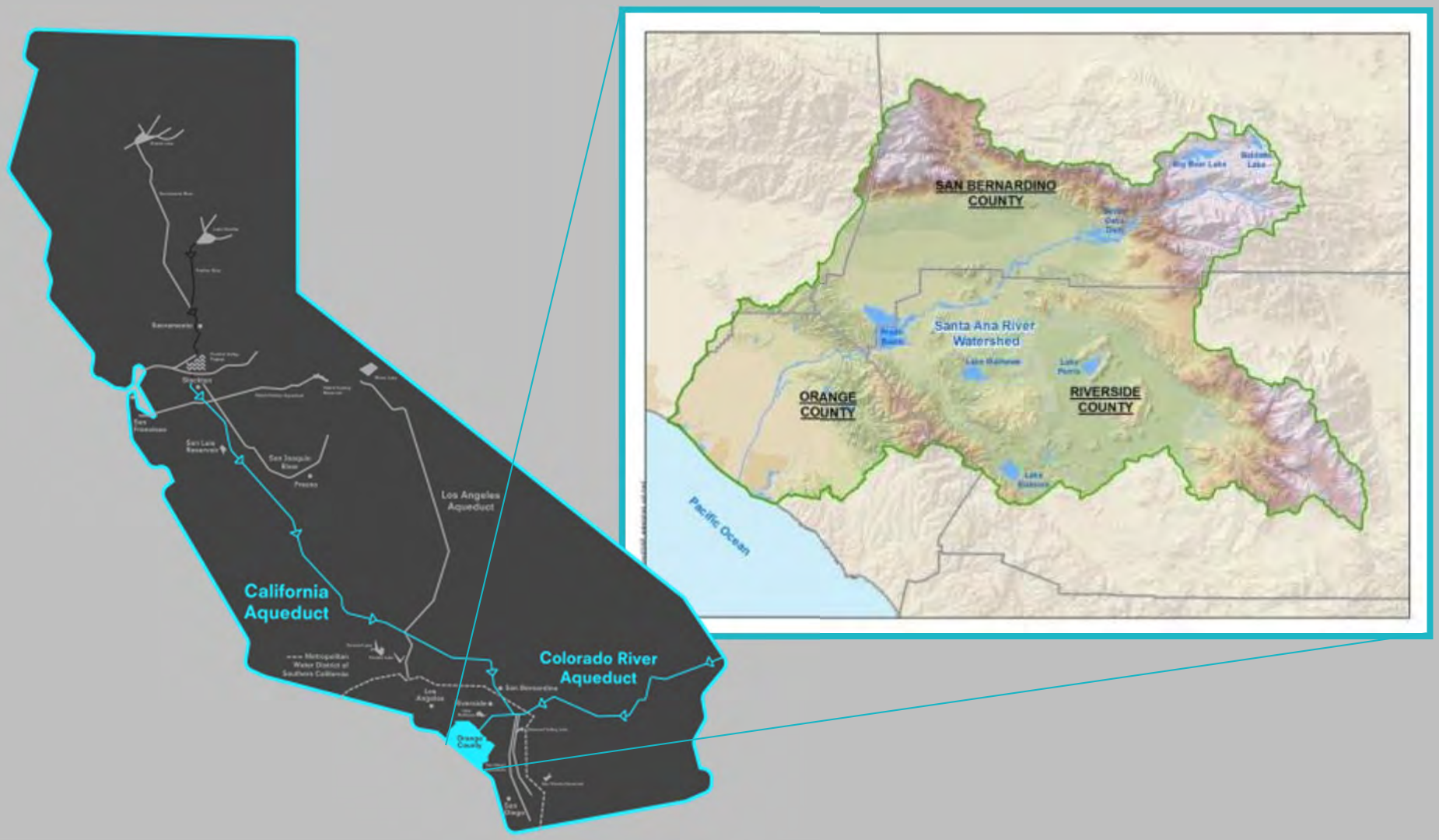
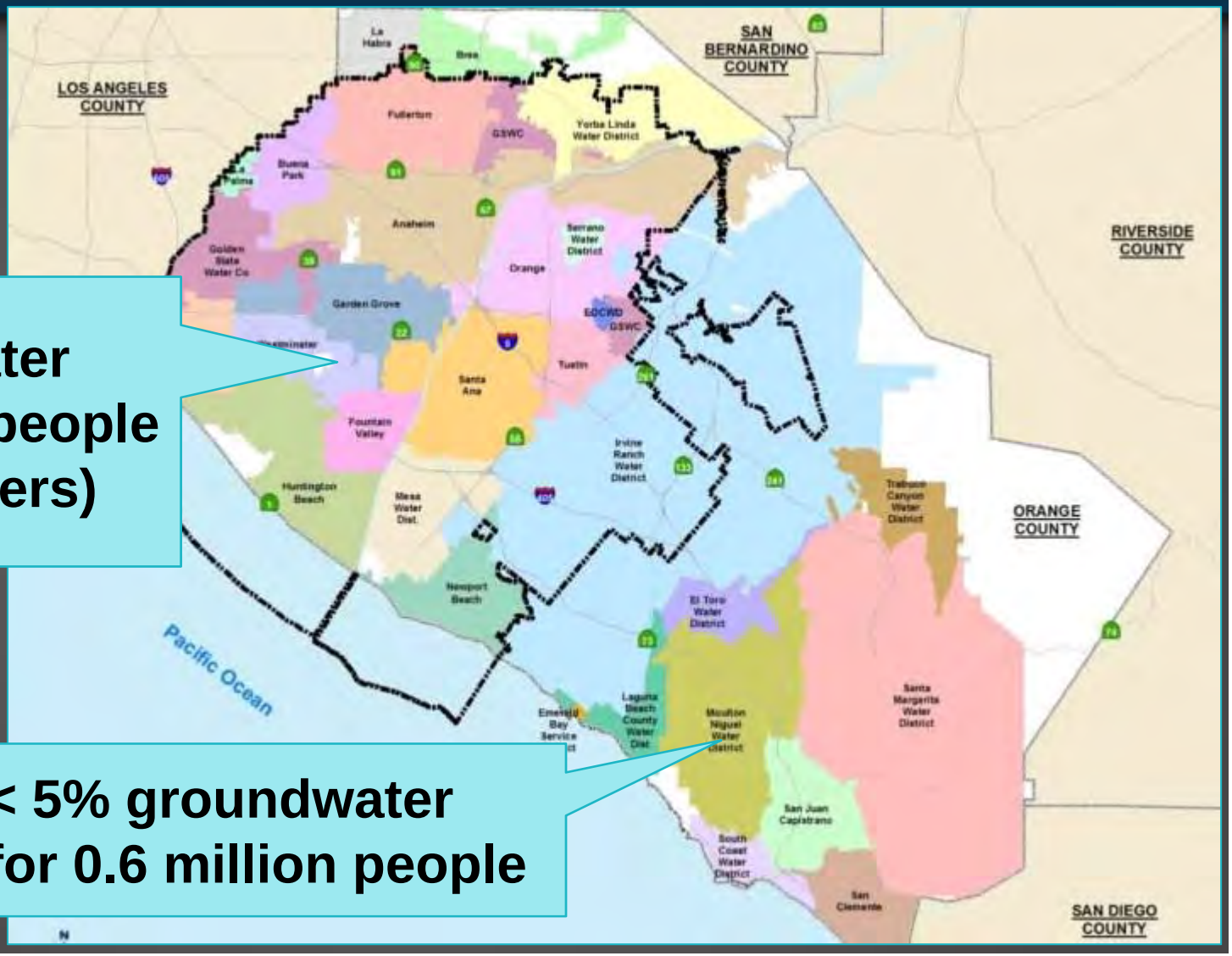
ORANGE COUNTY WATER DISTRICT

