



Disaggregated Demand Model December 13, 2016

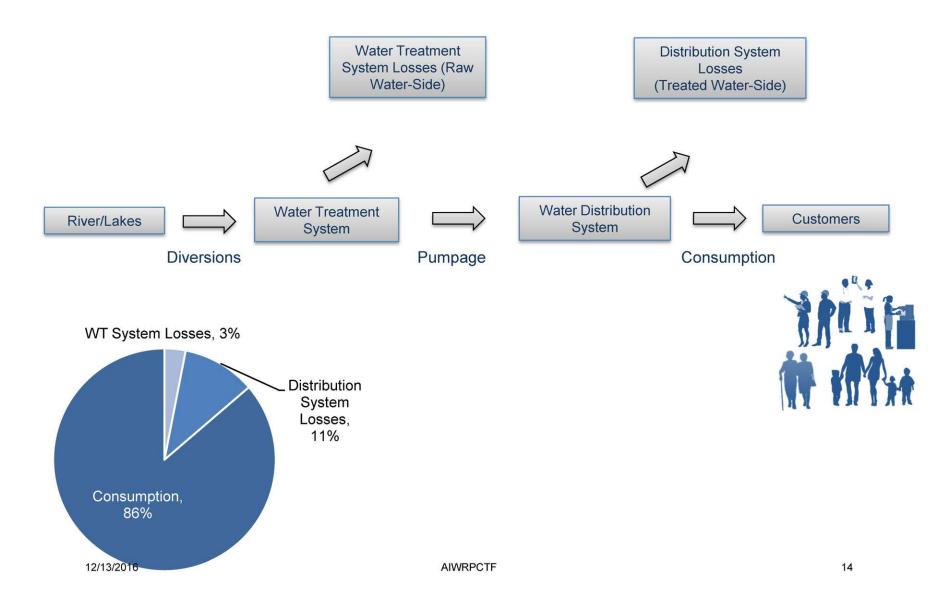




What Does The Model Do?

