Kyl Center for Water Policy at Morrison Institute

Arizona State University

Arizona Water Policy

Independent Redistricting Commission – August 31, 2021

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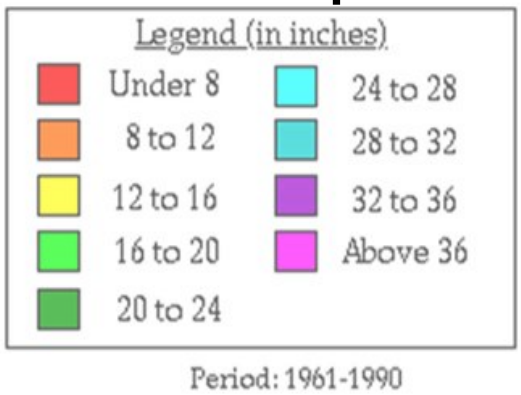
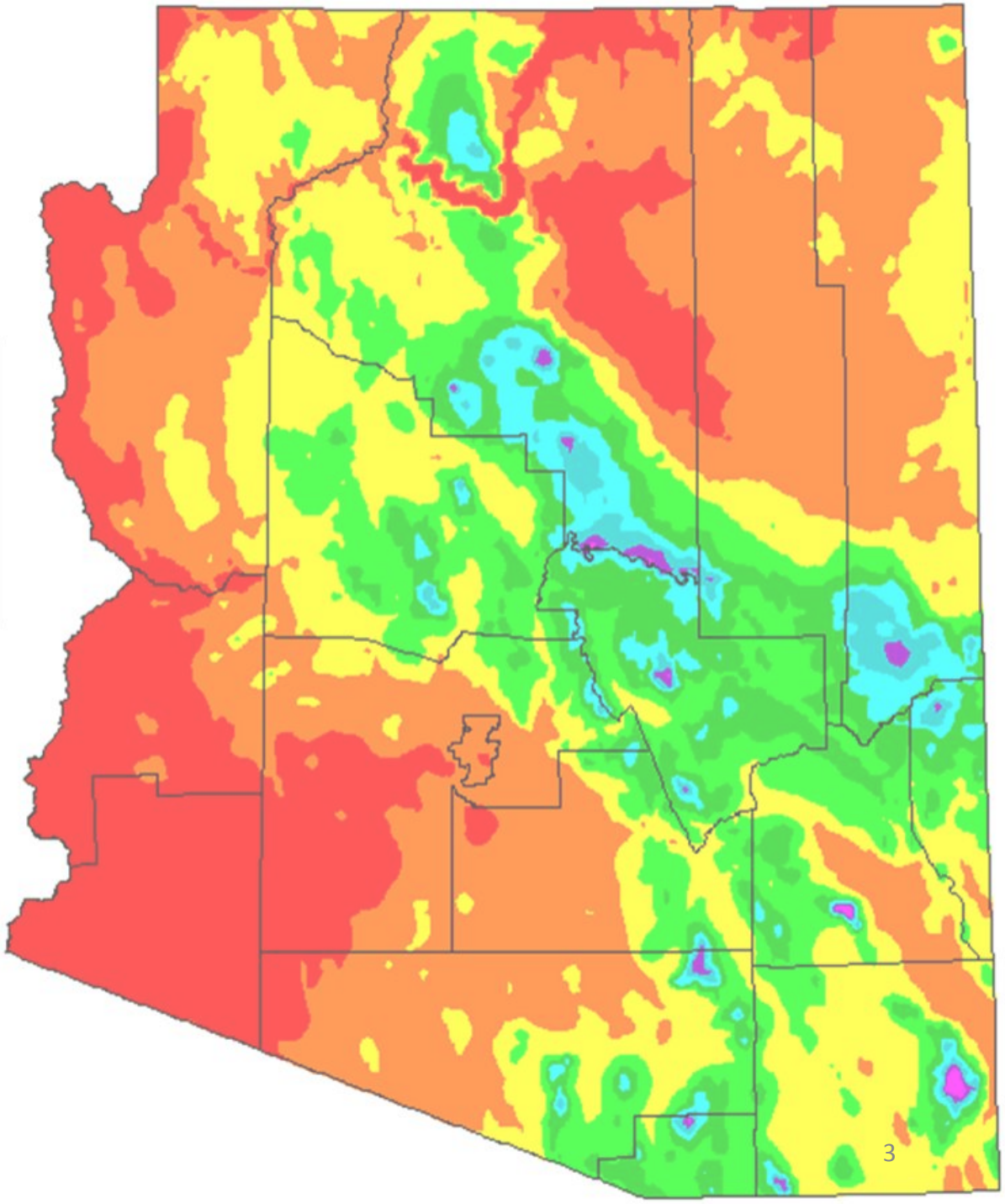
Arizona State University

Mission: promote informed public dialogue on critical water issues in Arizona and the West

