

Authority Board Meeting

Agenda Item 3-2, Materials for Allocating
Reservoir Storage

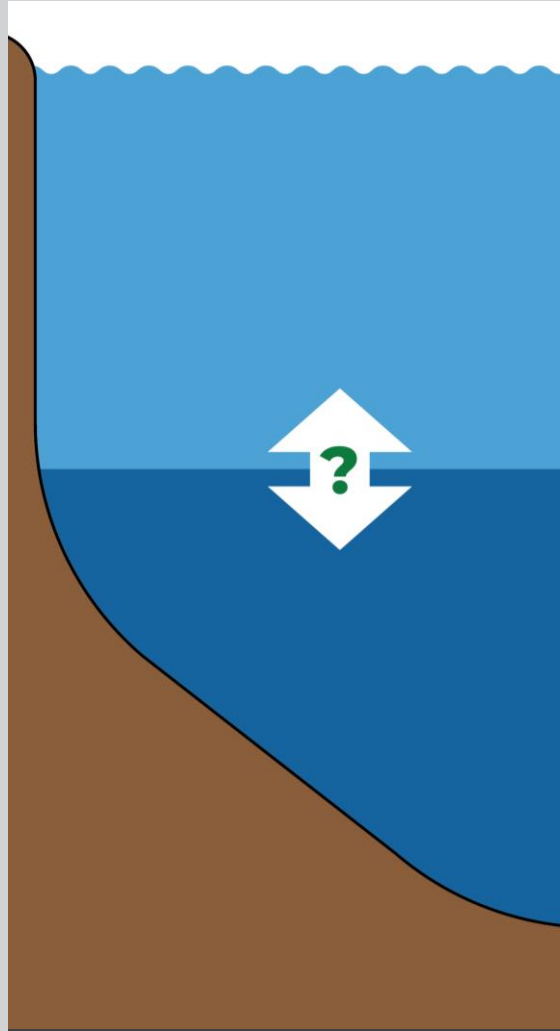
July 21, 2021



Allocating Reservoir Storage



STORAGE BENEFITS



**HOW MUCH STORAGE
DO I NEED?**

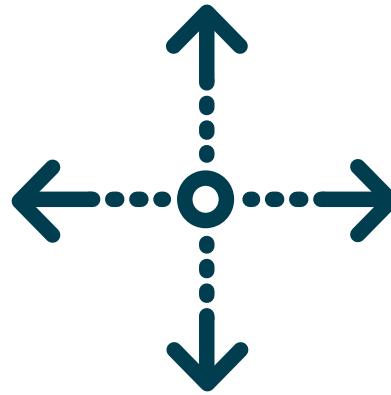


QUESTIONS ?

