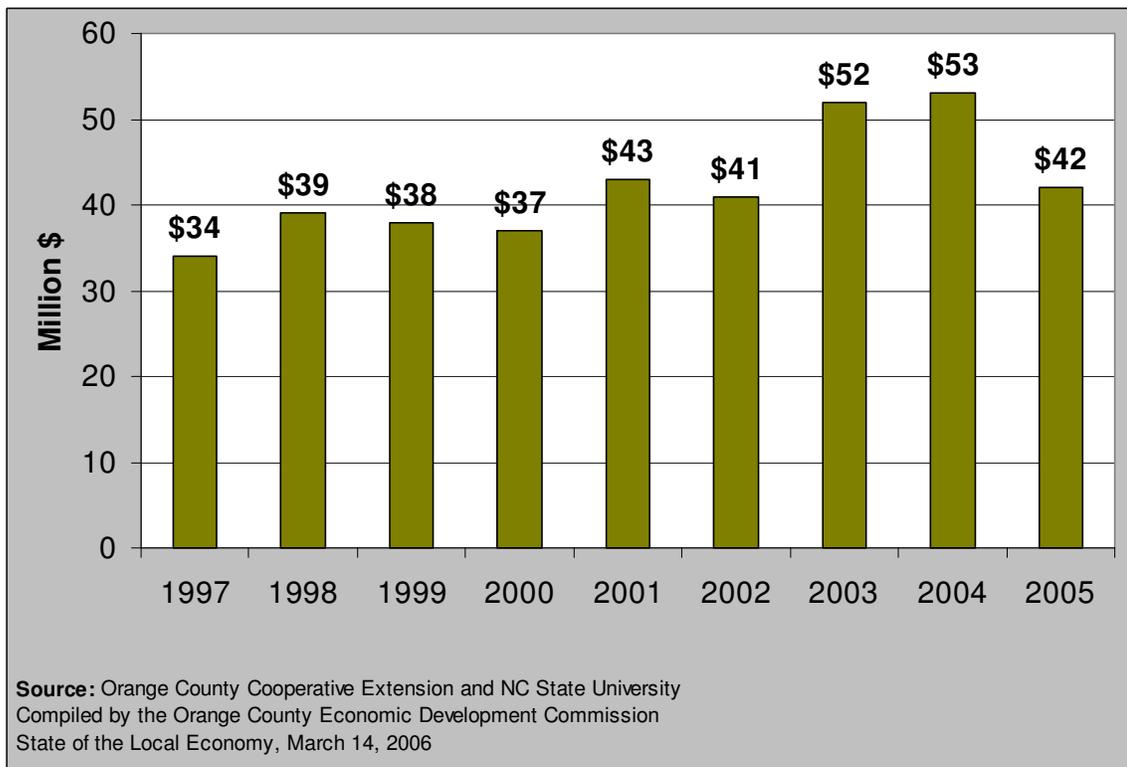
Location	Number of Farms	Total Land in Farms, Acres	Est % of County Acreage in Farms	Avg Farm Size, Acres	Harvested Cropland, Acres
Orange	627	71,010	27.8%	113	19,405
Alamance	831	97,793	35.5%	118	23,423
Chatham	1,128	118,752	27.2%	105	24,590
Durham	238	26,074	14.0%	110	4,510
Wake	846	92,803	17.4%	110	27,305
North Carolina	53,930	9,079,001	29.1%	168	4,308,209

Source: 2002 Census of Agriculture, US Department of Agriculture

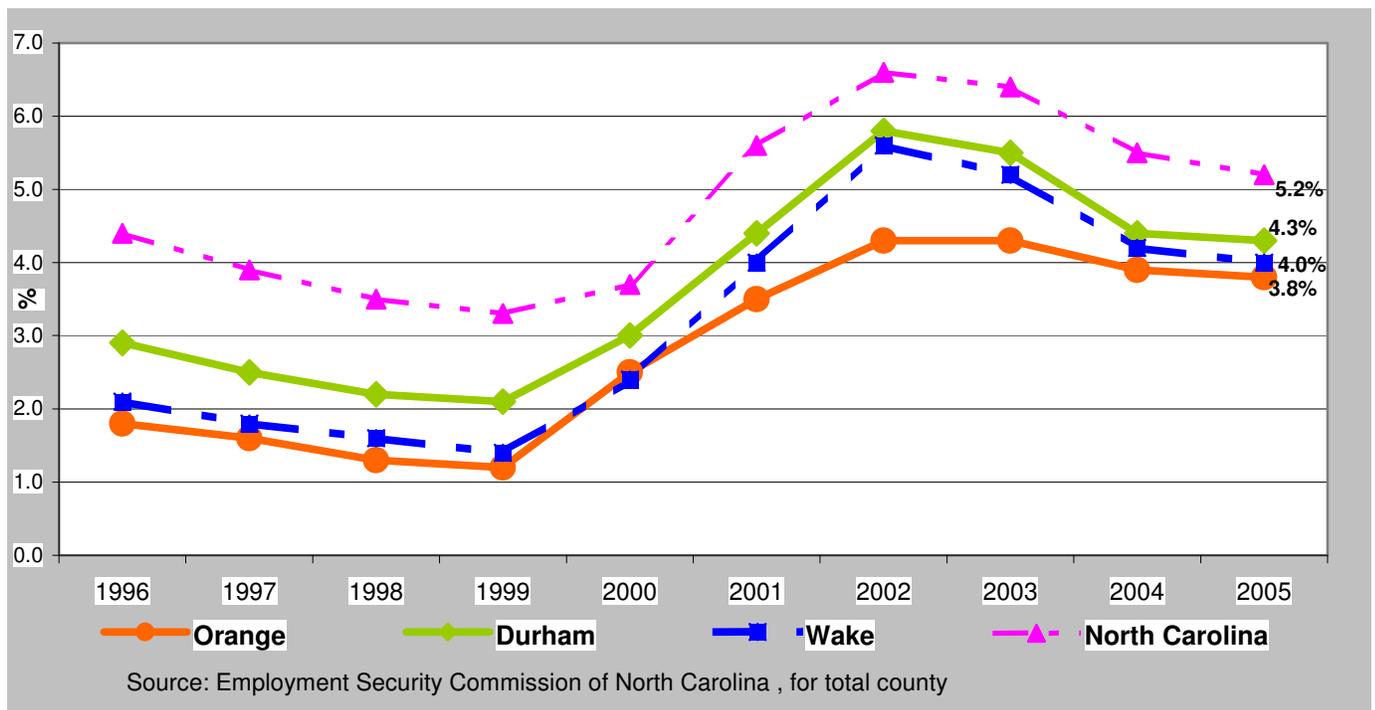


Section B: Historic and Current Conditions

B4k) Figure: Orange County Total Agriculture Income in Millions \$, 1997-2005



B4l) Figure: State/County Unemployment Rate Comparisons, 1996-2005





Section B: Historic and Current Conditions

B4m) Table: Orange County¹ New and Change Commercial Occupancy Permits by Square Feet and Value, 2005

Occupancy Type	Quantity	Square Feet	Value ²
Assembly	7	7,433	\$ 592,971
Business	27	43,202	\$ 2,000,303
Educational	3	128,425	\$ 18,702,788
Factory/Industrial	2	6,401	\$ 61,000
Mercantile	11	157,872	\$ 14,489,490
Storage	5	87,601	\$ 5,224,359
TOTAL	55	430,934	\$ 41,070,911

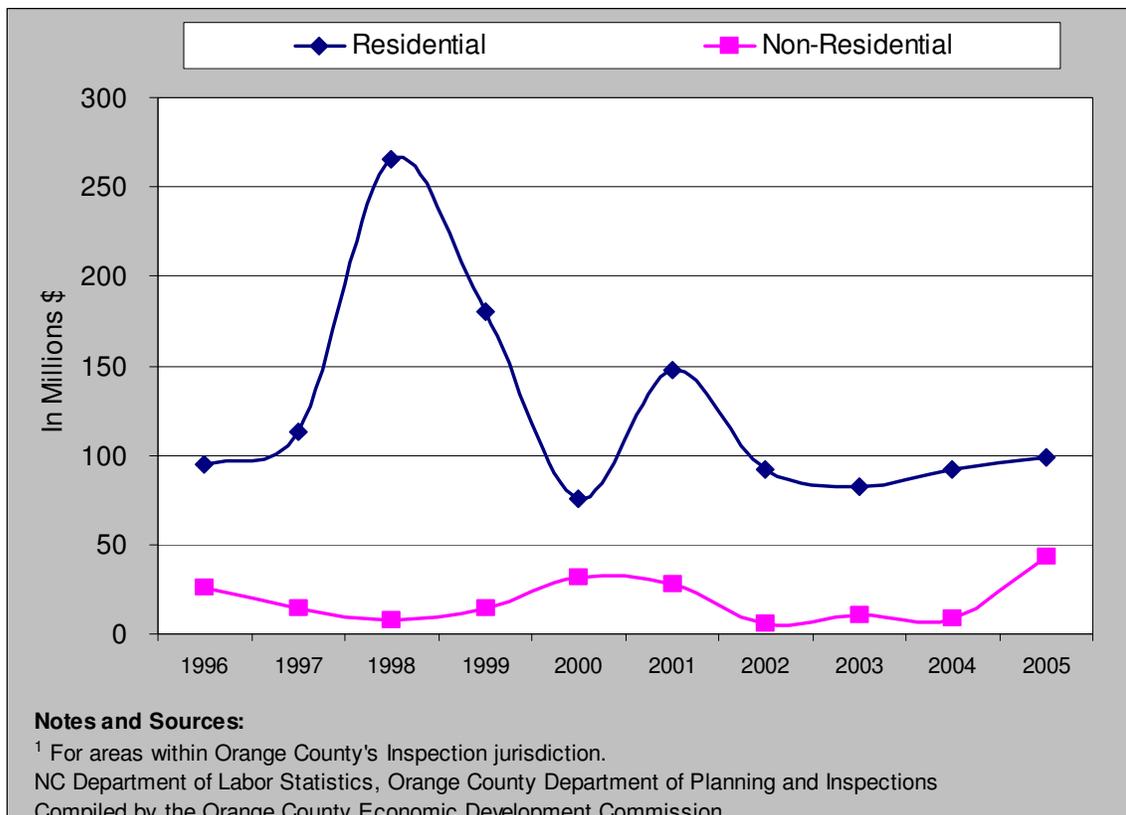
Notes and Sources:

¹ For areas within Orange County's Inspection jurisdiction.

² Construction Value as reported by Permit Applicant

Source: Orange County Department of Planning and Inspections

B4n) Figure: Orange County¹ Residential and Non-Residential Construction Permitted Building Value, FY 1996-2005





Sub-Section B5. Environment and Resources

B5.1. BACKGROUND

Good air and water quality are essential to promoting a high quality of life and a sustainable community. Because pollutants do not respect arbitrary county lines, Orange County's environmental quality is integrally linked to the larger Triangle area. Understanding the sources and impacts of pollution and protecting and maintaining a high quality environment will be key to future sustainable development.

This section contains a brief overview of environmental conditions within Orange County. More detailed analysis is located within the Natural and Cultural Systems Element of the Comprehensive Plan. Much of the information contained within this section has been abstracted from the "State of the Environment, 2004" compiled by the Orange County Commission for the Environment.

B5.2. HIGHLIGHTS

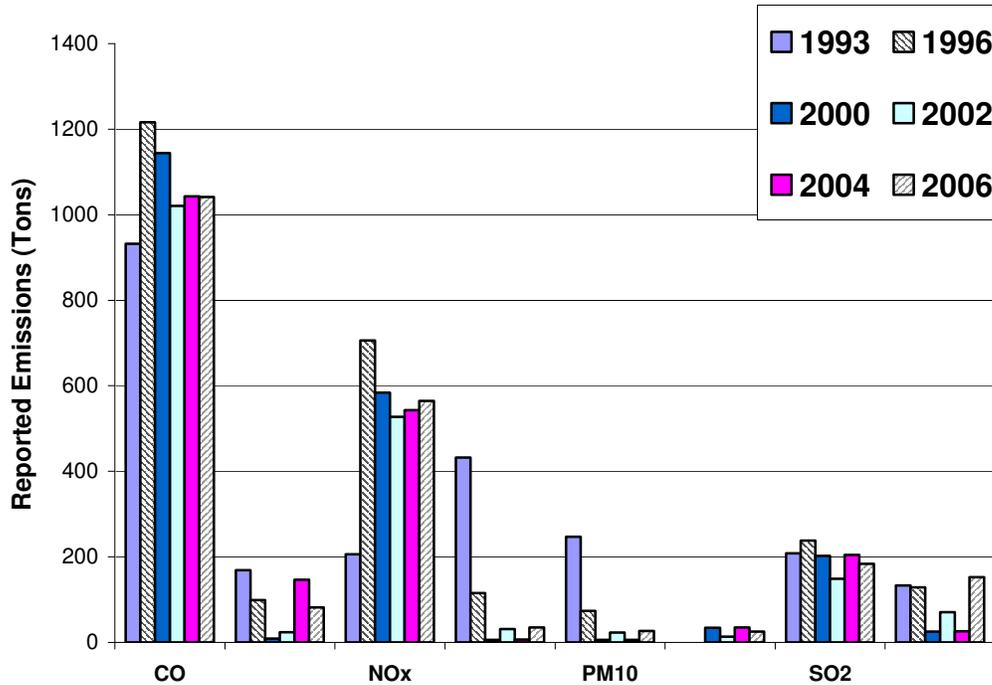
- In Orange County, point sources of air emissions are relatively small compared to other emission sources (i.e. non-point sources).
- The Triangle Area, including Orange County, was declared a 'non-attainment' area in 2004 by the US Environmental Protection Agency for violating federal ozone standards.
- The variation in year-to-year Ground Level Ozone exceedances is largely related to hot weather extremes, as seen in the fluctuations in the number of exceedances from 1995 to 2003.
- Because Orange County contains the upper reaches of three of the State's major river basins – the Neuse, the Cape Fear and Roanoke, many rivers begin here but few flow into the County.
- Overall, about one-third of Orange County residents rely on ground water resources; however, rural areas outside of public water service areas rely almost exclusively on groundwater.
- Orange Water and Sewer Authority is the largest public authority that provides water and wastewater treatment services to Orange County's residents.
- In 2005, OWASA provided services to 19,400 accounts or 75,000 people.
- OWASA's average daily wastewater flows increased 250 percent from 2.2 million gallons per day (mgd) to 7.7 mgd from 1970 – 2004. OWASA Sustainability Report: October 2005.
- During this same time period (1970-2004), major reductions in pollutant loadings took place.
- Per person water demand decreased from 121 gallons per day in FY 2004 to 108 gallons per day in FY 2005, representing a 10% decrease.
- OWASA recycled 92% of wastewater biosolids in FY 2005.
- The Orange County landfill managed 100,097 tons of waste in FY 05/06. The percent of recycled materials has increased by 11% since FY 04/05.
- Urban curbside recycling accounts for 26% of all recycling in Orange County, an increase of 13% from fiscal year 04/05.



Section B: Historic and Current Conditions

B5.3. FIGURES AND TABLES

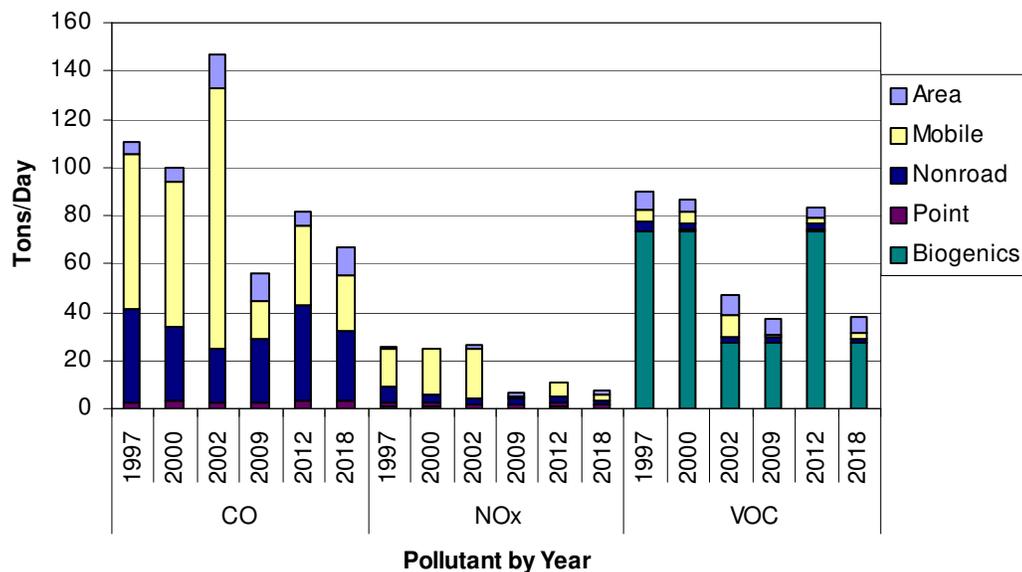
B5a) Figure: Trends in Point Source Air Pollution, 1993-2006



Notes and Sources:

Terms and abbreviations defined in Appendix B.
 NC Department for Air Quality (NCDAQ)

B5b) Figure: Estimated and Projected Emissions by Source, 2000-2018



Notes and Sources:

Terms and abbreviations defined in Appendix B.
 NC Department for Air Quality (NCDAQ)



Section B: Historic and Current Conditions

B5c) Table: Number of Ozone Exceedance Days, 1995-2003

Site	Number of Exceedance Days								
	1995	1996	1997	1998	1999	2000	2001	2002	2003
Duke Street, Durham County	2	4	3	16	0	7	3	17	3
St. Augustine's, Wake County	6	0	15	18	25	6	4	19	3
WRAL Tower, Wake County	6	5	12	19	22	3	0	11	3
Pittsboro, Chatham County	4	3	8	8	5	0	0	13	1
Cherry Grove, Caswell County	4	7	17	19	0	9	6	15	3
McLeansville, Guilford County	5	3	3	17	0	8	4	20	2
Triangle - Based on nine monitors	16	19	26	40	29	13	9	29	8

Source: US Environmental Protection Agency and the NC Department of Air Quality (NCDAQ) as compiled by the Orange County Commission for the Environment, "State of the Environment, 2004"

B5d) Average and Maximum Daily Water Demand Per Year, 1992-2003

Water Provider	1992	1997	2001	2003
<u>OWASA</u>				
Average Daily Demand (mgd) ²	7.14	8.38	10.17	8.22
Maximum Daily Demand (mgd)	12	14.34	13.75	12.81
Public Water Supply Safe Yield (mgd)	13.5	13.5	15.1	12.5 ³
<u>Hillsborough</u>				
Average Daily Demand (mgd)	1.46	1.8	1.23	1.2
Maximum Daily Demand (mgd)	2.04	2.65	1.87	1.83
Public Water Supply Safe Yield (mgd)	0.68	0.68	2.58	2.58 ⁴
<u>Orange - Alamance</u>				
(Orange County Portion)				
Average Daily Demand (mgd)	0.24	0.36	0.29	0.3
Maximum Daily Demand (mgd)	0.34	0.44	0.39	0.4
Public Water Supply Safe Yield (mgd)	0.12	0.12	0.12	0.12

Notes and Sources:

¹Supplemental water supply sources (i.e. purchases) are not factored into safe yields.

²mgd = millions gallons per day

³Decrease due to change in OWASA's modeling.

⁴Equals 1.9 for W. Fork of Eno plus .68 for Lake Ben Johnson.

Sources: Triangle J Council of Government (TJCOG) and North Carolina Division



Section B: Historic and Current Conditions

B5e) [Table: Relation of Selected Well Characteristics to Well Use](#)

Use of Well	Statistical summary ¹ of well characteristics according to use					Number of Wells
	Average yld (gal/min) ²	Average yld per foot ((gal/min)/ft) ²	Average depth (ft) ²	Average casing (ft) ²	Average Water level (ft) ²	
Domestic	16.4	0.1153	206.2	53.5	26.4	590
Public	30	0.1614	242.1	55.5	30	14
Commercial /Industrial	34.4	0.1441	258	47.9	28.2	20

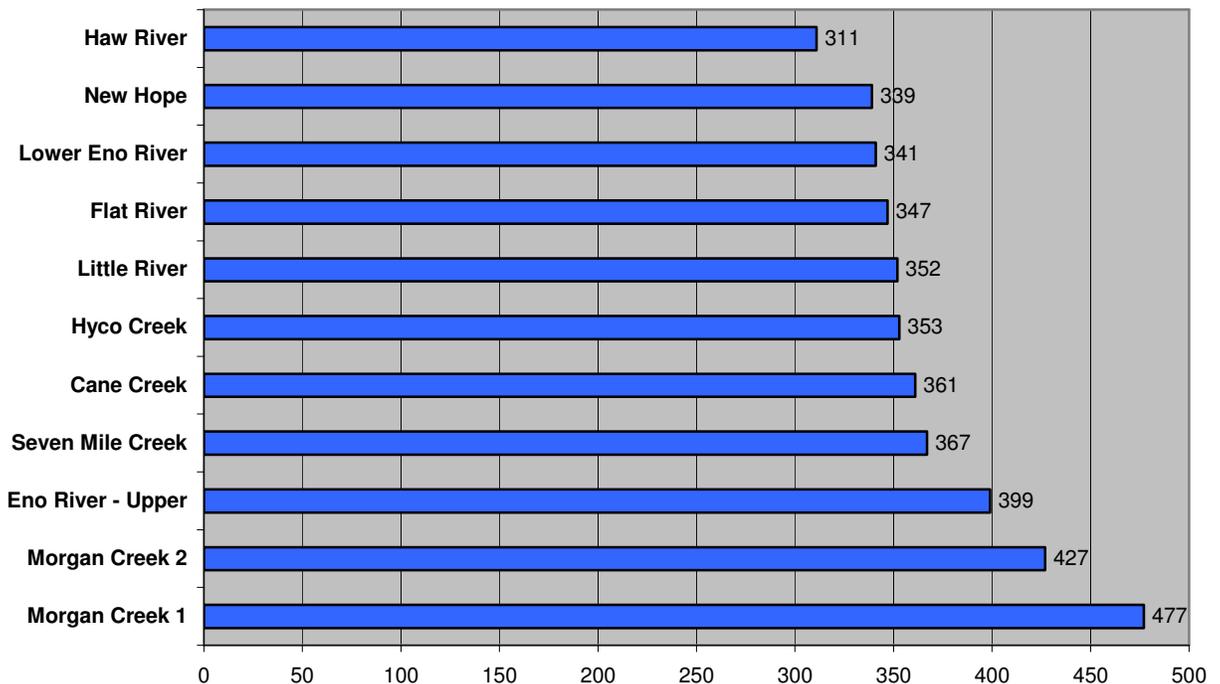
Notes and Sources:

¹Based on countywide inventory of 649 wells in Orange County.

²Abbreviations: [gal/min, gallons per minute; (gal/min)/ft, gallons per minute per foot; ft, feet]

Source: William L. Cunningham and Charles C. Daniel, III. "Investigation of Ground-Water Availability and Quality in Orange County, North Carolina." US Geological Survey (2001): 16, Table 5.

