

Water Supply

Bringing Water into the Coachella Valley

MARK KRAUSE, GENERAL MANAGER
DESERT WATER AGENCY
FEBRUARY 11, 2021

Water
COUNTS
ACADEMY

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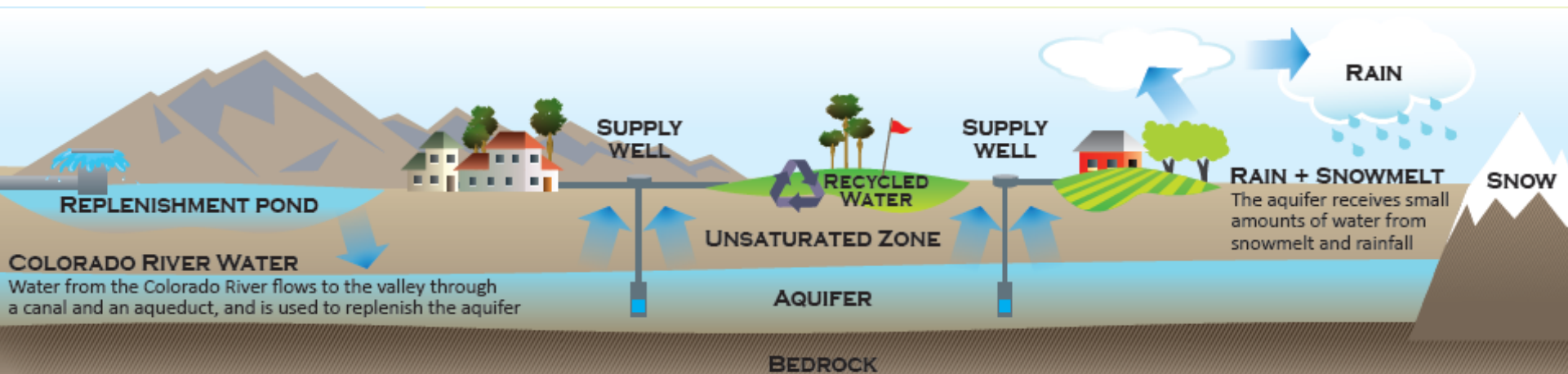
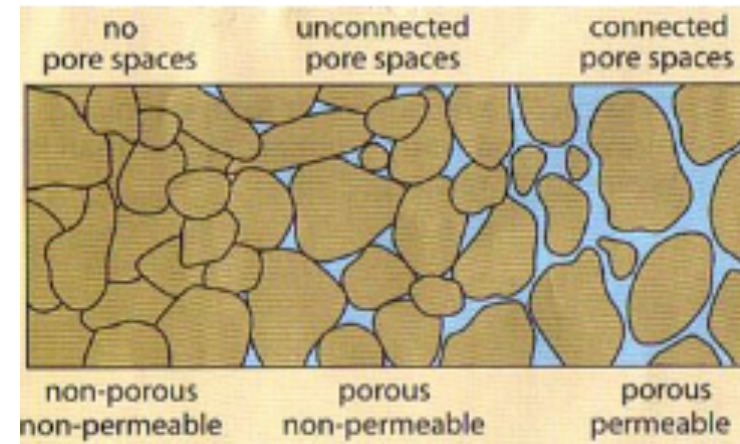

Streams

- Chino Creek, Falls Creek, Snow Creek, Whitewater River
- About 15% of DWA supply (currently 5%)
- Less than 1% of supply valley wide