- non-partisan
- research & analysis
- historical understanding

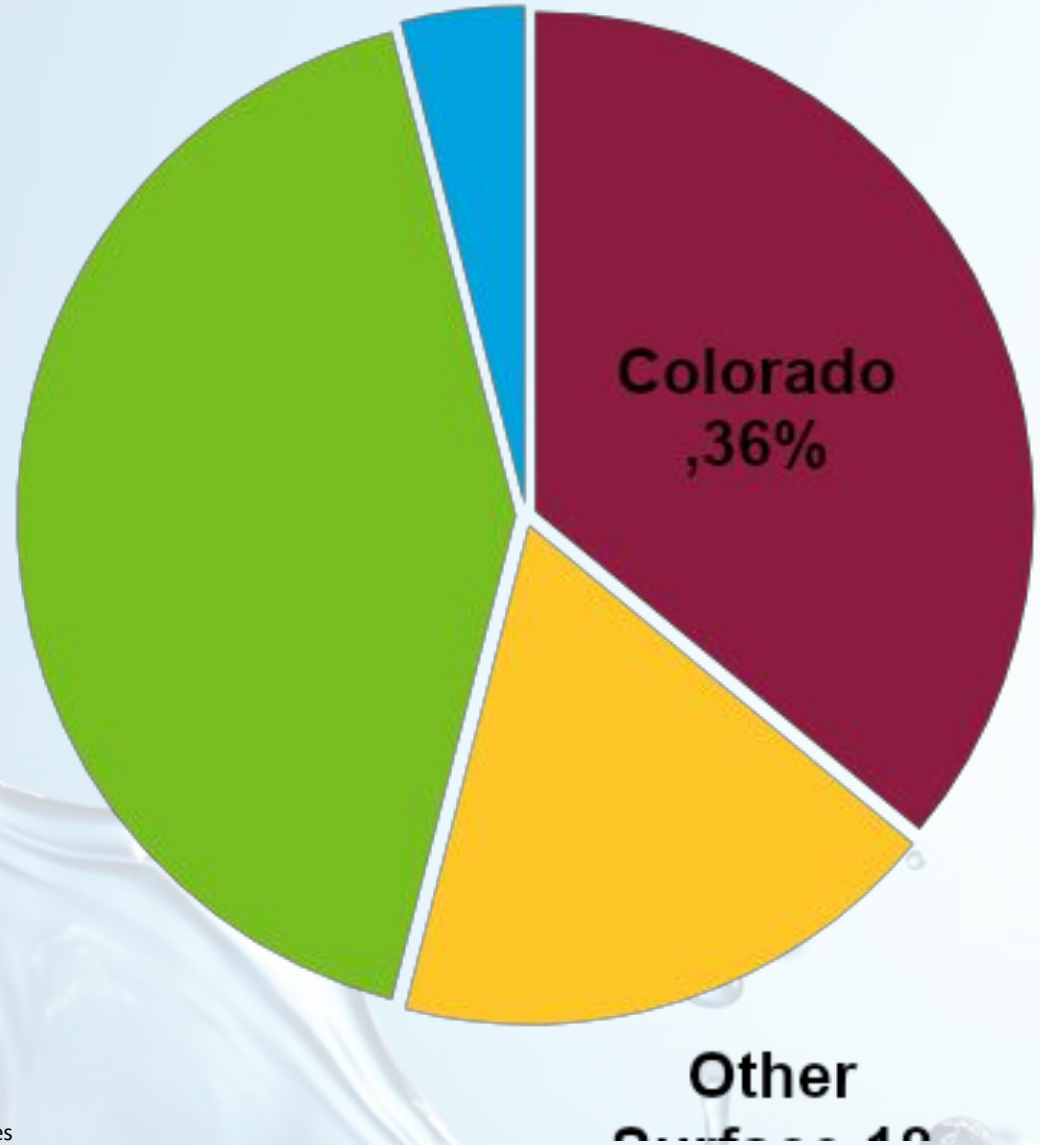