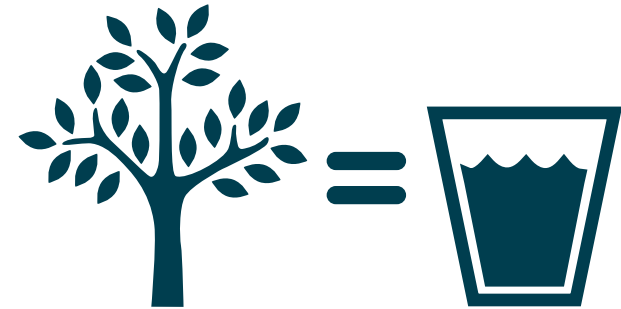
Benefits of Investing in Storage



**RELIABLE
CERTAIN**



**FLEXIBLE
LOCAL CONTROL**



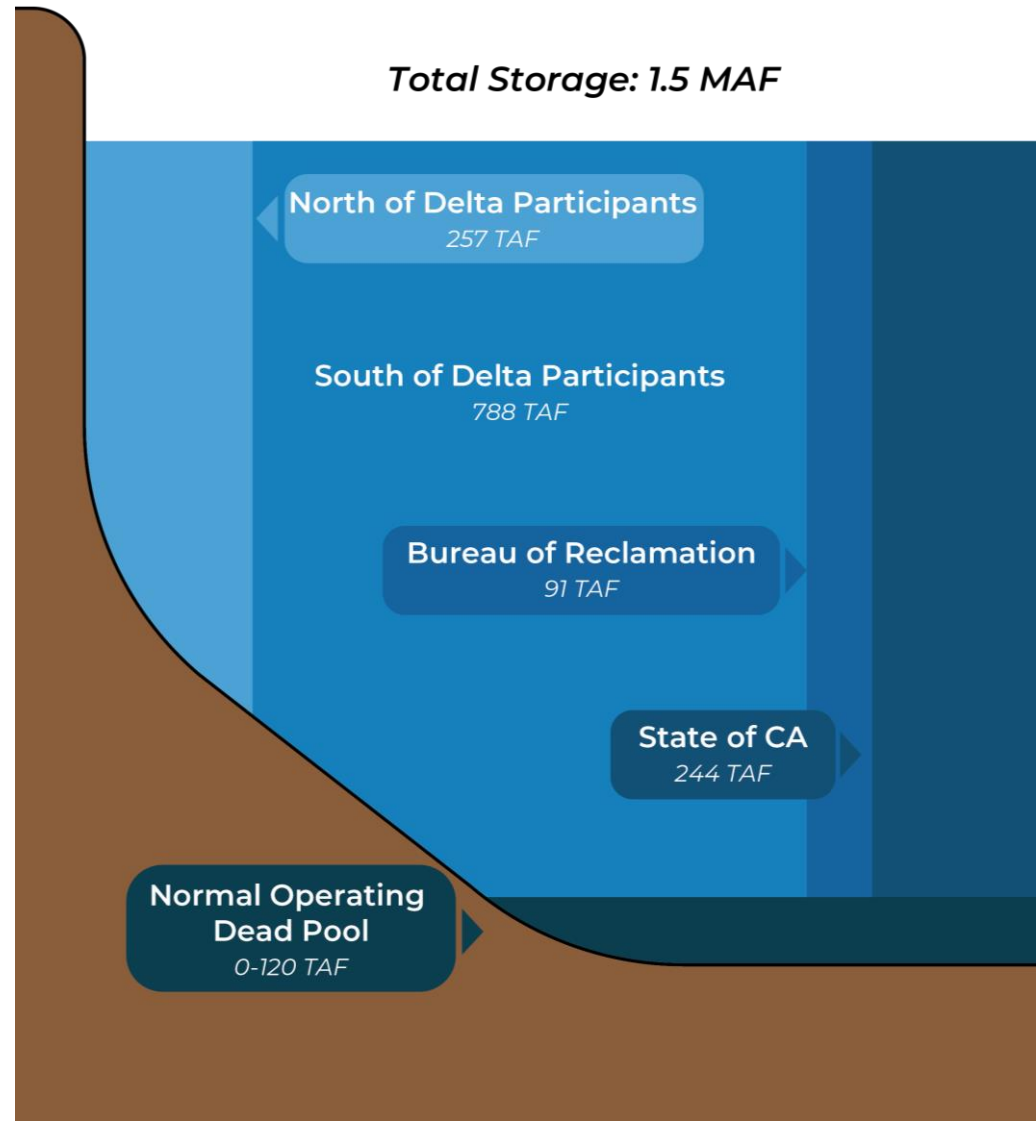
EQUITABLE

Storage Partner Benefits



**RELIABLE
CERTAIN**