The Orange County groundwater basin lies at the base of the Santa Ana River watershed.



OCWD overlies the groundwater basin in the northern half of Orange County.



70% groundwater for 2.4 million people (19 water retailers)

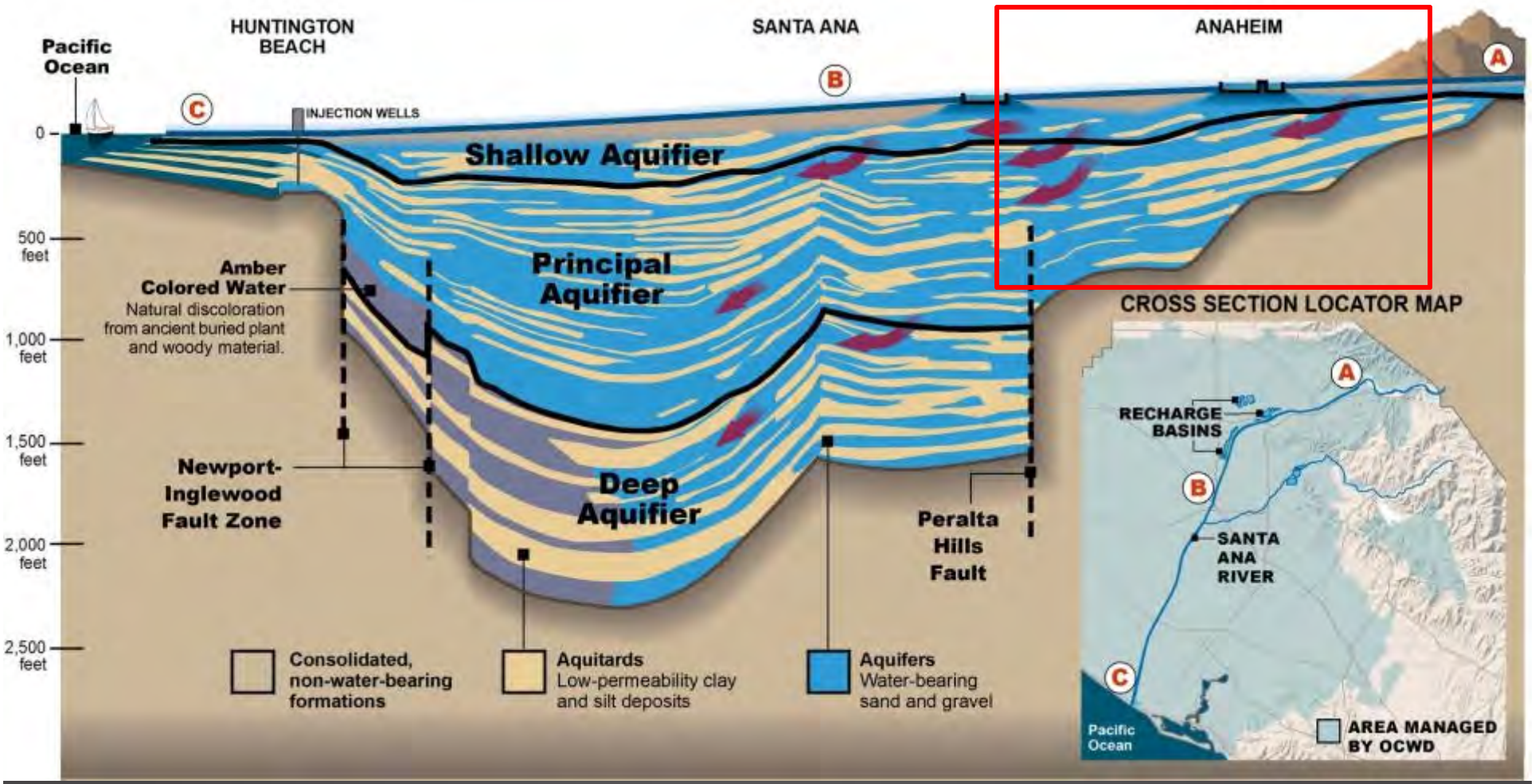
< 5% groundwater for 0.6 million people

ORANGE COUNTY WATER DISTRICT

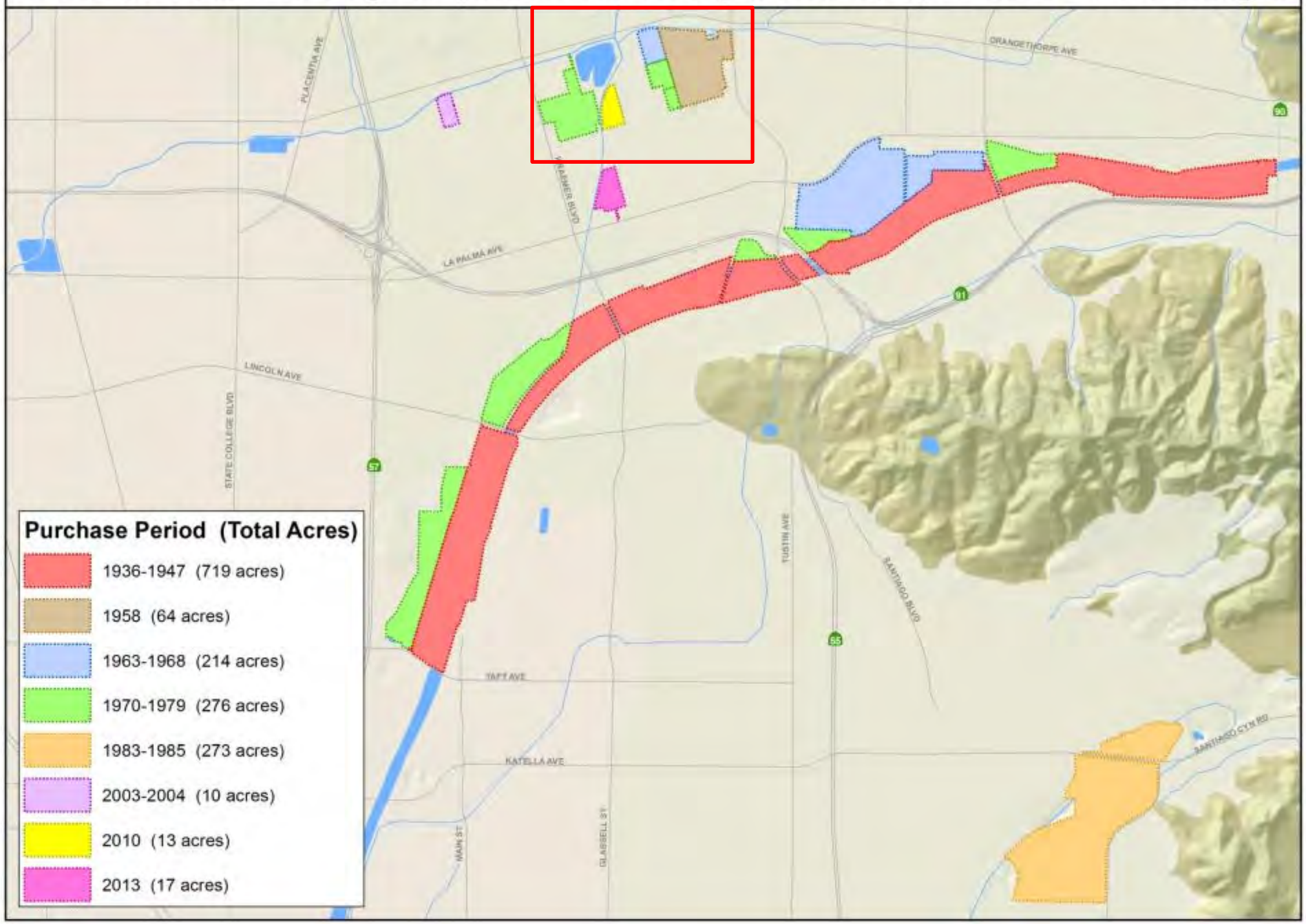
Recharge operations to capture and recharge Santa Ana River flows started in the early 1930s.