B5f) [Figure: Mean Groundwater Recharge Rate \(gallons/day/acre\), USGS Basin](#)



Notes and Sources:

¹Morgan Creek upstream of Chapel Hill.

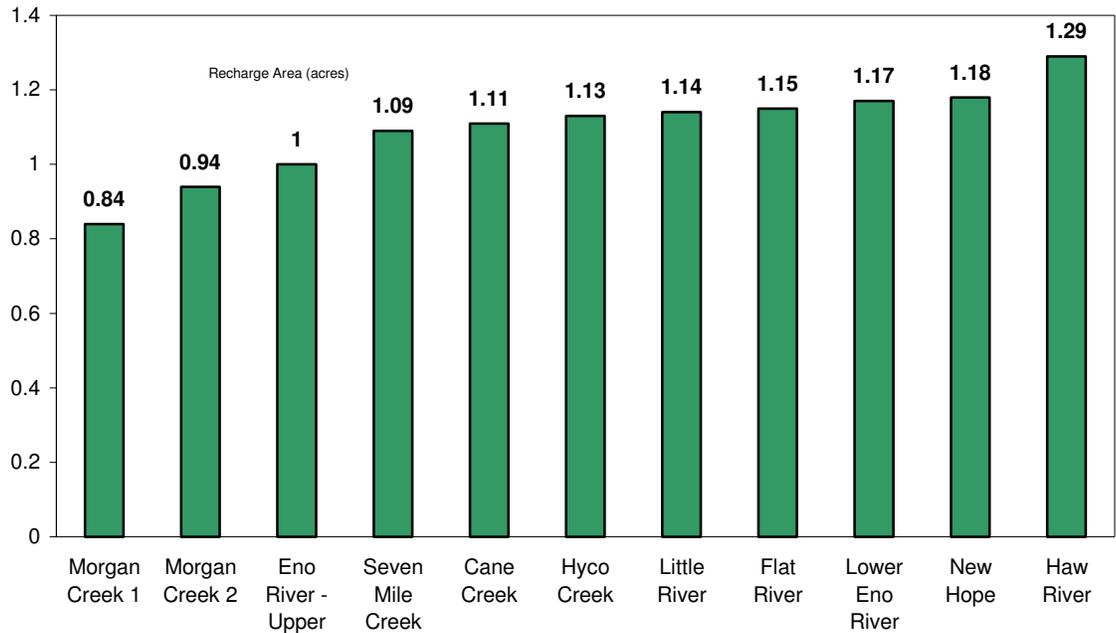
²The portion of Morgan Creek upstream from USG gaging station 5, north of NC 54 (also referred to as upstream of White Cross).

USGS, "Groundwater Recharge to the Regolith-Fractures Crystalline Rock Aquifer System, 1996.



Section B: Historic and Current Conditions

B5g) Figure: Groundwater Recharge Areas in Acres by USGS Basin



Notes and Sources:

¹Morgan Creek upstream of Chapel Hill.

²The portion of Morgan Creek upstream from USG gaging station 5, north of NC 54 (also referred to as upstream of White Cross).

USGS, "Groundwater Recharge to the Regolith-Fractures Crystalline Rock Aquifer System, 1996.

B5h) Table: 303(d) Listed Streams¹ in Orange County², 2006

Stream Name	AU NUMBER
Bolin Creek (Hogan Lake)	16-41-1-15-1-(0.5)b
Booker Creek (Eastwood Lake)	16-41-1-15-2-(1)
Booker Creek	16-41-1-15-2-(4)
Booker Creek	16-41-1-15-2-(5)
Meeting of the Waters	16-41-2-7

Notes and Sources:

¹303(d) Listed Streams are water bodies that do not meet water quality standards required under the federal Clean Water Act.

²Orange County's 303(d) Listed Streams are within Chapel Hill's municipal jurisdiction. These streams are located within the Cape Fear Basin and drain into Jordan Lake.

Source: North Carolina Department of Environment and Natural Resources



Section B: Historic and Current Conditions

B5i) [Table: Miles of Perennial Streams in Orange County, 2003/2006¹](#)

System Name	Total Miles	Undisturbed	Disturbed ²	Disturbed Percent
Cape Fear	1,137,550	897,789	239,761	21.1%
Neuse	1,044,126	978,656	65,469	6.3%
Total	2,181,676	1,876,445	305,230	14.0%

Notes and Sources:

¹ Cape Fear as of 3/03; Neuse as of 9/06. Roanoke Basin n/a

² Stream miles considered "Disturbed" if the presence of a house or field was within 100' buffer of the stream. This distance was subtracted out of total length.

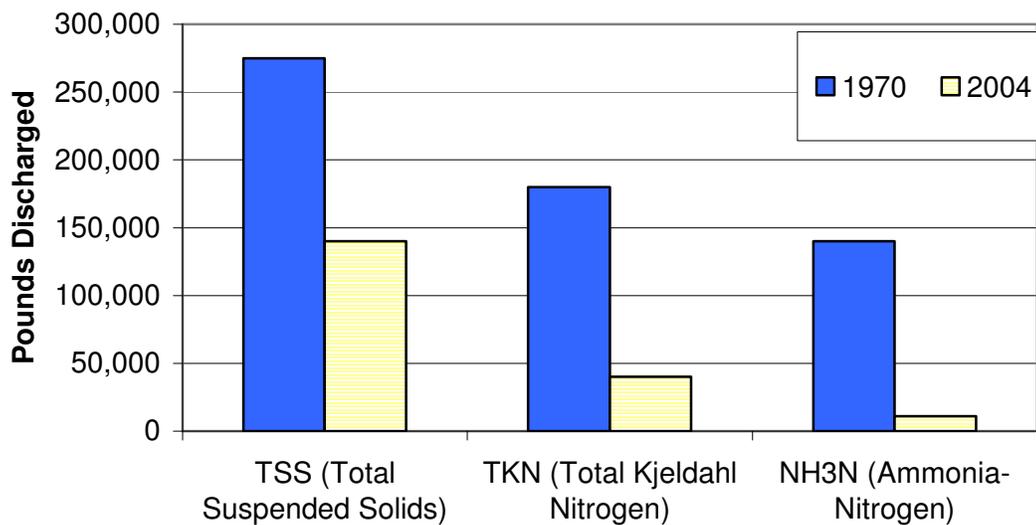
Source: Orange County Environment and Resource Conservation Department

B5j) [Table: Orange County Wastewater Spills, 1998-2003](#)

	1998	1999	2000	2001	2002	2003	% Change '98-'03
Number of Spills	62	55	26	10	31	33	-46.80%
Ttl Vol. Of Spills (gal)	1,592,970	467,035	2,224,980	19,220	920,680	107,321	-93.30%
Ttl Vol Reaching Surface waters	1,539,495	461,739	2,204,327	18,110	217,460	94,212	-93.90%

Source: North Carolina Department of Environment and Natural Resources

B5k) [Pollutants Discharged from Mason Farm Waste Water Treatment Plant](#)

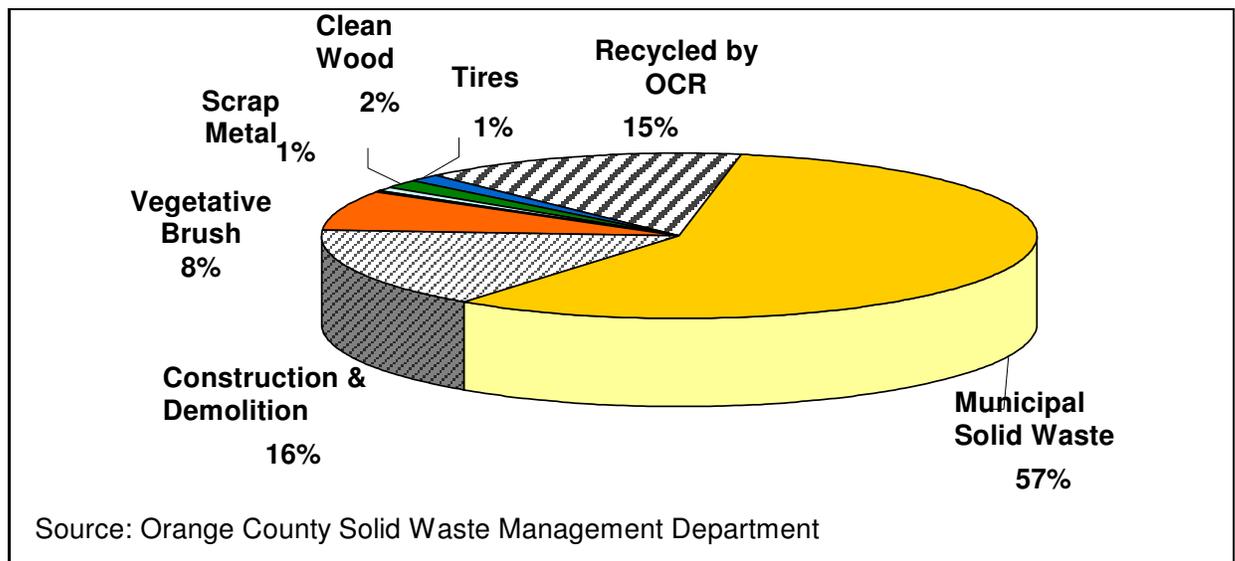


Source: OWASA Sustainability Report: October 2005



Section B: Historic and Current Conditions

B5l) Figure: Orange County Landfill Tons Managed by Percent, FY 05/06



B5m) Table: Orange County Landfill Tons Managed¹, FY 04/05 and 05/06

Type of Material	2004-2005	2005-2006	% change
Municipal Solid Waste	56,308	57,568	2%
Construction & Demolition Waste ²	16,084	15,874	-1%
Vegetative (brush)	9,106	7,655	-16%
White Goods (appliances)	430	429	0%
Scrap Metal	746	836	12%
Clean Wood	1,586	1,663	5%
Tires	1,231	1,339	9%
Recycled by Orange Community Recycling (OCR)	13,326	14,733	11%
Total Managed	98,817	100,097	1%

Notes and Sources:

¹ Disposed and Managed in Orange County

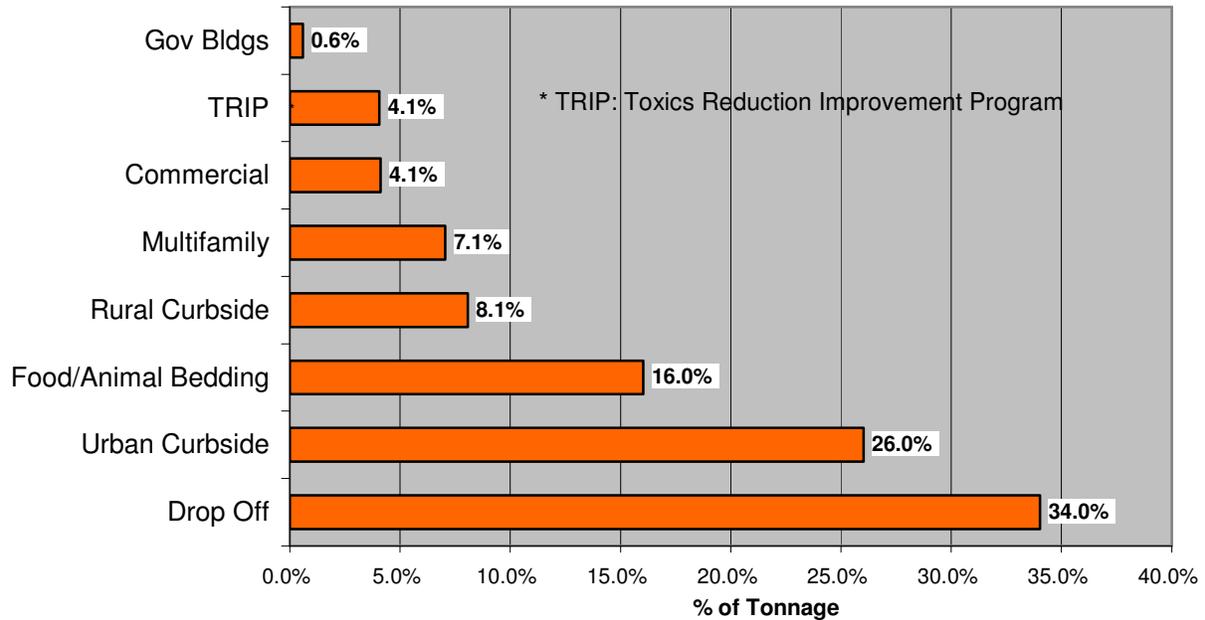
² In County includes mobile homes

Source: Orange County Solid Waste Management Department



Section B: Historic and Current Conditions

B5n) Figure: Orange County Recycling Programs, Tonnage by Percent, FY05/06



Source: Orange County Solid Waste Management Department

B5o) Table: Tonnage Recycled by Orange County Recycling Programs, FY 04/05 and 05/06

Program Totals	FY 04-05 (tons)	FY 05-06 (tons)	% Change
Drop Off	4,643	4,983	7.3%
Urban Curbside	3,362	3,810	13.3%
Food/Animal Bedding	1,917	2,350	22.6%
Rural Curbside	1,140	1,184	3.9%
Multifamily	1,026	1,033	0.7%
Commercial	646	604	(6.5%)
TRIP ¹	487	595	22.1%
Gov Bldgs	104	86	(17.6%)
Subtotal:	13,325	14,645	9.9%

¹Toxics Reduction Improvement Program

Source: Orange County Solid Waste Management Department



Sub-Section B6. Transportation

B6.1. BACKGROUND

Transportation in and around Orange County is a major issue, as traffic congestion often increases disproportionately to the county's population growth. The single-occupancy automobile remains the primary mode of travel to and from work for Orange County residents. For this and other reasons, there are more cars on the road now than ever. Increased traffic and congestion is closely linked to the location of housing and employment centers and results in a negative effect on air quality and the quality of life in general.

Orange County is a member of two regional transportation planning organizations working to improve transportation infrastructure, to promote alternative modes of transportation, and to increase mobility between communities. Within Orange County, local and regional transit services, such as the Triangle Transit Authority (TTA) and Chapel Hill Transit (CHT) shuttle commuters to work and to appointments within and between urban areas and universities. Orange County Public Transportation's "Orange Bus" addresses transit needs outside of the municipalities in rural areas.

Unless otherwise noted, data provided in tables and charts is for all of Orange County. Details on local and regional transportation initiatives can be found in the Transportation Element. Information on the effects of transportation on the environment and air quality may be found in the Natural and Cultural Systems Element.



Section B: Historic and Current Conditions

B6.2. HIGHLIGHTS

- There were 84,983 cars and trucks registered in Orange County in 2005, representing a 33% increase in vehicle registrations since 1990.
- Traffic accidents have increased nearly 43% since 1990.
- According to the NC Department of Transportation (NCDOT), 75% of state-maintained roads in Orange County are in the unincorporated (rural) areas.
- In 2005, unpaved roads represent less than 5% of total roadway miles maintained by NCDOT in Orange County, compared to 29% of roads in 1980. (This figure does not include privately maintained roadways.)
- Based on a 2000 report, Orange County had 215 miles of unpaved, non-NCDOT maintained roads, one of the highest number of miles in the state.
- The number of daily vehicle miles traveled (DMVT) for Orange County is projected to increase by 8.3% per capita from 2000 to 2015. Overall the gross DMVT is projected to increase by 51% by 2015.
- There is no AMTRAK railway stop in Orange County.
- The percentage of workers who bike or walk to work is higher than the state as a whole, owing largely to the presence of the UNC campus in Chapel Hill.
- The average drive time to work for Orange County residents is 22 minutes, representing a 19% increase since 1980.
- Sixty percent of the County's labor force lives and works in Orange County. The remaining 40% commute to other counties for employment. Likewise, 40% of Orange County's labor force commutes in from other counties.



Section B: Historic and Current Conditions

B6.3. FIGURES AND TABLES

B6a) Table: Orange County Registered Vehicles and Traffic Accidents¹: 1980-2005

Year	Auto/ Truck Regs ²	Traffic Accidents ³
1980	45,046	1,695
1990	63,711	2,018
2000	78,177	2,715
2001	80,101	2,927
2002	81,390	2,874
2003	82,093	3,034
2004	83,886	2,799
2005	84,983	2,875

Notes and Sources:

- ¹ NC Department of Transportation
- ² Actual registrations for automobiles and trucks for the calendar year in which the vehicles were registered.
- ³ A reportable accident is one that involves a motor vehicle resulting in injury, death, or total property damage of \$1,000 or more.

B6b) Table: Orange County Bicycle Crashes, 1997-2004

City Name	1997	1998	1999	2000	2001	2002	2003	2004	Totals ¹
Carrboro	8	6	7	7	9	4	4	1	46
Chapel Hill	16	15	20	21	16	9	11	11	119
Hillsborough	0	2	1	2	0	0	1	0	6
Non-City (Rural)	3	4	6	3	0	2	3	4	25
Totals	27	27	34	33	25	15	19	16	196

Notes and Sources:

- ¹ Counts of crashes are based on police reports where at least one (1) unit was a bicycle.
- Source: NC Dept of Transportation, Division of Bicycle and Pedestrian Transportation



Section B: Historic and Current Conditions

B6c) Table: Orange County Pedestrian Crashes, 1997-2004

City Name	1997	1998	1999	2000	2001	2002	2003	2004	Totals ¹
Carrboro	5	6	5	5	5	7	7	2	42
Chapel Hill	22	25	26	24	31	18	21	32	199
Hillsborough	0	1	1	2	1	1	3	2	11
Non-City (Rural)	6	3	4	1	0	5	7	5	31
Totals	33	35	36	32	37	31	38	38	283

Notes and Sources:

¹ Counts of crashes are based on police reports where at least one (1) person was a pedestrian.
 Source: NC Dept of Transportation, Division of Bicycle and Pedestrian Transportation

B6d) Table: Orange County NC DOT Maintained Roadways, 1980-2005

Year	Prim Hwy Mileage ¹	Sec Hwy Mileage ²	Pvd Hwy Mileage ³	Upvd Hwy Mileage ⁴
1980	117.8	641.3	535.8	223.3
1990	127.5	668.4	622.6	173.3
2000	126.6	687.7	754.9	59.4
2001	126.6	690.1	762.6	54.1
2002	126.5	692.9	762.6	46.1
2003	126.5	698.8	780.5	44.8
2004	126.5	700.8	827.3	42.0
2005	126.5	704.3	791.9	38.9

Notes and Sources:

¹ Primary Highway Miles: Total mileage for primary roads, including both paved and unpaved mileage. The state primary highway system is composed of all interstate, US, and NC numbered highways.

² Secondary Highway Miles: Total mileage for secondary roads including both paved and unpaved mileage. The state secondary road system is composed of all state-maintained roads other than primary ones.

³ Total paved mileage of primary and secondary roads, excluding unnumbered roads, such as school driveways, state university campus roads, rural fire department drives, etc.

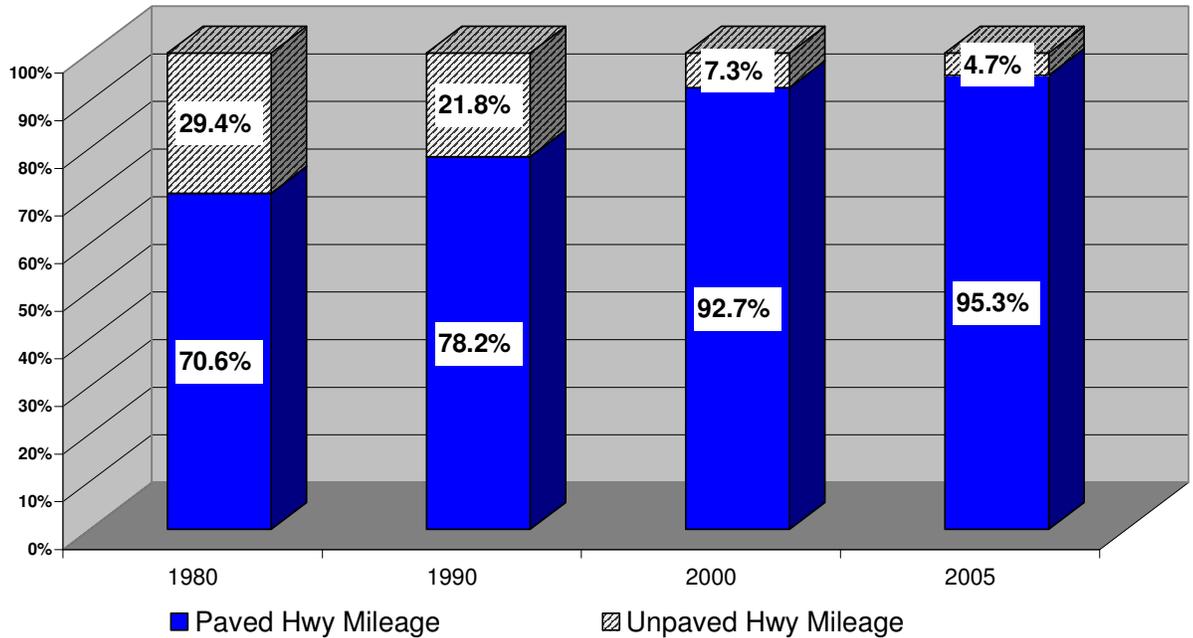
⁴ Total unpaved mileage of primary and secondary roads, excluding unnumbered roads, such as school driveways, state university campus roads, and rural fire department drives.

Source: NC Department of Transportation



Section B: Historic and Current Conditions

B6e) Table: Orange County Percent NC DOT Maintained Roadways, 1980-2005



B6f) Table: Orange County Lane Miles: 1985-2003

Year	Lane Miles ¹	Time Period	% Increase
1985	1,602	1985-1990	4.7%
1990	1,678	1990-1995	1.9%
1995	1,710	1995-2000	2.3%
2000	1,750	2000-2003	2.2%
2003	1,788	1985-2003	11.6%

¹ The lane miles shown are defined as the centerline mileage times the number of lanes. Example: 1.23 miles multiplied by 3 lanes = 3.69 miles. These mileage totals are for all state maintained roads in Orange County (Interstate, US, NC and SR). Source: NCDOT as compiled by the Orange County Commission for the Environment, "State of the Environment, 2004"



Section B: Historic and Current Conditions

B6g) Table: Orange County Daily Vehicle Miles Traveled (DVMT), 1990-2015

	Measured		Projected			% Increase
	1990	2000	2003	2007	2015	2000-2015
Rural¹						
Interstate	745,550	1,417,590	1,414,490	1,673,667	2,155,278	52%
Arterial	75,700	196,100	192,150	217,288	261,398	33%
Collector	569,300	647,630	678,090	757,525	947,433	46%
Local	111,300	148,980	167,670	175,512	238,130	60%
Total	1,501,850	2,410,300	2,452,400	2,823,992	3,602,239	49%
Urban and small urban¹						
Interstate	21,070	114,320	109,200	132,904	172,555	51%
Freeway	53,660	57,420	61,600	63,559	79,569	39%
Arterial	558,040	754,080	445,200	867,498	1,083,826	44%
Collector	35,890	41,500	388,590	46,245	57,894	40%
Local	57,620	34,080	107,980	37,138	148,104	335%
Total	726,280	1,001,400	1,112,570	1,147,344	1,541,948	54%
Grand Total	2,228,130	3,411,700	3,564,970	3,971,336	5,144,187	51%
Per Capita DVMT	23.7	28.9	30.2	29.9	31.3	8.3%

Notes and Sources:

¹ Road classifications are defined in the appendix.

