



PALMDALE WATER DISTRICT
A CENTURY OF SERVICE

Water Supply and Demand Overview

April 12th, 2021



Supplies - Surface Water

- 5% allocation
- SWP Carryover 2,449
- SWP Table A 1,065
- Combined other SWP 3,620
- Dry Year programs 400
- Littlerock Dam 1,500
- **Total 9,034 Acre Feet**



Supplies - Groundwater Water

- Production Right 2,769
 - Fed Reserve Right 1,430
 - Return Flows 4,176
 - Carry Over 9,977
 - **Total 18,352 Acre Feet**
-
- Pumpable 12,000 AF



Supplies Overview

Total Available

- Surface Water 9,034
- Groundwater (pumpable) 12,000
- AVEK-Acton Supply 1,200
- **Total Available 22,234**



Demands-Based on Historical Production*

- 2017 18,665 AF
- 2018 19,887 AF
- 2019 18,534 AF
- 2020 20,510 AF
- 2021 21,000 AF (*Estimated*)



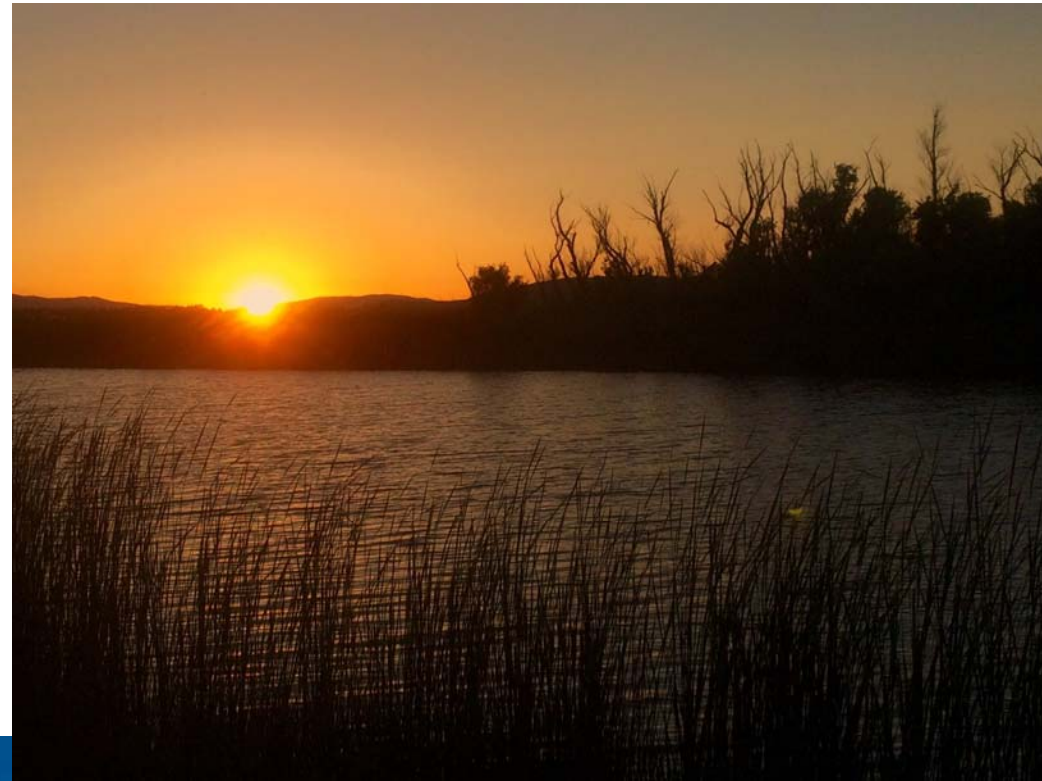
- *Production figures include supply for Acton.