Aquifer

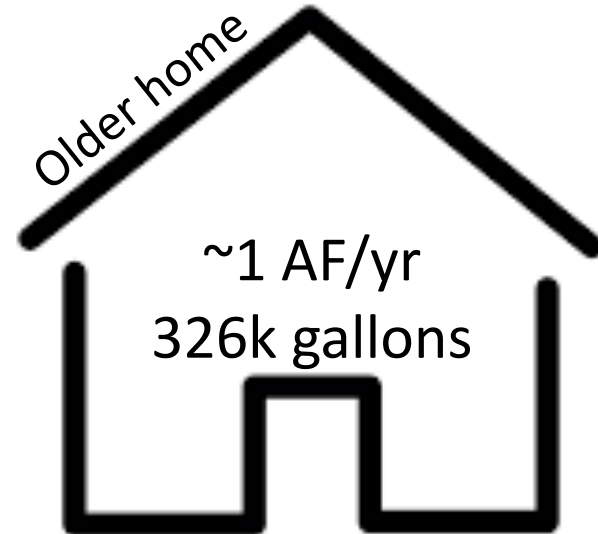
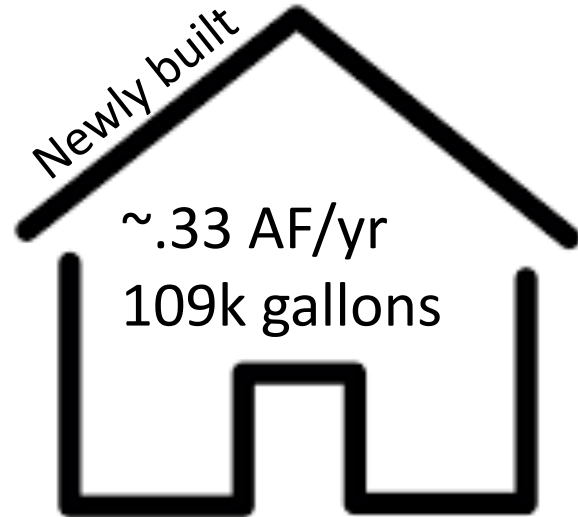
- >34.8 million acre feet stored (MAF) in first 1000 ft
- 39.9 MAF storage capacity in first 1000 ft
- Each year valley uses about .3 MAF of groundwater
- About 130 years worth of water
- Depth to water varies



Acre foot



325,851
gallons



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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

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State Water Contractor

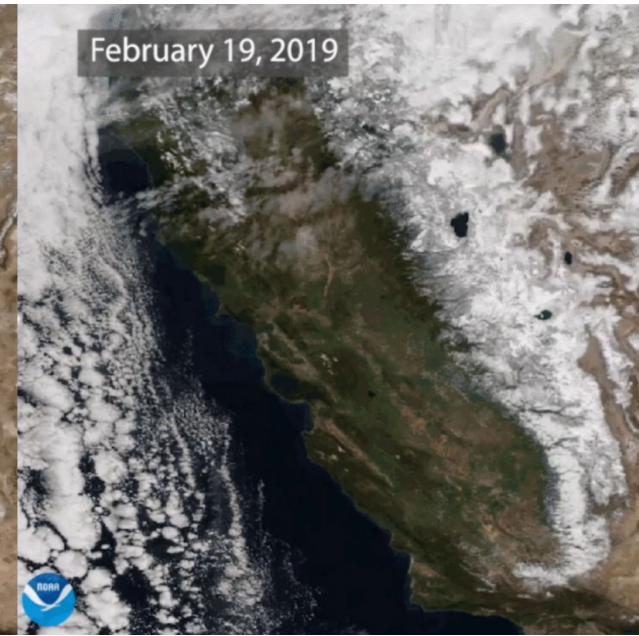


- Two of 29 in the state
- That's why DWA was formed back in 1961
- Work with DWR to maintain statewide system
- Pay to import water

