

Linear Population Projections based on 1980-2000 Census:

TOWNSHIP Municipality	POPULATION			Average Increment	POPULATION PROJECTIONS			
	1980	1990	2000		2010	2020	2030	2040
BINGHAM	3,954	5,184	6,181	1,114	7,295	8,409	9,523	10,637
CEDAR GROVE	3,166	3,691	4,930	882	5,812	6,694	7,576	8,458
CHAPEL HILL	50,572	61,973	76,578	13,003	89,581	102,584	115,587	128,590
Town of Carrboro	7,517	12,134	16,782	4,633	21,415	26,048	30,681	35,314
Town of Chapel Hill	32,038	37,596	44,102	6,032	50,134	56,166	62,198	68,230
Unincorporated	11,017	12,243	15,694	2,339	18,033	20,372	22,711	25,050
CHEEKS	4,821	5,422	7,064	1,122	8,186	9,308	10,430	11,552
City of Mebane	379	485	675	148	823	971	1,119	1,267
Unincorporated	4,442	4,937	6,389	974	7,363	8,337	9,311	10,285
ENO	4,450	5,262	6,092	821	6,913	7,734	8,555	9,376
HILLSBOROUGH	8,599	10,136	11,639	1,520	13,159	14,679	16,199	17,719
Town of Hillsborough	3,019	4,263	5,446	1,214	6,660	7,874	9,088	10,302
Unincorporated	5,580	5,873	6,193	307	6,500	6,807	7,114	7,421
LITTLE RIVER	1,493	2,183	3,047	777	3,824	4,601	5,378	6,155
TOTAL COUNTY	77,055	93,851	115,531	19,239	134,770	154,009	173,248	192,487
Total Incorporated	42,953	54,478	67,005	12,027	79,032	91,059	103,086	115,113
Total Unincorporated	34,102	39,373	48,526	7,214	55,740	62,954	70,168	77,382

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 39 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 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.

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.