Annual Precipitation





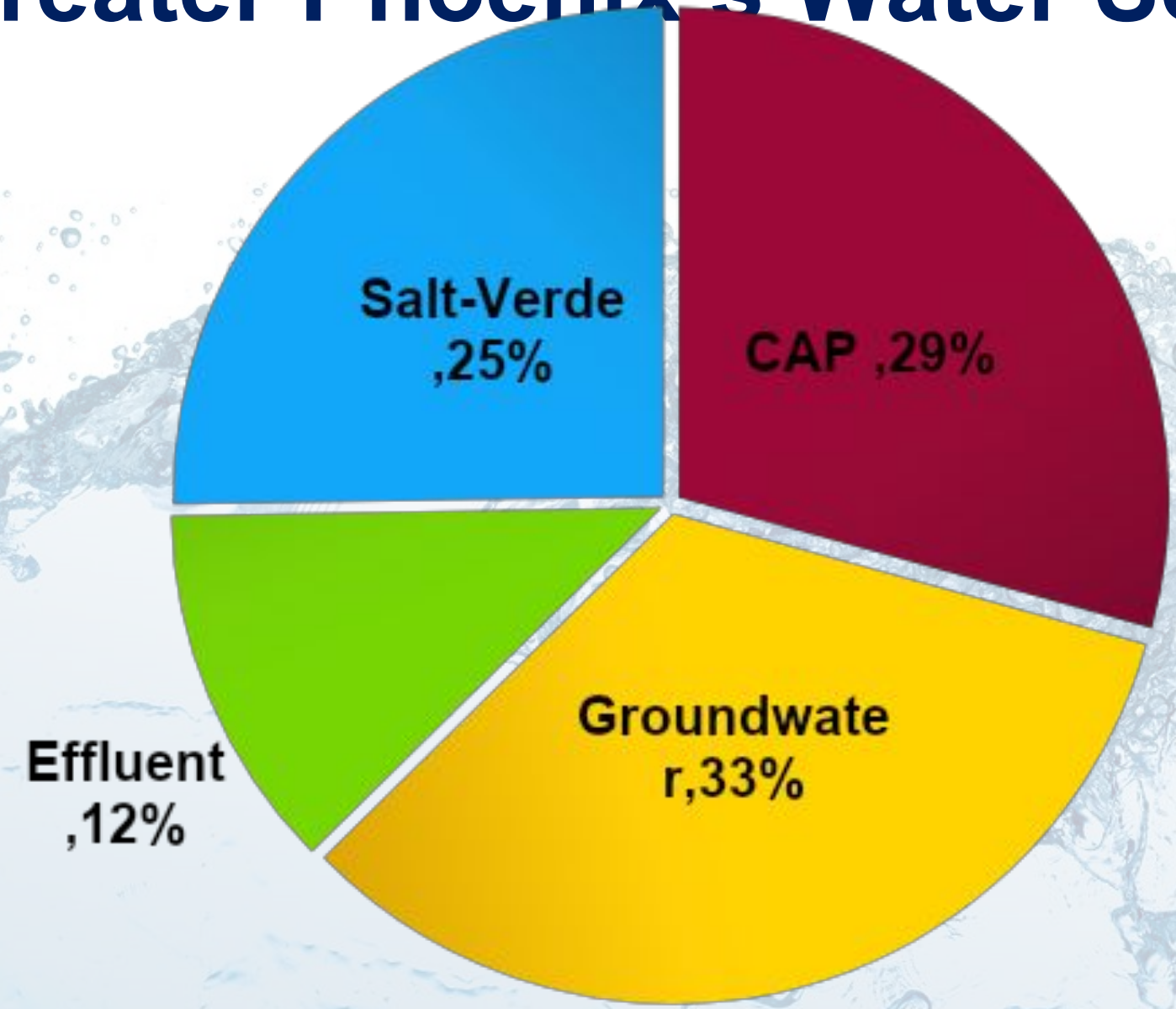
Source: Water Resources Research Center, University of Arizona