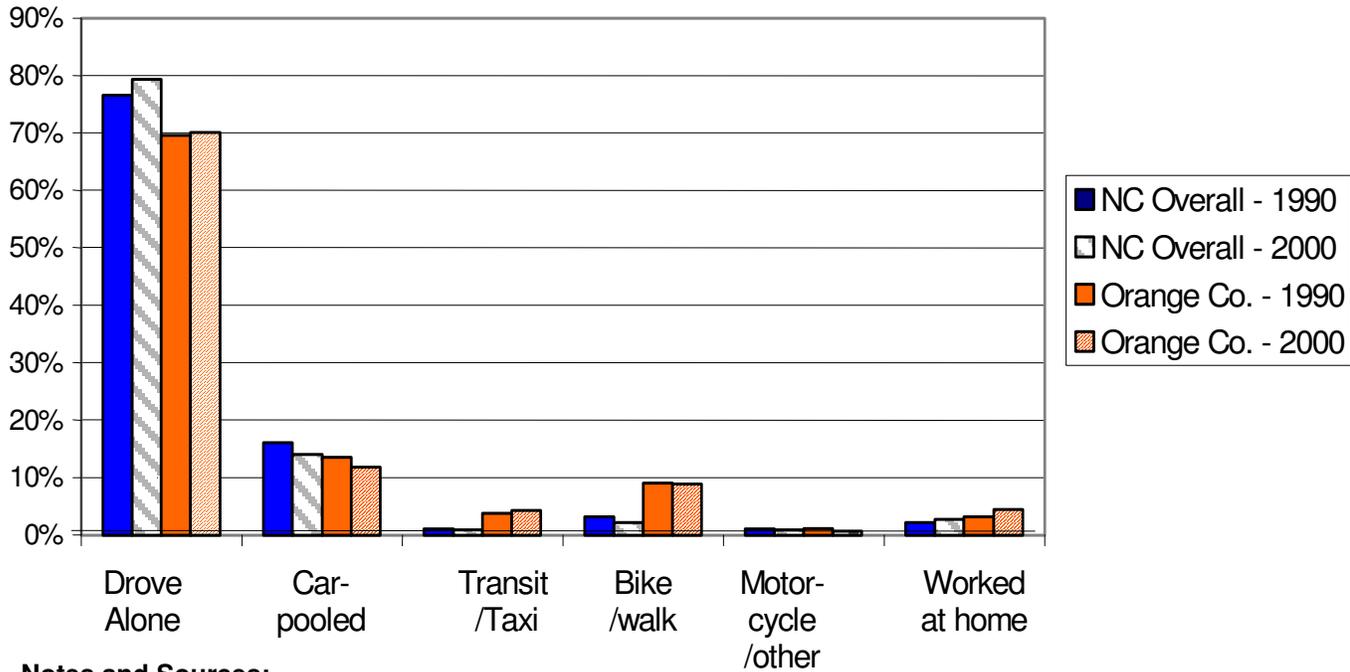
Note: Daily vehicle miles traveled (DVMT) represents vehicle use on public roads in Orange County by both residents and non-Orange County residents.

Source: NCDOT, as compiled by the Orange County Commission for the Environment, "State of the Environment, 2004"



Section B: Historic and Current Conditions

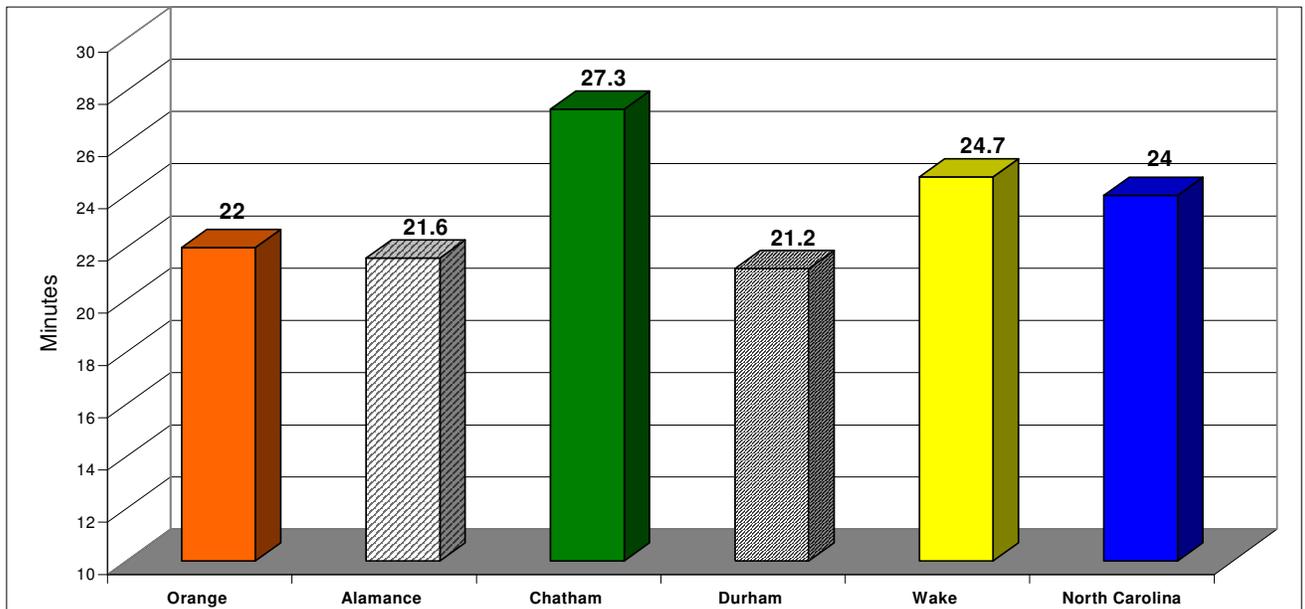
B6h) Figure: Means of Transportation to Work, Orange County and North Carolina



Notes and Sources:

US Census Bureau as compiled by the Orange County Commission for the Environment, "State of the Environment, 2004"

B6i) Figure: County Comparisons, Average Commute Times in Minutes, 2000

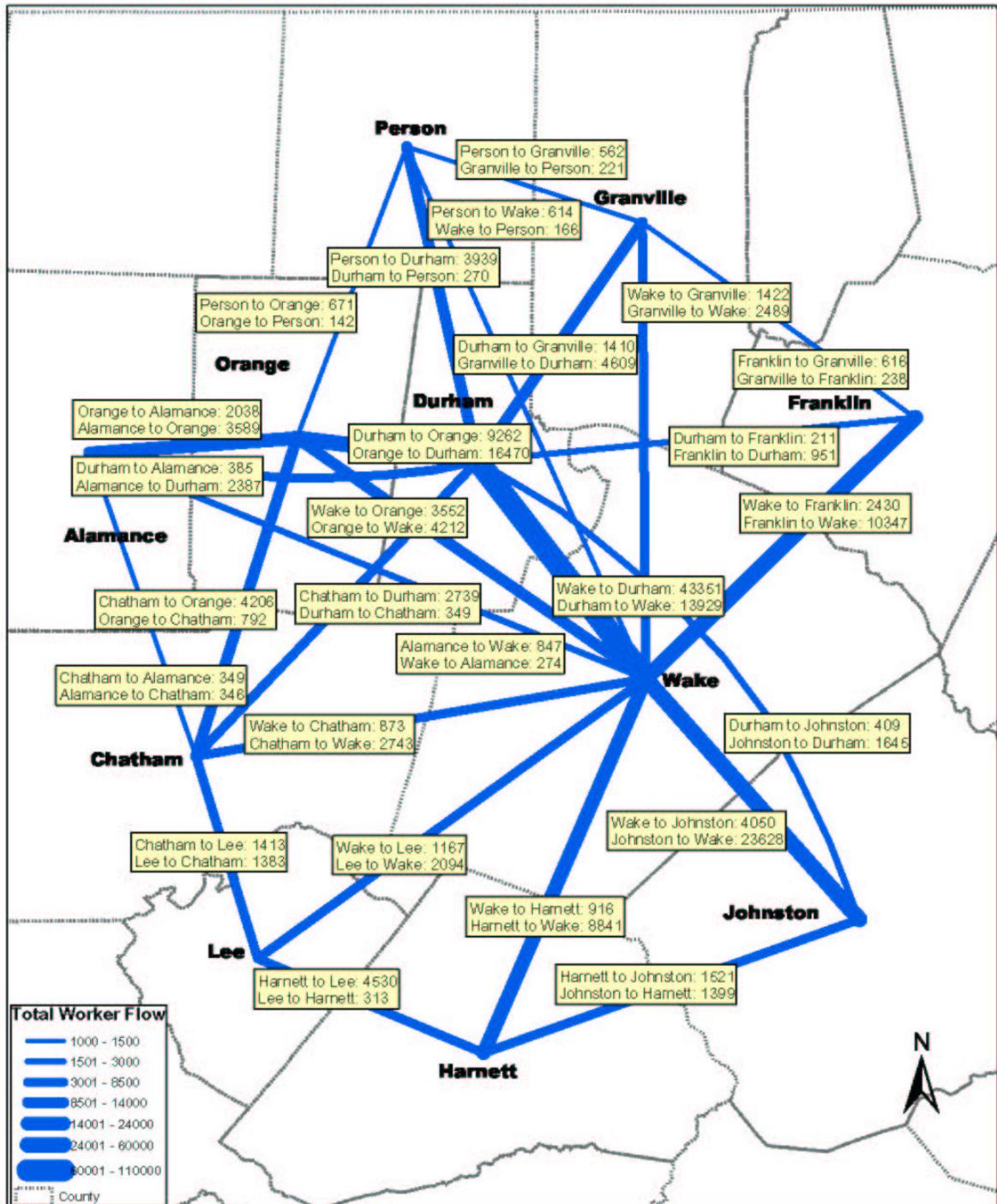


Source: US Census Bureau, 2000



Section B: Historic and Current Conditions

B6j) Figure: County-to-County Worker Flow, Census 2000



Notes and Sources:

The width of the line indicates the volume of commuters between counties. Values are provided within the yellow boxes.

Source: US Census Bureau, 2000



Section B: Historic and Current Conditions

B6k) Table: Commuting Trends Into Orange County by County of Workers' Residence, 1980-2000

County of Origin:	1980		1990		2000	
	#	%	#	%	#	%
Alamance	1,919	18.5%	2,722	16.0%	3,589	15.2%
Chatham	2,758	26.6%	3,671	21.6%	4,206	17.8%
Durham	4,082	39.4%	6,715	39.4%	9,262	39.2%
Person	0	0.0%	325	1.9%	671	2.8%
Wake	479	4.6%	1,462	8.6%	3,552	15.0%
All Other Counties	1,121	10.8%	2,135	12.5%	2,377	10.0%
Total Incoming	10,359	100%	17,030	100%	23,657	100%

Notes and Sources:

Note: 35,053 people (60% of labor force) live and work in Orange County.

US Census Bureau

B6l) Table: Commuting Trends Out of Orange County by County of Workers' Employment, 1980-2000

Destination County:	1980		1990		2000	
	#	%	#	%	#	%
Alamance	1,532	13.4%	2,299	12.5%	2,038	8.0%
Chatham	0	0.0%	258	1.4%	792	3.1%
Durham	7,603	66.3%	12,185	66.5%	16,470	65.0%
Person	0	0.0%	163	0.9%	142	0.6%
Wake	1,184	10.3%	2,085	11.4%	4,212	16.6%
All Other Counties	1,149	10.0%	1,334	7.3%	1,682	6.6%
Total Outgoing	11,468	100%	18,324	100%	25,336	100%

Notes and Sources:

Note: 35,053 people (60% of labor force) live and work in Orange County.

US Census Bureau



Section B: Historic and Current Conditions

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Section C: Population Projections

Sub-Section C1. Population Projection Methods

C1.1 BACKGROUND

Population Projections are educated guesses or estimates of future population based on sets of assumptions about potential growth. Projections provide an important framework for estimating the extent of future impacts on human, economic and environmental conditions resulting from the increased demand for the use of land and resources. To maintain objectivity and provide different scenarios for future growth trends, alternative methods have been used for the County Profile Element, yielding a low, medium, and high projection of future population growth. Population projections are provided in {} to reflect the range of values yielded through different projection methodologies.

C1.2 METHODOLOGY

- **Adjusted Migration Model** – a sophisticated methodology based on a series of assumptions and controls as prepared by the NC Office of Budget, Planning and Management, Demographic Section. This model takes into account factors such as migration rates, births, deaths, age-cohorts, institutional effects (such as university enrollments), growth trends and growth estimates.
- **Exponential extrapolation** – uses the average annual growth rates between the decades of (1980–1990) and (1990–2000). While more sophisticated methods exist, the relatively simple extrapolation formulas have been found to be accurate in predicting future population size, particularly in fast-growing areas with sub-areas of less than 100,000 persons. A more detailed explanation can be found in the Appendix.
- **Linear extrapolation** – assumes population will change by identical increments in each interval of future time and is calculated based on the average population change in the decades (1980–2000). This method is considered to be an accurate method for moderately growing areas, at a rate of up to 25%. A more detailed explanation can be found in the Appendix.
- The Exponential and Linear population projections contained herein are based strictly on previous mathematical growth rates, and do not include adjustments for amount of developable land; economic trends or conditions; current land use policies; and/or other similar factors. The constraints of land and policy on projected populations will be factored in as coordinated land use conditions and policies unfold. An average of the Exponential and Linear population projections is provided as an example in the comparative chart.



Section C: Population Projections

- Although not included herein, socioeconomic data and projections based on the Triangle Regional Model (TRM) for Orange, Chatham, and Durham Counties are now available through the Durham–Chapel Hill–Carrboro Metropolitan Planning Organization (DCHC MPO). To obtain this data, contact the Orange County Department of Planning and Inspections or one of the above mentioned member municipalities

C1.3 HIGHLIGHTS

- The range of projected population growth for Orange County through 2030 is between 161,118 and 215,649, a difference of 54,431 people.
- Of the three population projection methods used to calculate Orange County's potential growth, the Exponential model yields the highest population estimates of 215,649 for the year 2030. This would correspond to an increase of 100,000 people and a growth rate of 87 percent over 20 years.
- The Linear model yields a moderate picture of growth with the county's population increasing to 173,248 by 2030. This represents a growth rate of 50 percent over 20 years.
- The Adjusted Migration model prepared by the state provides the most conservative estimate for growth in Orange County, with the population increasing to 161,118 by 2030, representing an increase of 45,587 people and a growth rate of 39.5 percent over 20 years.
- On average, Orange County can expect to add between 127–279 people per month over the next several decades until 2030.
- Orange County's growth rate is ranked in the top 25% for the state and it is the 3rd fastest growing county in the region at 2.1%.
- Growth rates for neighboring counties such as Durham and Chatham are slightly lower than Orange County when compared using Exponential and Linear methodologies, {50 and 87%} for Orange, Durham {48 and 78%} and Chatham {48 and 80%}.
- According to the Adjusted Migration Model, Orange County's growth rate of 39.5 percent is moderate compared to the projected growth in Chatham County of 74.1 percent and Durham County's growth rate at 48.3 percent.
- The nearby counties of Wake and Johnston are expected to experience triple digit growth



Section C: Population Projections

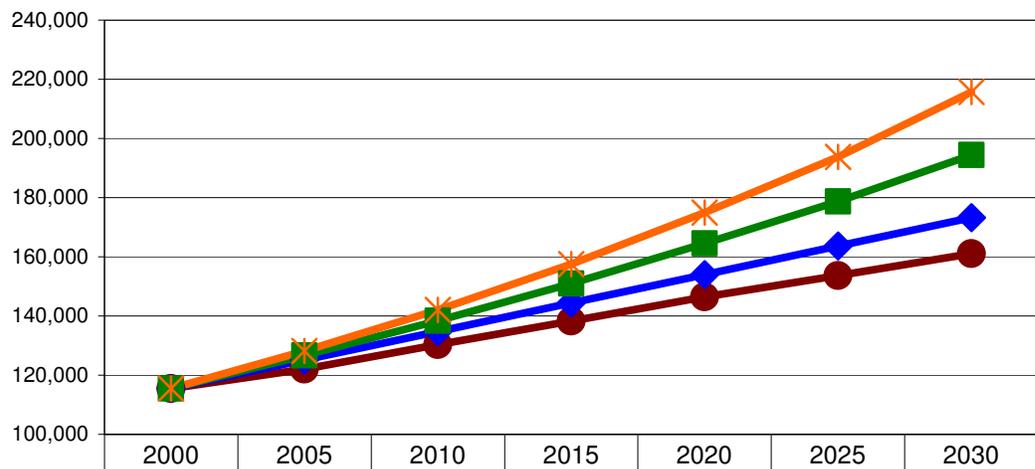
over the next 20 years based on Exponential and Adjusted Migration projections.

- The Town of Chapel Hill will grow by 50,000 people from 2010–2030 and unincorporated Orange will grow by greater than 55,000.
- Based on the Exponential model the population in the

unincorporated portions of the county is projected to decrease from 42 percent of the population in 2000 to 36 percent in 2030. For the Linear model, this decrease is from 42 percent to 40.5 percent.

C1.4 FIGURES AND TABLES

C1a) Figure: Population Projection Comparisons for Orange County

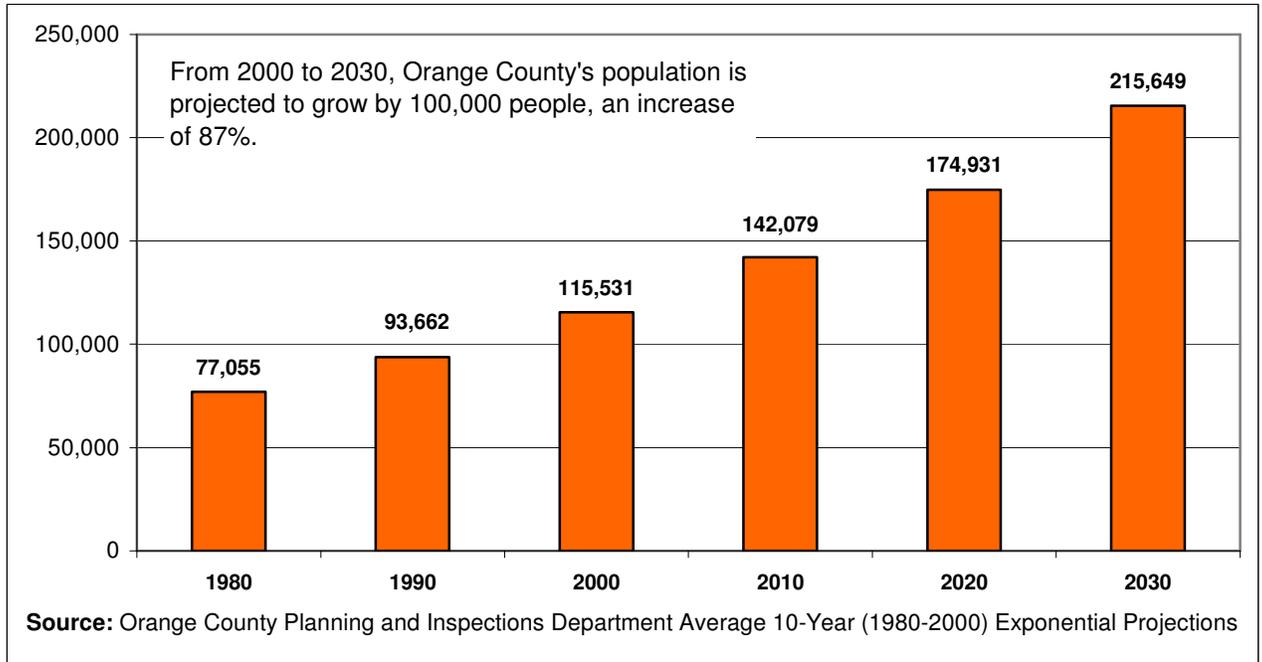


	2000	2005	2010	2015	2020	2025	2030
Age Adjusted Migration	115,531	121,992	130,375	138,272	146,458	153,626	161,118
Linear	115,531	125,150	134,770	144,389	154,009	163,628	173,248
Avg of Linear/Exponential	115,531	126,635	138,425	150,976	164,470	178,700	194,449
Exponential	115,531	128,120	142,079	157,563	174,931	193,771	215,649

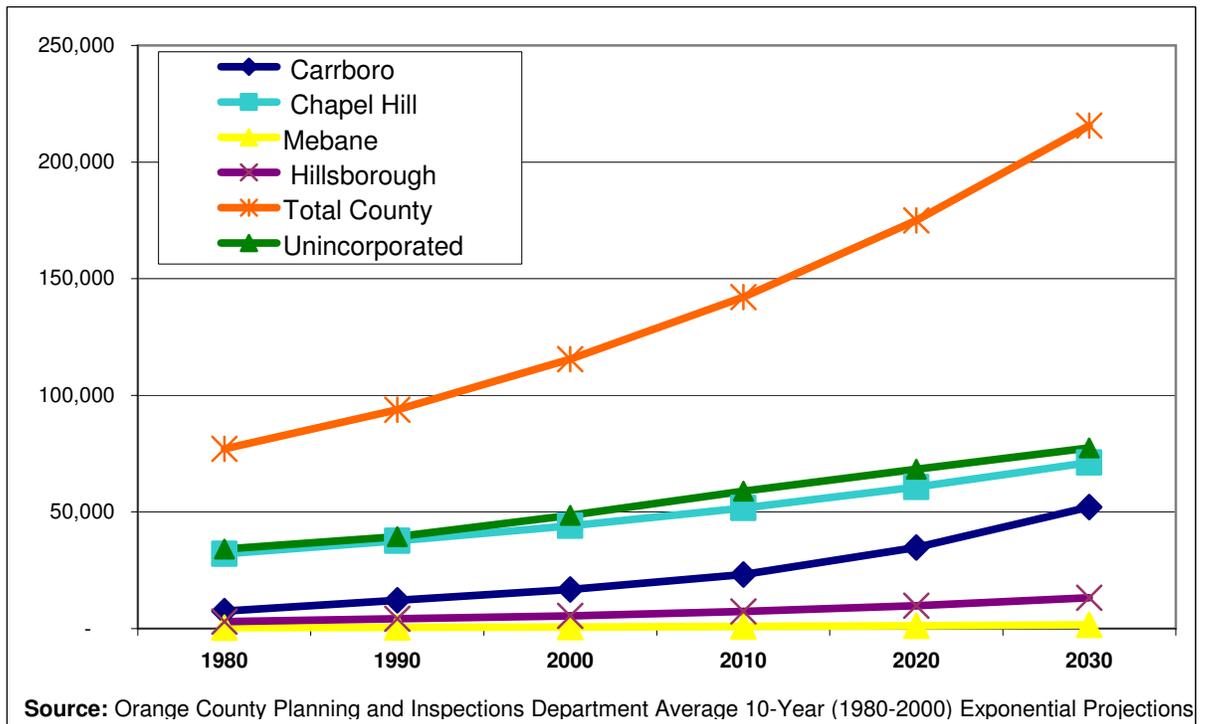


Section C: Population Projections

C1b) Figure: Orange County Average 10 Year (1980–2000) Exponential Projections



C1c) Figure: Average 10 Year Exponential Projections (1980–2000) by Municipality





Section C: Population Projections

C1d) Table: Orange County Average 10 Year Exponential Projections (1980–2000) by Township