ORANGE COUNTY WATER DISTRICT

The basin is comprised of three major aquifer systems that are hydraulically interconnected.



Over the course of 77 years, the District has purchased 1,590 acres for recharge.

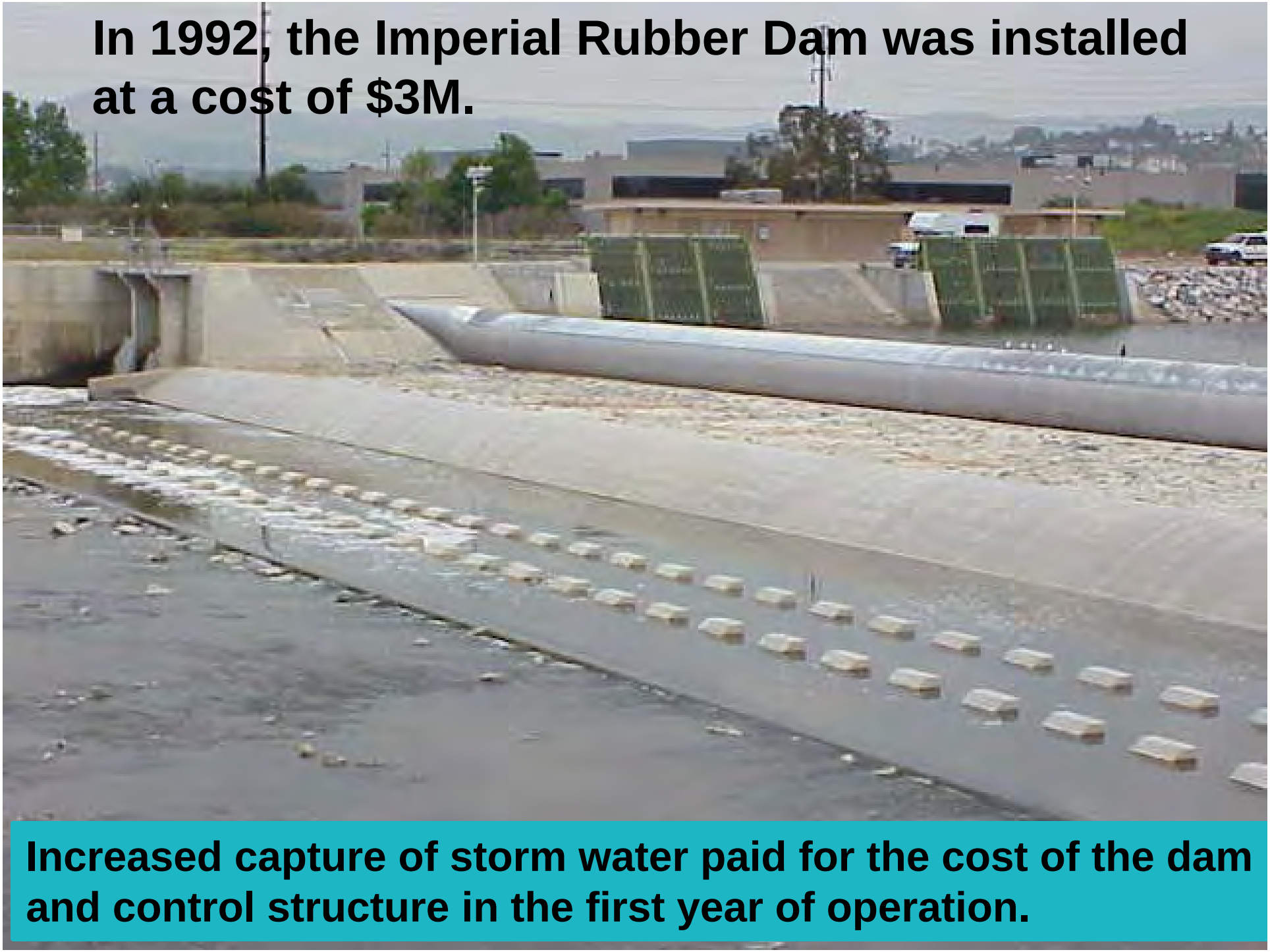


ORANGE COUNTY WATER DISTRICT

The deep basins are able to recharge up to 100,000 acre-feet per year.

