



The CAP System

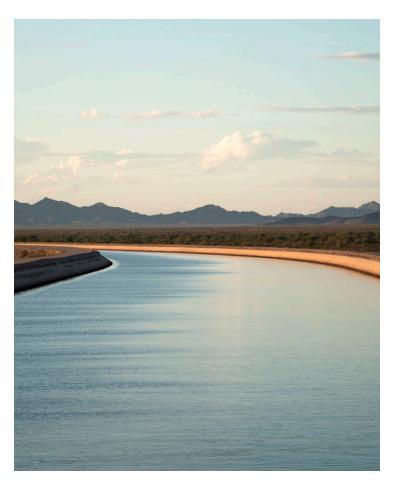
Lisa A. Atkins, CAWCD Board Member

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The CAP System

System facts

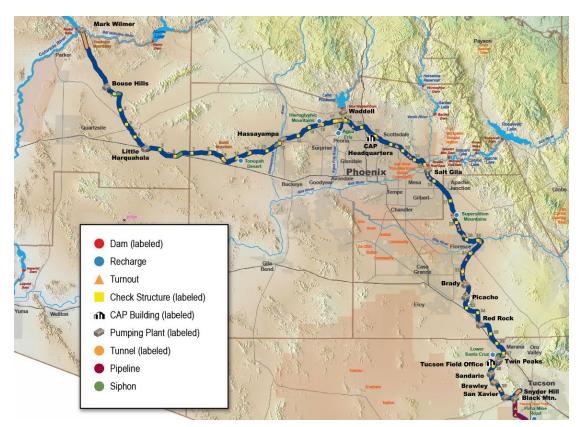
Water deliveries





System Facts

- 336-mile-long aqueduct
 - 14 pumping plants lift water nearly 3,000 feet
 - 10 siphons, 4 tunnels
- Begins at Lake Havasu and ends just south of Tucson
- Includes storage reservoir Lake Pleasant





System Facts - Operations

Everything is operated and monitored from our **Control Center** at Headquarters in Phoenix. Tucson Field Office



System Facts - Pumping Plants

- 14 pumping plants lift water to flow by gravity to the next plant
- Lift at each plant varies: 67 to 810 feet
- Mark Wilmer Pumping Plant at Lake Havasu (here), the first plant in the system, lifts water more than 800 vertical feet





System Facts - Tunnels

- Four tunnels move water through mountainous terrain
- Burnt Mountain Tunnel (here) in Maricopa County:
 - o 60 miles west of Phoenix
 - Diameter: 19.5 feet
 - Length: .6 miles long





System Facts - Turnouts

- More than 50 throughout CAP system
- Help deliver raw Colorado River water, typically to more than 60 water users, including municipalities, agricultural users and tribal communities





System Facts – New Waddell Dam: Lake Pleasant

- Earthen-fill dam nearly 5,000 feet long
- Forms CAP's storage reservoir, Lake Pleasant
- Lake Pleasant stores more than 800,000 acre-feet of water and is a recreational destination for more than 750,000 people annually





System Facts – Recharge Projects

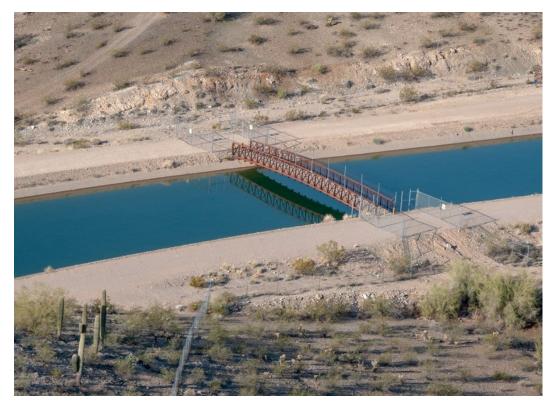
- Long-established, effective water management tool
- Allows renewable surface water supplies to be stored underground now for recovery later during periods of reduced water supply
- CAP maintains 6 recharge projects to store Colorado River





System Facts - Wildlife Crossings

- Constructed to maintain wildlife migration corridors
- Wildlife watering tanks were installed outside CAP's security fence to ensure wildlife have access to fresh water

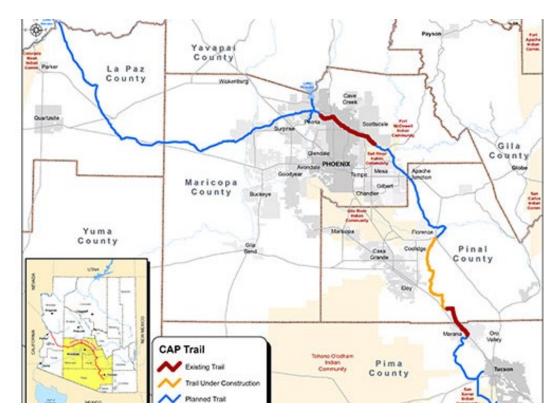




System Facts - CAP Trail

 Long distance, non-motorized, multiuse recreational trail corridor

 Runs along the CAP canal traversing Maricopa, Pinal and Pima counties





CAP Water Usage: 2022



Municipal & Industrial (subcontracts)



Tribal (contracts)



Agricultural



The CAP System: Key Take-Aways

- The CAP System is 336 miles long from Lake Havasu to Tucson
- The system includes 14 pumping plants that lift water nearly 3,000 feet
- Lake Pleasant is CAP's storage reservoir
- CAP stores Colorado River water underground in recharge projects
- CAP's three customer types are: Municipal/Industrial, Tribal and Agricultural







Thank you!

Email Questions to:

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