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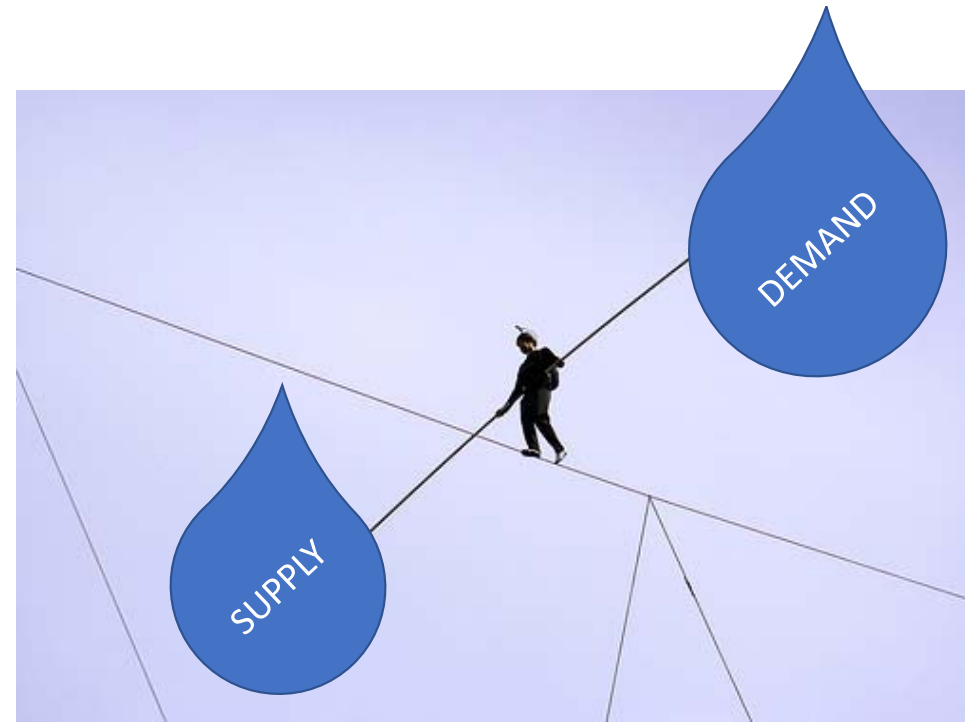
Production Demand + Evaporation

- Evaporative losses from Lake Palmdale are close to 1,200 AF annually and must be factored into supply needs.
- Total estimated demand for 2021 is
 - 21,000 AF (production demand)
 - 1,200 AF (Evaporative losses)
 - 22,200 Total Demand**



Supply Vs Demand

- Total Estimated Supply 22,234
- Total Estimated Demand 22,200



- A scenario like this leaves PWD with a nearly full lake but 0 AF SWP carryover for 2022.