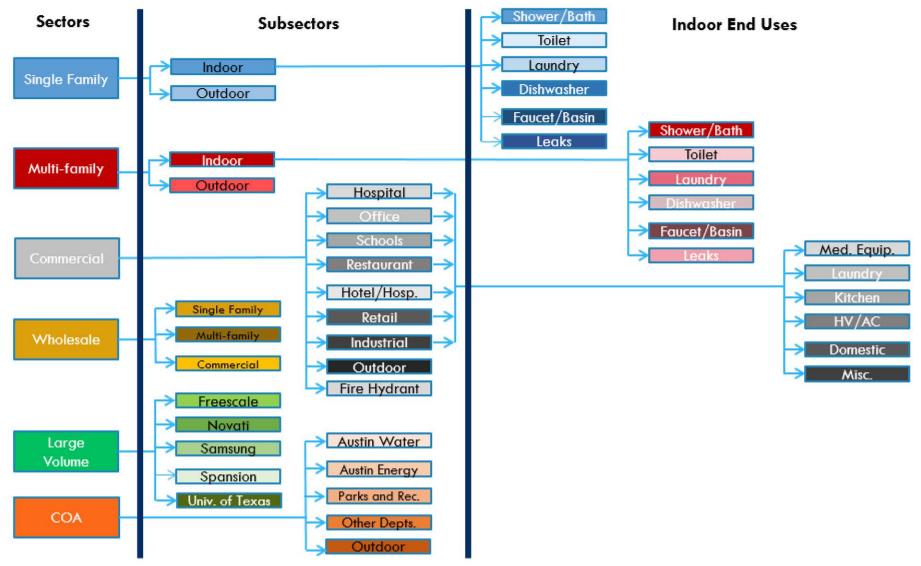


Typical Water-Flow In Austin's Water System



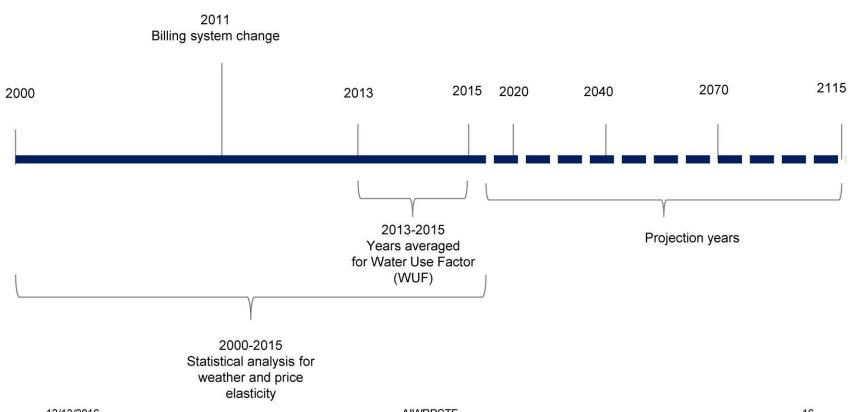


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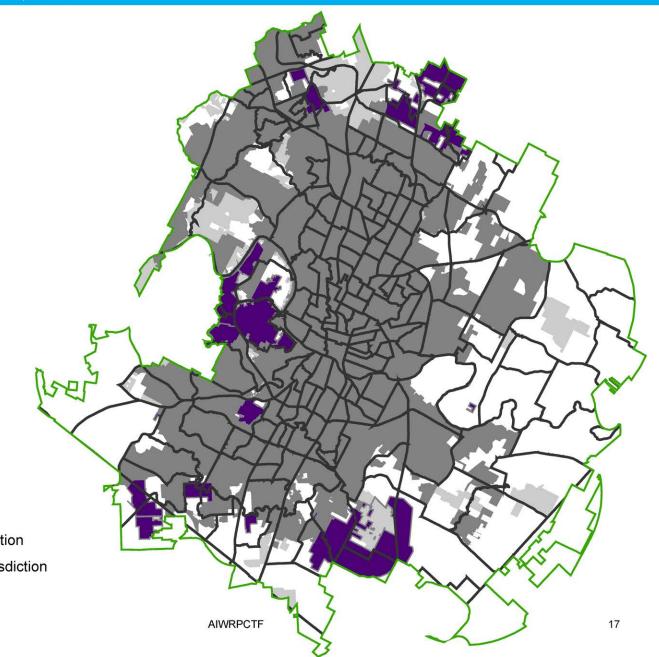


Analysis Timeline





December 13, 2016



DTI polygons
Impact fee boundary
Austin full purpose jurisdiction
Austin limited purpose jurisdiction
Wholesale service areas

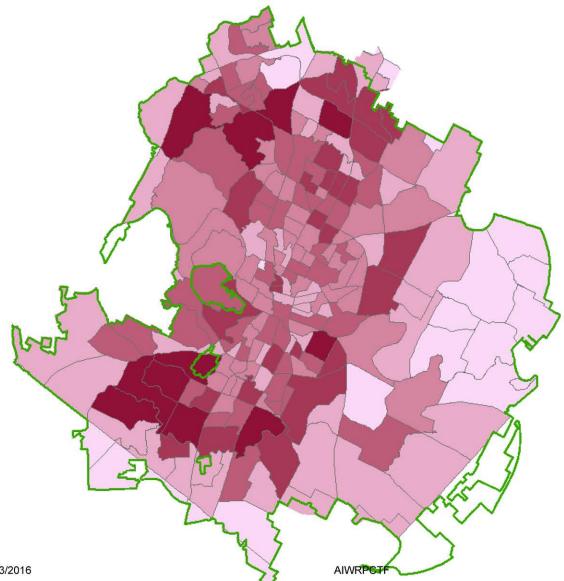
12/13/2016



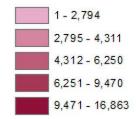
How Does The Model Work?