Sierra Nevada



Feb. 15, 2018



Feb 19, 2019

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

DELTA SMELT NEAR EXTINCTION



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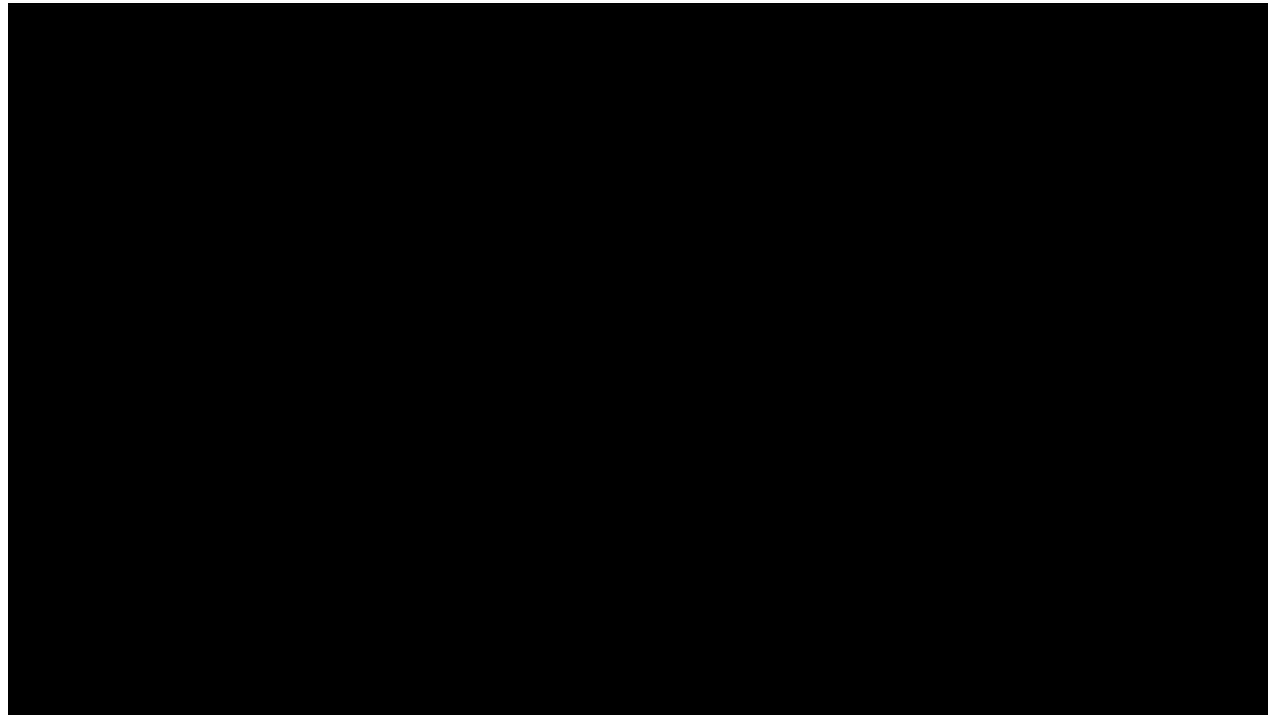


