

# Projection Adjustment Criteria and Requirements

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The following are criteria for adjusting population and water demand projections and the associated data requirements. Such criteria and requirements supersede criteria and data-requirement information previously described in the General Guidelines for Regional Water Plan Development (2011-2016).

## **Population Projections**

### **County-Level Population**

TWDB staff will project population by decade for each county in the State and then sum the county populations to a regional total. Any adjustments to a county-level population must involve a justifiable redistribution of projected county populations within the region so that the summed regional total remains the same.

### ***Criteria for Adjustment***

One or more of the following criteria must be verified by the Planning Group and the Executive Administrator for consideration of revising the county population projections:

- a) A possible Census undercount took place in the county and action is currently being pursued to request a Census Bureau correction.
- b) If there is evidence that the 2010-2020 net migration rate will be significantly different than the net migration rate used for the original projection.
- c) There are statistically significant birth and survival rate differences (by appropriate cohorts) between the county and the State.

### ***Data Requirements***

The Planning Group must provide the following data associated with the identified criteria to the Executive Administrator for justifying any adjustments to the county-level population projections:

1. Documentation of an action requesting the Census Bureau correct an undercount of population within a county.
2. Projected in-migration and out-migration of a county, indicating that the net migration of a county will be significantly different than the net migration rates previously used.
3. Birth and/or survival rates for a county population between 2000-2010 by gender, race/ethnicity and single-year age cohorts.
4. Other data that the Planning Group believes is important to justify any changes to the population projections.

### **Water User Group Population**

The projected population growth throughout the planning period for the cities, utilities and rural area (county-other) within a county is a function of a number of factors, including the entity's share of the county's growth between 2000 and 2010, as well as local information provided by Planning Groups. The total county population, as projected by TWDB (or through an acceptable redistribution as outlined in the above section) will act as a control total for the populations within the county. Any adjustments to a city, utility or remaining County-Other population must involve a justifiable redistribution of projected populations within the county so that the county total remains the same.

### ***Criteria for Adjustment***

One or more of the following criteria must be verified by the Planning Group and the Executive Administrator for consideration of adjusting the WUG population projections:

- a. Official adjustment to the census population for a city or an adjustment to the population estimate for non-city municipal WUGs (utilities or collective reporting units)
- b. The population growth rate for a city, utility or county-other over the most recent five years is substantially greater than the growth rate between 2000 and 2010.
- c. Identification of areas that have been annexed by a city since the 2010 Census.
- d. Identification of the expansion of a utility's CCN or service area since April 2010
- e. Identification of growth limitations or build-out conditions in a city or utility that would result in maximum population that is less than was originally projected.

### ***Data Requirements***

The Planning Group must provide the following data associated with the identified criteria to the Executive Administrator for justifying any adjustment to the Water User Group population projections:

1. Population estimates for cities developed and published by the State Data Center or by a regional council of governments will be used to verify criteria (b) for cities.
2. The verified number of residential connections and permanent population served will be used to verify criteria (a or b) for utilities.
3. The estimated population of an area that has been annexed by a city (for criteria c) or has become part of a CCN or service area for a water utility (for criteria d). In addition, the geographical boundary of the area must be presented in an acceptable map or ArcView shapefile.
4. Documentation from an official of a city or utility describing the conditions expected to limit population growth and estimating the maximum expected population will be used to verify criteria (d).
5. Other data that the Planning Group believes is important to justify any changes to the population projections.

## **Municipal Water Demand Projections**

### ***Criteria for Adjustment***

One or more of the following criteria must be verified by the Planning Group and the Executive Administrator for consideration of revising the municipal water demand projections:

1. Errors identified in the reporting of 2011 municipal water use for an entity.
2. Evidence that the dry year water use was abnormal due to temporary physical infrastructure constraints.
3. Evidence that areas where rapid population growth and associated increasing commercial and institutional development are projected might require a higher GPCD in the future than in the base year. This option should be requested only in very limited circumstances and will be closely scrutinized.
4. Evidence that the number of fixture installations to water-efficient fixtures between 2000 and 2010 is different than the TWDB schedule.

### ***Data Requirements***

The Planning Group must provide the following data associated with the identified criteria to the Executive Administrator of the TWDB for justifying any adjustments to the municipal water demand projections:

1. Annual municipal water production (total surface water diversions and/or groundwater pumpage and water purchased from other entities) for an entity measured in acre-feet.

2. The volume of water sales by an entity to other water users (cities, industries, water districts, water supply corporations, etc.) measured in acre-feet.
3. Net annual municipal water use, defined as total water production less sales to other water users (cities, industries, water districts, water supply corporations, etc.) measured in acre feet.
4. Documentation of temporary physical infrastructure constraints.
5. Documentation of the number of water-efficient fixtures replaced between 1990 and 2010.
6. To justify a request for increasing per capita water use for a city or rural area of a county, the following data must be provided with the request from the Planning Group:
  - a) Historical per capita water use estimates based on net annual municipal water use for the city, utility or rural area of a county, beginning in 2000.
  - b) A trend analysis which must take into account the variation in annual rainfall.
  - c) Revised projections of per capita water use for a city, utility or rural area of a county will be submitted by the Planning Group, where an increasing trend in per capita water use has been verified for a city or rural area of a county.
  - d) Growth data in the residential, commercial and/or public sectors that would justify an increase in per capita water use.
7. Other data the Planning Group believes is important to justify any adjustments to the State Water Plan municipal water use projections.