Served Population Distribution 2010

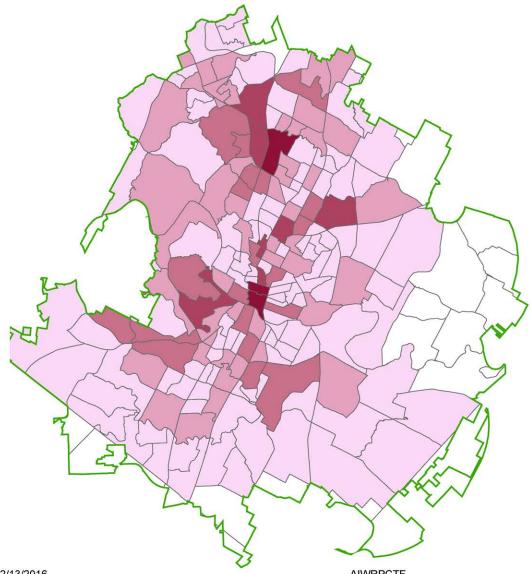


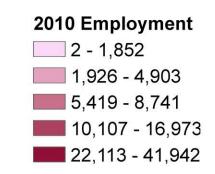
2010 Served Population



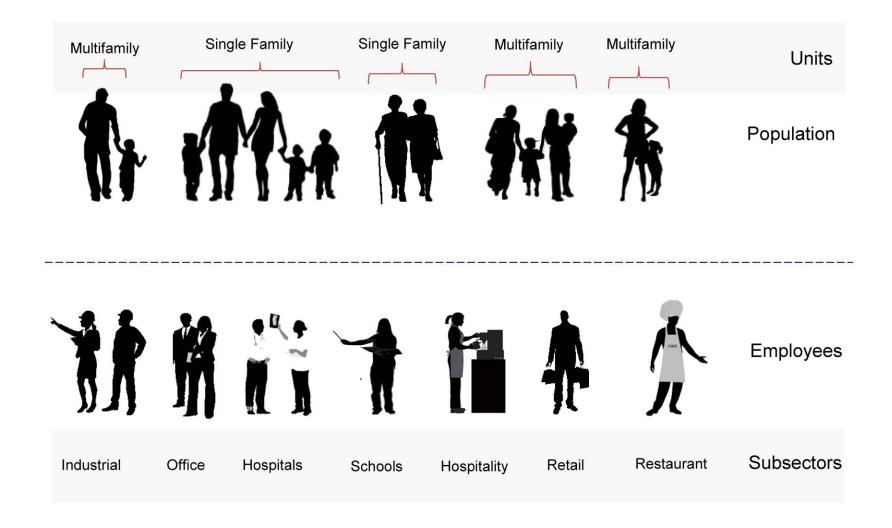


Employment Distribution 2010











Water Use Factor Development Eg: DTI polygon 89



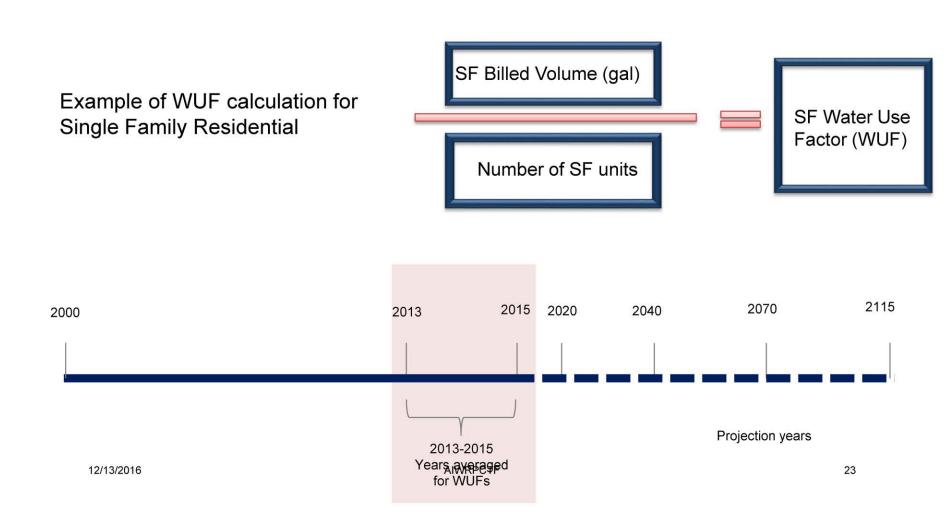
Commercial Multi-Family Residential Single Family Residential

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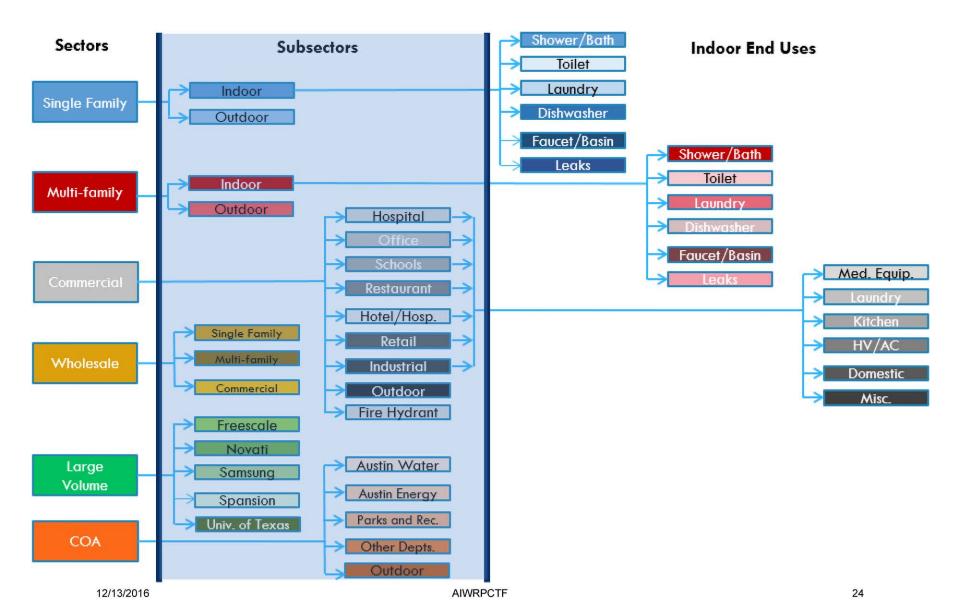