ORANGE COUNTY WATER DISTRICT

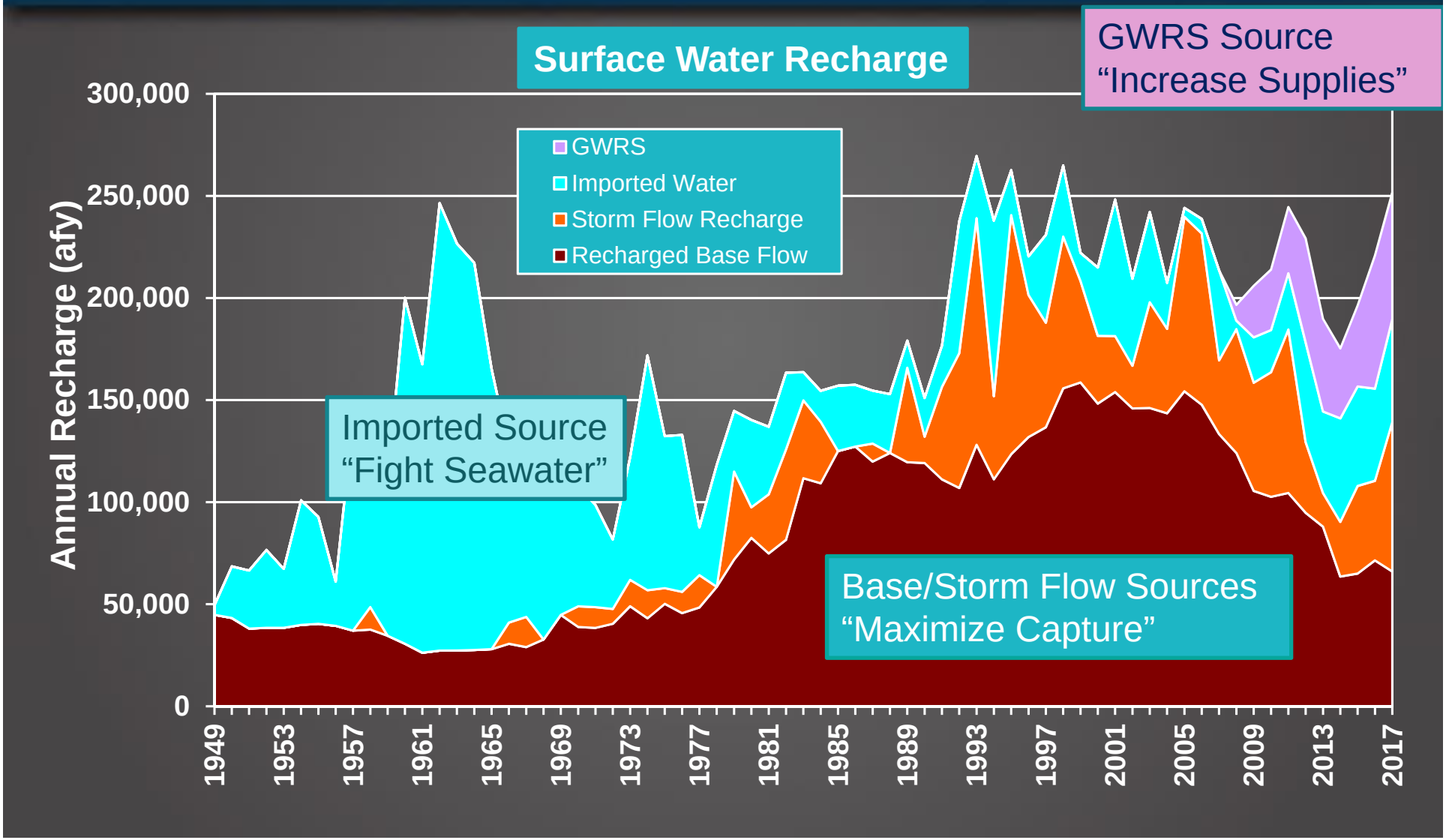
Prior to the early 1990s, a large sand dike had to be constructed to divert water from the SAR.


In 1992, the Imperial Rubber Dam was installed at a cost of $3M.
Increased capture of storm water paid for the cost of the dam and control structure in the first year of operation.

