

Methodology for Preparing July 1, 2009 Municipality Population Updates

1. Prepare Census Data

Use the 2005 Census Survey as the Base, determine the September 1, 2005 household population, group quarter population, total housing units, occupied housing units, occupancy rates and population per occupied unit for total units for each jurisdiction.

2. Collect New Data

Obtain the residential housing unit completions and demolitions for the time period from September 2, 2005 through June 30, 2009 from the MAG member agencies.

Obtain annexed and de-annexed housing unit data from member agencies. Determine population change from annexations/de-annexations using persons per occupied housing unit and occupancy rates.

Obtain July 1, 2009 group quarters population from survey of MAG member agencies.

3. Calculate July 1, 2009 Housing Units

Calculate the July 1, 2009 housing stock by municipality by adding the net housing units (completions minus demolitions) and the net housing units annexed from step 2 above to the Census base.

4. Calculate July 1, Resident Population

Calculate household population using the Housing Unit Method (HUM) by multiplying the housing stock from step 3 times the respective occupancy rates and persons per occupied unit by municipality.

The occupancy rate and persons per occupied unit by municipality were taken from the 2005 Census Survey to calculate the new household population.

Bench the residential population in households to the county control total for population in households from Arizona Department of Commerce (DOC) to obtain July 1, 2009 population in households. Benching is necessary when the MAG derived total population does not match the control total obtained from DOC. The control total is derived as the weighted average of the Housing Unit Method and the Composite Method. MAG benches its numbers by municipality by proportionately distributing the difference based on the change from the base Census population.

Calculate the total resident population for July 1, 2009 by adding the July 1, 2009 group quarter population from step 2 to the July 1 2009 household population.