Arizona's Sources of Water



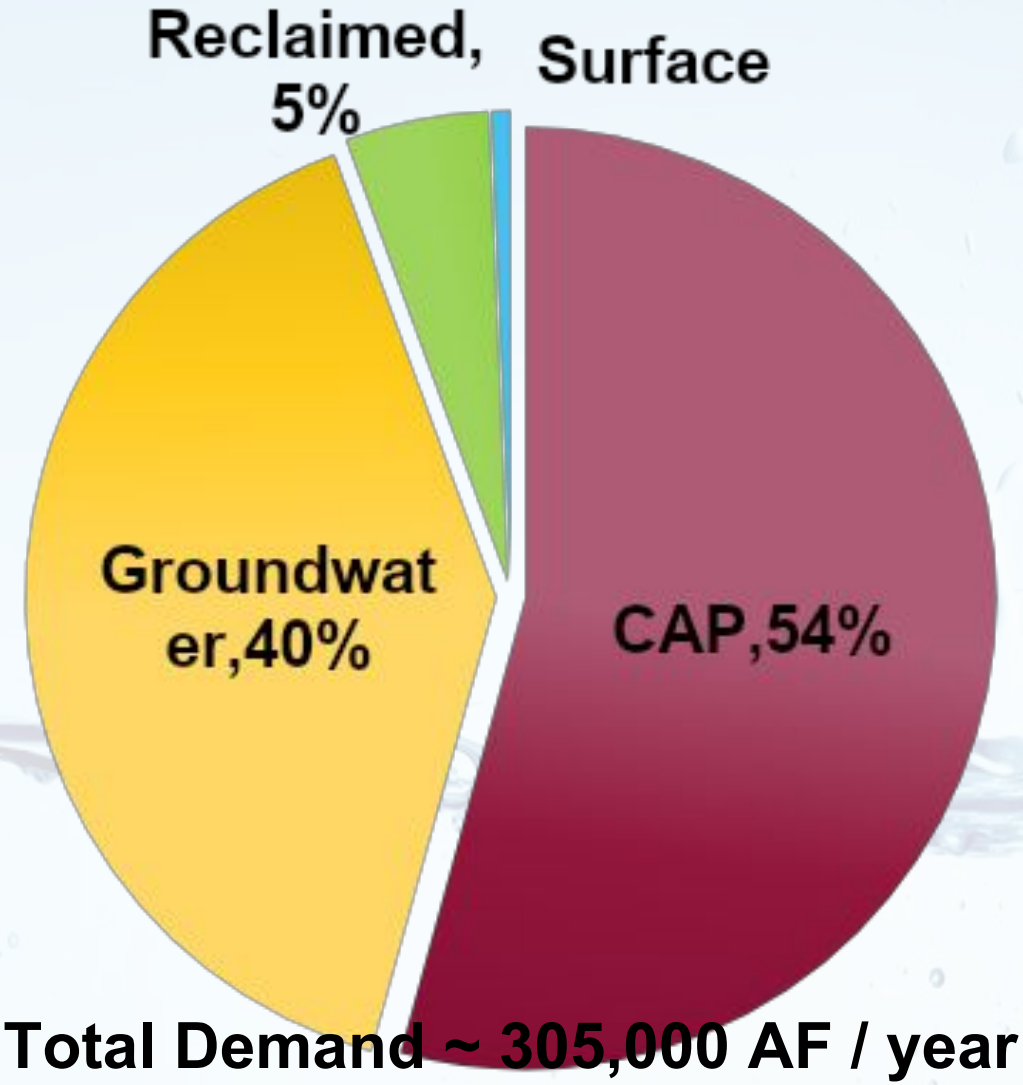
Source: Arizona Dept. of Water Resources

Greater Phoenix's Water Sources



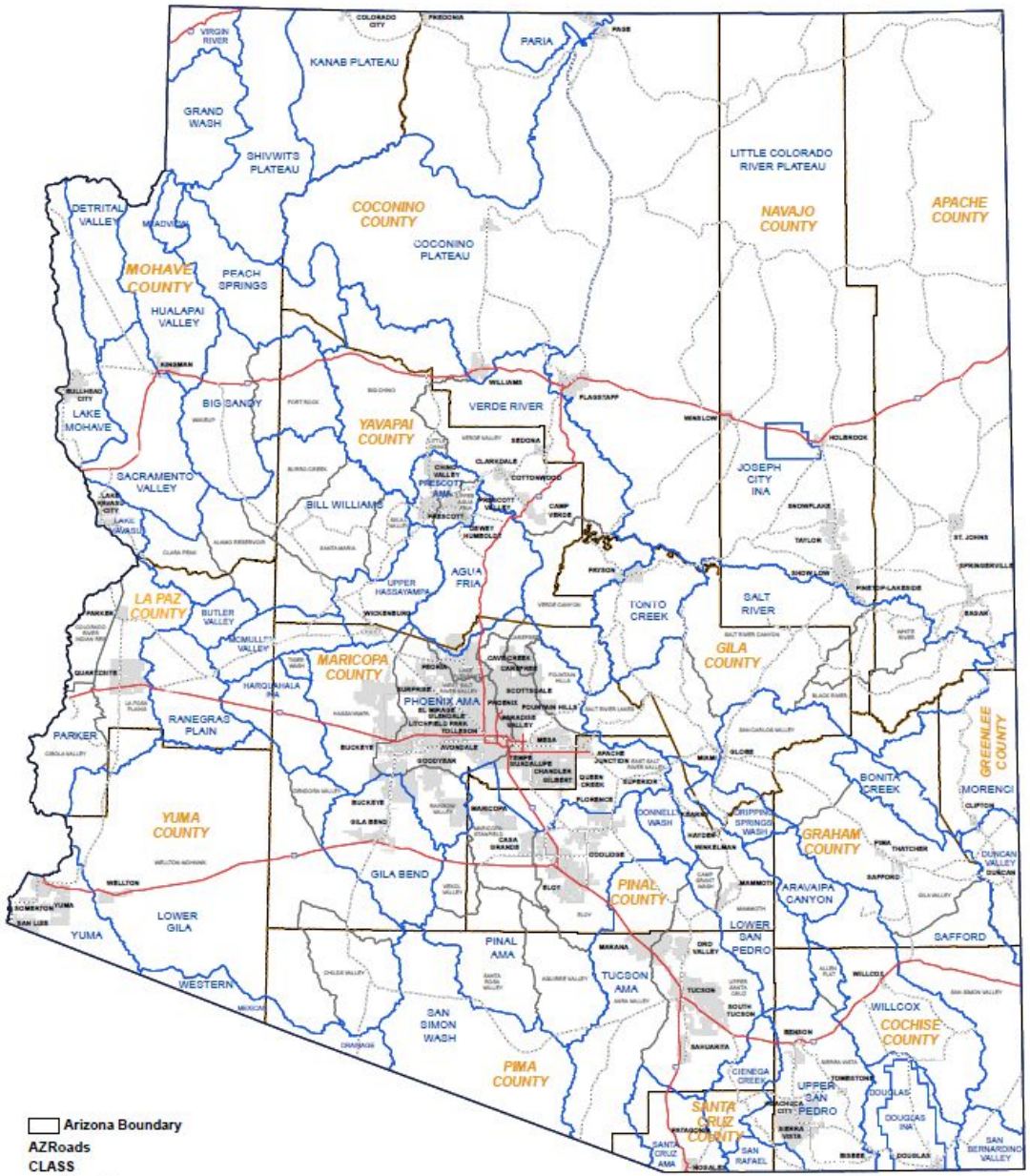
Source: Arizona Dept. of Water Resources, AMA Data (2020)