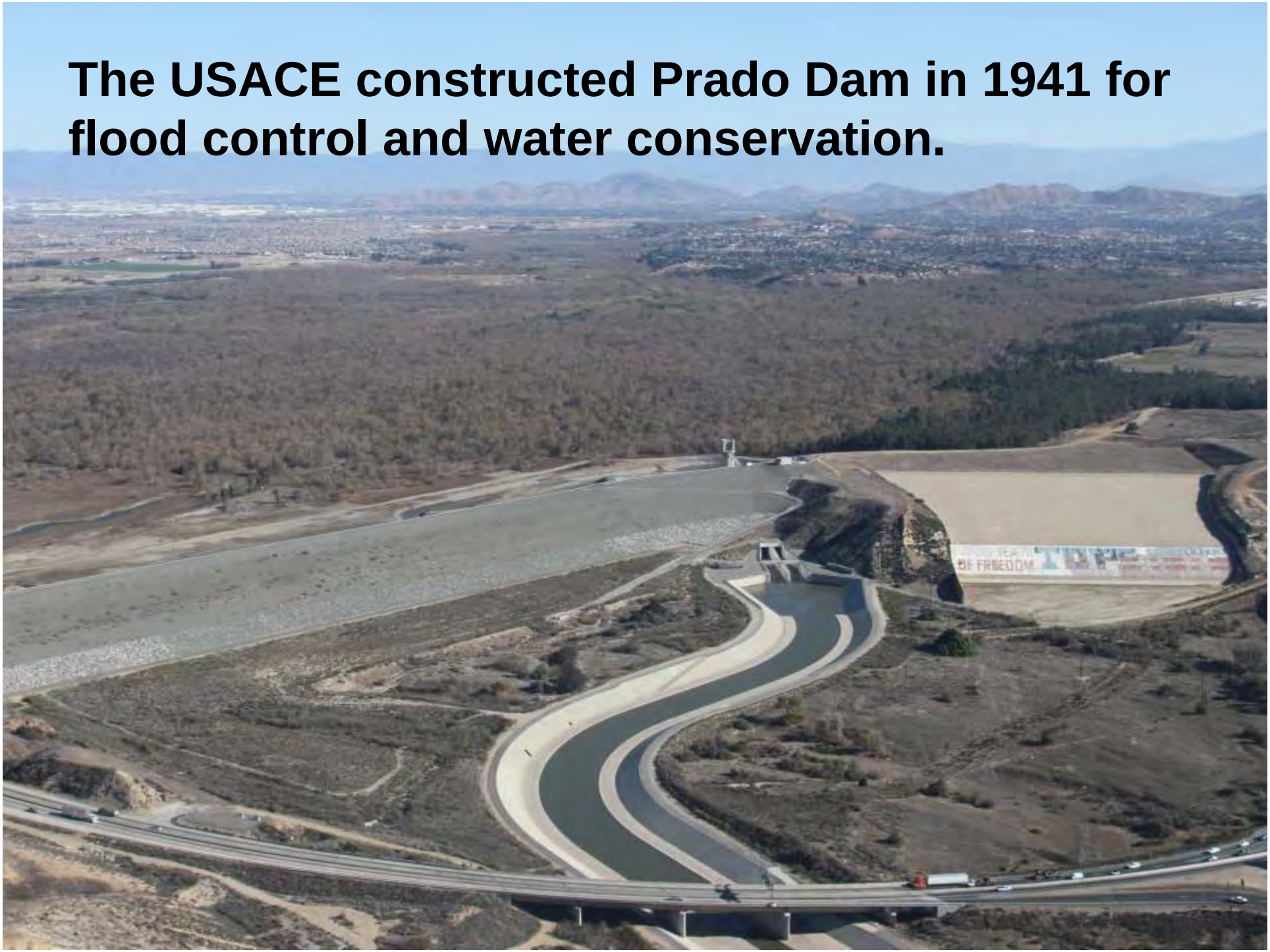

Sand “T and L” levees are constructed in the Santa Ana River channel to spread the water in the channel.
Santa Ana River
Burris Basin
The T and L levees also provide nesting and roosting habitat for numerous types of water fowl.

ORANGE COUNTY WATER DISTRICT

OCWD has a diverse water portfolio with all sources playing different roles at different times.