Earthquakes

Typical water flow
snowmelt/
reservoir releases



Earthquake
ocean

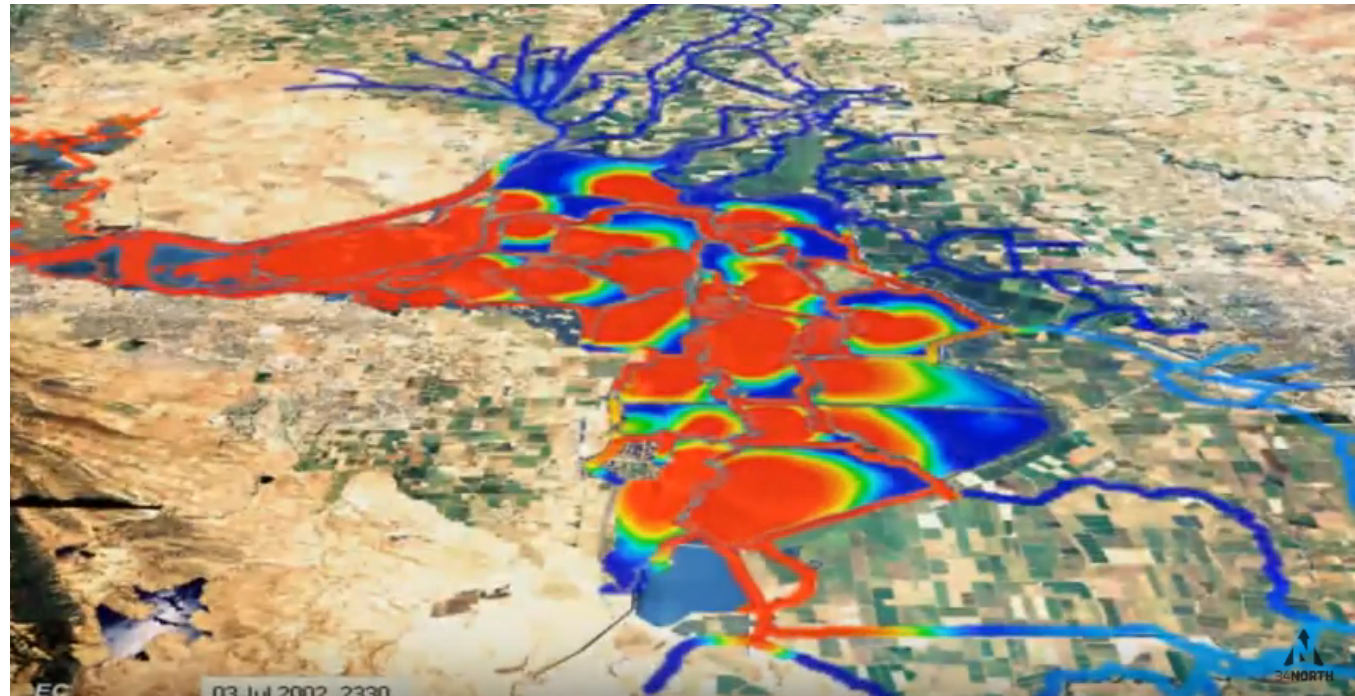


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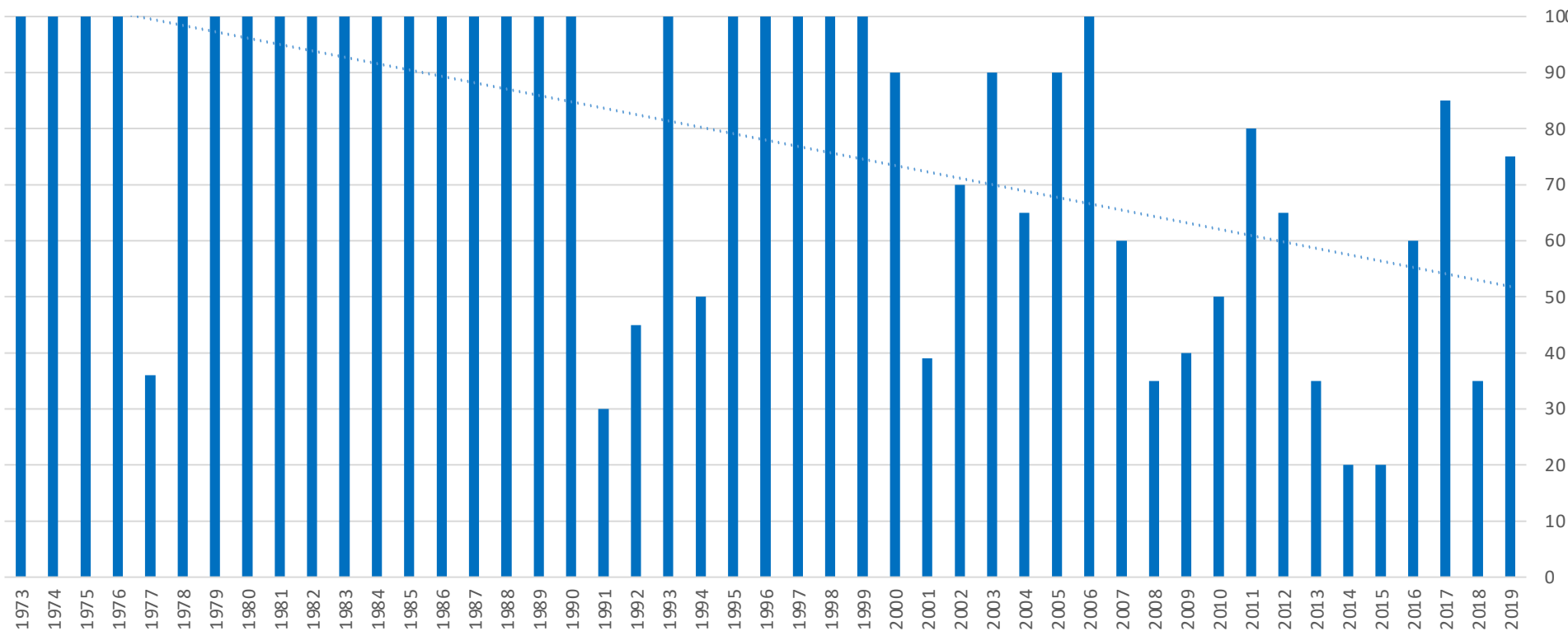
Before