Greater Tucson's Water Sources

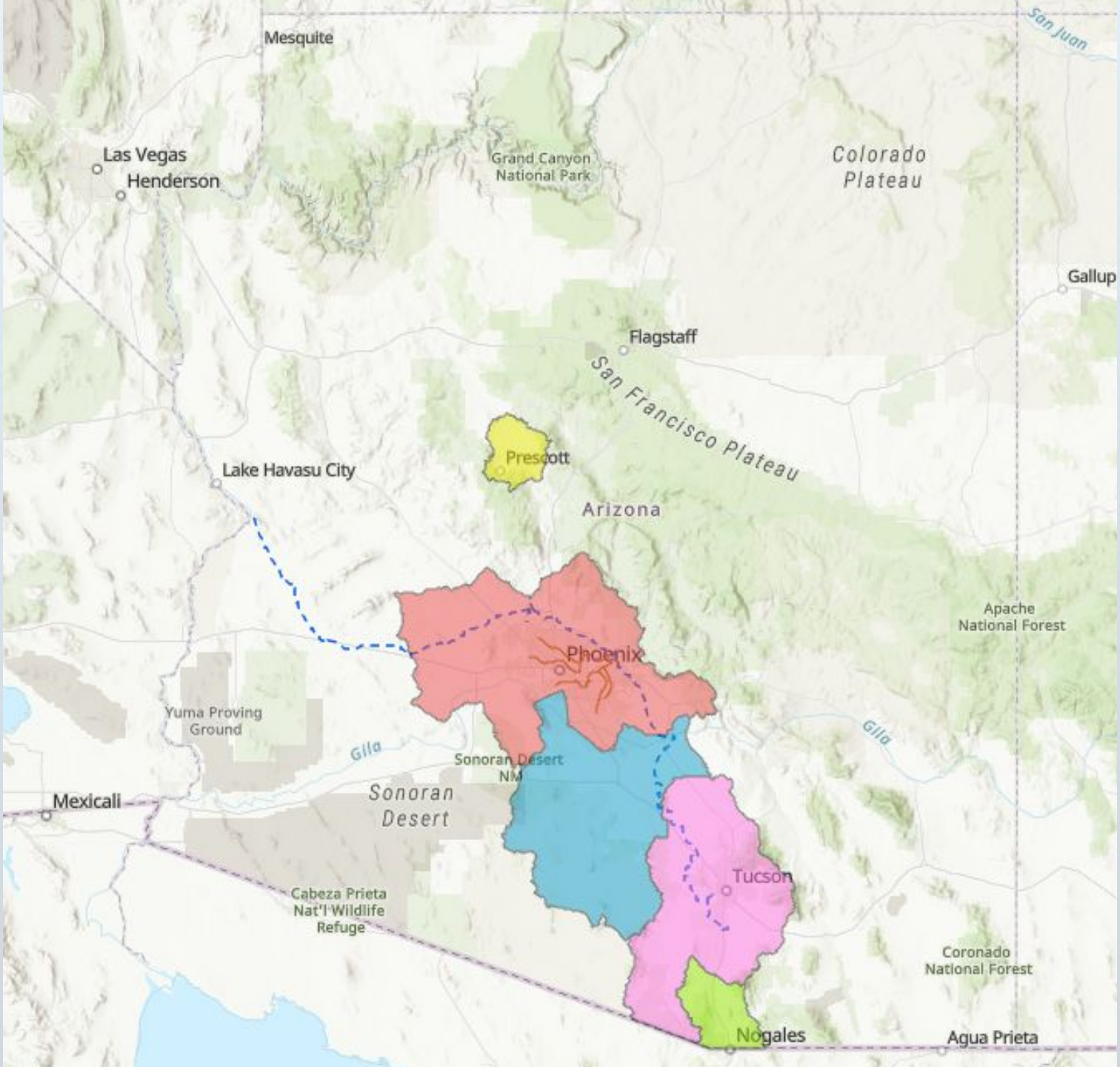


Total Demand ~ 305,000 AF / year