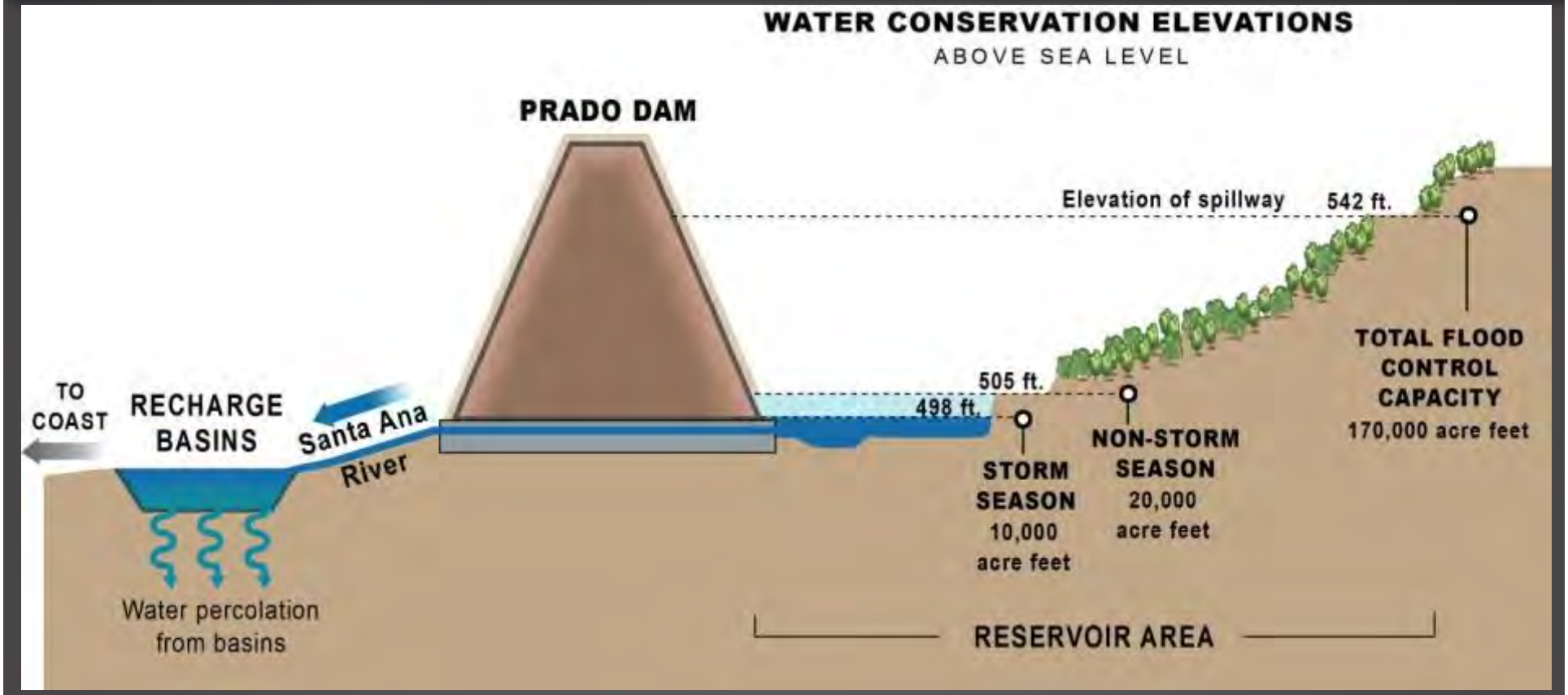


The USACE constructed Prado Dam in 1941 for flood control and water conservation.



ORANGE COUNTY WATER DISTRICT

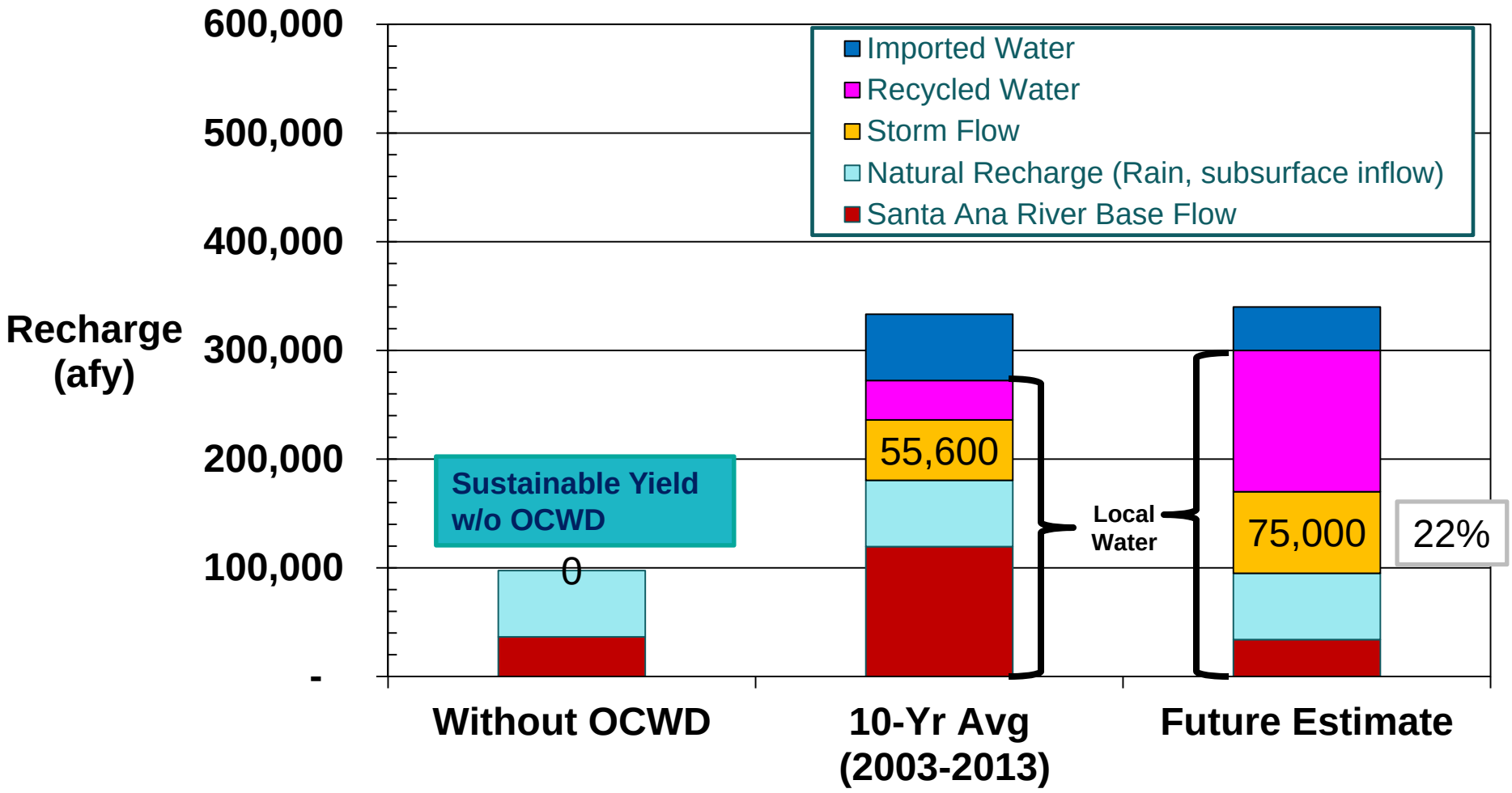
OCWD and the USACOE cooperate to store and capture up to 20,000 af of storm water at a time.