TOWNSHIP Municipality	POPULATION ¹			AVG 10-YEAR GROWTH RATE ²	POPULATION PROJECTIONS ³		
	1980	1990	2000		2010	2020	2030
BINGHAM	3,954	5,184	6,181	0.250	7,726	9,658	12,073
CEDAR GROVE	3,166	3,691	4,930	0.255	6,187	7,765	9,745
CHAPEL HILL	50,572	61,973	76,578	0.235	94,574	116,799	144,247
Town of Carrboro	7,517	12,134	16,782	0.499	23,210	34,783	52,127
Town of Chapel Hill	32,038	37,596	44,102	0.173	51,743	60,708	71,226
Unincorporated	11,017	12,243	15,694	0.197	19,620	21,307	20,893
CHEEKS	4,821	5,422	7,064	0.210	8,547	10,342	12,514
City of Mebane ⁴	379	485	675	0.336	902	1,204	1,607
Unincorporated	4,442	4,937	6,389	0.203	7,646	9,139	10,907
ENO	4,450	5,262	6,092	0.170	7,128	8,340	9,758
HILLSBOROUGH	8,599	10,136	11,639	0.165	13,559	15,796	18,402
Town of Hillsborough	3,019	4,263	5,446	0.345	7,324	9,848	13,243
Unincorporated	5,580	5,873	6,193	0.053	6,236	5,948	5,159
LITTLE RIVER	1,493	2,183	3,047	0.430	4,357	6,231	8,910
TOTAL COUNTY	77,055	93,851	115,531	N/A	142,079	174,931	215,649
Total Incorporated	42,953	54,478	67,005	N/A	83,179	106,544	138,205
Total Unincorporated	34,102	39,373	48,526	N/A	58,900	68,387	77,445

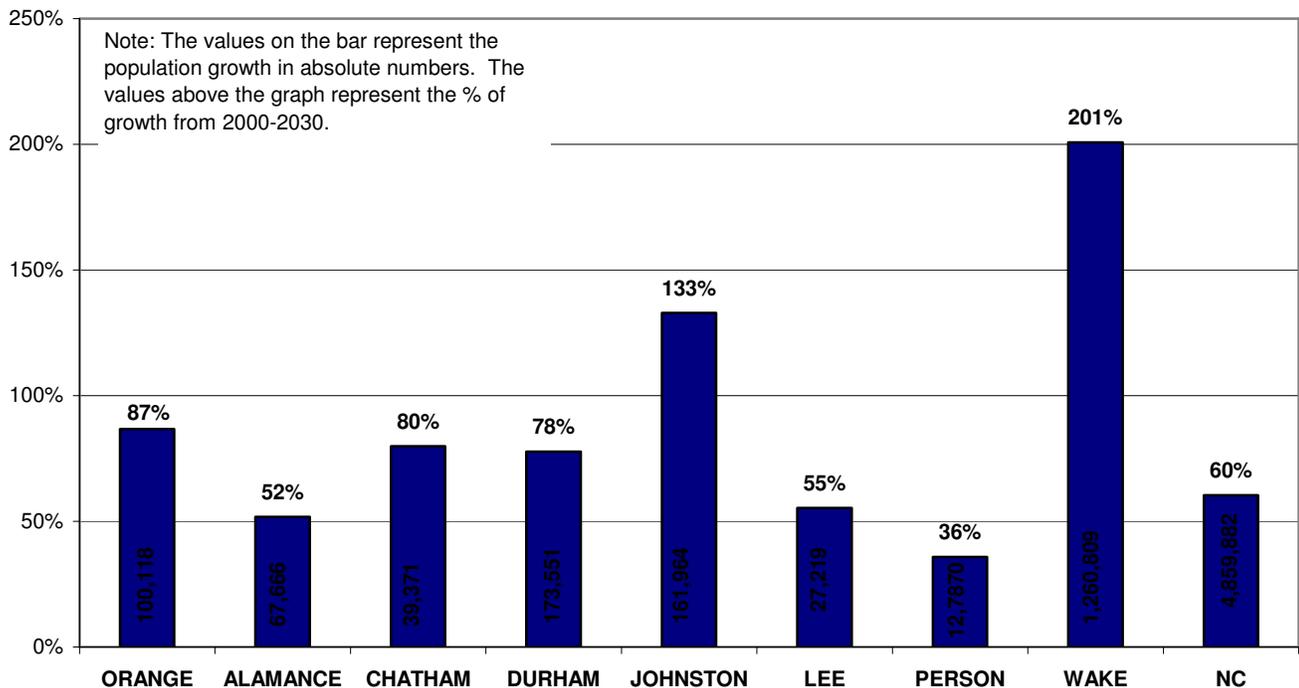
Notes and Sources:

- 1 The Population figures for 1980, 1990, and 2000 are from the US Census Bureau.
- 2 The Average 10-Year Growth Rate is the average between the 1980 to 1990 and 1990 to 2000 growth rates.
- 3 The Township and Municipality Population Projections for 2010 to 2030 are based upon the population figure for the previous timeframe multiplied by the Average 10-Year Growth Rate, which is the growth figure. The growth figure is then added to the previous timeframe figure to get the projected. The Population Projections for the Unincorporated areas in Townships with Municipalities was determined by the Municipal populations from Projections for the Unincorporated areas in Townships with Municipalities was determined by subtracting the total population for the Township. The Population Projections for the County from 2010 to 2030 are based upon the sum of the population figures for each of the Townships.
- 4 For the municipalities, only the portions within Orange County are included. The Town of Chapel Hill's population figures do not include portions in Durham County, and the City Mebane's population figures do not include the portions in Alamance County.



Section C: Population Projections

C1e) Figure: Average 10 Year (1980–2000) Exponential Growth Rates by County



Source: Orange County Planning and Inspections Department Average 10-Year (1980-2000) Exponential Projections

C1f) Table: Average 10 Year (1980–2000) Exponential Growth Rates by County

County	POPULATION ¹			AVG 10-YEAR GROWTH RATE ²	POPULATION PROJECTIONS ³		
	1980	1990	2000		2010	2020	2030
ORANGE	77,055	93,662	115,531	2.1%	142,079	174,931	215,649
ALAMANCE	99,319	108,213	130,794	1.4%	150,297	172,708	198,460
CHATHAM	33,415	38,979	49,329	2.0%	59,985	72,943	88,700
DURHAM	152,235	181,844	223,314	1.9%	270,494	327,643	396,865
JOHNSTON	70,599	81,306	121,900	2.9%	161,574	214,162	283,864
LEE	36,718	41,370	49,208	1.5%	56,987	65,995	76,427
PERSON	29,164	30,180	35,623	1.0%	39,456	43,701	48,403
WAKE	301,429	426,311	627,866	3.7%	906,352	1,308,360	1,888,675
NORTH CAROLINA	5,880,095	6,632,448	8,046,491	1.6%	9,419,021	11,025,670	12,906,373

Notes and Sources:

1 The Population figures for 1980, 1990, and 2000 are from the US Census Bureau.

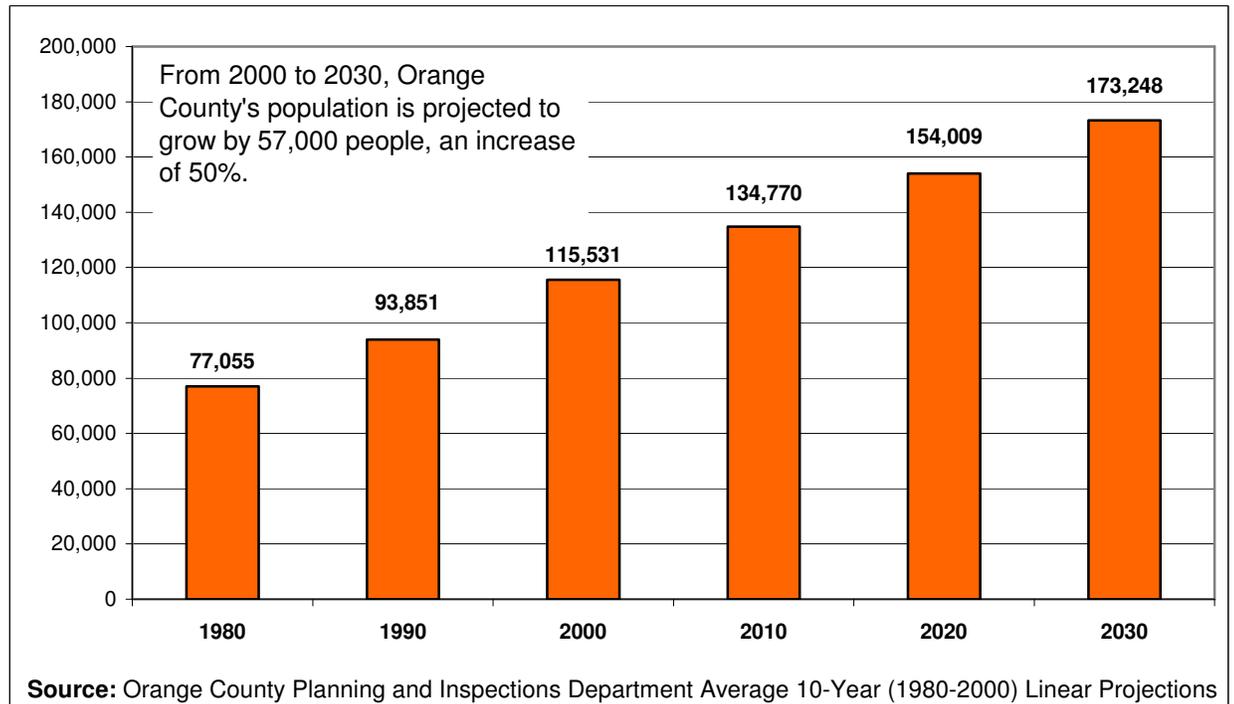
2 The Average 10-Year Growth Rate is the average between the 1980 to 1990 and 1990 to 2000 growth rates.

3 The Population Projections for 2010 to 2030 are based upon the population figure for the previous timeframe multiplied by the Average 10-Year Growth Rate, which is the growth figure. The growth figure is then added to the previous timeframe figure to get the projected population. The Population Projections for Orange County from 2010 to 2030 are based upon the sum of the population figures for each of the Townships.

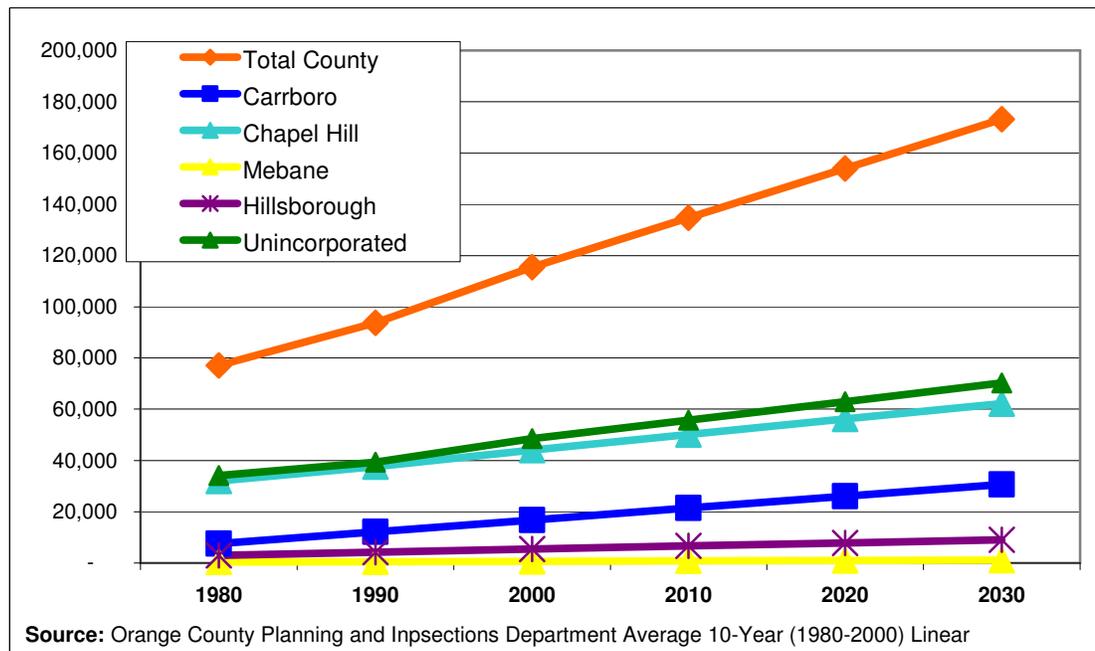


Section C: Population Projections

C1g) Figure: Orange County Average 10 Year (1980-2000) Linear Projections



C1h) Figure: Average 10 Year (1980-2000) Linear Projections by Municipality





Section C: Population Projections

Cl i) Table: Orange County Average 10 Year (1980–2000) Linear Projection by Township

TOWNSHIP Municipality	POPULATION ¹			Average Increment ²	POPULATION PROJECTIONS		
	1980	1990	2000		2010	2020	2030
BINGHAM	3,954	5,184	6,181	1,114	7,295	8,409	9,523
CEDAR GROVE	3,166	3,691	4,930	882	5,812	6,694	7,576
CHAPEL HILL ³	50,572	61,973	76,578	13,003	89,581	102,584	115,587
Town of Carrboro	7,517	12,134	16,782	4,633	21,415	26,048	30,681
Town of Chapel Hill ⁴	32,038	37,596	44,102	6,032	50,134	56,166	62,198
Unincorporated	11,017	12,243	15,694	2,339	18,033	20,372	22,711
CHEEKS	4,821	5,422	7,064	1,122	8,186	9,308	10,430
City of Mebane ⁴	379	485	675	148	823	971	1,119
Unincorporated	4,442	4,937	6,389	974	7,363	8,337	9,311
ENO ³	4,450	5,262	6,092	821	6,913	7,734	8,555
HILLSBOROUGH	8,599	10,136	11,639	1,520	13,159	14,679	16,199
Town of Hillsborough	3,019	4,263	5,446	1,214	6,660	7,874	9,088
Unincorporated	5,580	5,873	6,193	307	6,500	6,807	7,114
LITTLE RIVER	1,493	2,183	3,047	777	3,824	4,601	5,378
TOTAL COUNTY	77,055	93,851	115,531	19,239	134,770	154,009	173,248
Total Incorporated	42,953	54,478	67,005	12,027	79,032	91,059	103,086
Total Unincorporated	34,102	39,373	48,526	7,214	55,740	62,954	70,168

Notes and Sources:

¹The Population figures for 1980, 1990, and 2000 are from the US Census Bureau.

² The average increments were obtained by subtracting 1980 from 1990 and 1990 from 2000 and dividing the sum by 2. Example: ((1990-1980) + (2000-1990))/2. The projections were done by adding the average increment to the 2000 data and multiplying the result by the difference in the projection year and the most recent year of data, then dividing that result by 10 (10 year projection increments). Example Little River: (3047 + 777) * ((2010-2000)/10)

Methodology taken from URBAN LAND USE PLANNING, Fourth Edition (p.125) County Planning library.

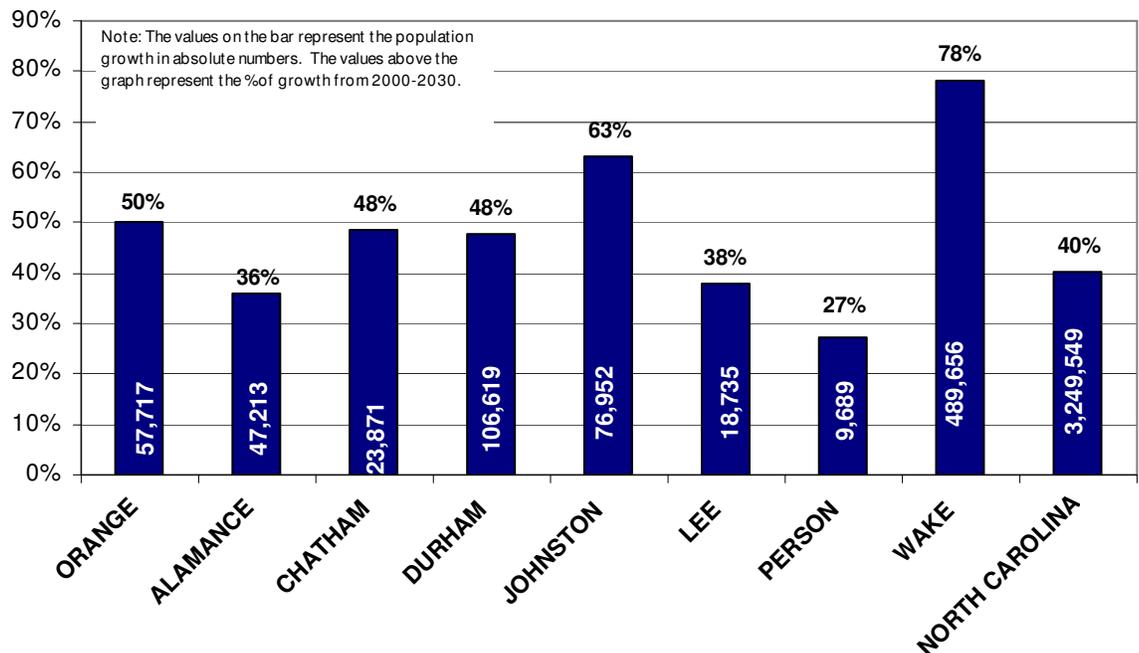
³Durham City comprises two small areas of Orange County, one each in Eno and Chapel Hill Townships. The total population of both areas is 39 people. These people were included in their respective township totals.

⁴ For the municipalities, only the portions within Orange County are included. The Town of Chapel Hill's population figures do not include portions in Durham County, and the City Mebane's population figures do not include the portions in Alamance County.



Section C: Population Projections

C1j) Figure: Average 10 Year (1980–2000) Linear Projections by County



Source: Orange County Planning and Inspections Department Average 10-Year (1980-2000) Linear Projections

C1k) Table: Average 10 Year (1980–2000) Linear Projections by County

County	POPULATION ¹			Avg 10 Year Increment ²	POPULATION PROJECTIONS		
	1980	1990	2000		2010	2020	2030
ORANGE	77,055	93,662	115,531	19,239	134,770	154,009	173,248
ALAMANCE	99,319	108,213	130,794	15,738	146,532	162,269	178,007
CHATHAM	33,415	38,979	49,329	7,957	57,286	65,243	73,200
DURHAM	152,235	181,844	223,314	35,540	258,854	294,393	329,933
JOHNSTON	70,599	81,306	121,900	25,651	147,551	173,201	198,852
LEE	36,718	41,370	49,208	6,245	55,453	61,698	67,943
PERSON	29,164	30,180	35,623	3,230	38,853	42,082	45,312
WAKE	301,429	426,311	627,866	163,219	791,085	954,303	1,117,522
NORTH CAROLINA	5,880,095	6,632,448	8,046,491	1,083,198	9,129,689	10,212,887	11,296,085

Notes and Sources:

¹The Population figures for 1980, 1990, and 2000 are from the US Census Bureau.

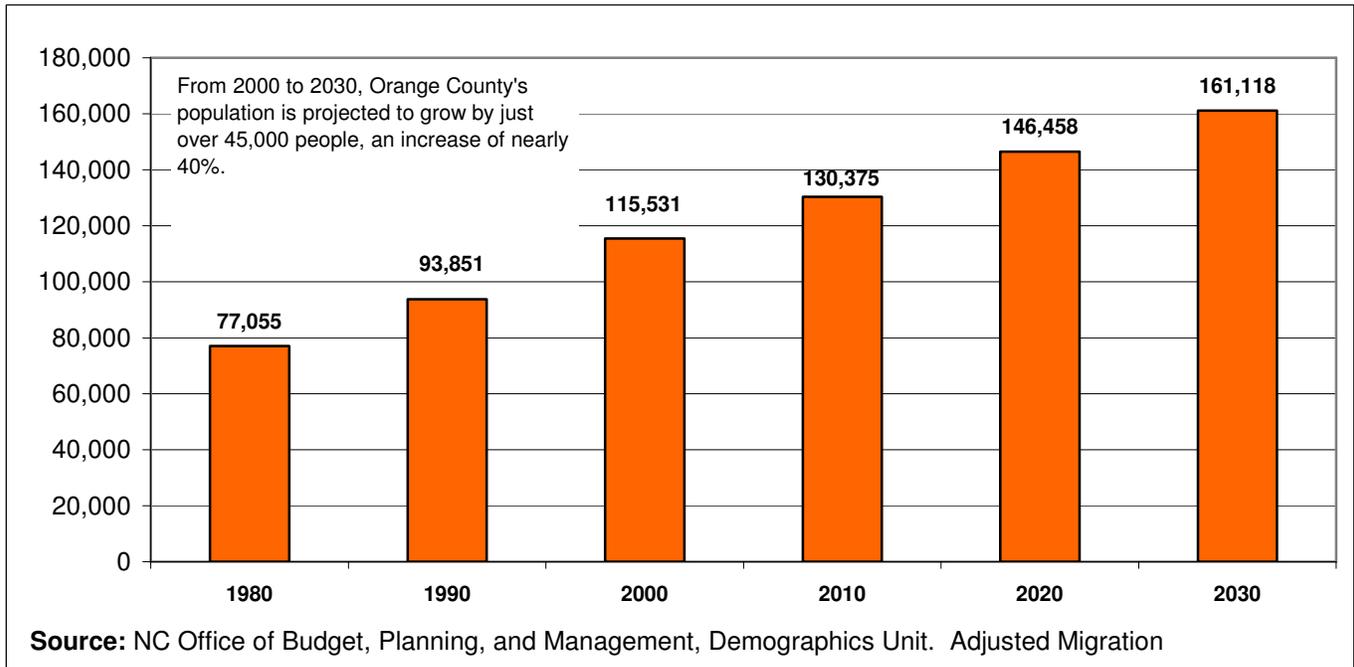
² The average increments were obtained by subtracting 1980 from 1990 and 1990 from 2000 and dividing the sum by 2. Example: $((1990-1980) + (2000-1990))/2$. The projections were done by adding the average increment to the 2000 data and multiplying the result by the difference in the projection year and the most recent year of data, then dividing that result by 10 (10 year projection increments). Example Little River: $(3047 + 777) * ((2010-2000)/10)$

Methodology taken from URBAN LAND USE PLANNING, Fourth Edition (p.125) County Planning library.



