



Peoria's Diverse Water Portfolio

May 9, 2012

Where Peoria's water comes from and
how we encourage people to conserve

Presented by

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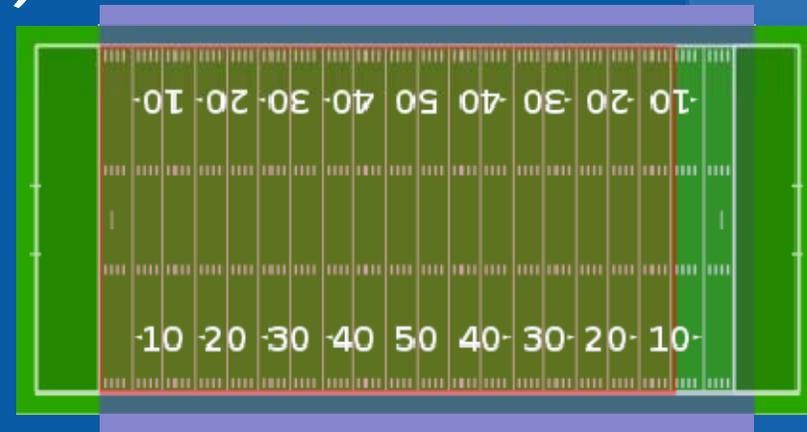
Environmental Resources Manager

Public Works-Utilities Department

What's an acre-foot?



- One acre foot of water equals 325,851 gallons, the amount used by a family of four in one year (223 gallons per person per day*)



*Peoria customers currently use on average 155 gpcd

Where Peoria Gets Water

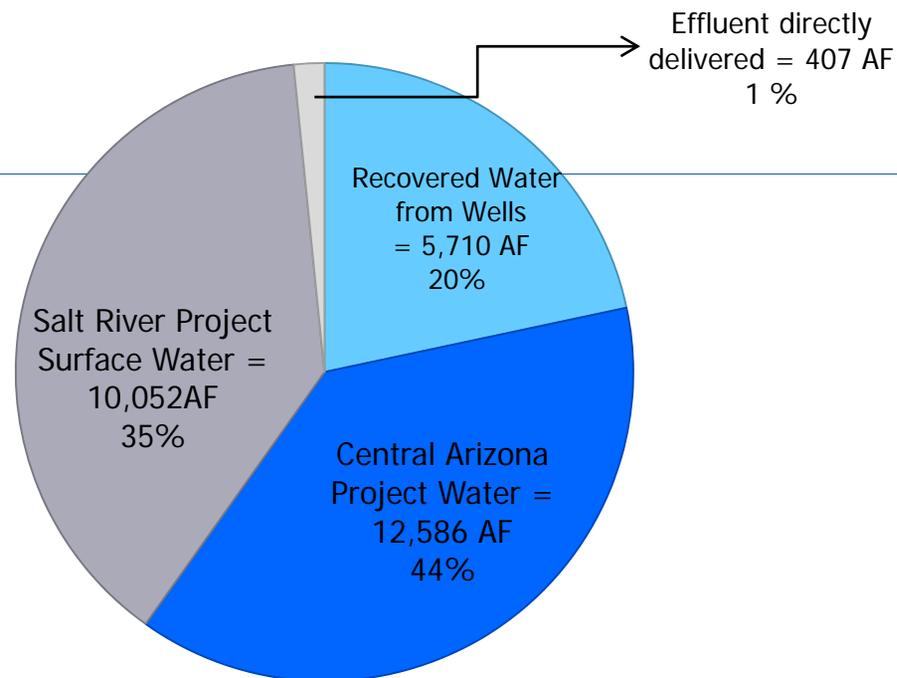


- Salt-Verde River water from SRP
- Colorado River water from CAP
- Stored water (groundwater) recovered from wells
- Reclaimed water directly delivered