The ACOE coordinates the release rate with OCWD to match the capacity of the recharge system.

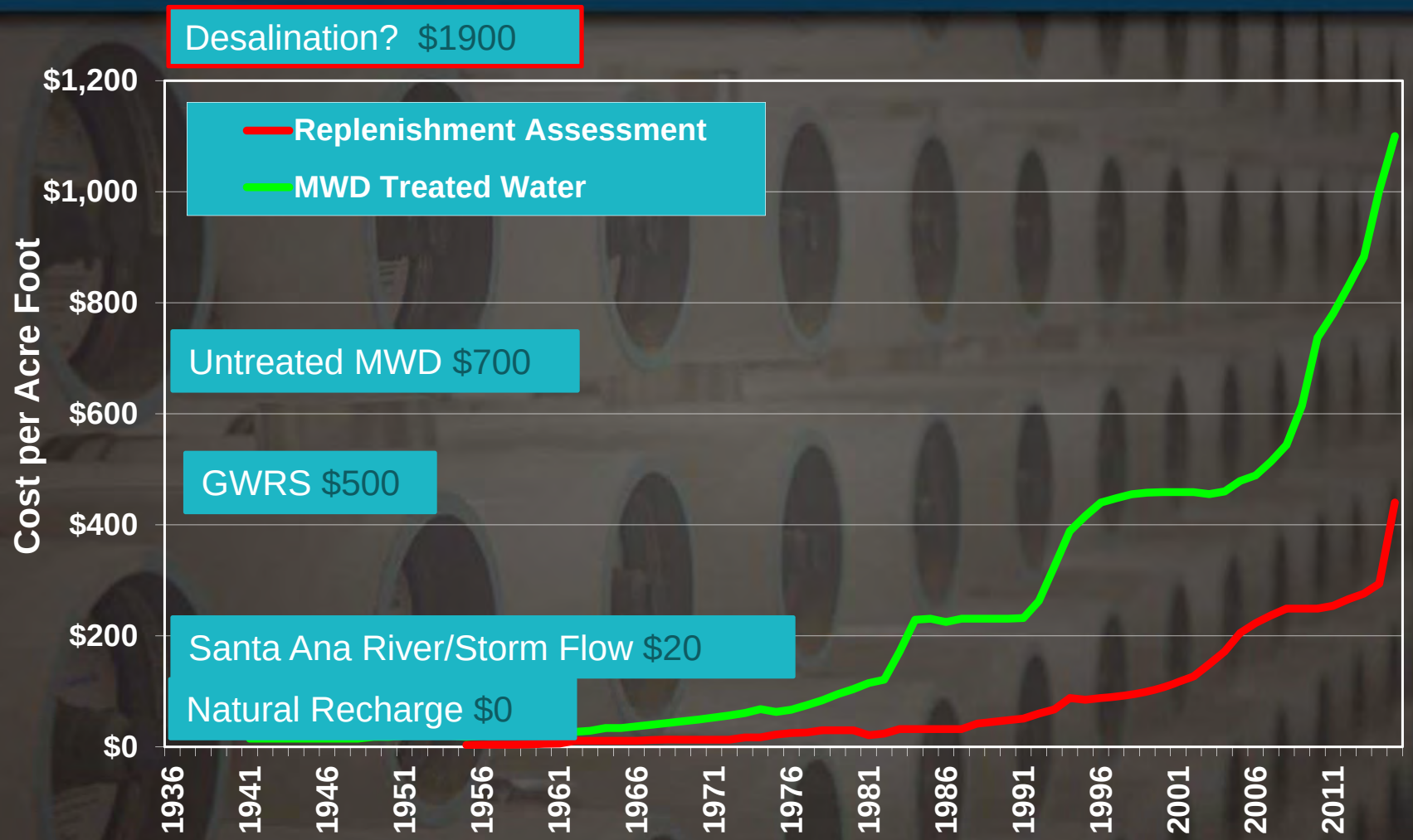
ORANGE COUNTY WATER DISTRICT

The recharge of local water sources has more than doubled the yield of the basin.



ORANGE COUNTY WATER DISTRICT

High imported water costs makes local resources development attractive.



OCWD continues to increase local water supplies.

- Increased storm water storage at Prado Dam
- Increased storm water recharge
- Sediment removal at Prado Dam
- Forecast-informed reservoir operations (FIRO)




Thank You!
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