

Streams

- Chino Creek, Falls Creek, Snow Creek, Whitewater River
- Less than 1% of supply valley wide



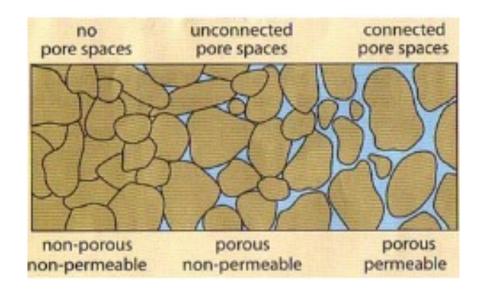






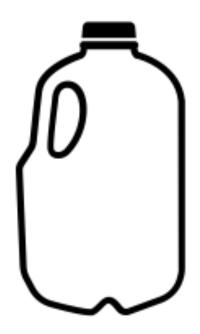
Aquifer

- >34.8 million acre feet stored (MAF) in first 1000 ft
- 39.9 MAF storage capacity in first 1000 ft
- Each year valley uses about .3 MAF of groundwater
- About 130 years worth of water
- -Depth to water varies

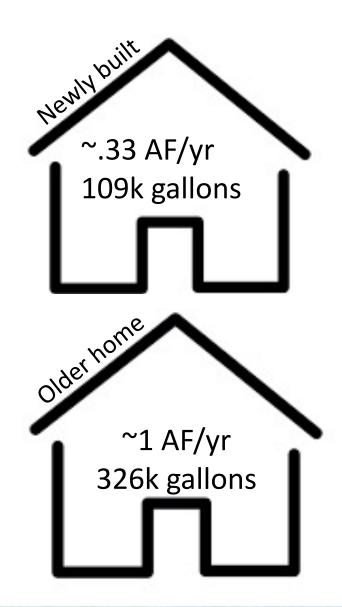




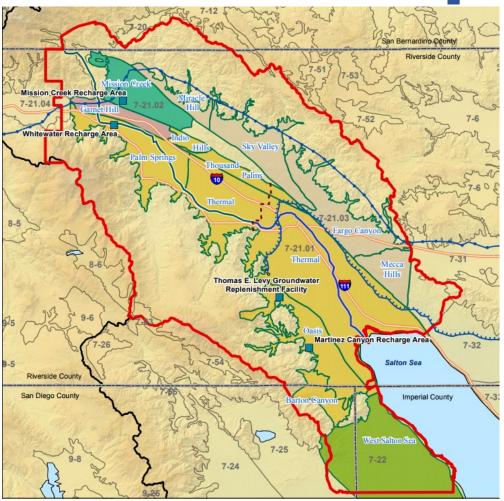
Acre foot



325,851 gallons



Subbasin map



Groundwater Basins in Coachella Valley

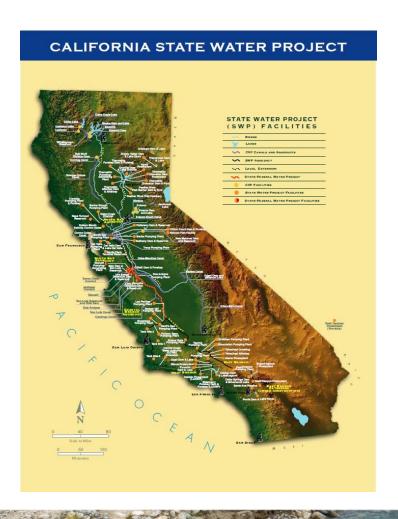
Desert Hot Springs 2.5 MAF
Garnet Hill 1 MAF

Indio/Whitewater River 28.8 MAF

Mission Creek 2.5 MAF



State Water Contractor



- Two of 29 in the state
- That's why DWA was formed back in 1961
- Work with DWR to maintain statewide system
- Pay to import water