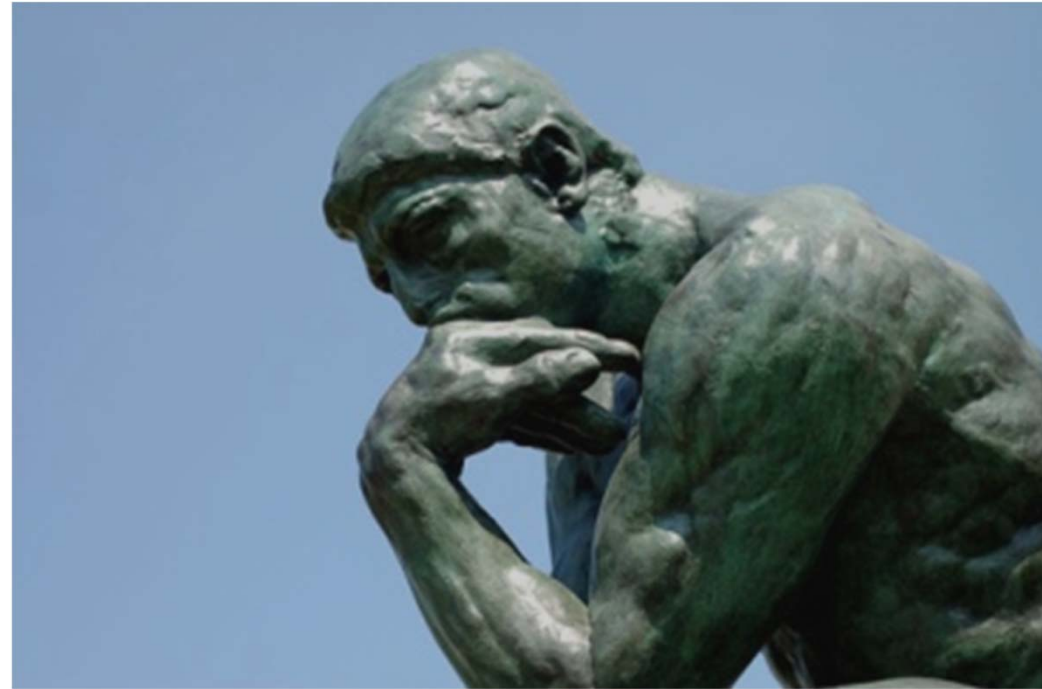
Remaining Variables

Supply

- Weather
- SWP Allocation
- Final SWP Transfer amounts
- Final Littlerock Dam supply
- Groundwater pumping capabilities

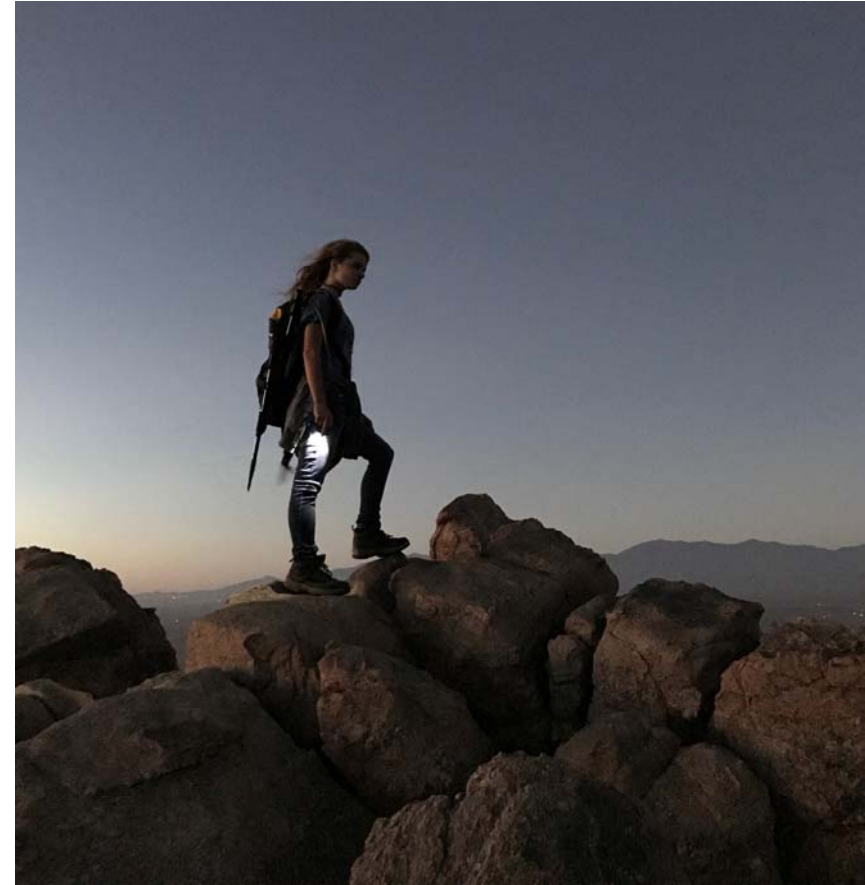
Demand

- Actual vs estimated production
- Actual vs estimated evaporation
- Conservation effects



Next Steps

- Receive DWR's final SWP allocation
- Evaluate State messaging
- Evaluate Water Shortage Contingency Plan



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Thank you!