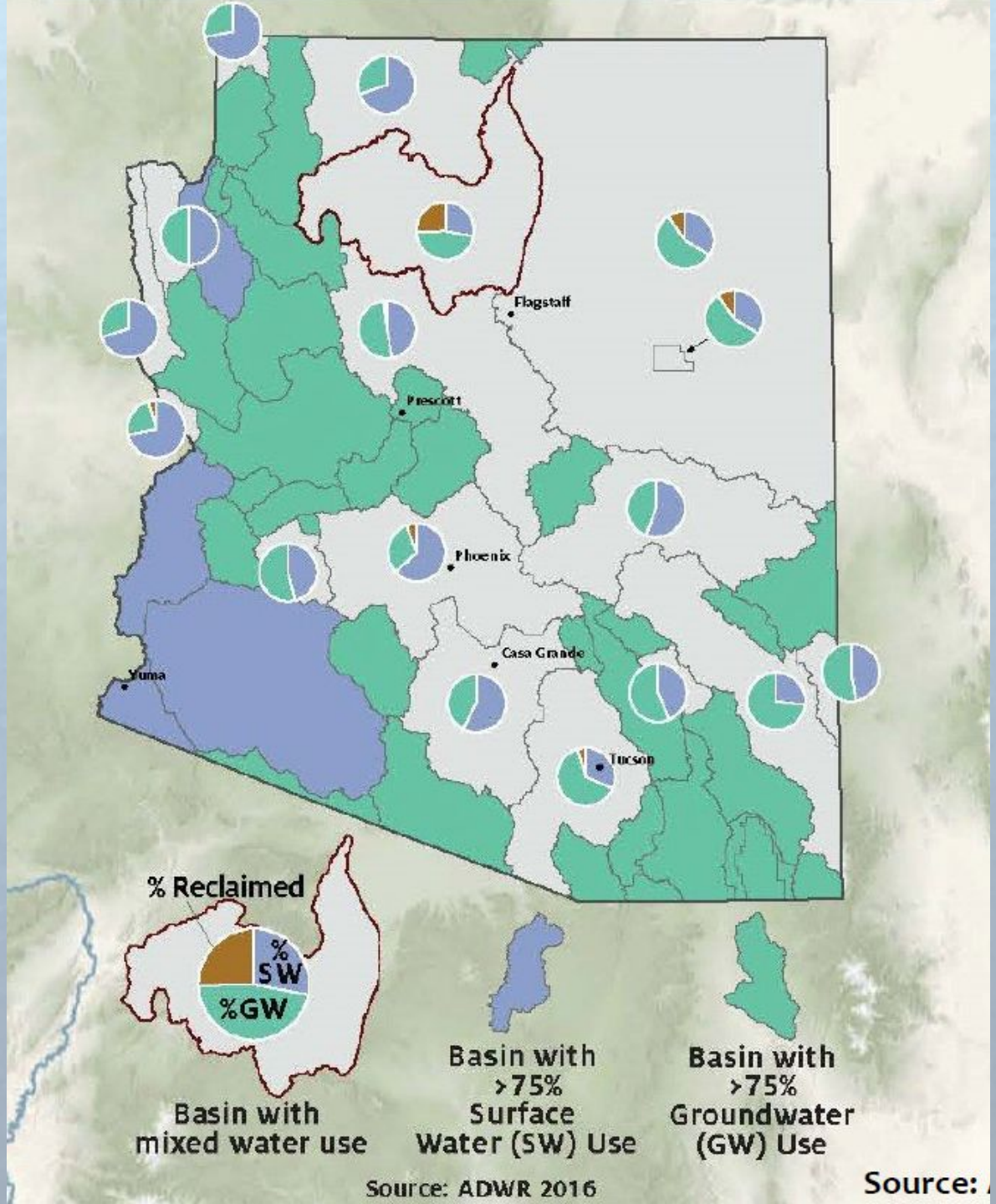
Source: Arizona Dept. of Water Resources, AMA Data (2020)