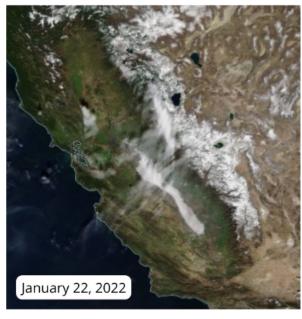


Sierra Nevada



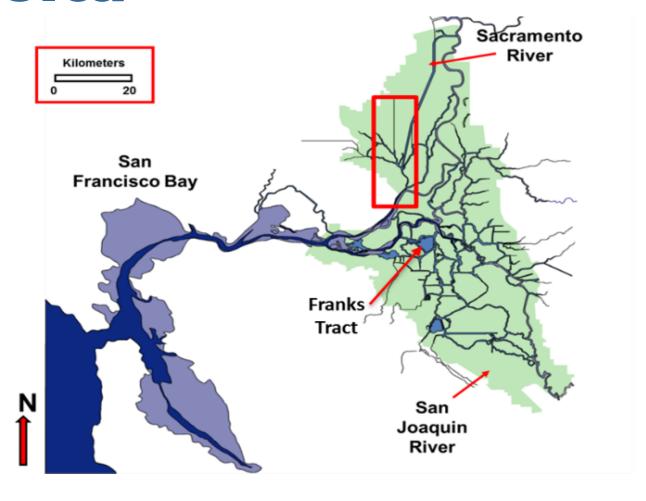








The Delta



The Delta



- More than 30 million acre feet flow through each year
- About half the total river flow in the state passes through this region
- Supplies an estimated 7
 million acre feet of water
 per year to approximately
 23 million people