Section C: Population Projections

C1l) Figure: Orange County Population Projections, Adjusted Migration Model



C1m) Table: Adjusted Migration Model Projections by County

County	April 2000	July 2005	April 2010	July 2015	April 2020	July 2025	April 2030
ORANGE	115,531	121,992	130,375	138,272	146,458	153,626	161,118
ALAMANCE	130,794	138,578	147,988	157,896	168,839	179,573	191,145
CHATHAM	49,329	56,090	61,635	67,678	73,617	79,850	85,877
DURHAM	223,314	242,207	258,398	276,980	294,240	313,428	331,275
JOHNSTON	121,900	146,319	169,143	193,694	218,868	245,702	272,744
LEE	49,208	53,786	58,196	62,501	67,180	71,693	76,573
PERSON	35,623	37,131	38,990	40,934	42,970	44,791	46,683
WAKE	627,866	755,053	876,643	1,004,055	1,133,110	1,269,111	1,404,751
NORTH CAROLINA	8,046,813	8,682,066	9,349,175	10,022,722	10,709,704	11,398,300	12,090,083

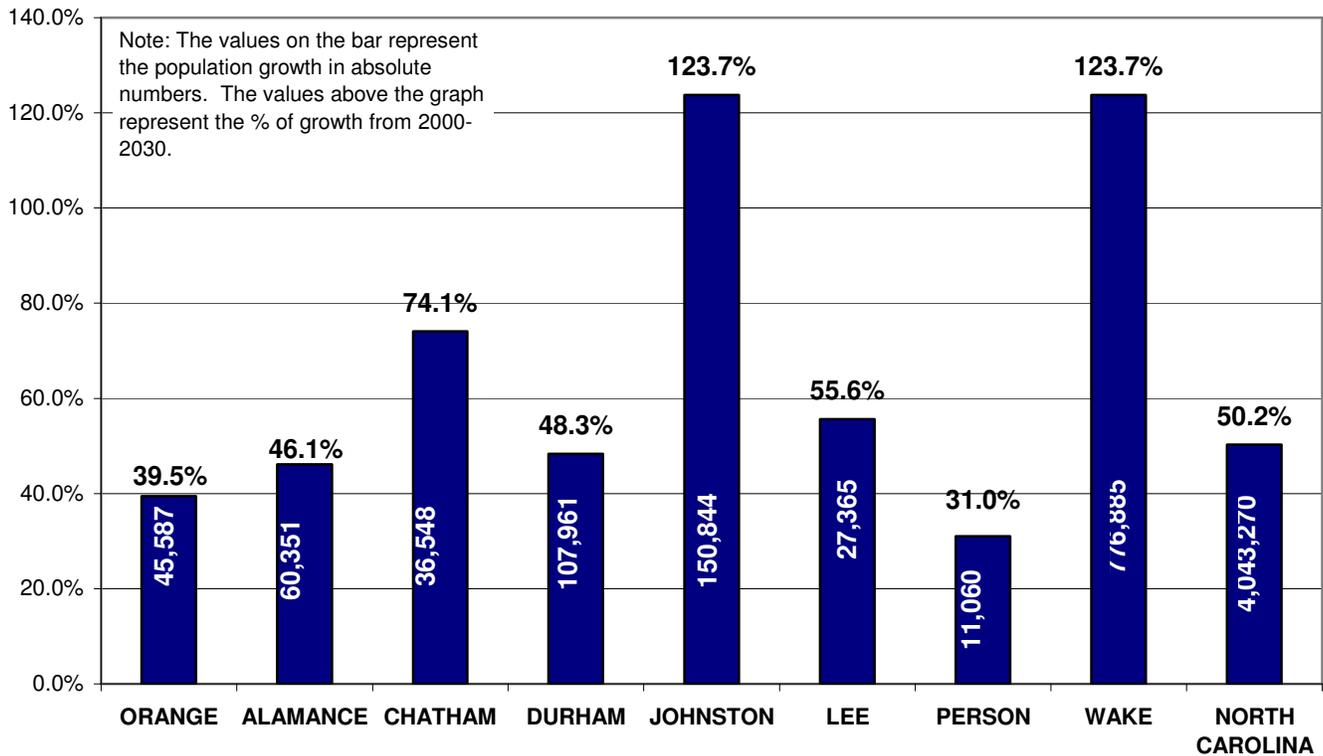
Notes and Sources:

NC Office of Budget, Planning and Management, Demographics Unit
Adjusted Migration Model, March 2007



Section C: Population Projections

C1n) Figure: Adjusted Migration Model, Growth Rates by County



Source: NC Office of Budget, Planning, and Management, Demographics Unit, Adjusted



Section C: Population Projections

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Section C: Population Projections

Sub-Section C2. Age Cohort Projections

C2.1 HIGHLIGHTS

- During the three decades (2000–2030), the effect of population growth on educational enrollment will be nominal. The school age population of students' ages (5–18) years old will remain steady around 15% of the total population between these decades.
- Children 18 and under are projected to represent 20% of the total county's population in 2030 as opposed to 24% in 1980.
- Growth rates in teens (15–18) will decline by almost two-thirds between 2010 and 2030. Likewise, growth rates for the very young (0–4) will drop by half.
- The population of young and middle age adults in Orange County has begun to decline, reversing previous decade's trends.
- The overall elderly population (ages 65 and over) increased by 1,848 (23 percent) during the decade (1990–2000), going from 8,083 in 1990 to 9,931 by the year 2000.
- During the decades (2000–2030) the elderly population will be growing both in absolute numbers as well as a percent of total population. In 2000, the 65 and over age group represented 8.6 percent of the total population, but is expected to increase its share to 16.8 percent by the year 2030.
- The elderly population (65 and over) will nearly triple during these three decades (2000–2030), increasing from 9,931 in 2000 to 26,499 by the year 2030. The very old population (85 and over) will more than double during this time period, increasing from 1,174 in 2000 to 2,909 in the year 2030.
- Orange County's Median Age has been steadily increasing from 25.7 in 1980 to 30.4 in 2000. This trend is expected to continue in the future with the "graying" of America.



Section C: Population Projections

C2.2 FIGURES AND TABLES

C2a) Table: Orange County Population Trends and Projections by Age Cohorts

Age ¹	Actual ²			Projected ³			% Population Change		
	1980	1990	2000	2010	2020	2030	(2000-2010)	(2010-2020)	2020-2030
0-4	3,994	5,440	5,854	6,608	7,098	7,541	12.9%	7.4%	6.2%
5-14	8,891	9,707	14,200	14,824	16,197	17,190	4.4%	9.3%	6.1%
15-18	5,702	5,300	6,641	7,597	8,305	8,640	14.4%	9.3%	4.0%
19-24	18,596	18,948	19,468	21,532	22,021	23,061	10.6%	2.3%	4.7%
25-34	15,537	18,059	17,887	18,569	21,461	22,636	3.8%	15.6%	5.5%
35-44	7,751	14,299	17,448	16,472	17,329	20,038	-5.6%	5.2%	15.6%
45-54	5,709	8,146	15,923	17,884	17,317	18,201	12.3%	-3.2%	5.1%
55-64	5,092	5,869	8,181	14,634	16,818	16,408	78.9%	14.9%	-2.4%
65-74	3,553	4,755	5,275	6,947	12,799	14,814	31.7%	84.2%	15.7%
75-84	1,752	2,517	3,482	3,694	5,178	9,680	6.1%	40.2%	86.9%
85+	478	811	1,174	1,614	1,935	2,909	37.5%	19.9%	50.3%
Total	77,055	93,851	115,533	130,375	146,458	161,118	12.8%	12.3%	10.0%

Notes and Sources:

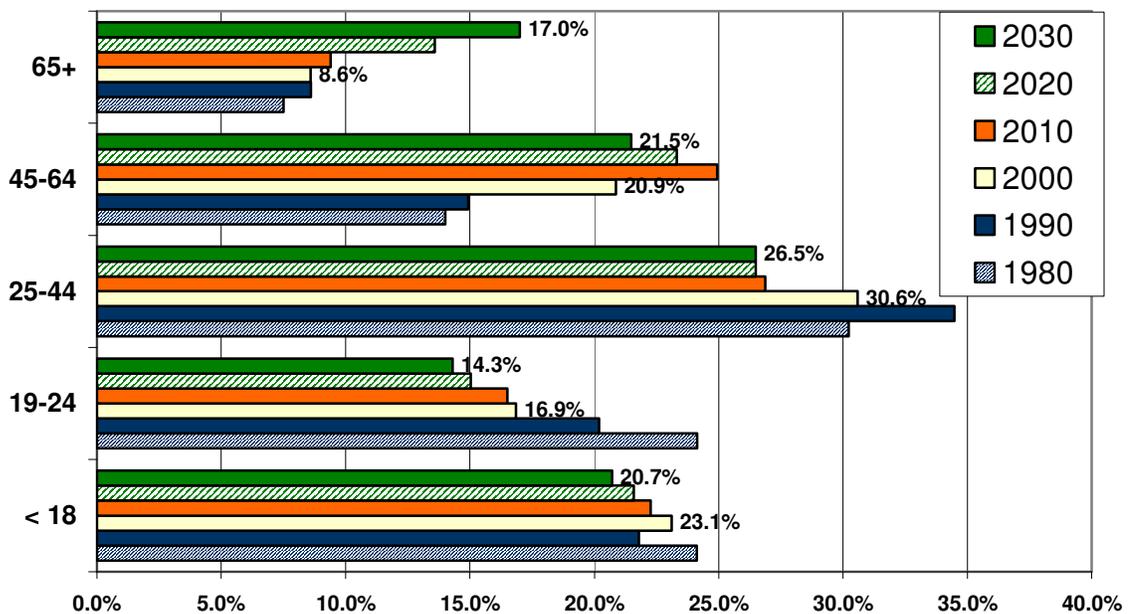
¹Age cohorts based on 2000 Population.

²Population figures for 1980, 1990, and 2000 are from the US Census Bureau

³Adjusted Migration Projections from the NC Office of Budget, Planning and Management, Demographics Unit, as of March 2007

⁴The County's total population may differ from the sum of age cohorts due to rounding of estimates or projections.

C2b) Figure: Orange County Population Trends and Projections, Age Cohorts as a Percent of the Population



Source: NC Office of Budget, Planning, and Management, Demographics Unit, Adjusted Migration Model



Section C: Population Projections

C2c) Table: Orange County Children 18 and Under as a Percent of Total Population

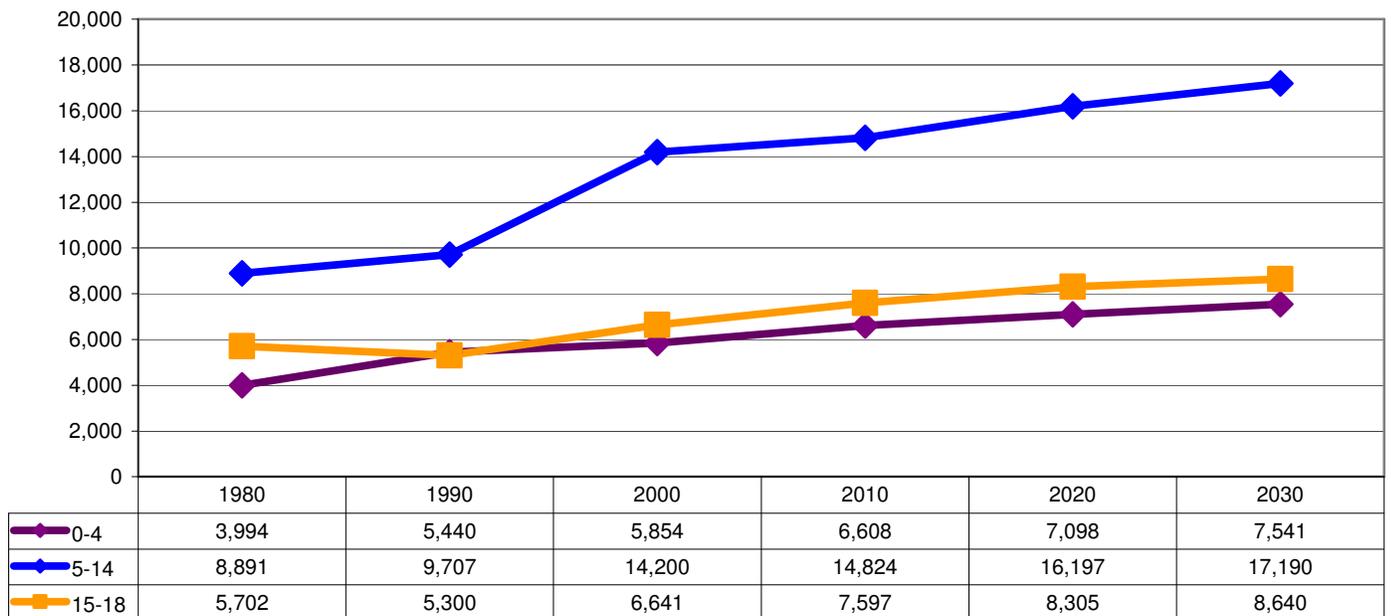
Youth	Actual ¹			Projected ²		
	1980	1990	2000	2010	2020	2030
0-4	5.18%	5.80%	5.07%	5.07%	4.85%	4.68%
5-14	11.54%	10.34%	12.29%	11.37%	11.06%	10.67%
15-18	7.40%	5.65%	5.75%	5.83%	5.67%	5.36%
< 18	24.12%	21.79%	23.11%	22.27%	21.58%	20.71%

Notes and Sources:

¹Population figures for 1980, 1990, and 2000 are from the US Census

²Adjusted Migration Projections from the NC Office of Budget, Planning and Management, Demographic Section

C2d) Figure: Orange County Population Projections for Children 18 and Under



Source: NC Office of Budget, Planning, and Management, Demographics Unit, Adjusted Migration Model



Section C: Population Projections

C2e) Table: Orange County Persons 65 and Older as a Percent of Total Population

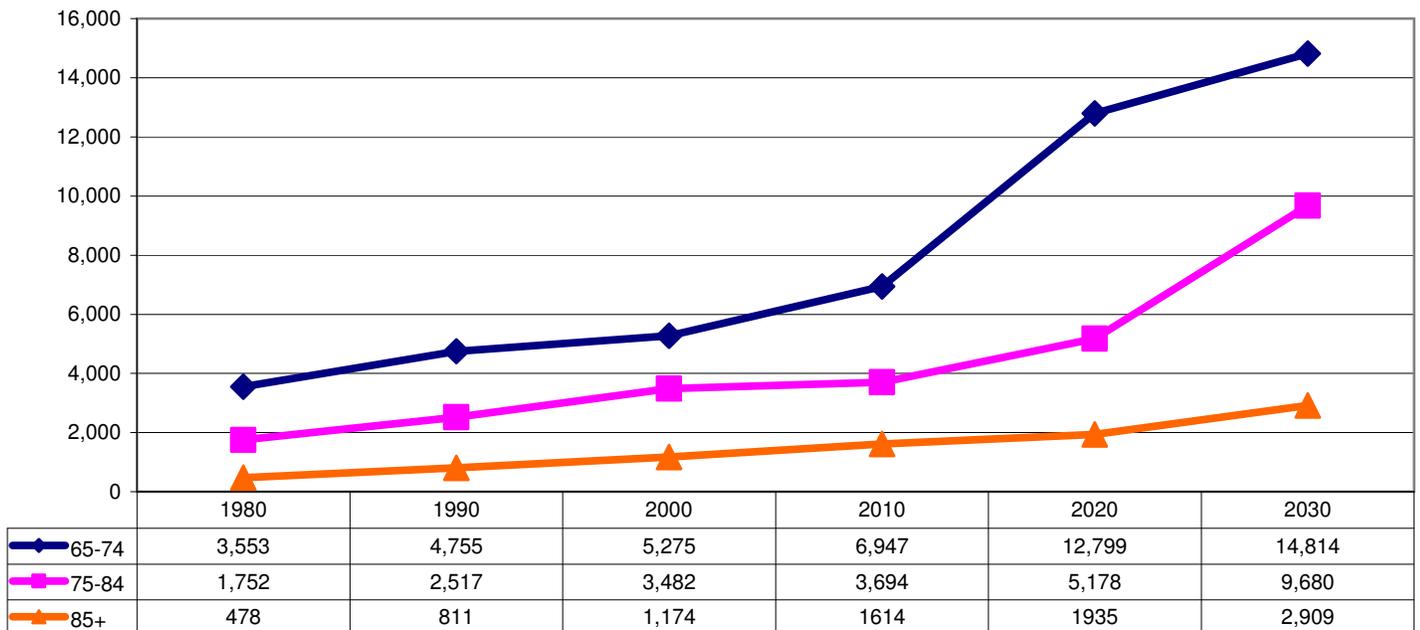
Seniors	Actual ¹			Projected ²		
	1980	1990	2000	2010	2020	2030
65-74	4.61%	5.07%	4.57%	5.33%	8.74%	9.19%
75-84	2.27%	3.27%	4.52%	4.79%	6.72%	12.56%
85+	0.62%	1.05%	1.52%	2.09%	2.51%	3.78%
65+	7.51%	8.61%	8.60%	9.40%	13.60%	17.01%

Notes and Sources:

¹Population figures for 1980, 1990, and 2000 are from the US Census

²Adjusted Migration Projections from the NC Office of Budget, Planning and Management, Demographic Section

C2f) Figure: Orange County Population Projections for Persons 65 and Older

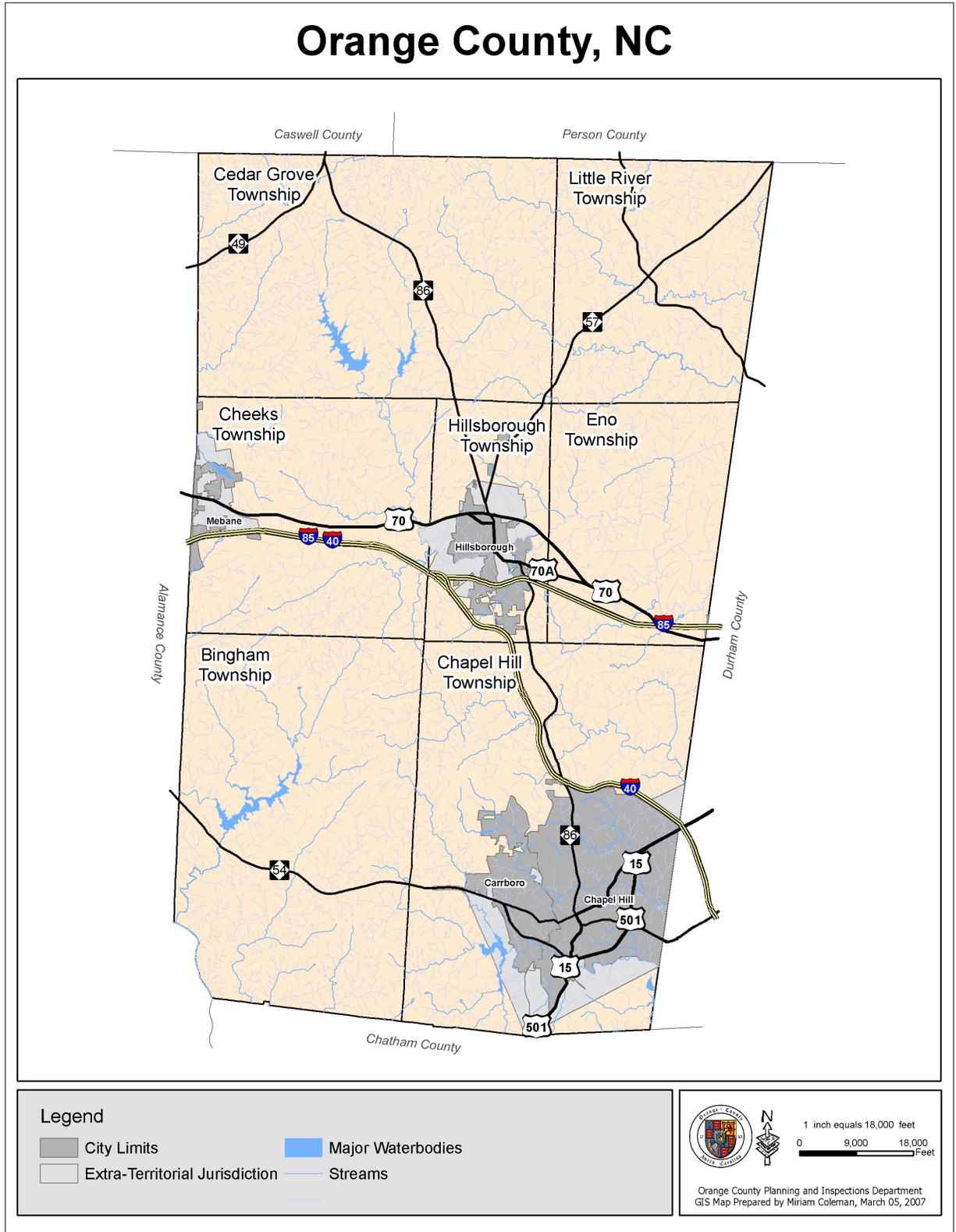


Source: NC Office of Budget, Planning, and Management, Demographics Unit, Adjusted Migration Model