Water Use Factor (WUF) Calculation



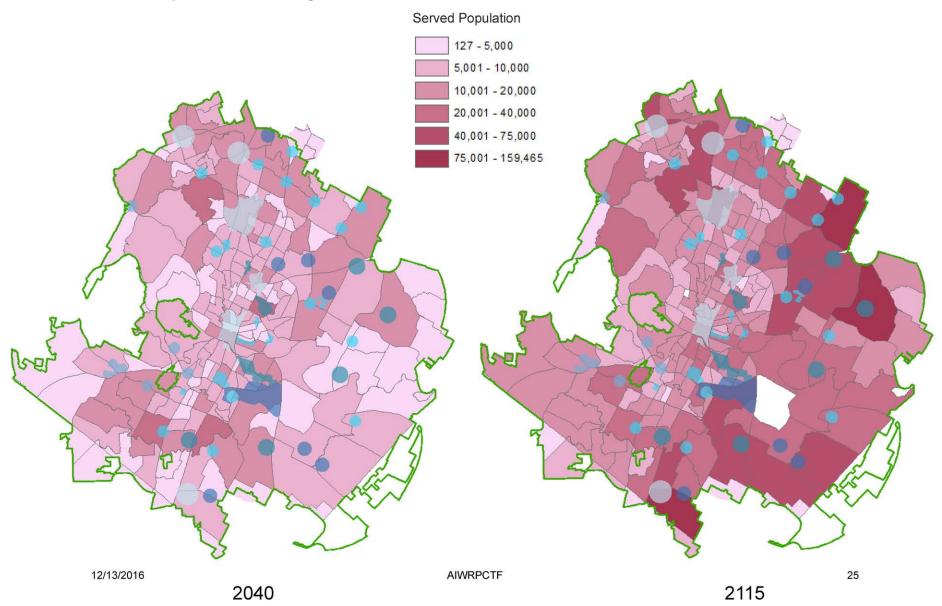


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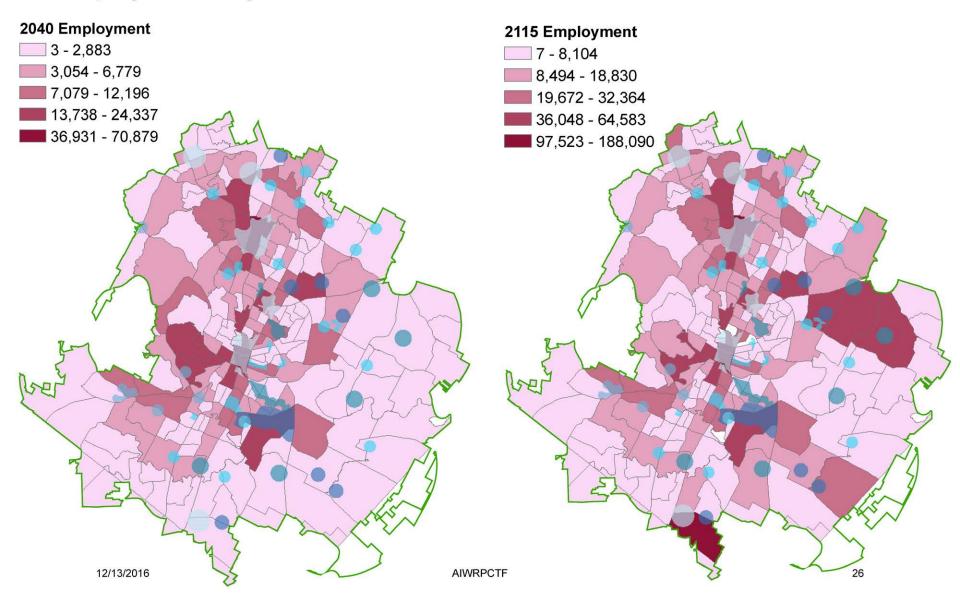