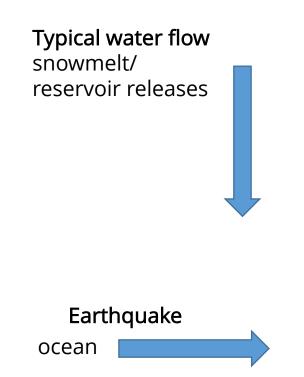


Regulations





Earthquakes







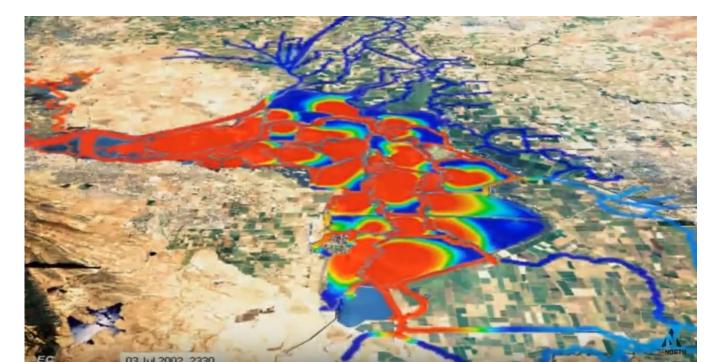
Earthquakes







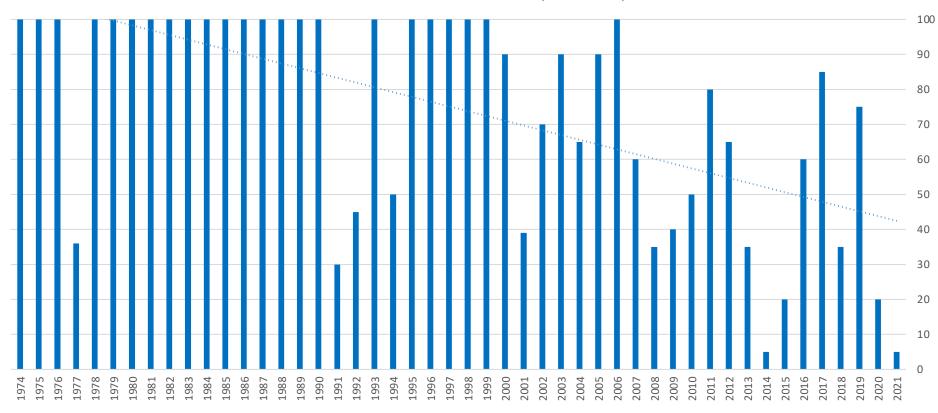
Before



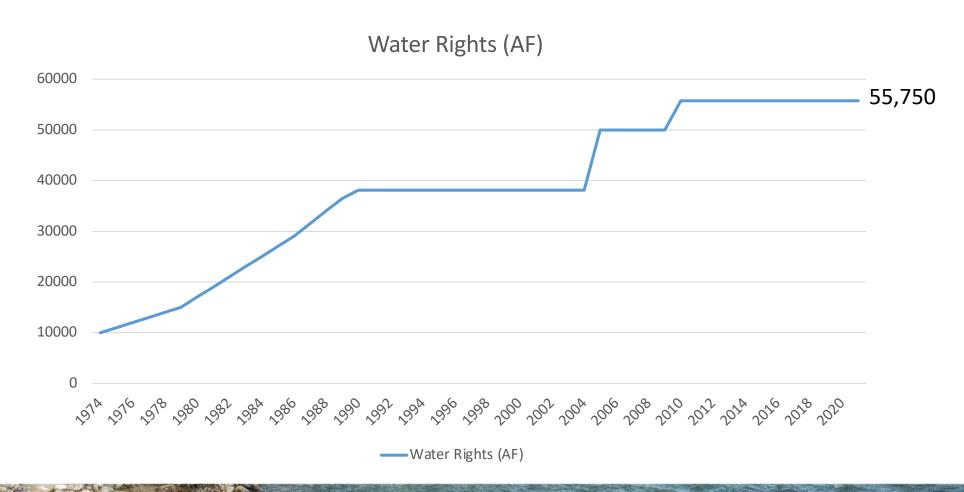
After

State Water Project reliability





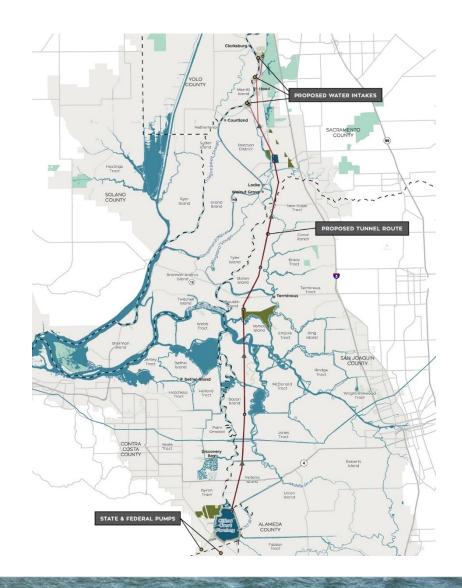
DWA State Water Project imports





Delta Conveyance Project

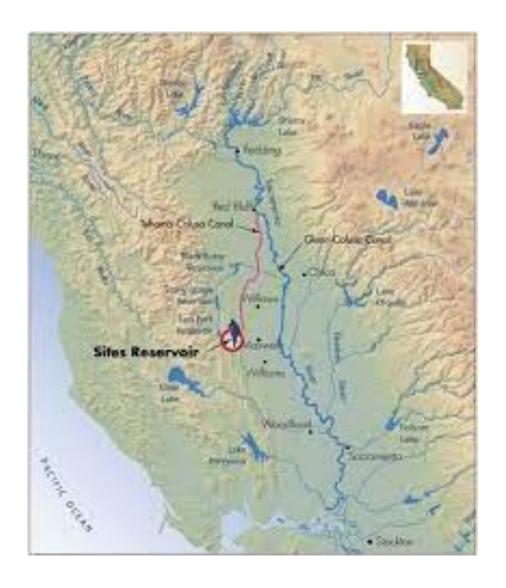
- Single tunnel
- Increase reliability and deliveries
- Less vulnerable to quakes
- Won't be completed for decades
- Still pending Environmental Permitting



Sites Reservoir

Flexible Storage Solution

- Does not rely on Snow Pack
- Is adaptable to future climate change
- Fills during more frequent flooding events
- Is ideal for dry year water supply
- Increases flexibility of other California Reservoir operations and potentially increases overall water supply for domestic and irrigation purposes

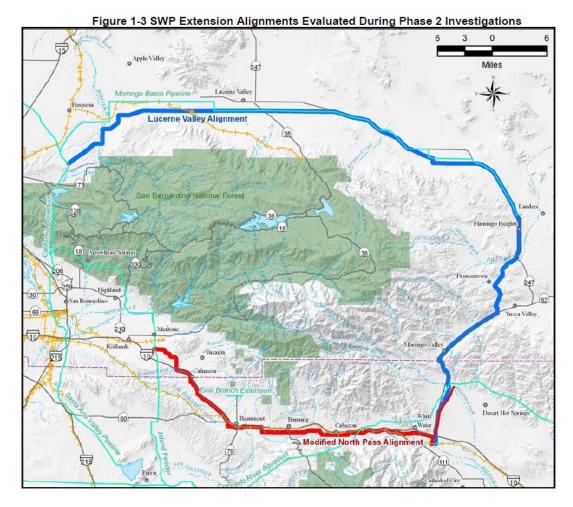


SoCal end point

- Ends at Lake Perris
- Furthest east extension in Beaumont



Possible routes to valley



- Two routes
 - Lucerne Valley
 - 88 miles
 - San Gorgonio Pass
 - 38 miles
- Would cost about \$1.6B



MWD exchange







- Trade Colorado River water for State water
- Avoid building +\$1.6B pipeline
- Saves ratepayer money
- Guaranteed delivery
- Get advanced deliveries to help groundwater levels



Colorado River



- Trade Colorado River water for State water
- Avoid building +\$1.6B pipeline
- Saves ratepayer money
- Get advanced deliveries to help groundwater levels

Water replenishment



- Two west valley facilities for SWP
- One mid-valley location
- One east valley location



Whitewater Hydro





Whitewater River





Whitewater River





Whitewater Groundwater Replenishment Facility





Mission Creek Groundwater Replenishment Facility





Thank you!

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