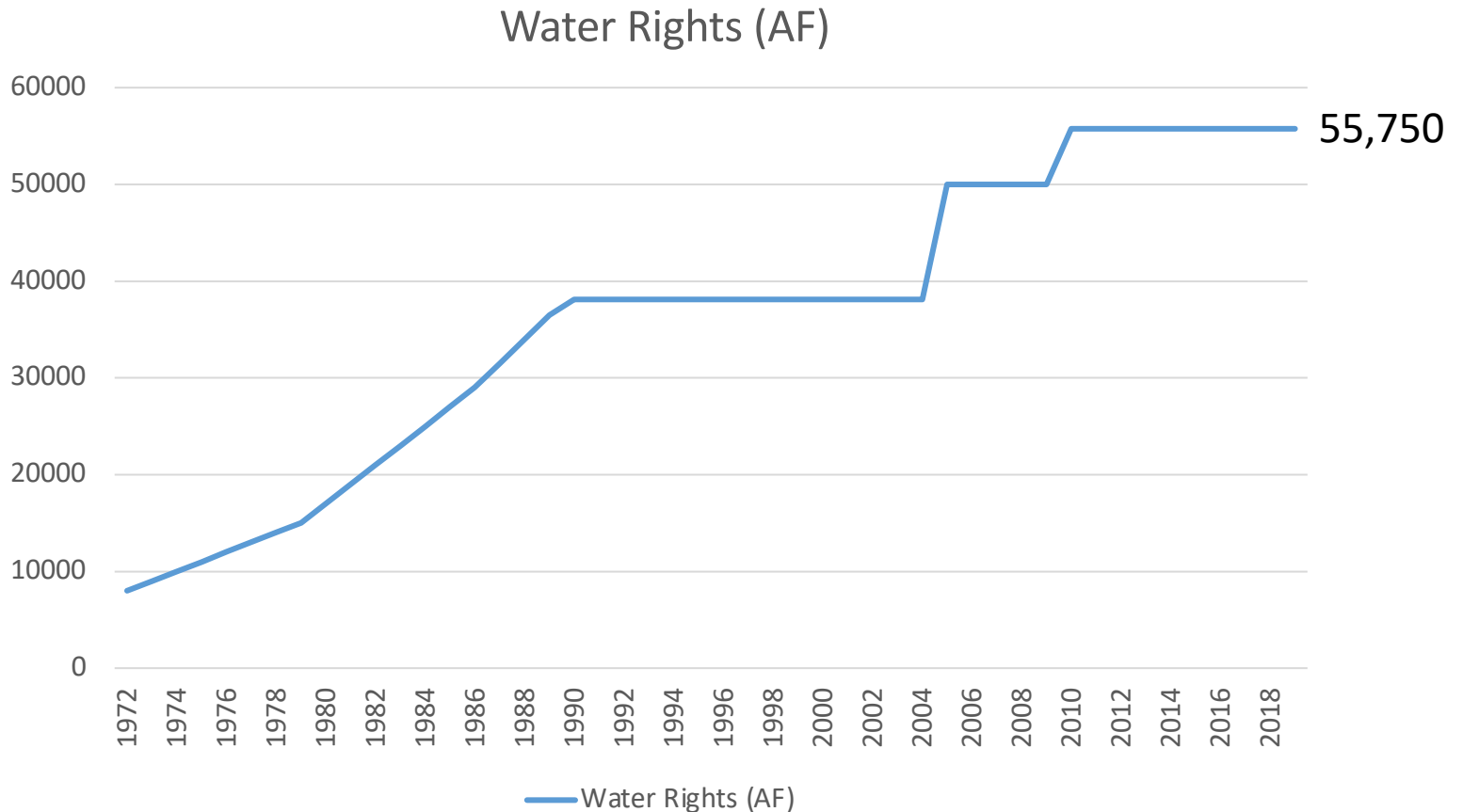
After

State Water Project reliability

Percent of Water Entitlement (Allocation)