Section D: Maps

D1. Orange County, North Carolina

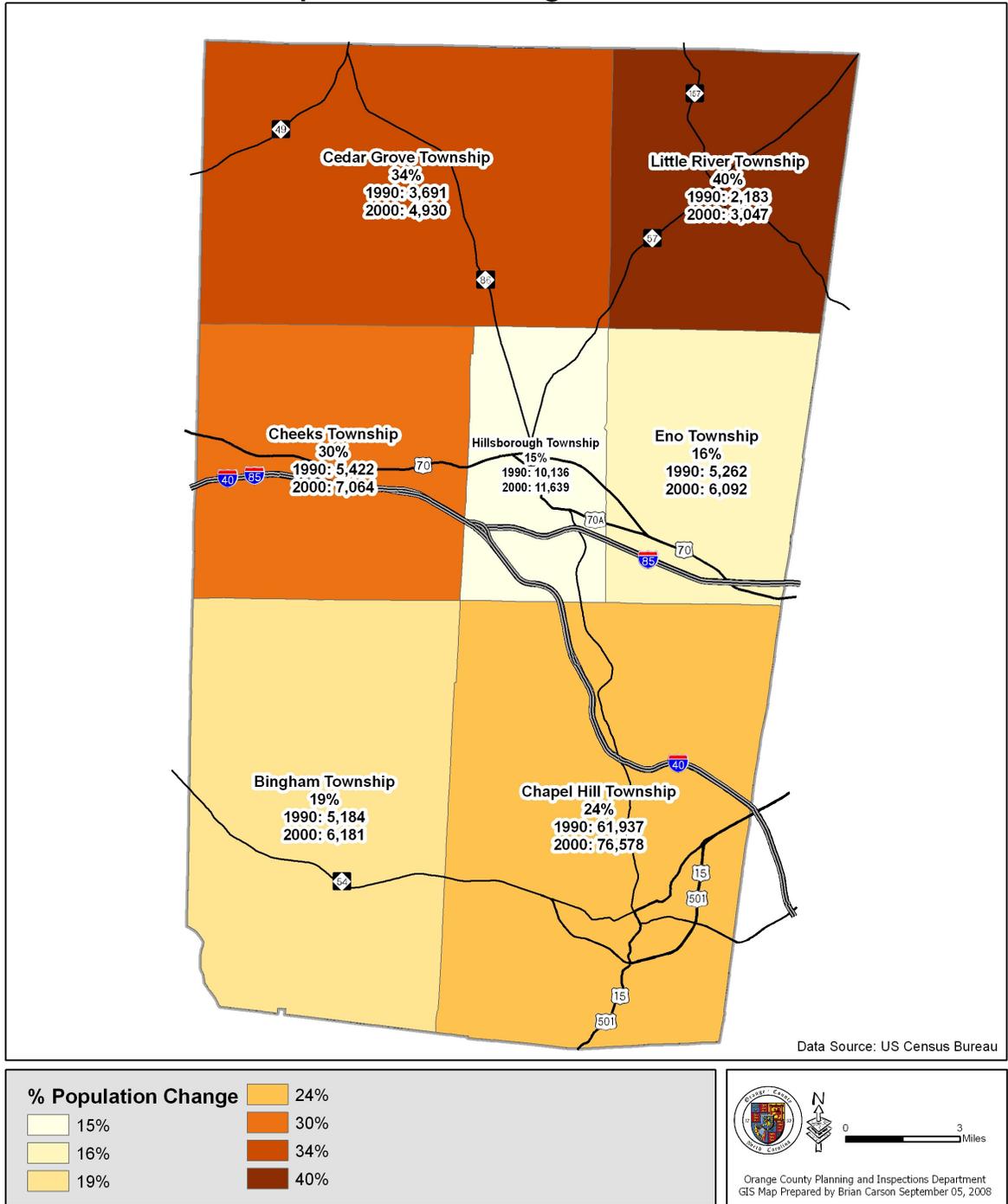




Section D: Maps

D2. Orange County Population Change, 1990-2000

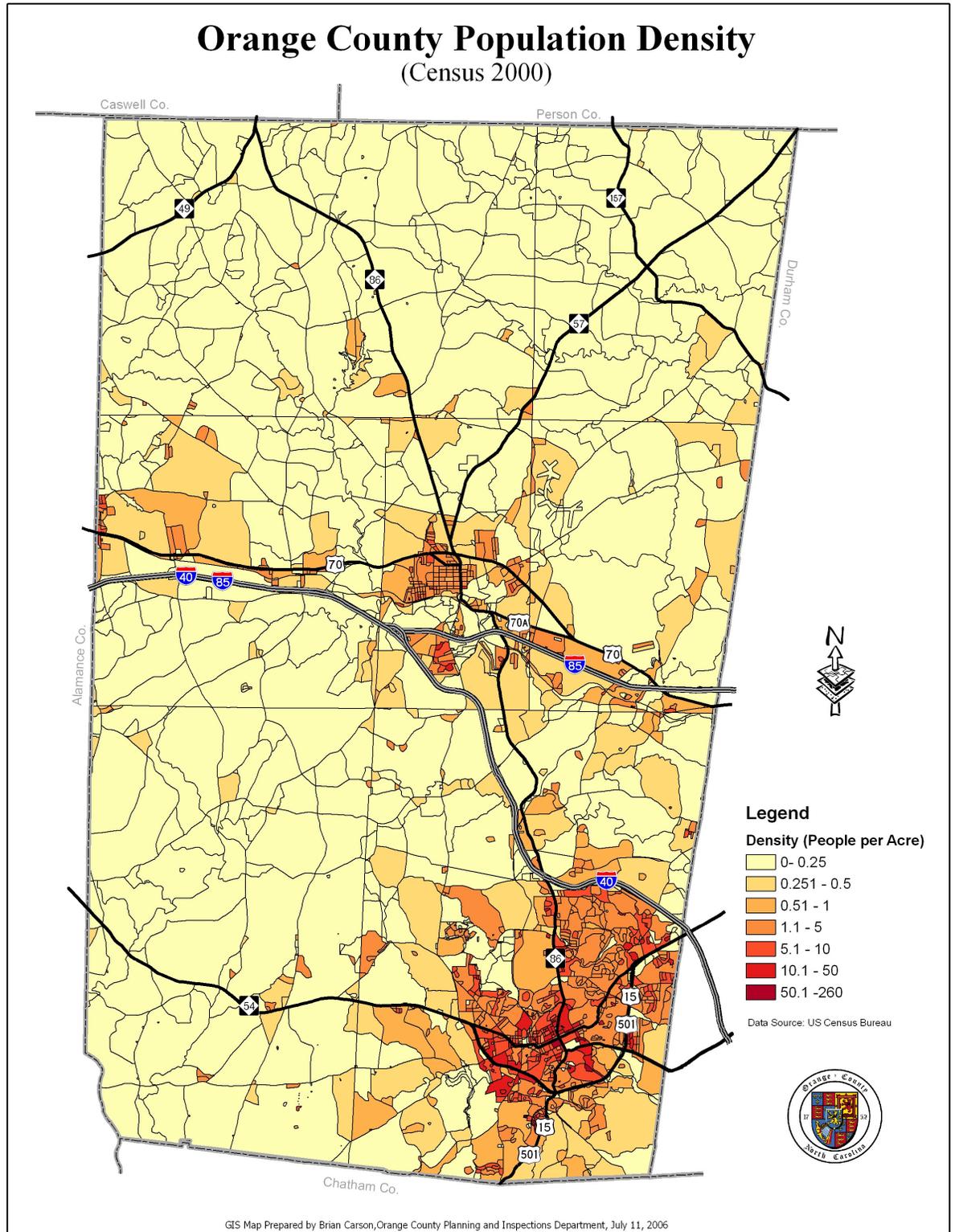
Orange County
% Population Change 1990 - 2000





Section D: Maps

D3. Orange County Population Density, 2000

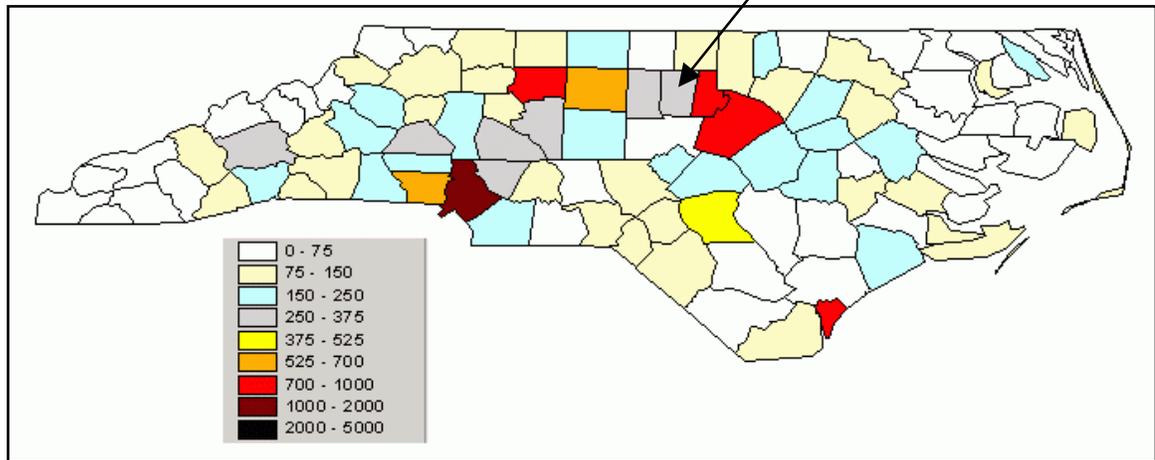




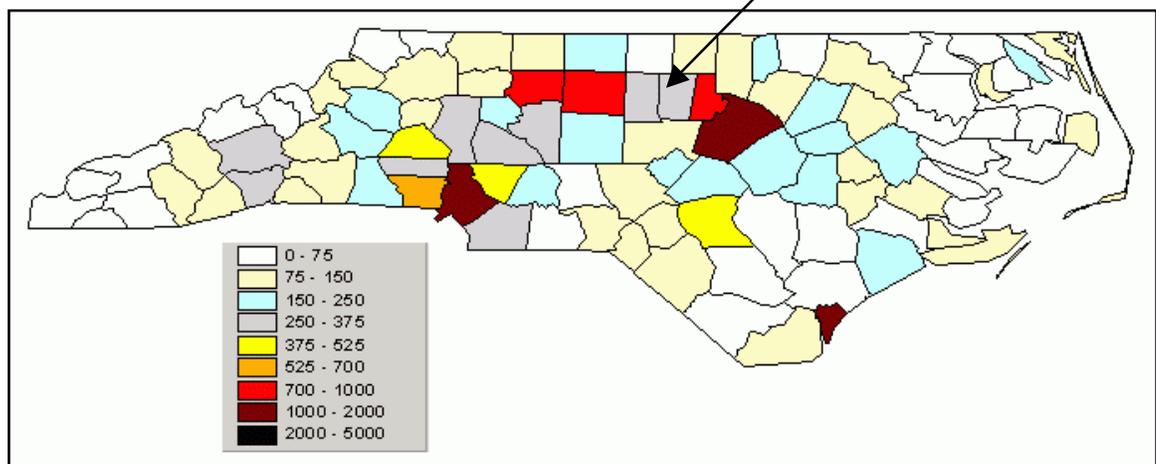
Section D: Maps

D4. Population Density Trends, North Carolina Shaded by County, 2000-2010

APRIL 2000 POPULATION DENSITY



APRIL 2010 POPULATION DENSITY



Source: NC Office of Budget, Planning and Management, Demographics Section

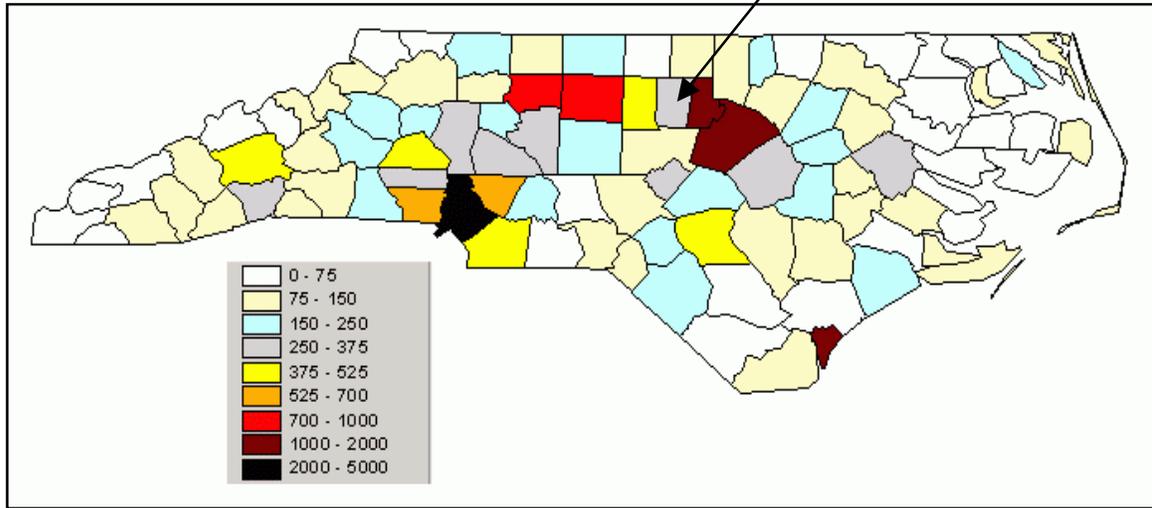


Section D: Maps

D5. Population Density Trends, North Carolina Shaded by County, 2020-2030

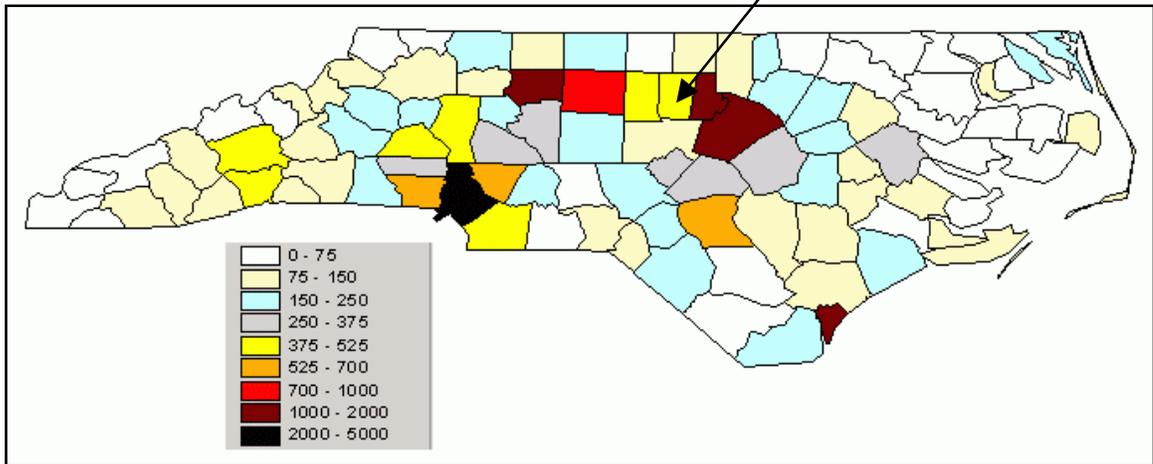
APRIL 2020 POPULATION DENSITY

Orange County



APRIL 2030 POPULATION DENSITY

Orange County



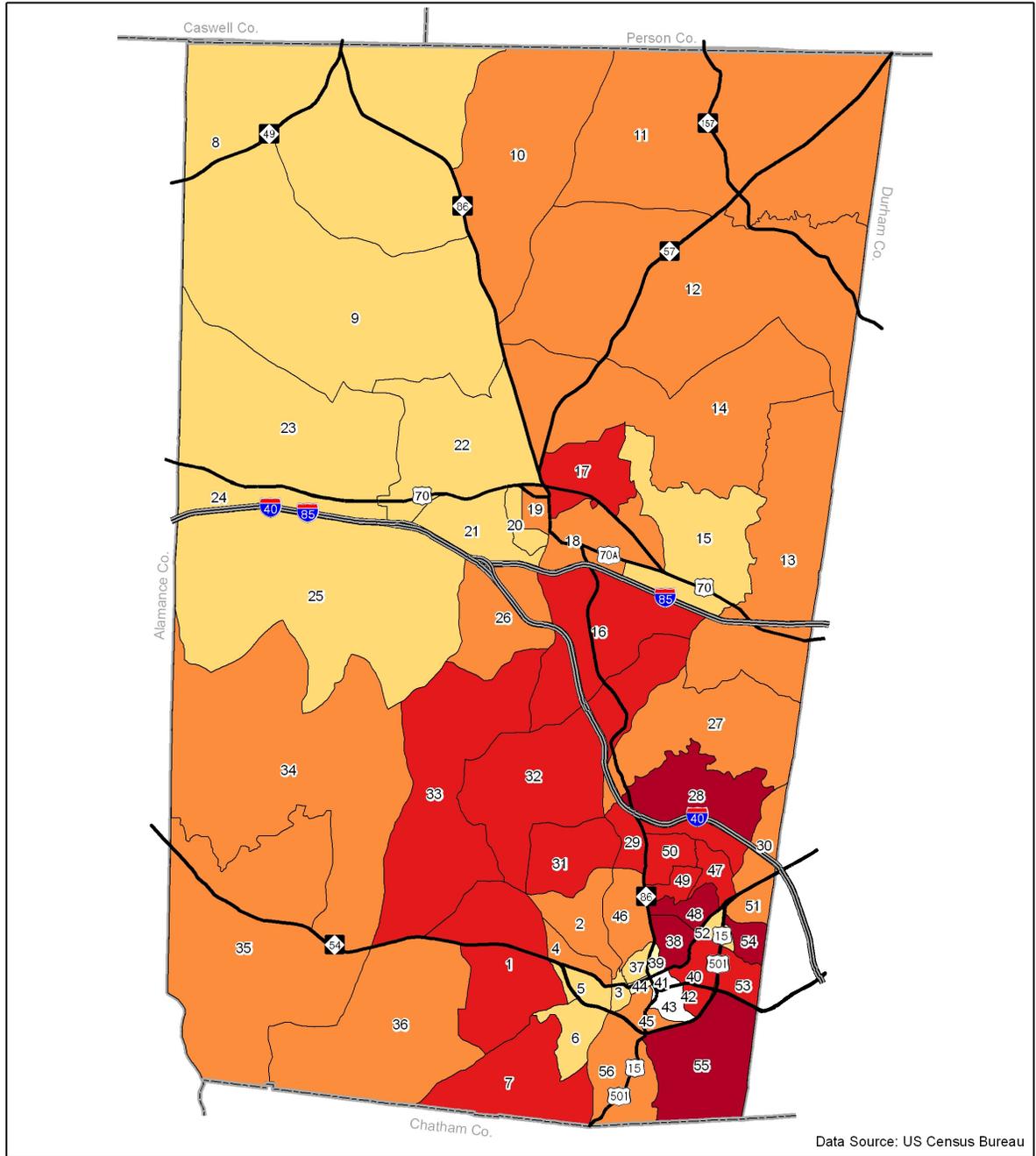
Source: NC Office of Budget, Planning and Management, Demographics Section



Section D: Maps

D6. Orange County Per Capita Income, 2000

Orange County Per Capita Income
(Census 2000)



Data Source: US Census Bureau

Per Capita Income (1999)	Color
4,520 - 10,700	Light Yellow
10,701 - 21,058	Yellow
21,059 - 28,224	Light Orange
28,225 - 38,446	Red
38,447 - 57,666	Dark Red



0 1 2 3 Miles

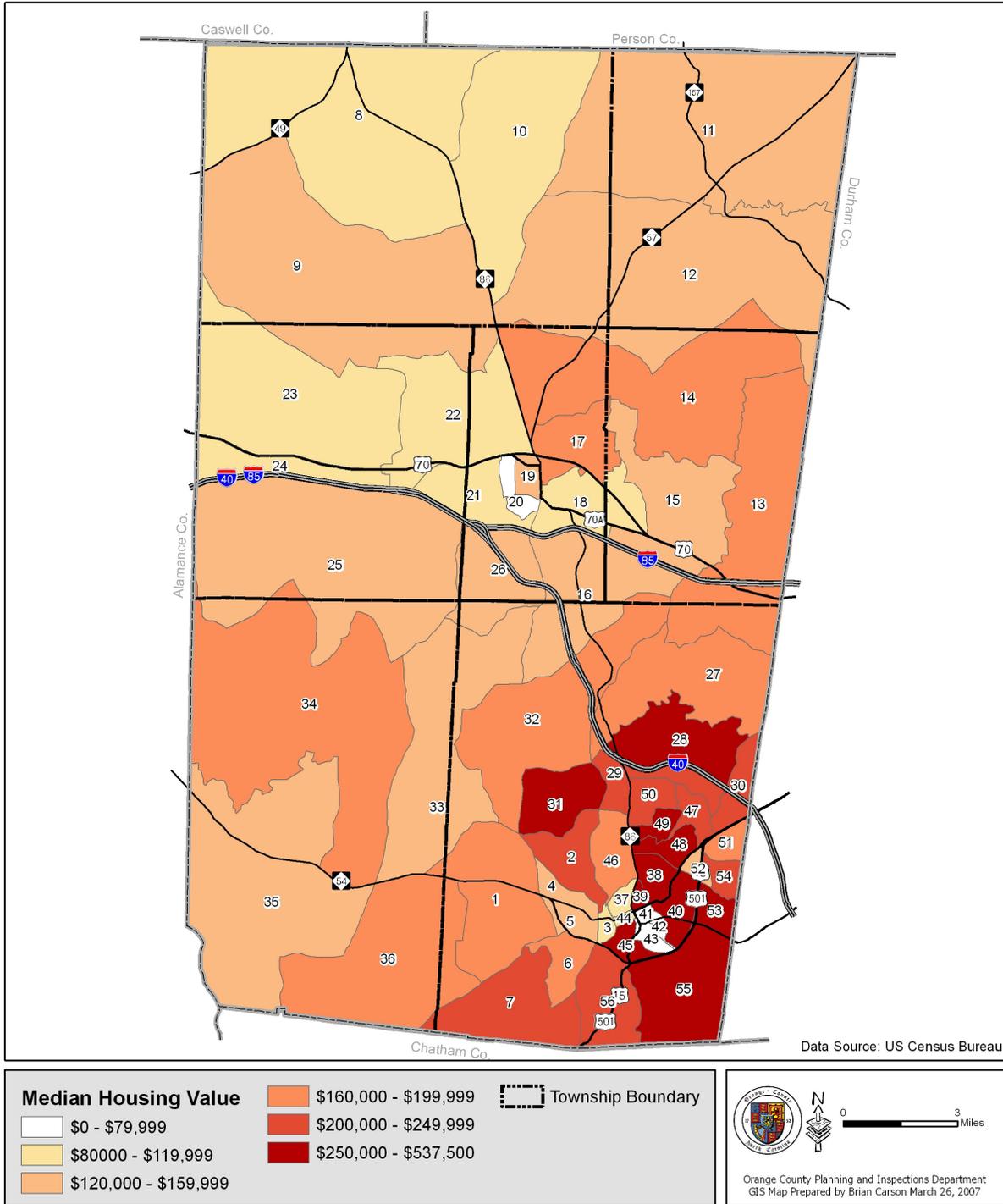
Orange County Planning and Inspections Department
GIS Map Prepared by Brian Carson July 11, 2006



