FOUR BASIC STEPS FOR BASE YEAR POPULATION ESTIMATES

1. Prepare a Table of 2000 population for county, urban area and traffic analysis zones

2. Update county population to base year

3. Update urban area population to base year

4. Allocate base year urban area population to traffic analysis zones

STEP 1

- ❑ Prepare base year CTPP data for county, urban area and traffic analysis zones
- ❑ Prepare table of 2000 census population by traffic analysis zone, urban area total and county total

STEP 2 Update county
populations to base year

Obtain base year or most recent population estimate from state data center
Adjust population estimate to base year (if base year is not available)
Determine average annual growth rate between 2000 population and population estimate for year closest to base year

$$\text{Average annual growth rate} = \frac{(P2-P1/P1)}{N2-N1}$$

Where:
P1 = 2000 county population
P2 = county population for most recent estimate
N1 = 2000
N2 = Year of most recent estimate

- ❑ Assess growth rate for reasonableness
- ❑ Apply growth rate to most recent estimate

STEP 3

Update urban area population to base year

1 develop ratio of 200 urban area population to 2000 county population

- ❑ 2000 urban area population
- ❑ 2000 county population

2 Assess ratios for reasonableness

- ❑ Use information on growth within the urban area boundary versus growth in the county outside the urban area
- ❑ Adjust ratio if necessary

3 multiply the base year county population (from Step 2) by this ratio

STEP 4

Determine numerical change between 2000 urban area population and base year population

1 Subtract the 2000 urban area population from the base year population

2 Allocate difference to traffic analysis zones

- ❑ building permits/demolitions and professional judgment
- ❑ building permits/demolitions and average household size and professional judgment
- ❑ change in utility connections (electric and/or water), average household size and professional judgment

3 Check zonal Allocation

- ❑ Total the population allocated to zones and compare total with total base year population estimate developed in Step 3