Served Population Projections



Austin Disaggregated Demand Model December 13, 2016

Employment Projections for 2040 and 2115

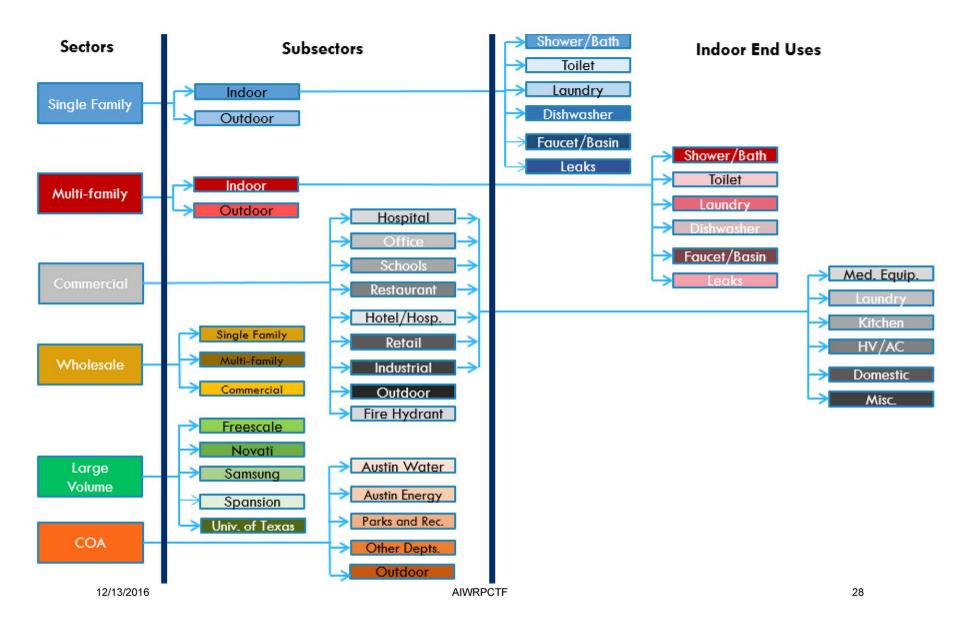




Preliminary Results From the Model

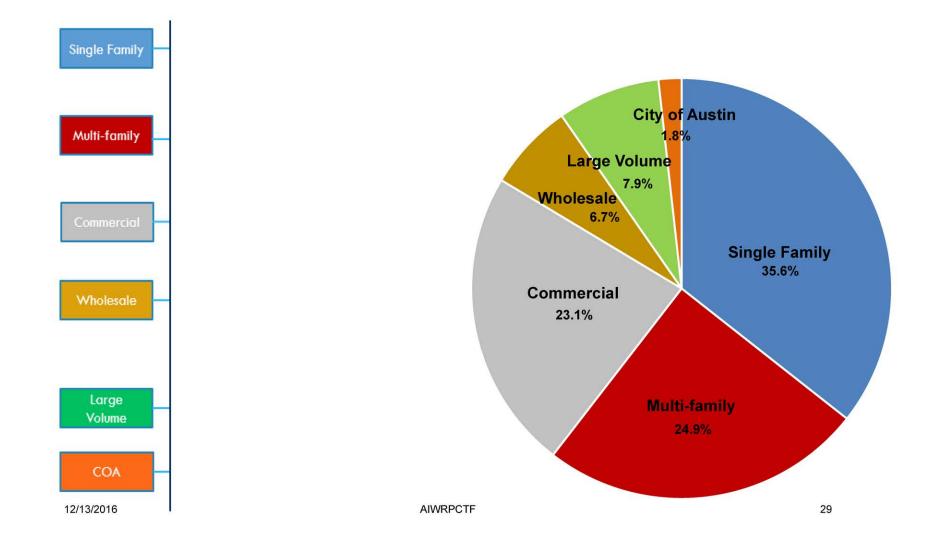


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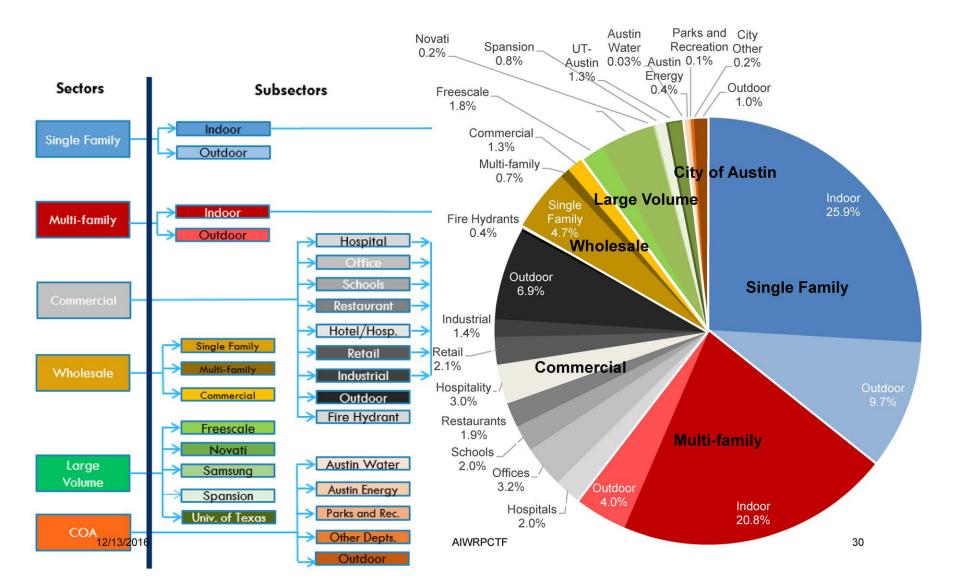