Section D: Maps

D7. Orange County Median Housing Value, 2000

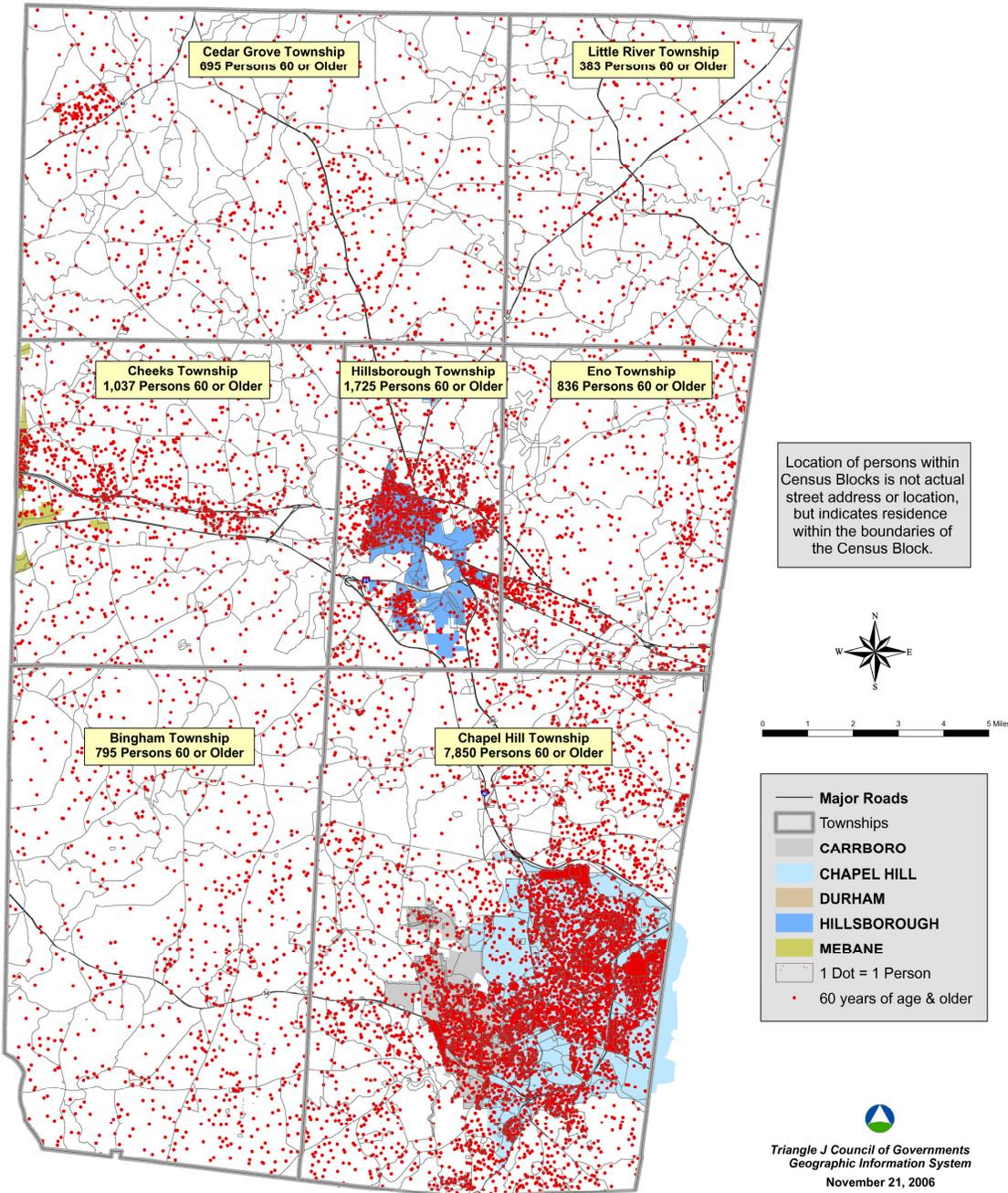
Orange County Median Housing Value for Owner Occupied Housing Units (Census 2000)





D8. Orange County Population 65+, 2000

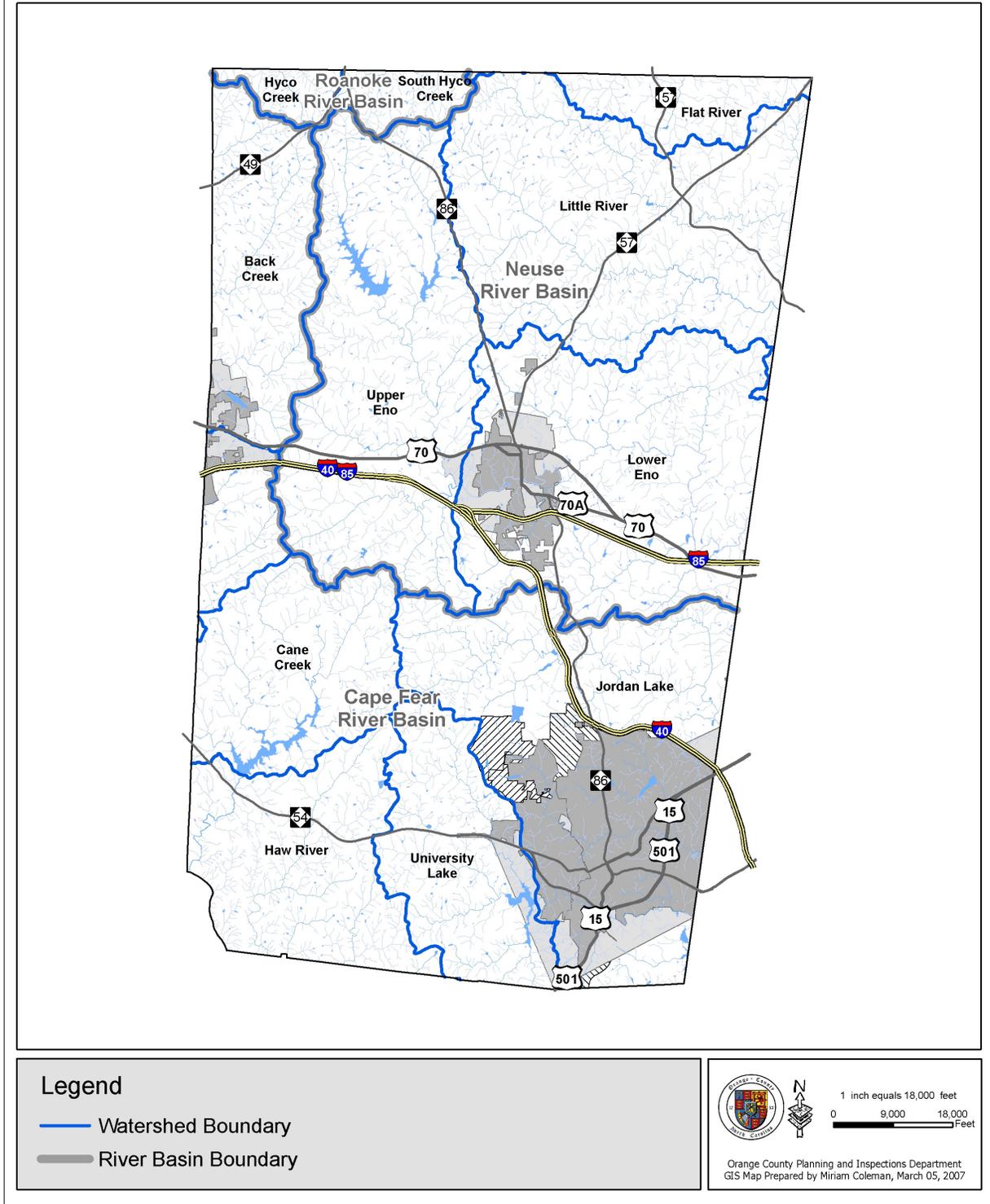
Orange County, NC Census 2000 Blocks
Distribution of Persons 60 Years of Age and Older





D9. Orange County Watersheds and River Basins

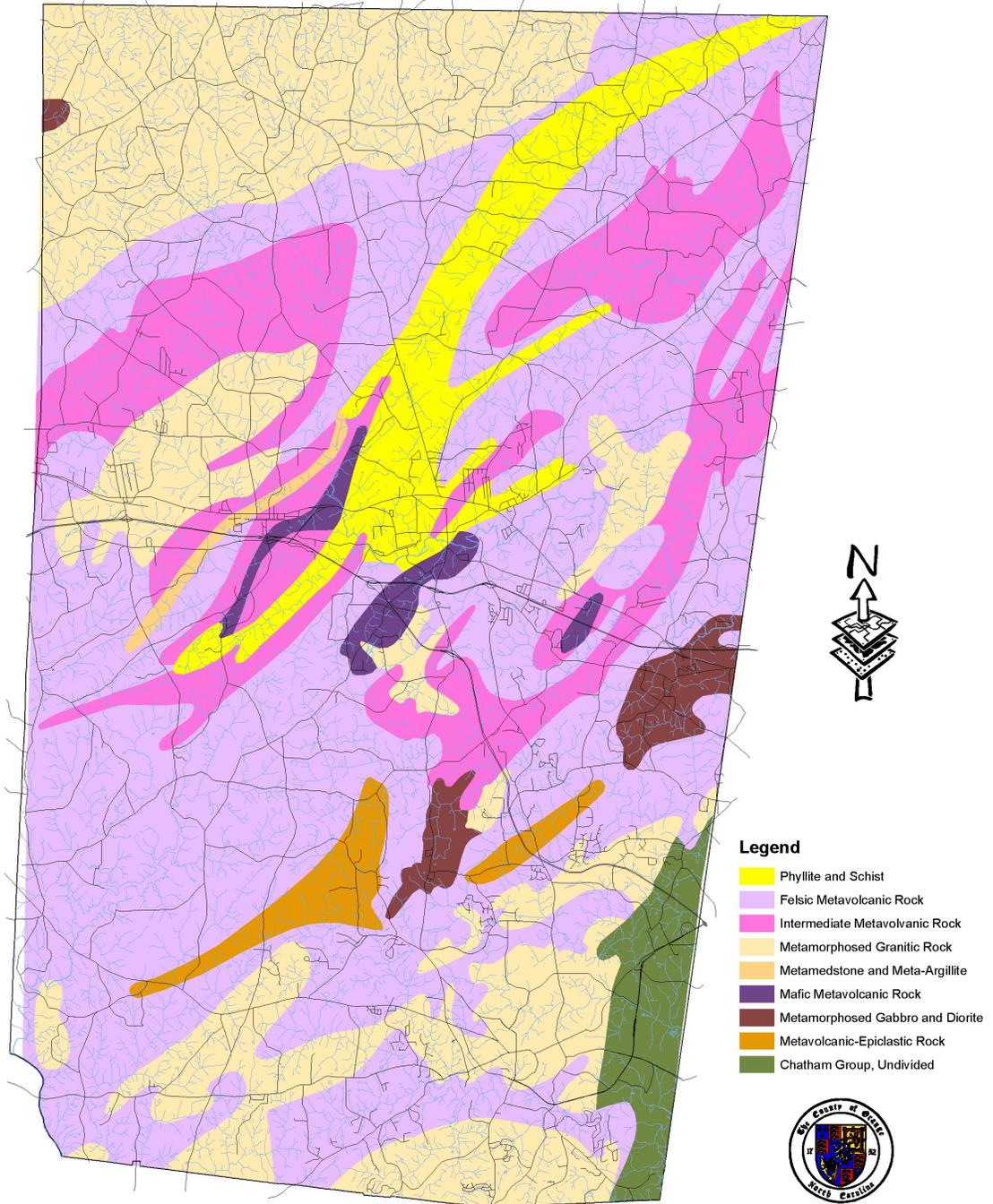
Orange County Watersheds





D10. Orange County Geology

Geology



Legend

- Phyllite and Schist
- Felsic Metavolcanic Rock
- Intermediate Metavolcanic Rock
- Metamorphosed Granitic Rock
- Metasedstone and Meta-Argillite
- Mafic Metavolcanic Rock
- Metamorphosed Gabbro and Diorite
- Metavolcanic-Epiclastic Rock
- Chatham Group, Undivided

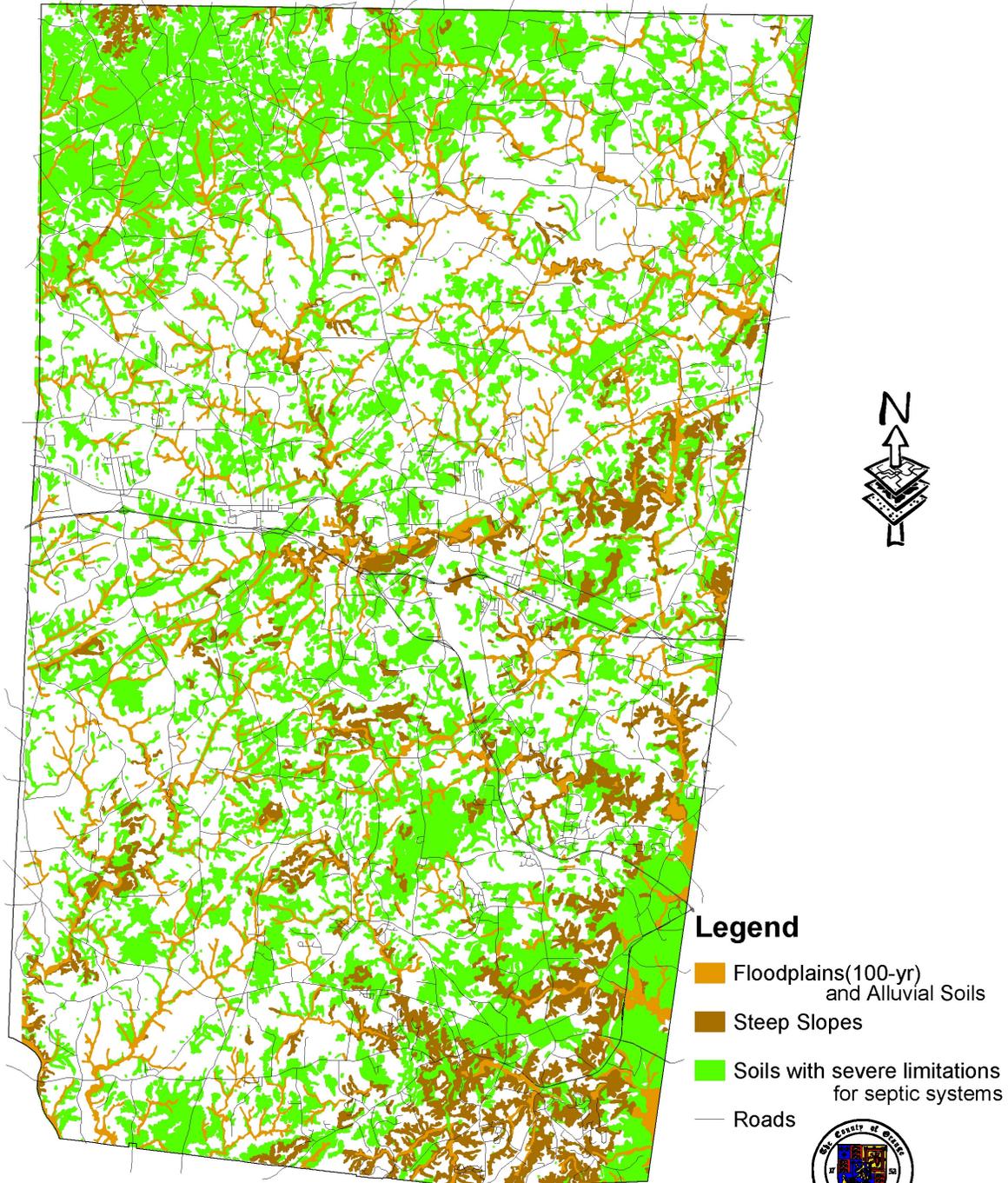


GIS map prepared by Miriam Coleman, Orange County Planning Department, October 19, 2004



D11. Orange County Development Constraints

Development Constraints



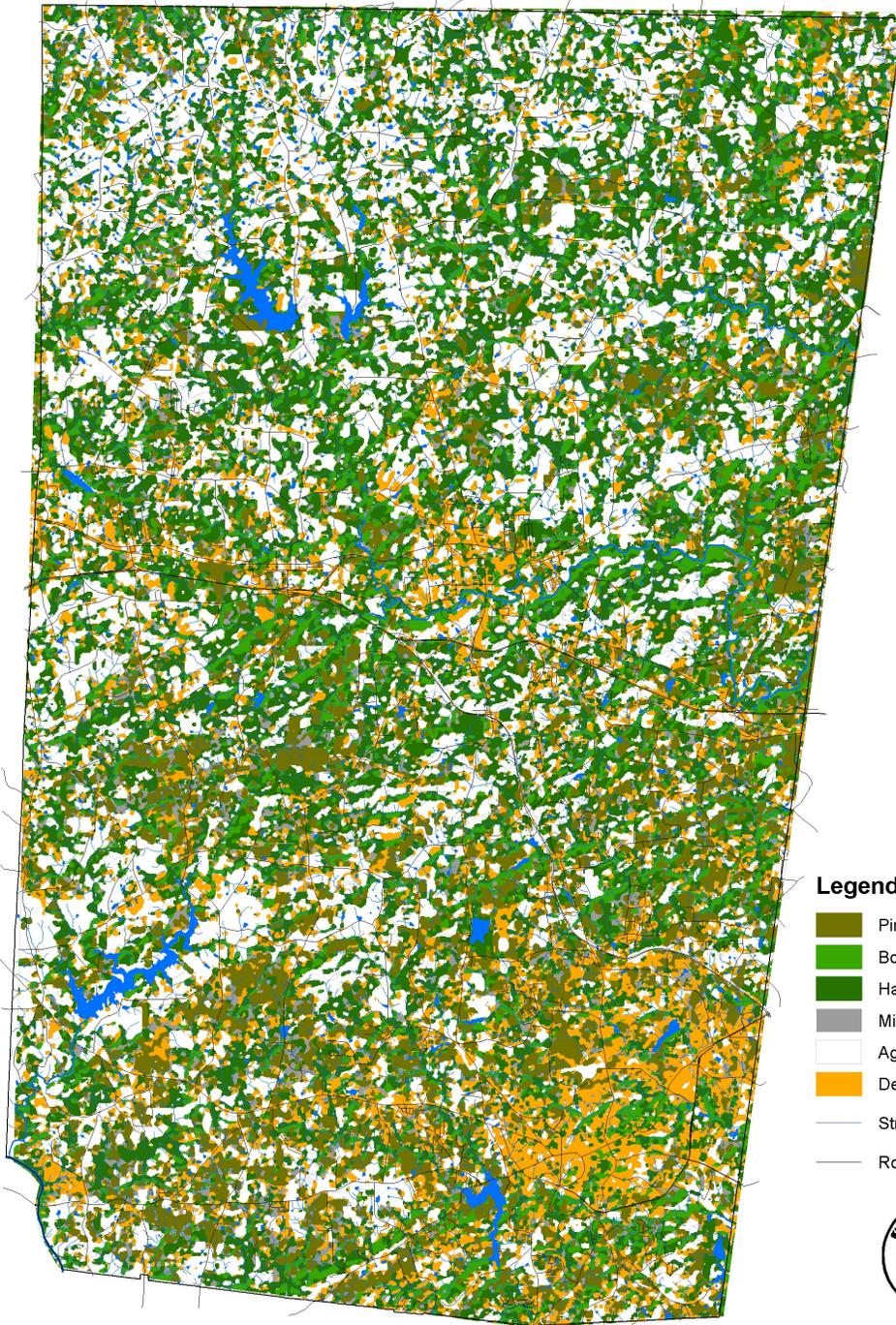
GIS map prepared by Miriam Coleman, Orange County Planning Department, November 11, 2004





D12. Orange County Vegetation

Vegetation



Legend

-  Pine
-  Bottomland Hardwood
-  Hardwood
-  Mixed Pine/Hardwood
-  Agriculture and Open Fields
-  Developed areas
-  Streams
-  Roads

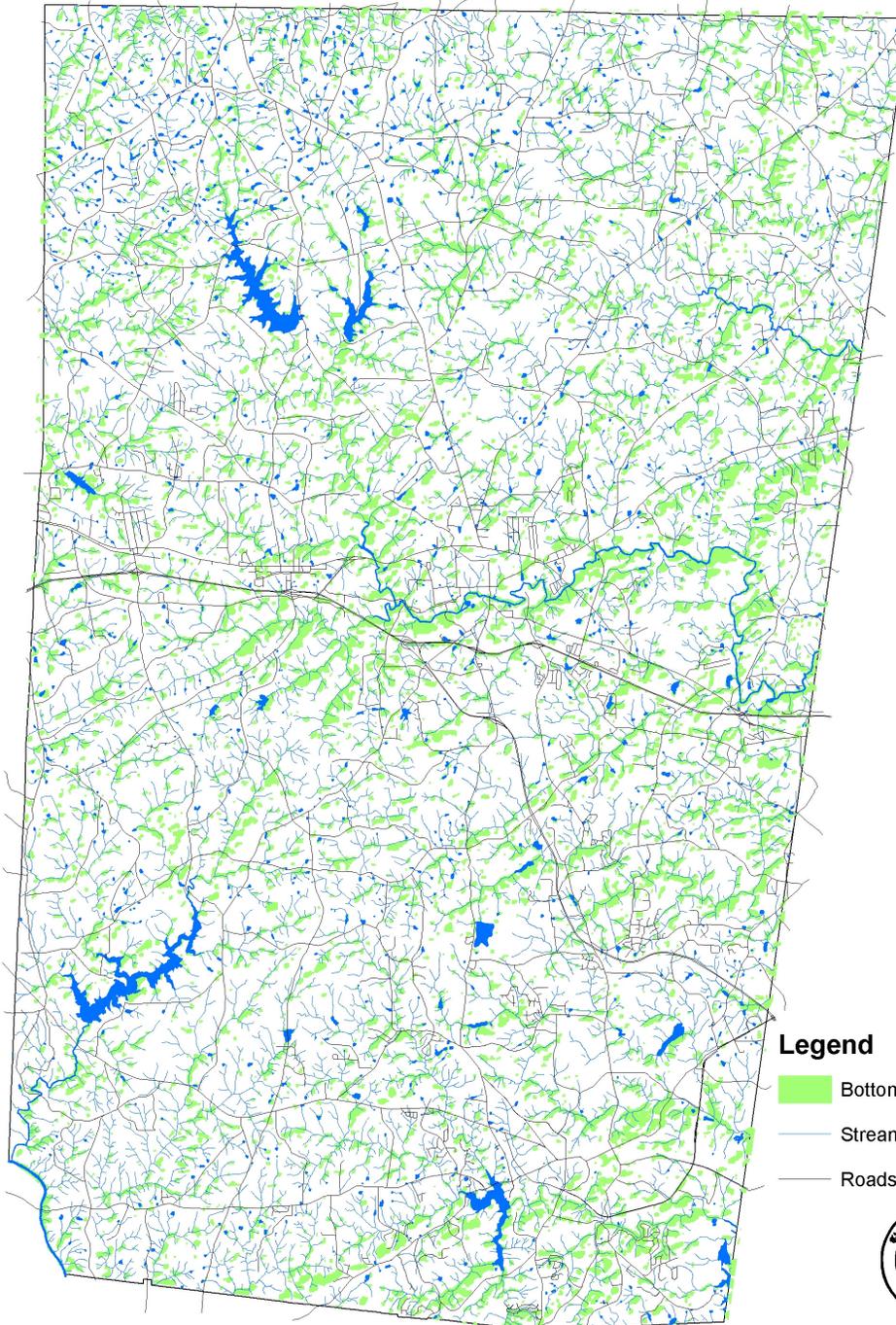


GIS map prepared by Miriam Coleman, Orange County Planning Department, November 11, 2004



