

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.