Base Year Consumption Sectors

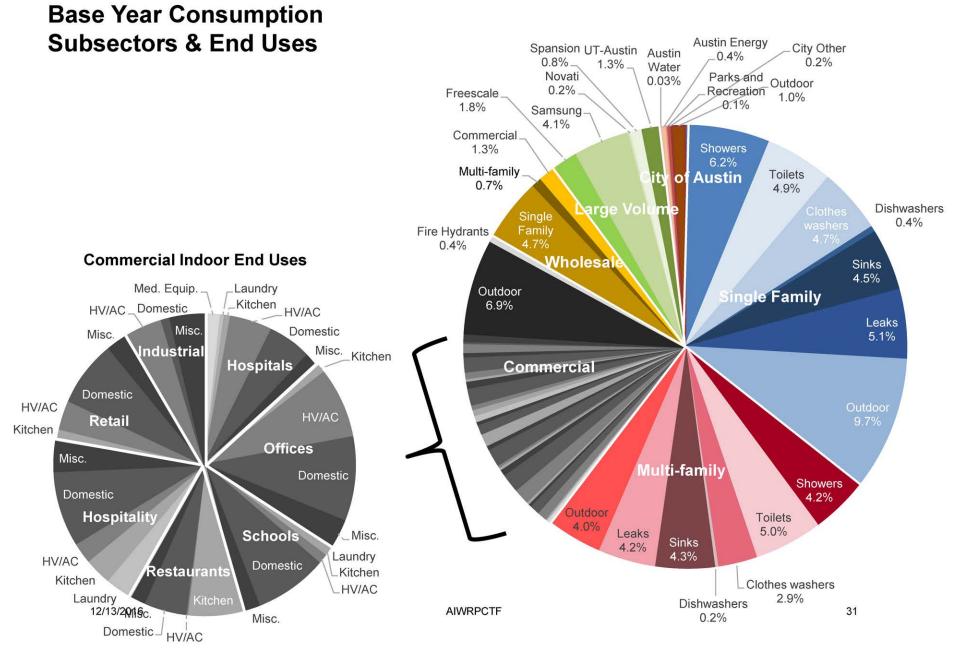




Base Year Consumption Subsectors



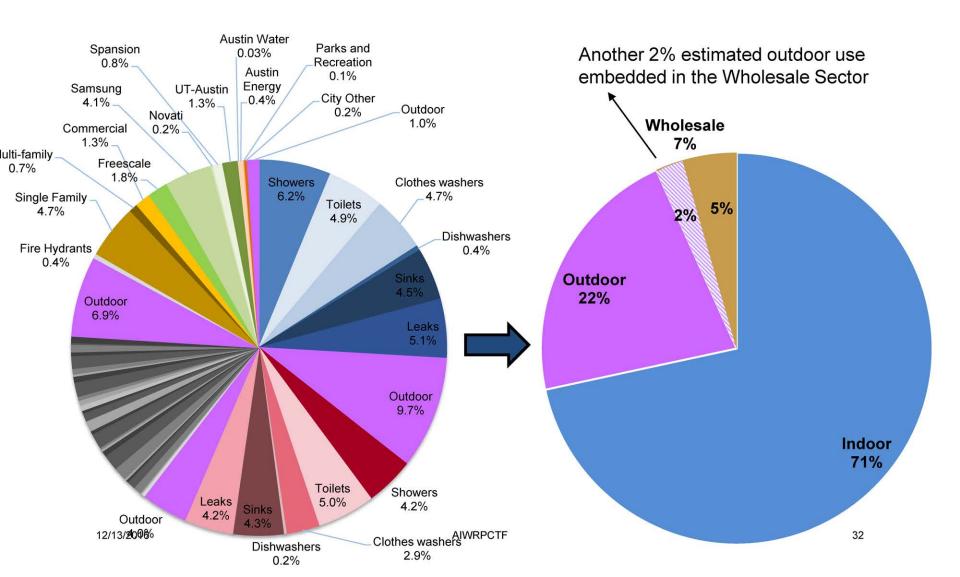




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Indoor vs. Outdoor Consumption

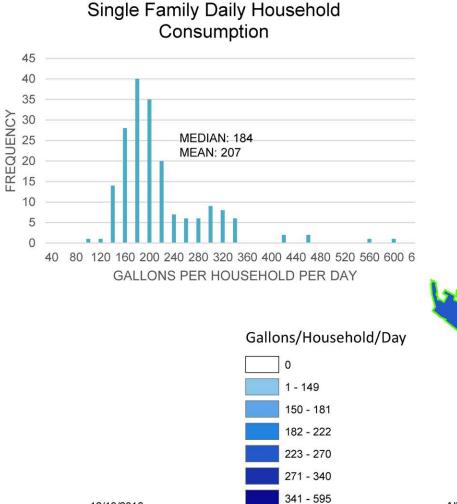


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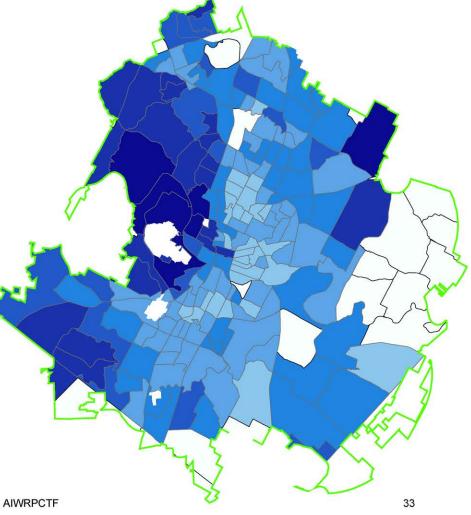
Austin

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Base Year Single Family Daily Household Consumption