D13. Orange County Wetlands

Wetlands



Legend

-  Bottomland Hardwood Forest
-  Streams
-  Roads

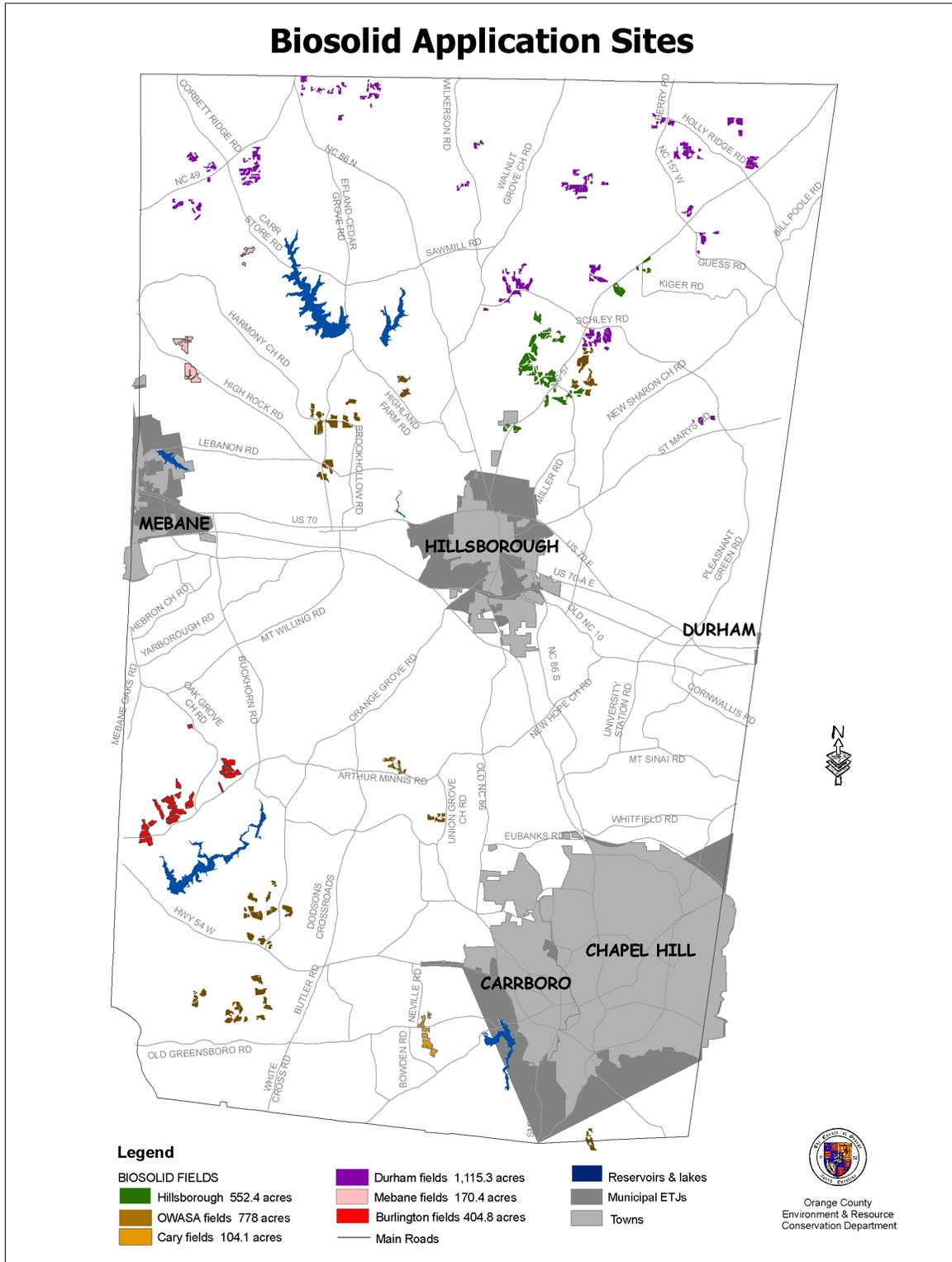


GIS map prepared by Miriam Coleman, Orange County Planning Department, November 8, 2004



Section D: Maps

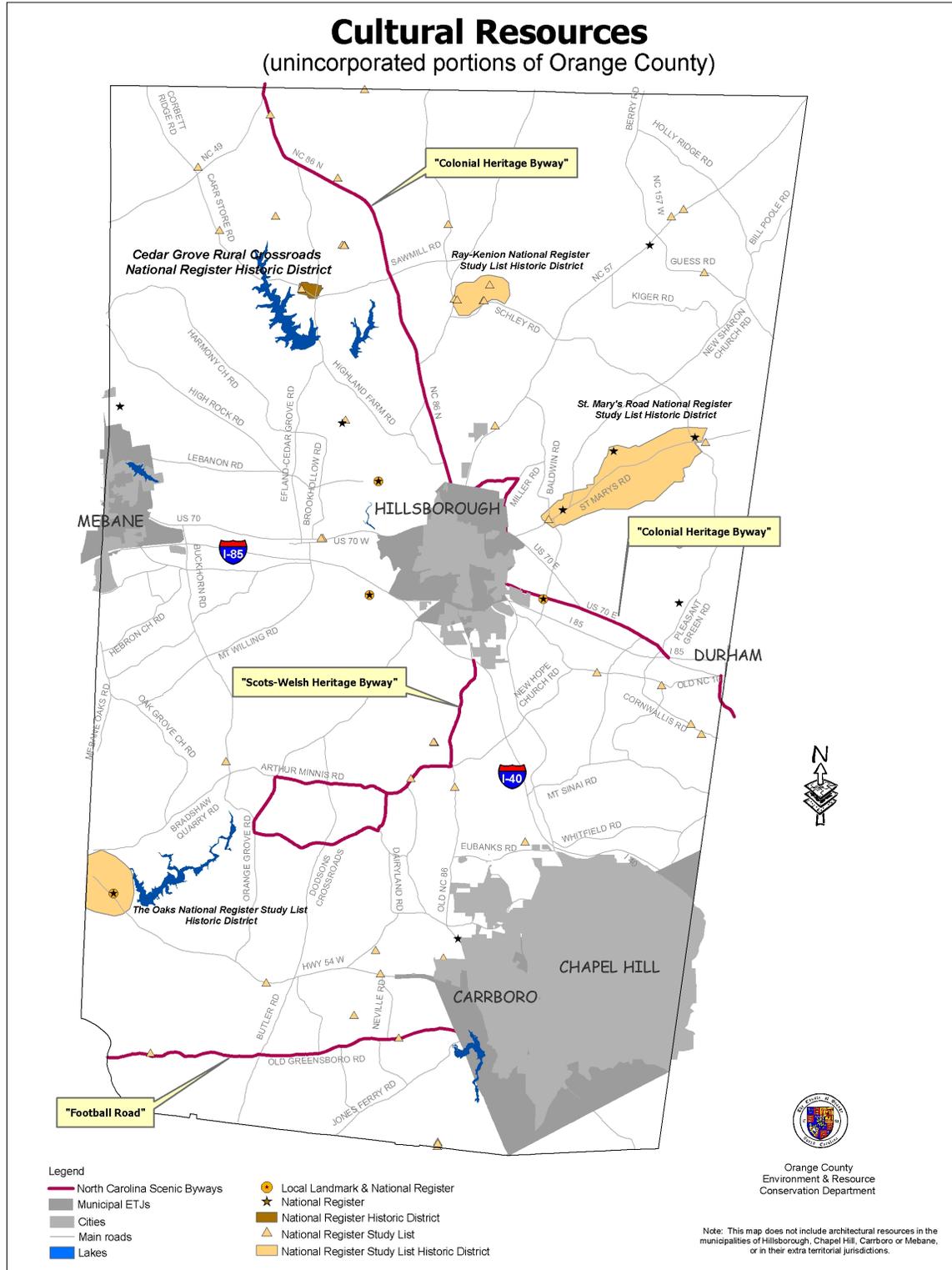
D14. Orange County Biosolid Application Sites





Section D: Maps

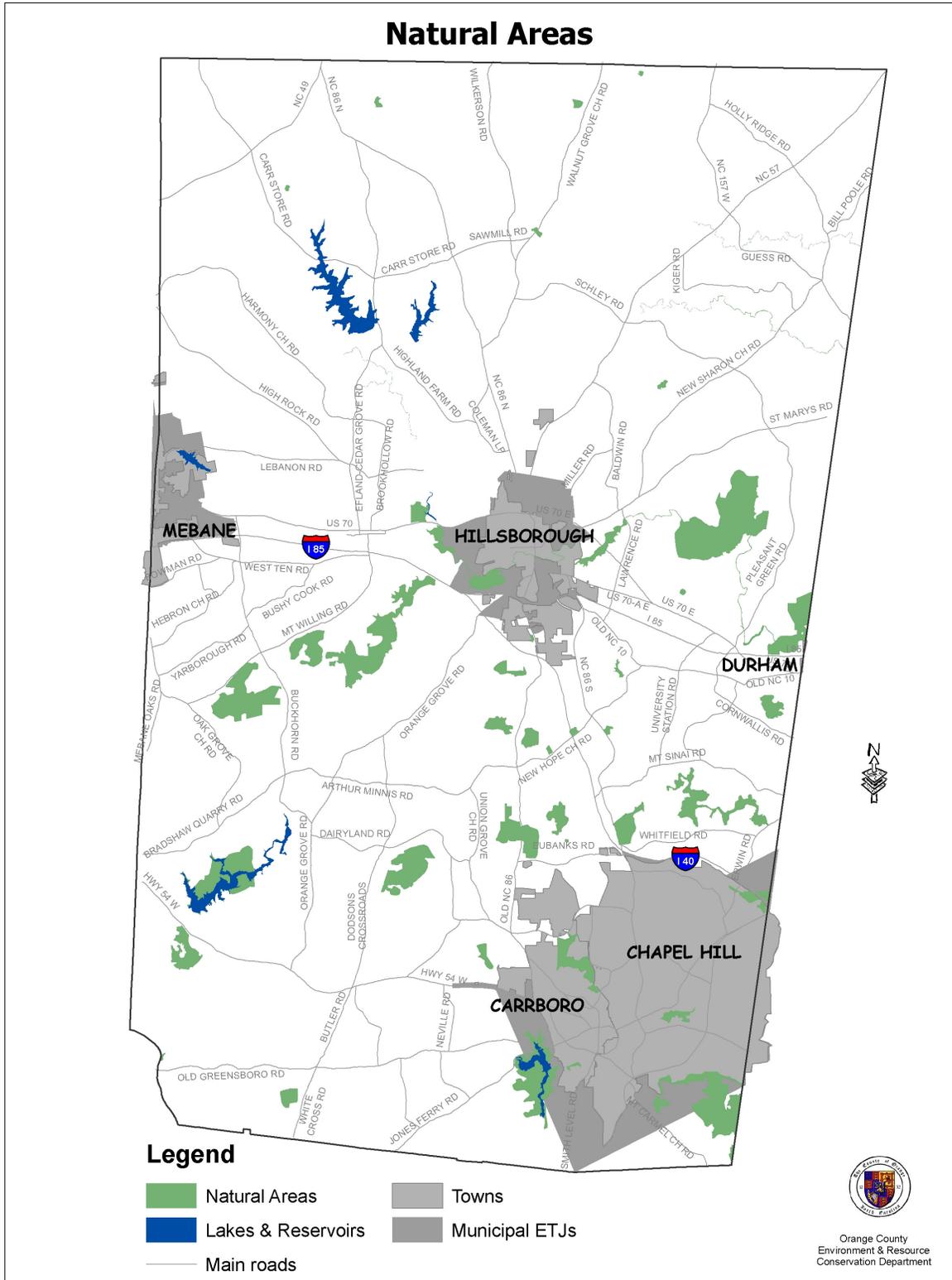
D15. Orange County Cultural Resources





Section D: Maps

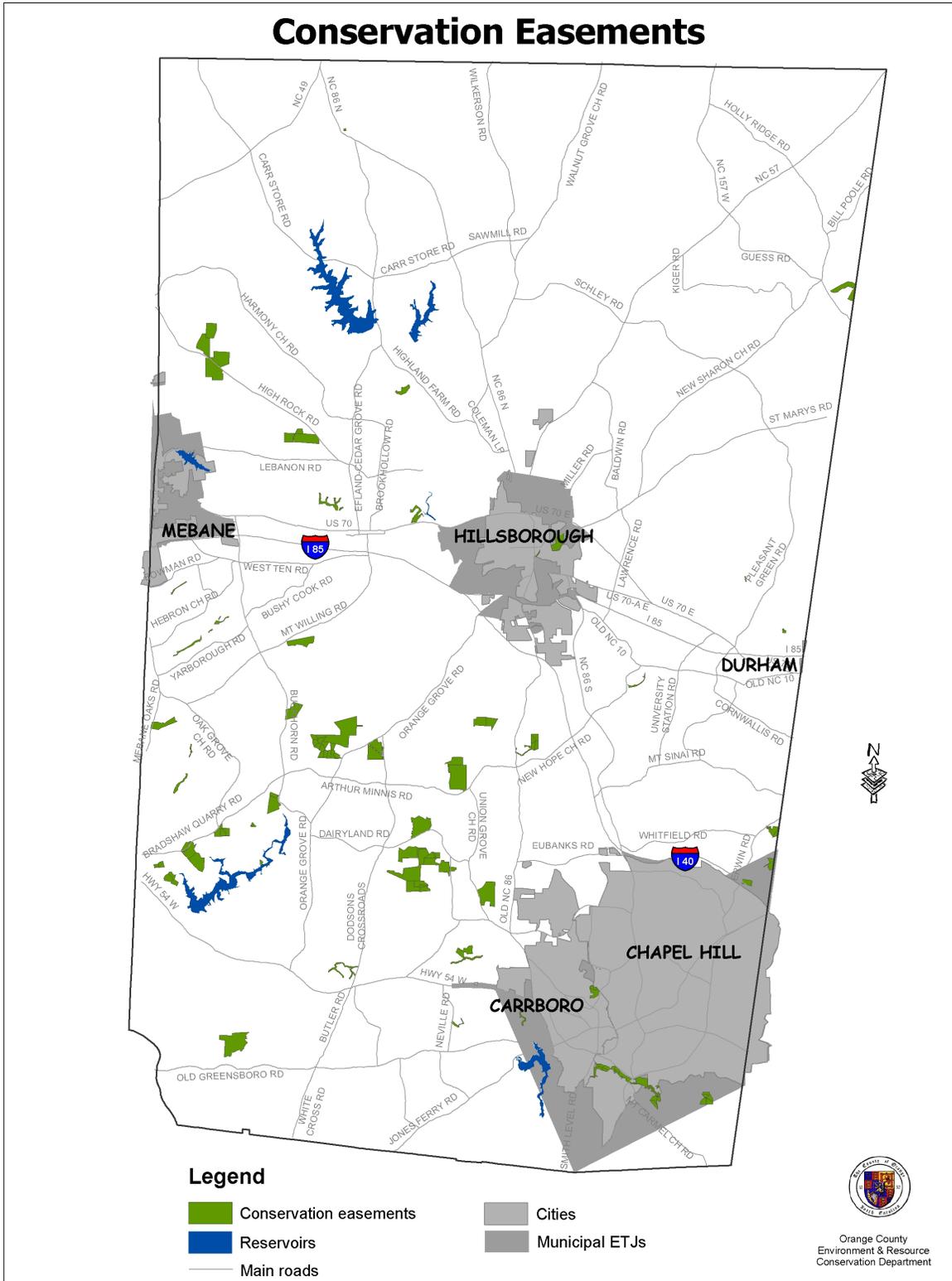
D16. Orange County Natural Areas





Section D: Maps

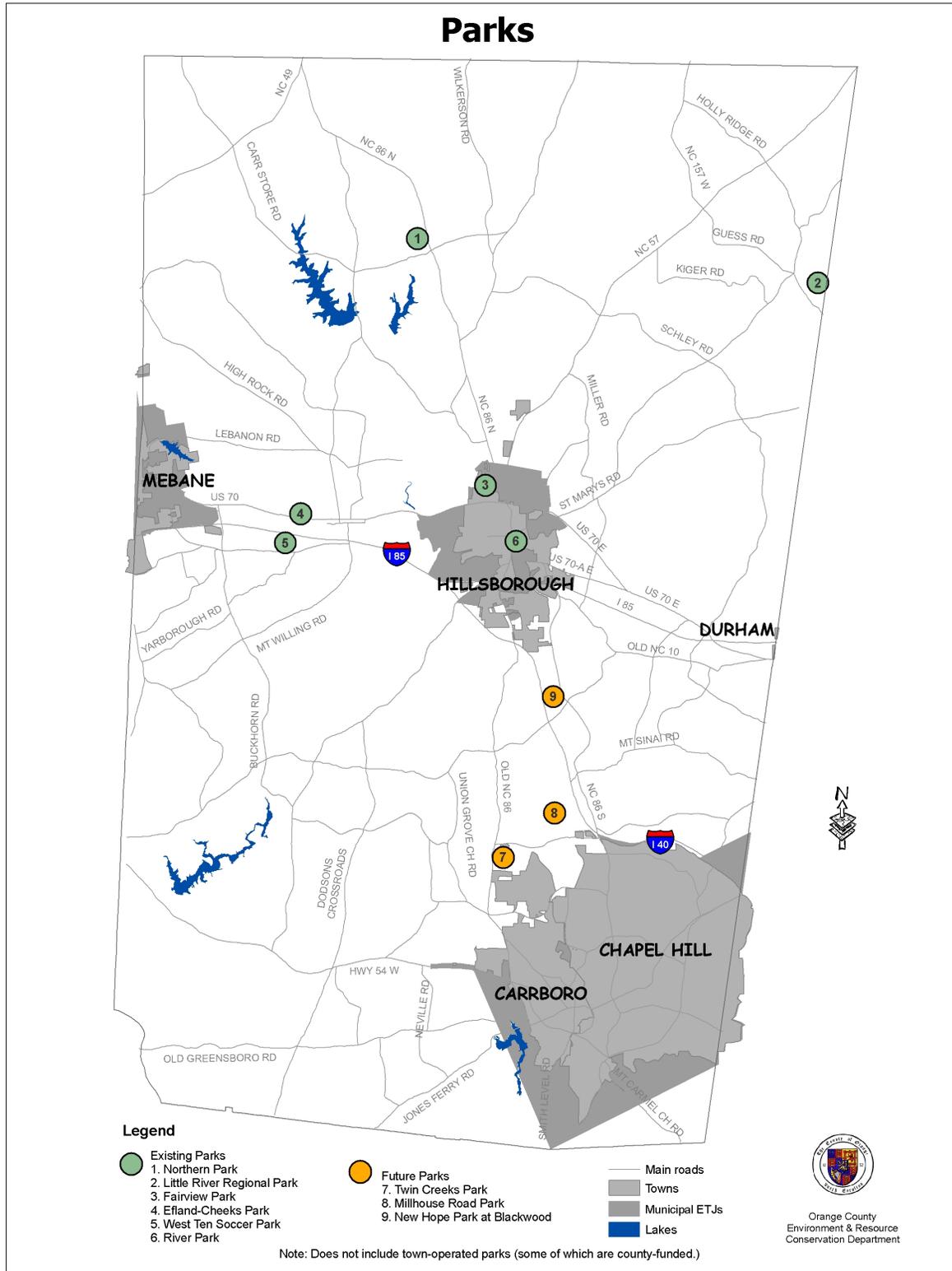
D17. Orange County Conservation Easements





Section D: Maps

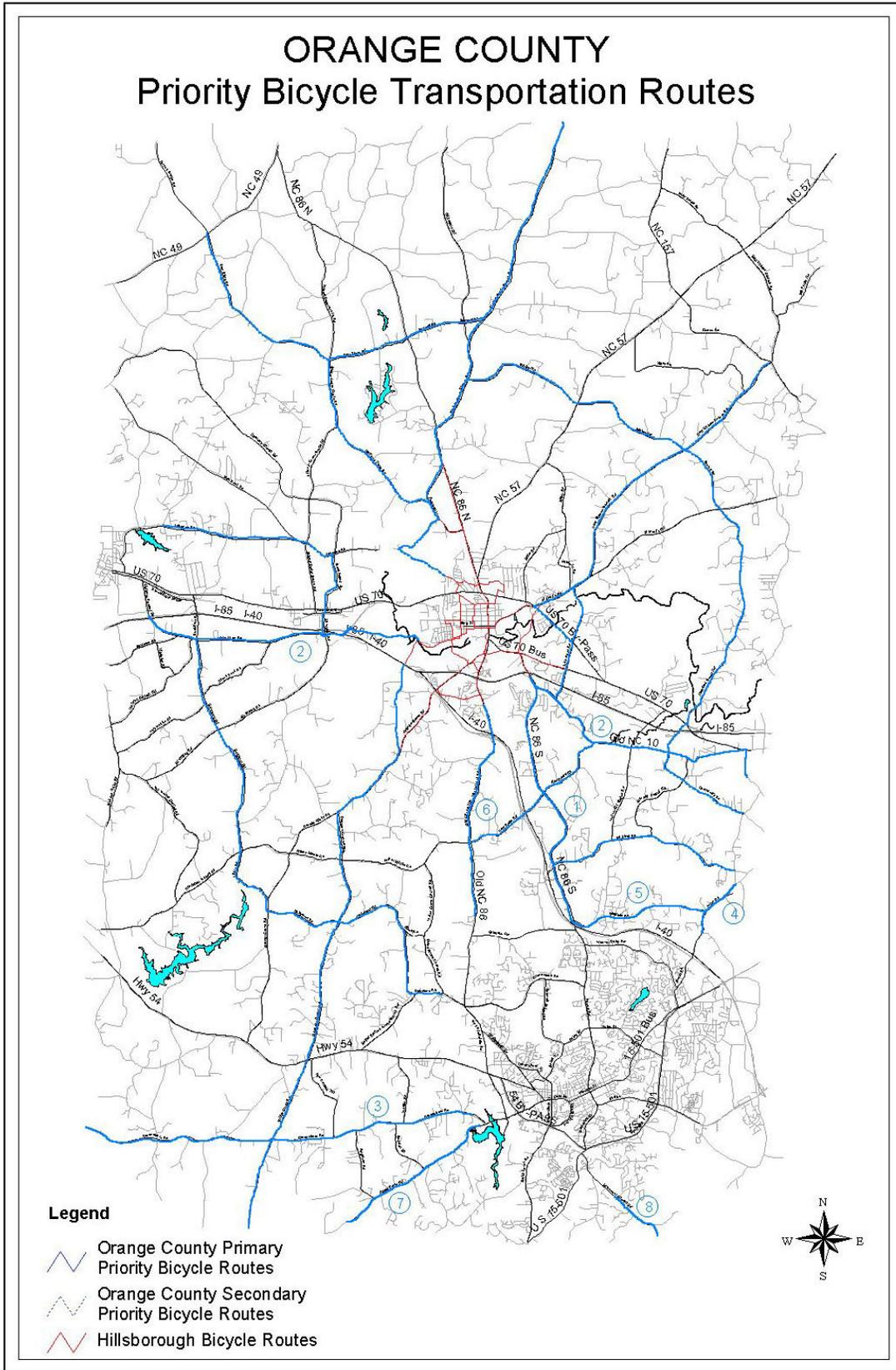
D18. Orange County Parks





Section D: Maps

D19. Orange County Bicycle Routes





Section D: Maps

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