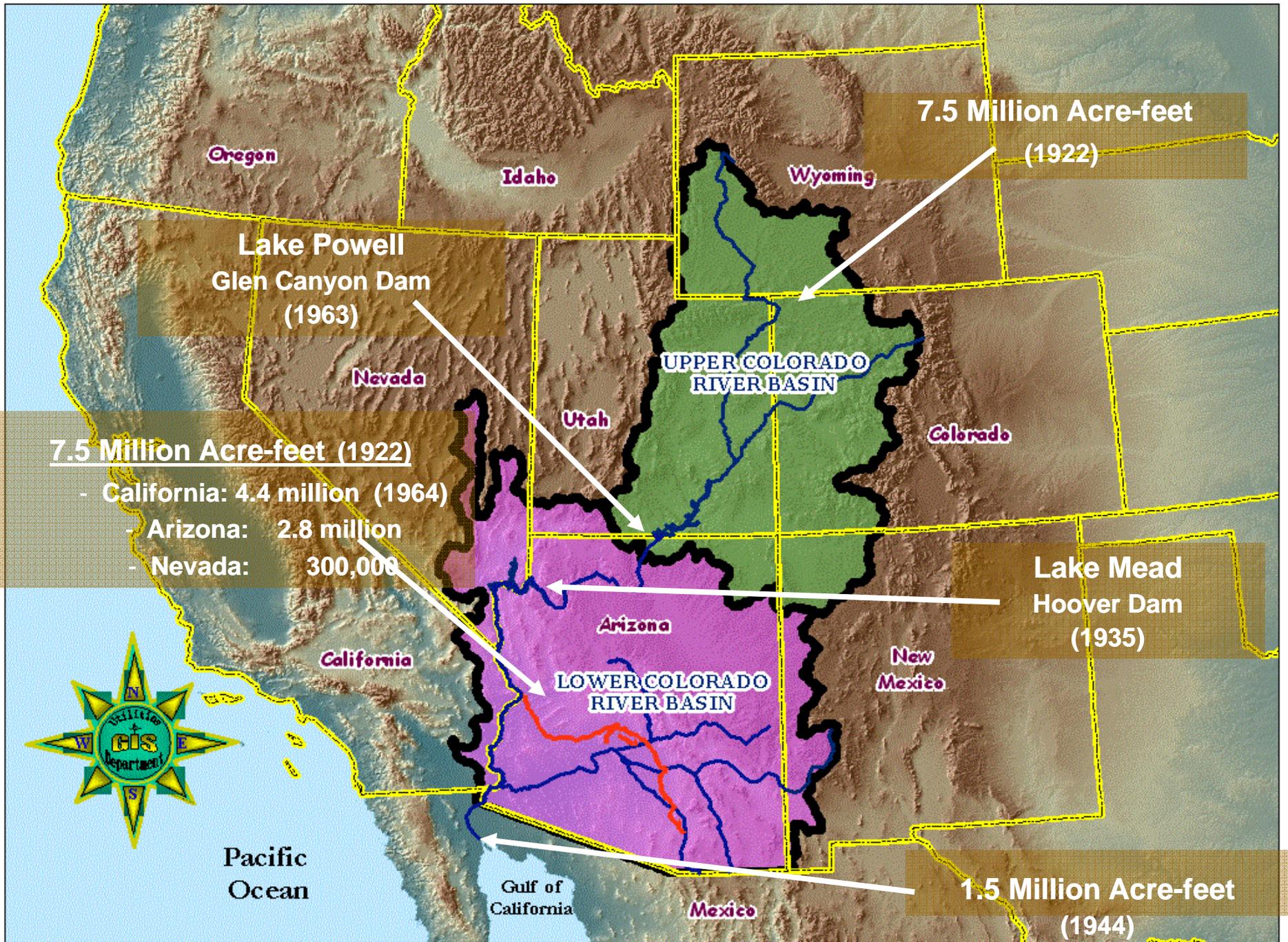
A Diverse Portfolio



Figure 1 - 2011 Water Supply Portfolio

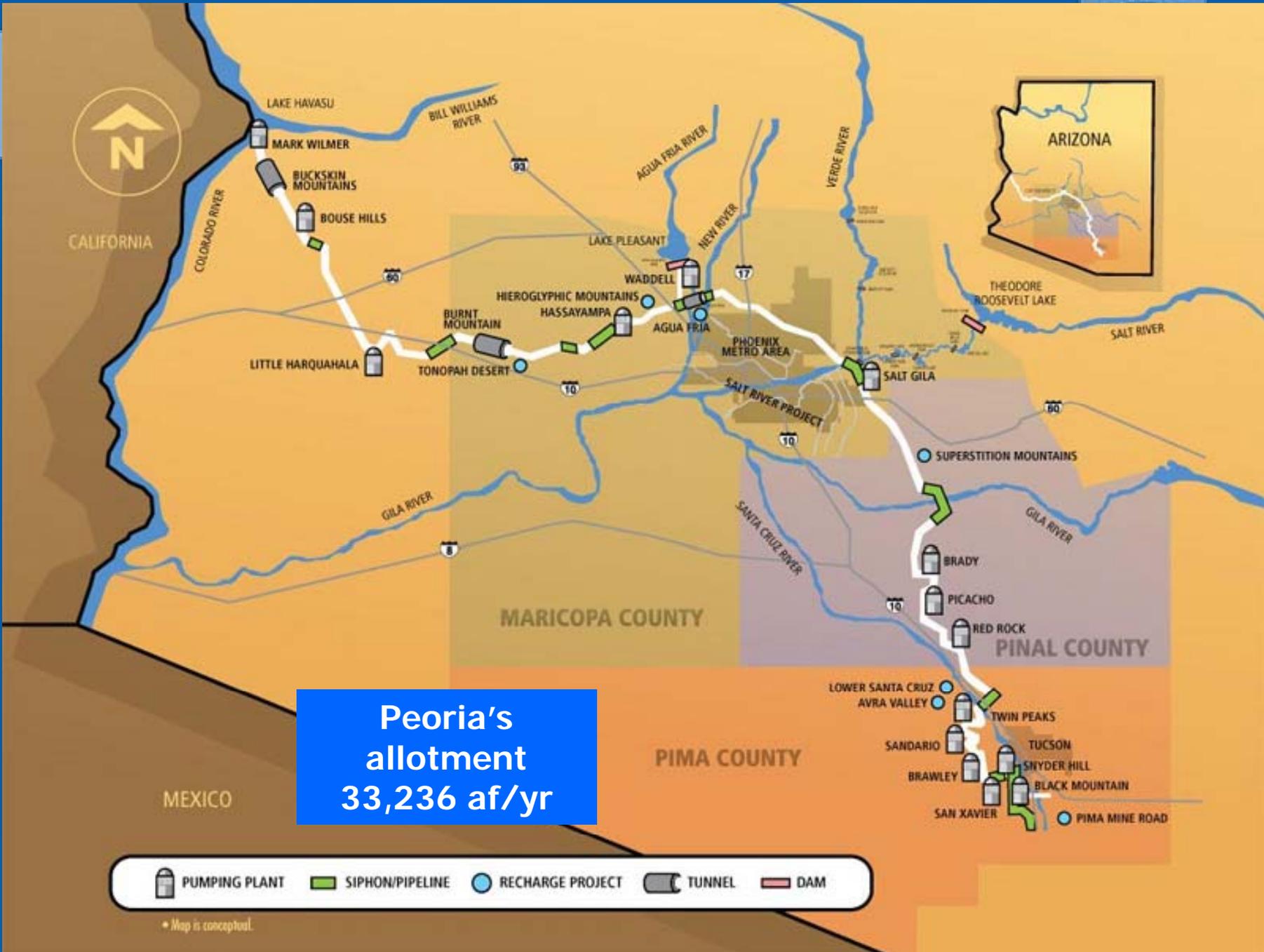


Total Water Supply = 28,755 acre-feet





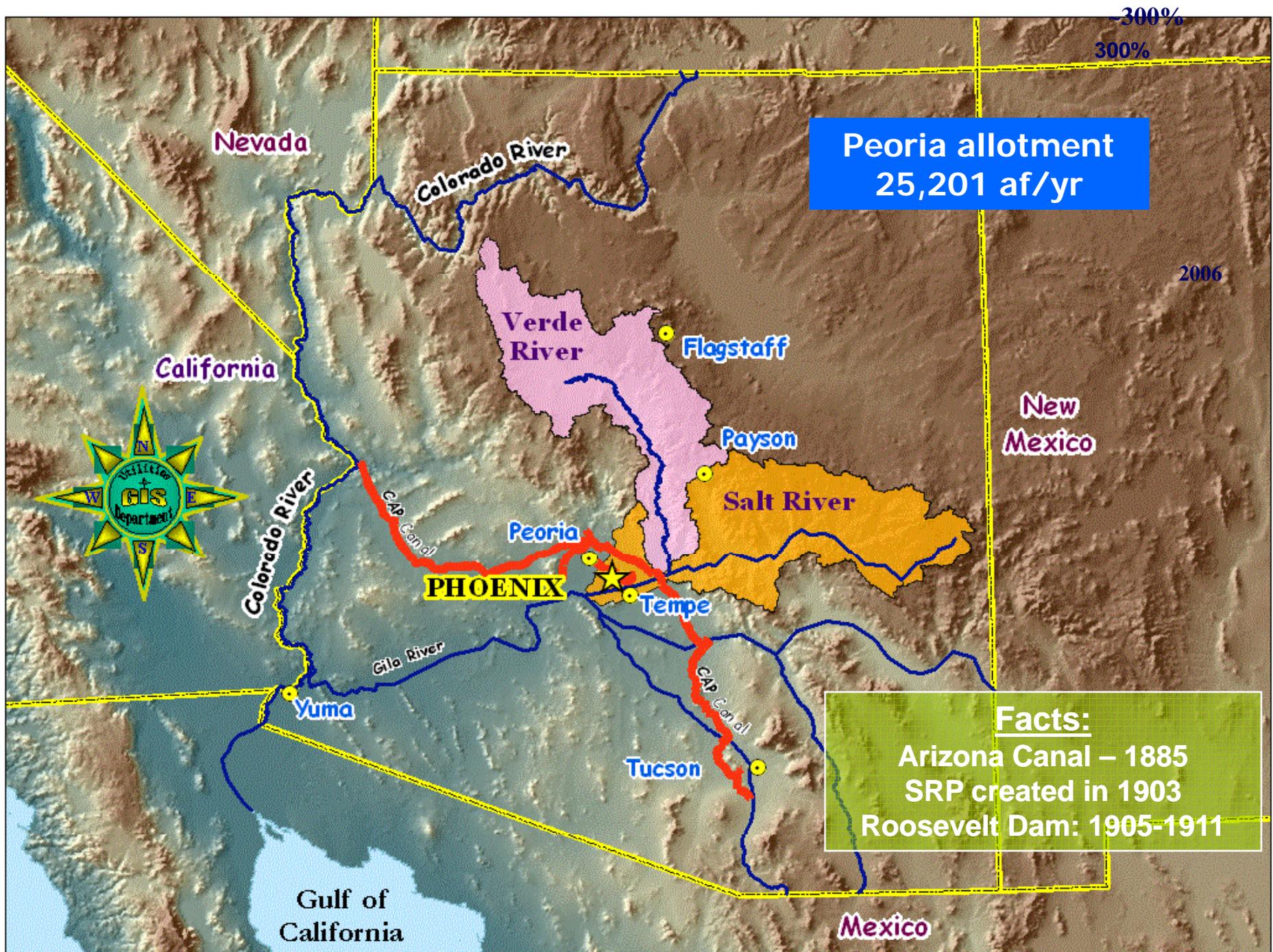
CALIFORNIA



**Peoria's
allotment
33,236 af/yr**

-  PUMPING PLANT
-  SIPHON/PIPELINE
-  RECHARGE PROJECT
-  TUNNEL
-  DAM

* Map is conceptual.



Peoria allotment
25,201 af/yr

Facts:
Arizona Canal – 1885
SRP created in 1903
Roosevelt Dam: 1905-1911

300%
300%

2006



Nevada

California

New Mexico

Mexico

Gulf of California

Colorado River

Colorado River

Gila River

Verde River

Salt River

Flagstaff

Payson

Peoria

PHOENIX

Tempe

Tucson

CAZ Canal

CAZ Canal



Groundwater mining is real problem



Groundwater/Recovered Water



- Groundwater must be replenished to meet "Safe Yield"
 - Recharge and recovery by Peoria – we put in at least as much water as we take out annually
- Peoria stores water underground at four underground storage facilities.
- Stored water then can be pumped from wells and is then recovered water.

