

**POPULATION COUNTS AND NON-ADJUSTED PROJECTIONS 1990 TO 2050
FOR ORANGE COUNTY TOWNSHIPS AND MUNICIPALITIES**

Prepared by the Orange County Planning and Inspections Department, April 2011

The 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.

TOWNSHIP Municipality	POPULATION ¹				AVG 10-YEAR GROWTH RATE ²	POPULATION PROJECTIONS ³			
	1980	1990	2000	2010		2020	2030	2040	2050
BINGHAM	3,954	5,184	6,181	6,527	0.123	7,330	8,231	9,244	10,381
CEDAR GROVE	3,166	3,691	4,930	5,222	0.2	6,266	7,520	9,024	10,828
CHAPEL HILL	50,572	61,973	76,578	87,971	0.194	105,037	125,415	149,745	178,796
Town of Carrboro	7,517	12,134	16,782	19,582	0.275	24,967	31,833	40,587	51,749
Town of Chapel Hill ⁴	32,038	37,596	44,102	54,397	0.203	65,440	78,724	94,705	113,930
Unincorporated	11,017	12,243	15,694	13,992	-	14,631	14,858	14,453	13,117
CHEEKS	4,821	5,422	7,064	9,313	0.309	12,191	15,958	20,889	27,343
City of Mebane ⁴	379	485	675	1,793	1.204	3,952	8,710	19,196	42,308
Unincorporated	4,442	4,937	6,389	7,520	-	8,239	7,248	1,692	(14,965)
ENO	4,450	5,262	6,092	7,501	0.196	8,971	10,730	12,833	15,348
HILLSBOROUGH	8,599	10,136	11,639	13,809	0.168	16,129	18,839	22,003	25,700
Town of Hillsborough	3,019	4,263	5,446	6,087	0.198	7,292	8,736	10,466	12,538
Unincorporated	5,580	5,873	6,193	7,722	-	8,837	10,102	11,538	13,162
LITTLE RIVER	1,493	2,183	3,047	3,458	0.267	4,381	5,551	7,033	8,911
TOTAL COUNTY	77,055	93,851	115,531	133,801	N/A	160,306	192,243	230,770	277,307

Notes and Sources:

1 The Population figures for 1980, 1990, 2000, and 2010 are from the US Census.

2 The Average 10-Year Growth Rate is the average between the 1990 to 2000 and 2000 to 2010 growth rates.

3 The Township and Municipality Population Projections for 2020 to 2050 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 (i.e. for Bingham Township from 2010 to 2020: $6,527 \times .123 = 803$; $803 + 6,527 = 7,330$). The Population Projections for the Unincorporated areas in Townships with Municipalities was determined by subtracting the Municipal populations from the total population for the Township. The Population Projections for the County from 2020 to 2050 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.

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SUPPORTING DOCUMENTATION

TOWNSHIP	POPULATION			10-YEAR GROWTH RATES		
	1990	2000	2010	1990-2000	2000-2010	AVERAGE
Bingham	5,184	6,181	6,527	0.19	0.06	0.123
Cedar Grove	3,691	4,930	5,222	0.34	0.06	0.200
Chapel Hill	61,973	76,578	87,971	0.24	0.15	0.194
Cheeks	5,422	7,064	9,313	0.30	0.32	0.309
Eno	5,262	6,092	7,501	0.16	0.23	0.196
Hillsborough	10,136	11,639	13,809	0.15	0.19	0.168
Little River	2,183	3,047	3,458	0.40	0.13	0.267
TOTAL COUNTY	93,851	115,531	133,801	0.23	0.16	0.194

MUNICIPALITY	POPULATION			10-YEAR GROWTH RATES		
	1990	2000	2010	1990-2000	2000-2010	AVERAGE
Town of Carrboro	12,134	16,782	19,582	0.383	0.167	0.275
Town of Chapel Hill	37,596	44,102	54,397	0.173	0.233	0.203
City of Mebane	485	675	1,793	0.392	1.656	1.024
Town of Hillsborough	4,263	5,446	6,087	0.278	0.118	0.198

Notes and Sources:

- The Population figures for 1980, 1990, 2000, and 2010 are from the US Census.
- The Average 10-Year Growth Rate is the average between the 1990 to 2000 and 2000 to 2010 growth rates.

Linear Population Projections based on 1990-2010 Census:

TOWNSHIP Municipality	POPULATION				Average Increment	POPULATION PROJECTIONS			
	1980	1990	2000	2010		2020	2030	2040	2050
BINGHAM	3,954	5,184	6,181	6,527	672	7,199	7,870	8,542	9,213
CEDAR GROVE	3,166	3,691	4,930	5,222	766	5,988	6,753	7,519	8,284
CHAPEL HILL	50,572	61,973	76,578	87,971	12,999	100,970	113,969	126,968	139,967
Town of Carrboro	7,517	12,134	16,782	19,582	3,724	23,306	27,030	30,754	34,478
Town of Chapel Hill	32,038	37,596	44,102	54,397	8,401	62,798	71,198	79,599	87,999
Unincorporated	11,017	12,243	15,694	13,992	875	14,867	15,741	16,616	17,490
CHEEKS	4,821	5,422	7,064	9,313	1,946	11,259	13,204	15,150	17,095
City of Mebane	379	485	675	1,793	654	2,447	3,101	3,755	4,409
Unincorporated	4,442	4,937	6,389	7,520	1,292	8,812	10,103	11,395	12,686
ENO	4,450	5,262	6,092	7,501	1,120	8,621	9,740	10,860	11,979
HILLSBOROUGH	8,599	10,136	11,639	13,809	1,837	15,646	17,483	19,320	21,157
Town of Hillsborough	3,019	4,263	5,446	6,087	912	6,999	7,911	8,823	9,735
Unincorporated	5,580	5,873	6,193	7,722	925	8,647	9,571	10,496	11,420
LITTLE RIVER	1,493	2,183	3,047	3,458	638	4,096	4,733	5,371	6,008
TOTAL COUNTY	77,055	93,851	115,531	133,801	19,976	153,777	173,752	193,728	213,703
Total Incorporated	42,953	54,478	67,005	81,859	13,691	95,550	109,240	122,931	136,621
Total Unincorporated	34,102	39,373	48,526	51,942	6,285	58,227	64,511	70,796	77,080

NOTE: Durham City comprises two small areas of Orange County, one each in Eno and Chapel Hill Townships. The total population of both areas is 30 people. These people were included in their respective township totals.

Linear methodology:

Formula: $P_{t+n} = P_t + bn$

where P_t = population in base year t;

P_{t+n} = projected population size at a future year, n units of time beyond base year t;

b = average increment of change in population size per unit of time; and

n = the number of time periods beyond base year t

The average increments were obtained by subtracting 1990 from 2000 and 2000 from 2010 and dividing the sum of by 2.

Example: $((2000-1990) + (2020-2000))/2$. The projections were done by adding the average increment (row 9) to the 2010 data (row 7) and multiplying the result by the difference in the projection year and the most recent year of data (row 7), then dividing that result by 10 (10 year projection increments). Example: $3,458 + (655 * (2020-2010)/10)$

Methodology taken from URBAN LAND USE PLANNING (p.125) found in Planning library.

Note: The 2000 population numbers for the Town of Chapel Hill, Chapel Hill Twp and Orange County have been corrected by the U.S. Census Bureau. This worksheet reflects those changes.