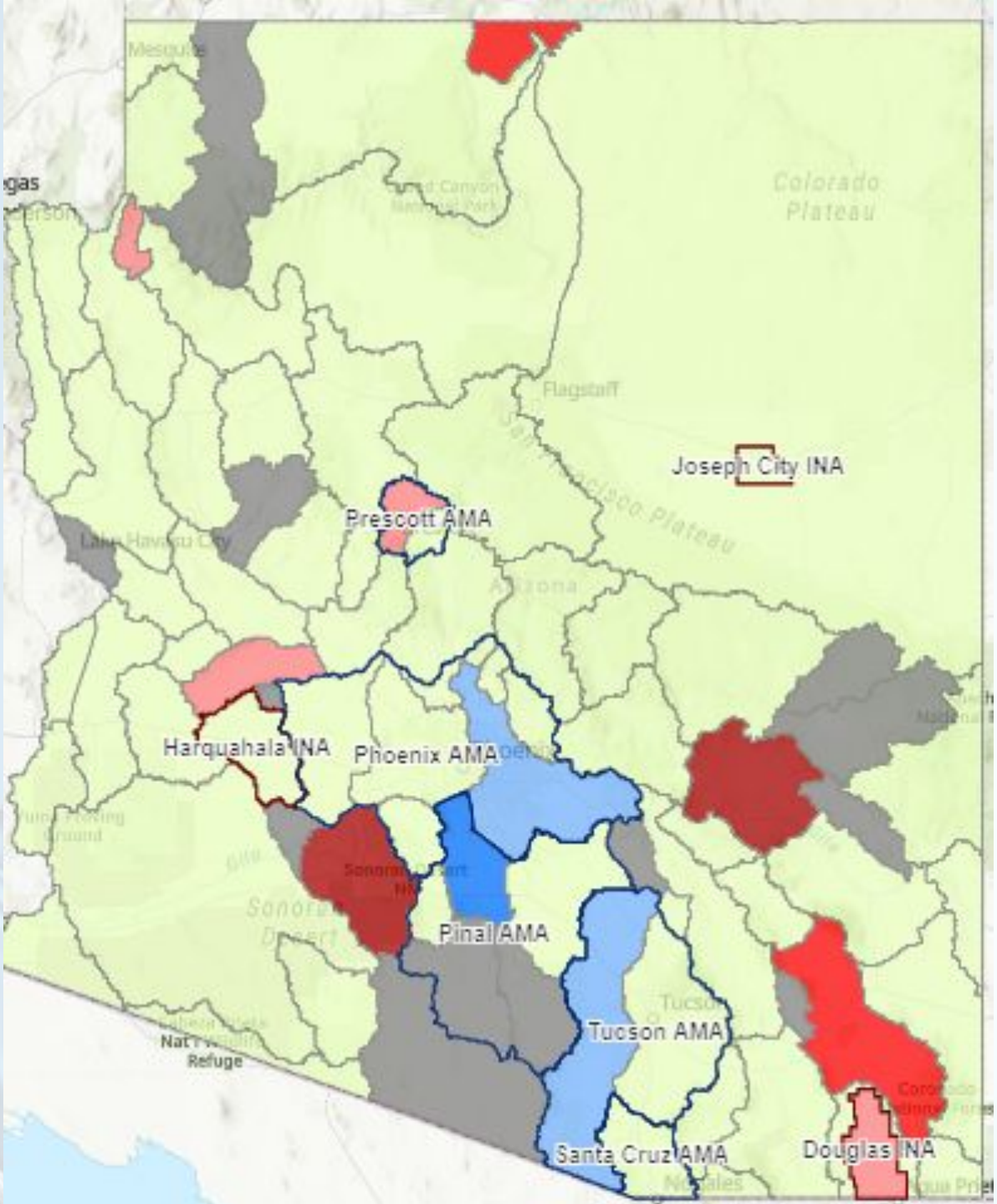


Groundwater Basisns and Sub-Basins


Mesquite
San Juan
Las Vegas
Henderson
Grand Canyon
National Park
Colorado
Plateau
Gallup
Flagstaff
San Francisco Plateau
Prescott
Lake Havasu City
Arizona
Apache
National Forest
Phoenix
Yuma Proving
Ground
Gila
Sonoran Desert
NM
Gila
Mexicali
Sonoran
Desert
Tucson
Cabeza Prieta
Nat'l Wildlife
Refuge
Coronado
National Forest
Nogales
Agua Prieta