DTI_POLYGON

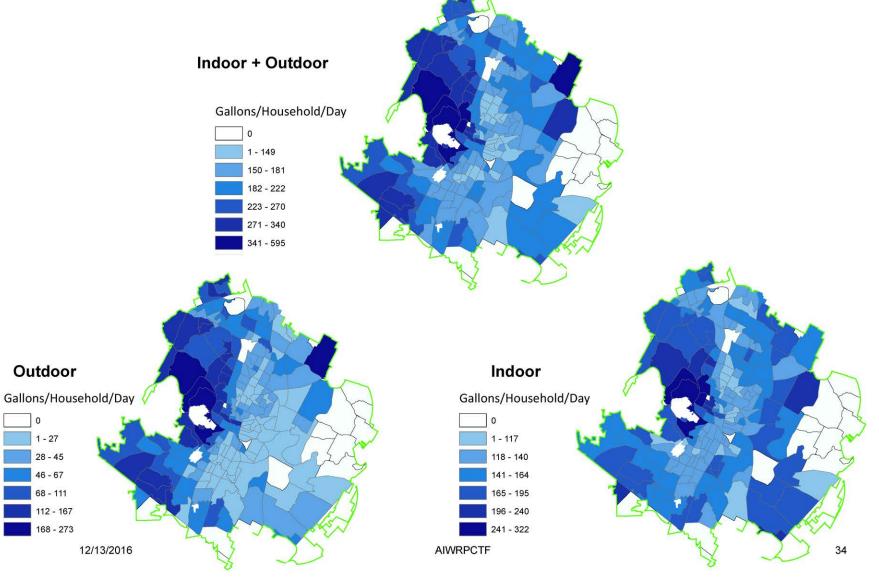


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Base Year Single Family Daily Household Consumption

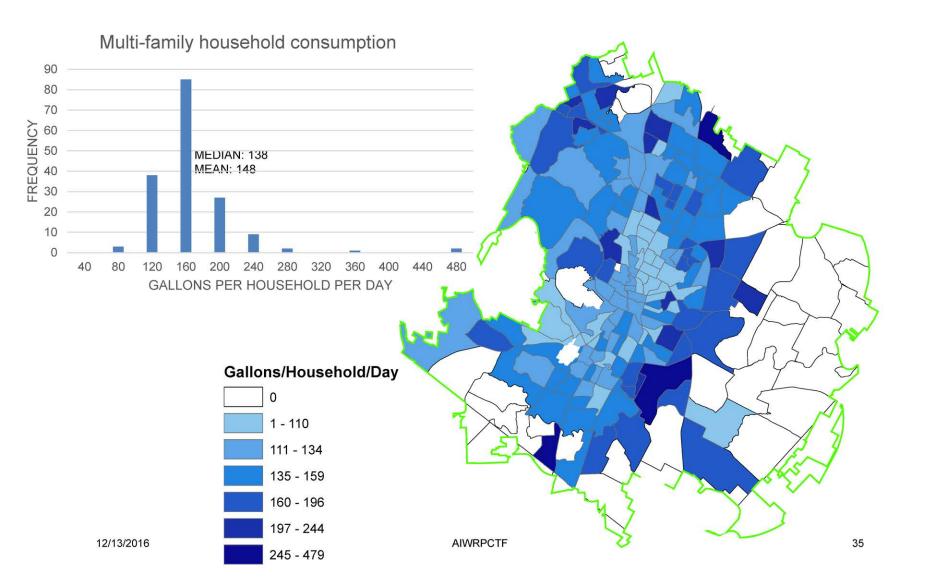


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Austin

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Base Year Multi-Family Daily Household Consumption

