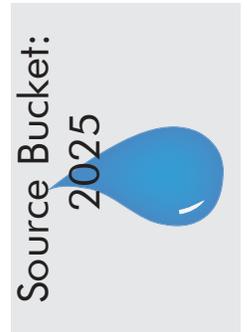


# Diagram of Room Set-Up



## Urban 2010

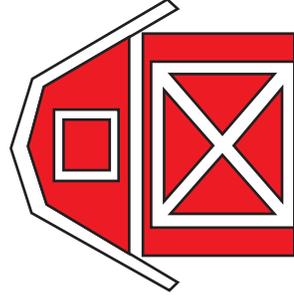
**Role:** You represent the urban sector of the region's population. Included in your urban area are factories, individual residences, apartment complexes, shopping malls, and public (e.g., buses) and private (e.g., cars) transportation. There are multiple uses for the water including factory usage and the every day household use, such as bathing, gardening, and washing the car. The demand for water is high. In 2010, the measured water usage was 165,798 acre-feet.

Please complete the following:

1. Calculate the amount of water that your section of the population will use this year by converting to scale (1 cup = 25,000 acre-feet).
2. Remove the amount of water needed from the source bucket and place it into your holding "tank." Label this container "Urban Water Usage: 2010."



# Agricultural 2010



**Role:** You represent the agricultural sector of the population in this area as crop farmers and livestock ranchers. You need plenty of water to irrigate your crops and water your livestock. In 2010, you use 109,427 acre-feet (af) of water and you predict that you will use approximately the same amount next year.

Please complete the following:

1. Calculate the amount of water that your section of the population will use this year by converting to scale (1 cup = 25,000 acre-feet).
2. Remove the amount of water needed from the 2010 source bucket and place it into your holding "tank." Label this container "Agricultural Water Usage: 2010."

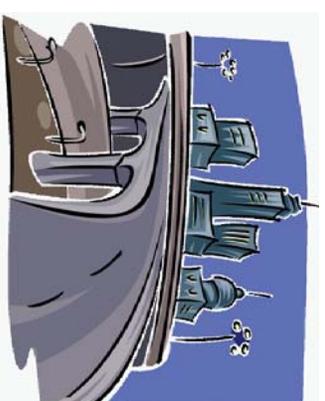
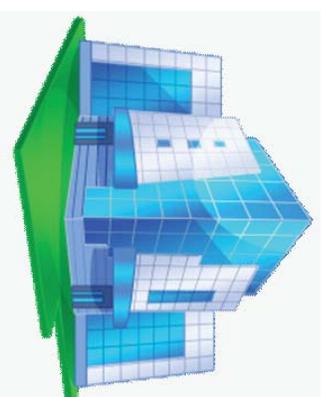


# Urban 2025

**Role:** You represent the urban sector of the region's population. Included in your urban area are factories, individual residences, apartment complexes, shopping malls, and public (e.g., buses) and private (e.g., cars) transportation. There are multiple uses for the water including factory usage and the every day household use, such as bathing, gardening, and washing the car. Because your county's population has risen from 931,098 people to 1.1 million people, people are using more water. Now, the urban area uses 232,308 acre-feet.

Please complete the following:

1. Calculate the amount of water that your section of the population will use this year by converting to scale (1 cup = 25,000 acre-feet).
2. Remove the amount of water needed from the 2025 source bucket and place it into your holding "tank." Label this container "Urban Water Usage: 2025."



# Agricultural 2025

**Role:** You represent the agricultural sector of the population in this area as crop farmers. Because your county's population has risen from 931,098 people to 1.1 million people, the amount of agricultural land has decreased due to urban sprawl, yet you need to intensify the food production from the land you have to help feed the expanding population. You predict that you will fulfill the high-demand estimate of water use for your section of the population, which is 151,138 af of water.



Please complete the following:

1. Calculate the amount of water that your section of the population will use this year by converting to scale (1 cup = 25,000 acre-feet).
2. Remove the amount of water needed from the 2025 source bucket and place it into your holding "tank." Label this container "Agricultural Water Usage: 2025."