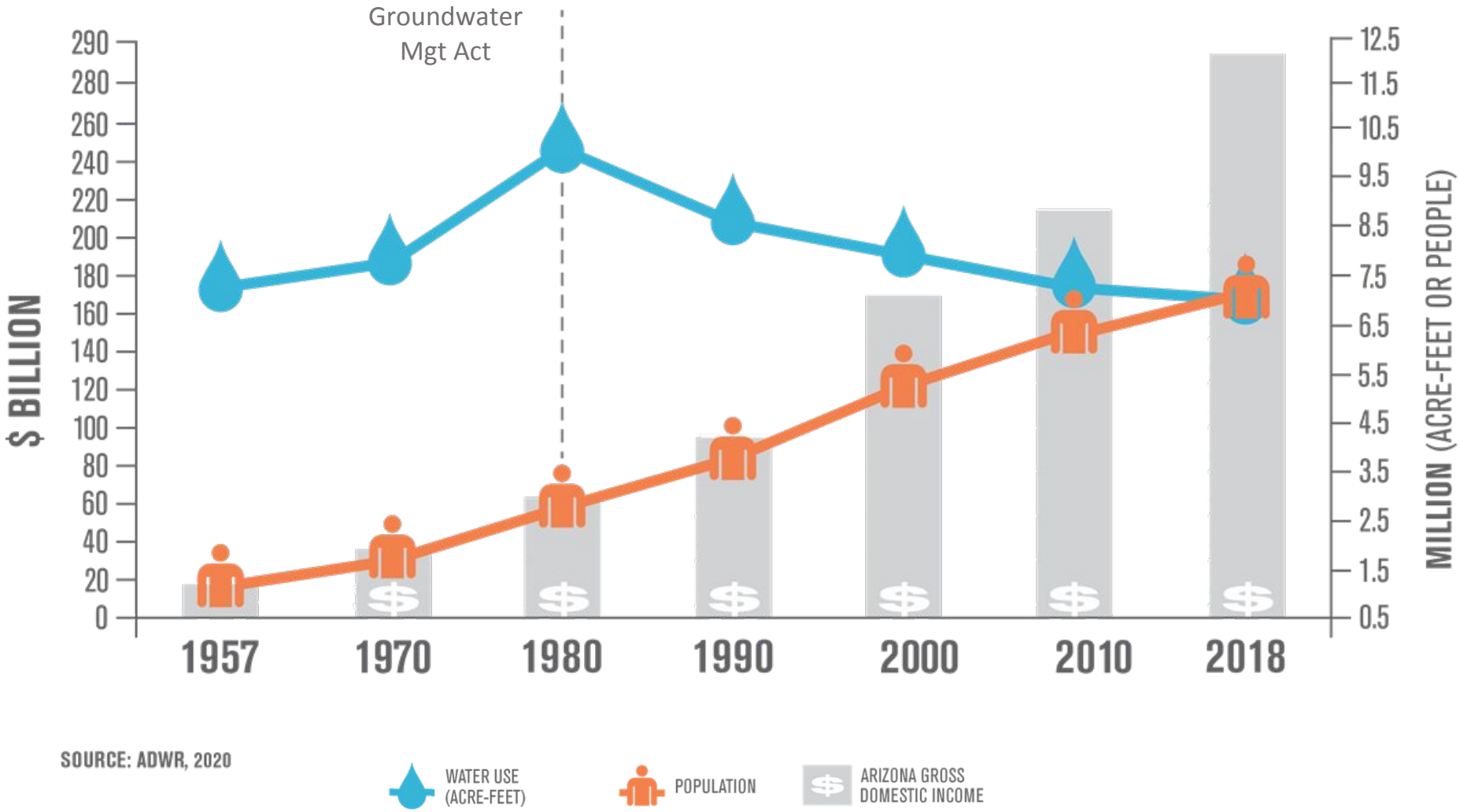
Lake Mead Elevation	AZ [2007]	AZ [Plan]	AZ TOTAL	NV [2007]	NV [Plan]	NV TOTAL	CA [2007]	CA [Plan]	CA TOTAL	BOR	TOTAL
1090-1075	0	192K	192K	0	8K	8K	0	0	0	100k	300k
1075-1050	320K	192K	512K	13K	8K	21K	0	0	0	100k	633k
1050-1045	400K	192K	592K	17K	8K	25K	0	0	0	100k	717k
1045-1040	400K	240K	640K	17K	10K	27K	0	200K	200K	100k	967k
1040-1035	400K	240K	640K	17K	10K	27K	0	250K	250K	100k	1,017k
1035-1030	400K	240K	640K	17K	10K	27K	0	300K	300K	100k	1,067k
1030-1025	400K	240K	640K	17K	10K	27K	0	350K	350K	100k	1,117k
<1025	480K	240K	720K	20K	10K	30K	0	350K	350K	100k	1,200k


Flagstaff
Prescott
Phoenix
Casa Grande
Yuma
Tucson
% Reclaimed
%
SW
%GW
Basin with
mixed water use
Basin with
>75%
Surface
Water (SW) Use
Basin with
>75%
Groundwater
(GW) Use
Source: ADWR 2016
Source:


Colorado Plateau
Flagstaff
Joseph City INA
Prescott AMA
Harquahala INA
Phoenix AMA
Pinal AMA
Tucson AMA
Santa Cruz AMA
Douglas INA

AMA/INA ≤35 GPM *(exempt)*	AMA/INA >35 GPM *(non-exempt)*	Non-AMA/INA ≤35 GPM	Non-AMA/INA >35 GPM
2% of total statewide pumping capacity	**48%** of total statewide pumping capacity	**3%** of total statewide pumping capacity	**47%** of total statewide pumping capacity
31% of all the wells in the state	**10%** of all the wells in the state	**46%** of all the wells in the state	**13%** of all the wells in the state
NOT required to meter and report groundwater withdrawals	required to meter and report groundwater withdrawals	NOT required to meter and report groundwater withdrawals	Community Water Systems must report water delivered annually (can estimate)

Arizona Water Demand & Growth



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Arizona
Water
Blueprint

azwaterblueprint.asu.edu

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