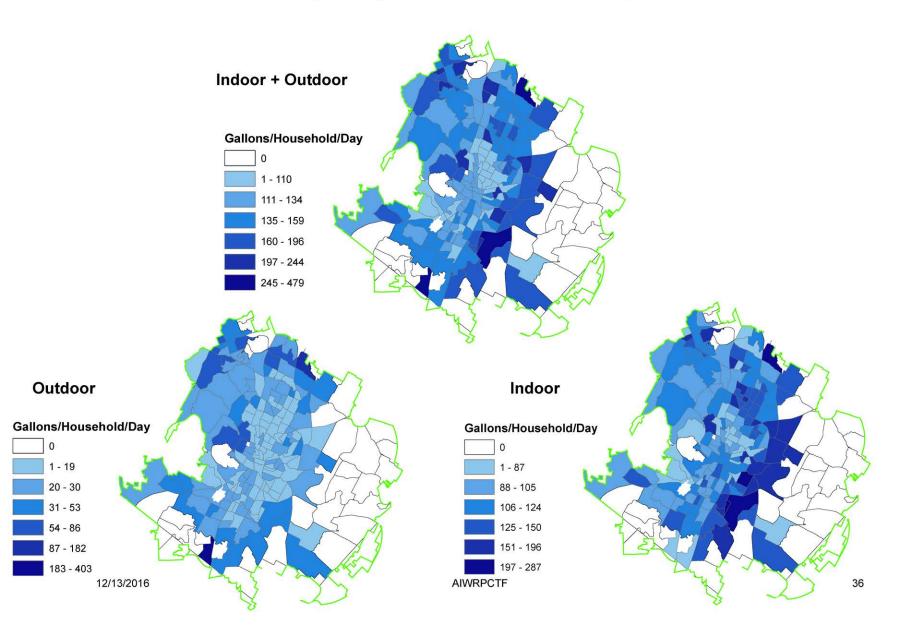


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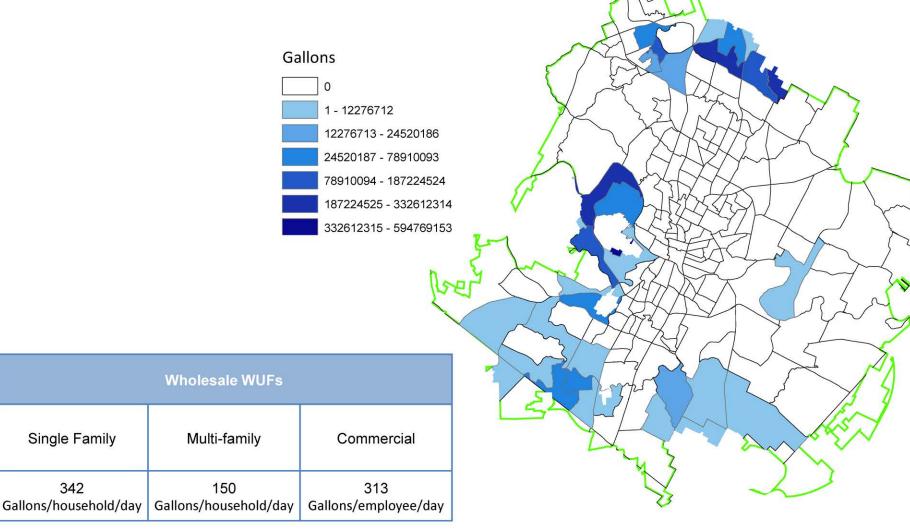
AJATER

Base Year Mutli-Family Daily Household Consumption





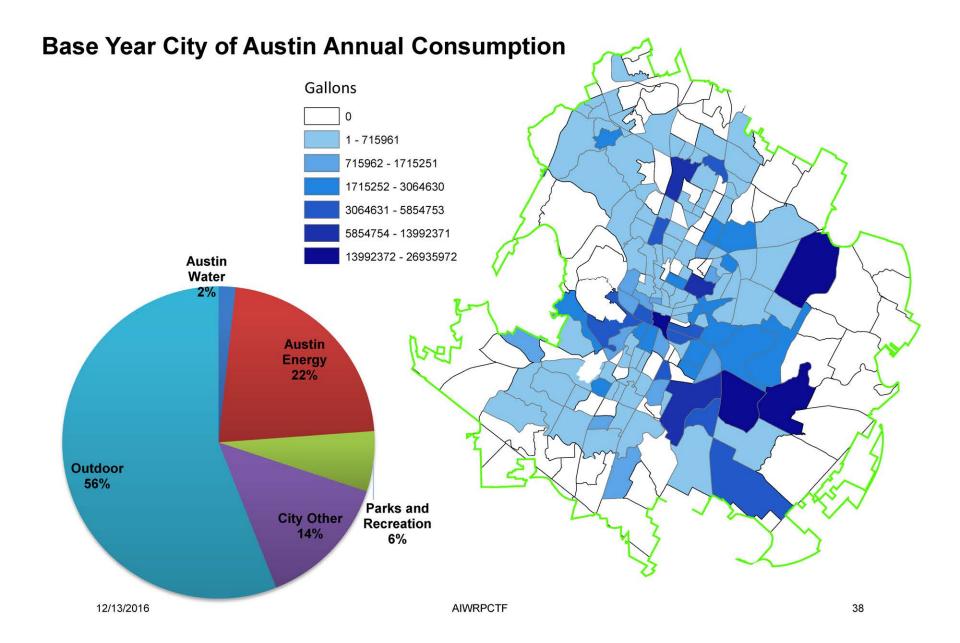
Base Year Wholesale Annual Consumption



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Austin

JATER

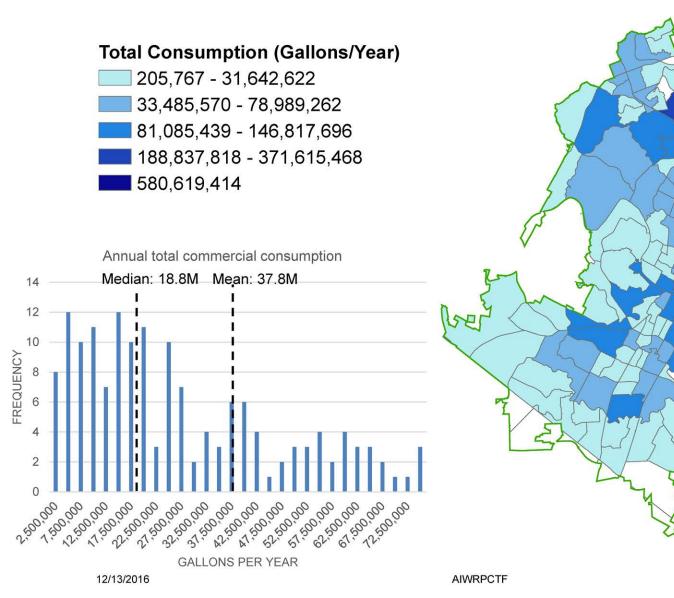


December 13, 2016

Austin

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Base Year Commercial Annual Consumption



December 13, 2016

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Base Year Commercial Annual Consumption