Designation of Assured Water Supply (DAWS)



- Peoria must show water supply that is physically, continuously, legally available for 100 years and of sufficient quality
- Goal is to be on replenishable supplies
 - Surface water
 - Reclaimed water
- Designation allows Peoria to better regulate growth of subdivisions by plat approval

Reclaimed Water Directly Delivered



Direct use of recycled water for amenities, landscaping, golf courses, other non-potable uses



DRIVER'S INSTRUCTIONS

- 1 To activate wash, insert fuel key.
- 2 **DO NOT** enter the building if the traffic light at the entrance is **RED**. If Red Light is ignored and vehicle enters wash bay on Red, equipment will not start. Wait until light turns green. If no light is on, the main panel is in the off position. Please contact Fleet Services at: 623-773-7434.
- 3 Be sure all windows and vents are tightly closed.
- 4 **DO NOT** turn on wipers until wash is completed.
- 5 **DO NOT** back up in the wash bay at any time.
- 6 Keep truck in center of bay at all times.
- 7 **DO NOT** make any drastic corrections to the steering wheel at any time.
- 8 Enter wash bay **ONLY** when green light is on. Enter only from the side where red/green traffic light is located (North Side). If light turns **RED, STOP!** Proceed only when light turns green.
- 9 Make sure vehicle is in low gear and drive slowly through washer.
- 10 Pace truck with **Green Pacer** lights through wash bay.
- 11 The rinse arch indicator lights are viewed through the rear view mirror. The amber light shows that the front system is on. When the red light comes on, stop the vehicle for rear rinse. Once the red light turns off, the wash cycle is complete. Pull out slowly.
- 12 **If the vehicle should stall or get stuck, stay in the vehicle until the wash equipment turns off. The wash has a safety shutdown after 90 seconds.**

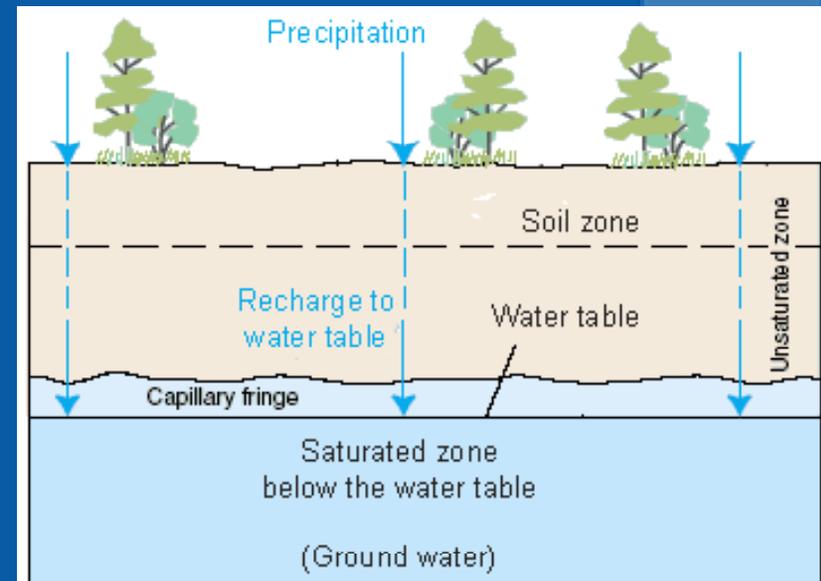


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Recharge Program



- 4 Underground Storage Facilities
- Sources include CAP and reclaimed water
- Provides drought supply
- Provides recovery water (safe yield)



Water Conservation

...because ...

Peoria has enough water to use, but we never have enough to waste™



- Public Education - Youth and Adult Programs
- Community Outreach - Events, Speaker's Bureau Free Literature
- Retrofit Program
- Financial Incentives
- Track WC -Related Legislature
- Marketing/Promo - News Releases, Ads
- Regional Partnerships



City of Peoria

Desert Fusion Garden



Environmental *AWARD* winning landscape conversion.

What Xeriscape should be....not zero-scape.

Financial Incentives



- Designed to encourage residents to participate in efforts to conserve water
- Multiple opportunities – Irrigation Timer, Hot Water Recirculator, Xeriscape Conversion (On-site inspections), High Efficiency Toilet and New Home Xeriscape (new July 1)
- Credit is applied to utility bill



Sustainable Water Portfolio

- Surface water in fixed amounts remains the basis of Peoria's water supply
- Stored water is our drought supply, augmenting surface water
- Recharge of excess surface water and reclaimed water are critical to Peoria's water supply
- Direct use of reclaimed water offers significant opportunities for the future
- Water Conservation is the best way to reduce demand