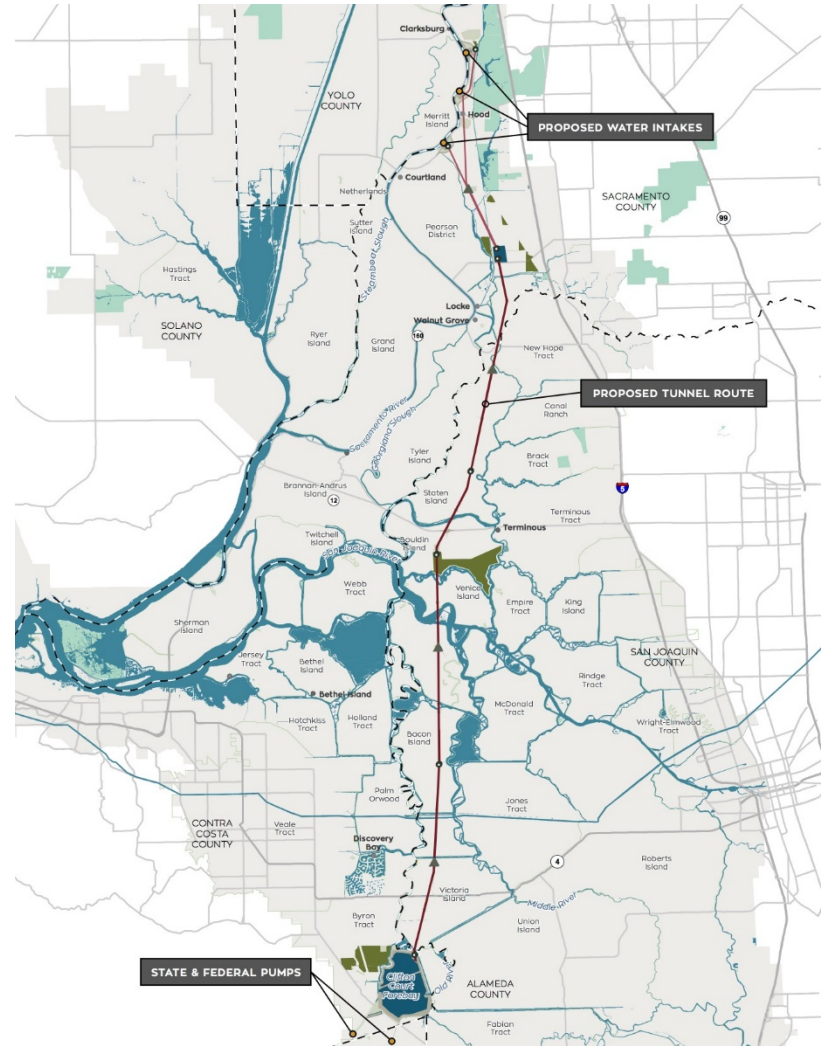


DWA State Water Project imports



Delta Conveyance Project

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



SoCal end point



- Ends at Lake Perris
- Furthest east extension in Beaumont

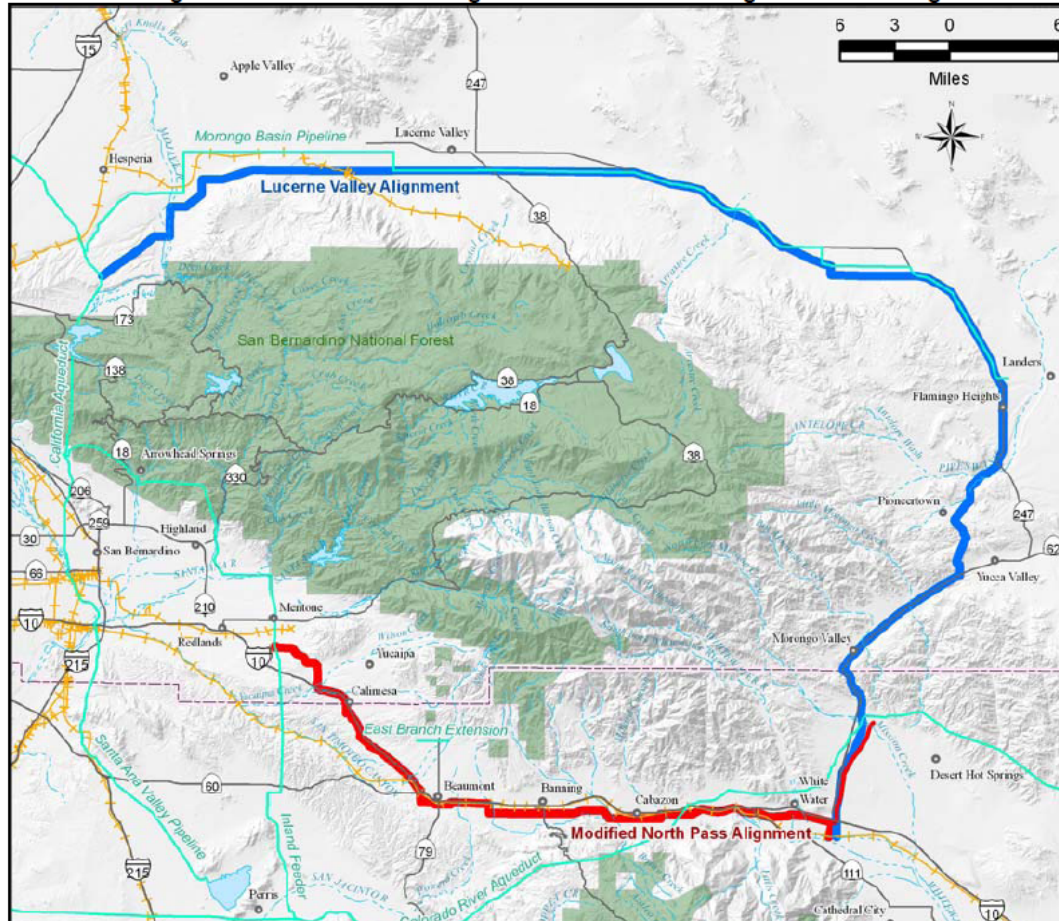


Click on the facility name to see a detailed map.



Possible routes to valley

Figure 1-3 SWP Extension Alignments Evaluated During Phase 2 Investigations



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

MWD exchange



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

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Colorado River



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

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Water replenishment



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

Water replenishment







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Questions?

Mark Krause
mkrause@dwa.org
760-323-4971