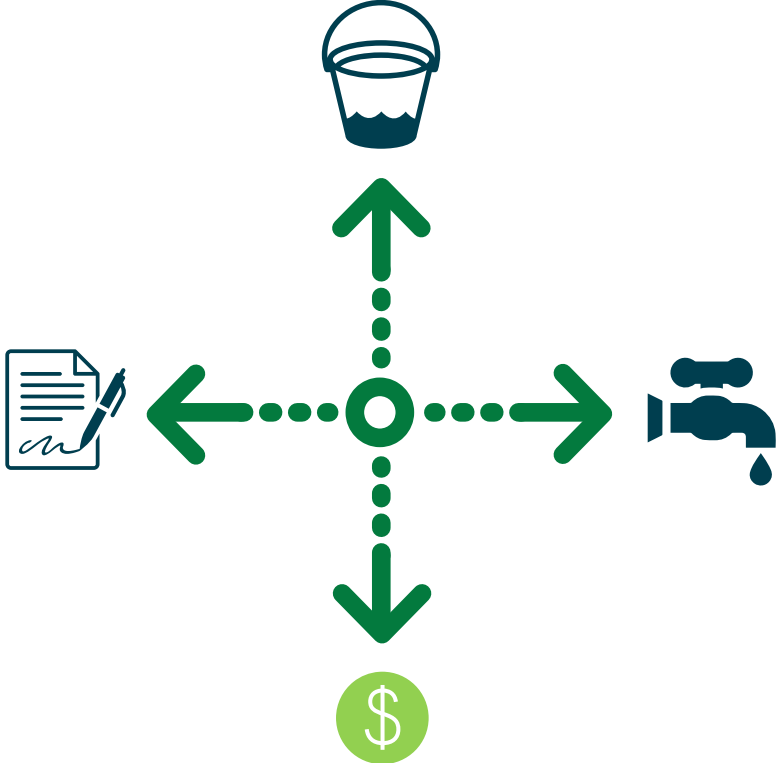
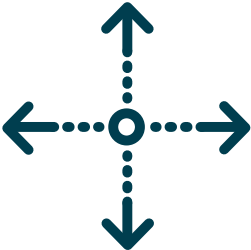
- Known storage space and diversions to storage
- Improved ability to deliver in dry years
- Certainty in availability



Storage Partner Benefits



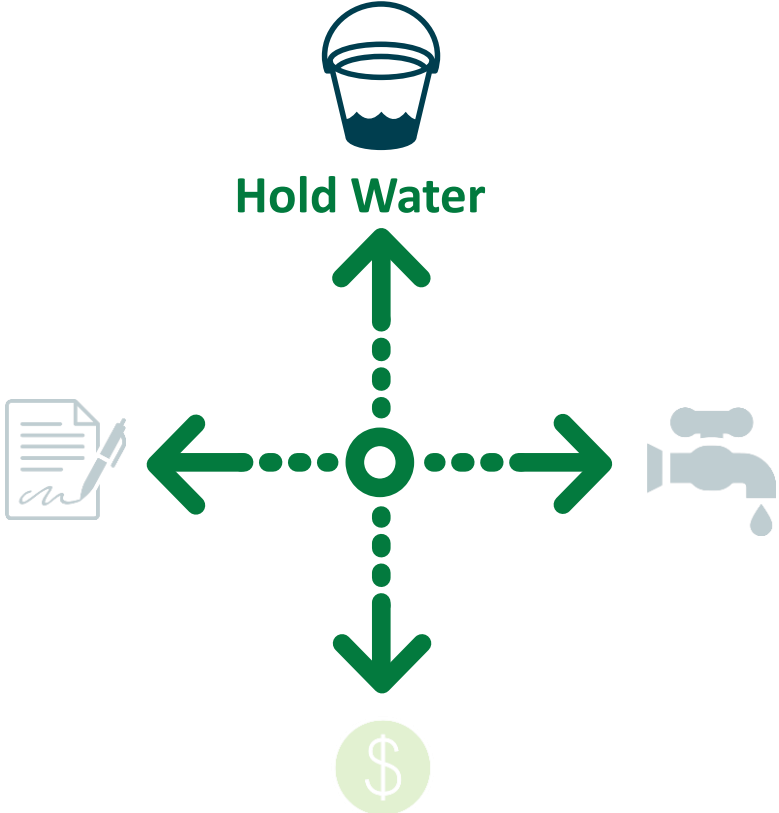
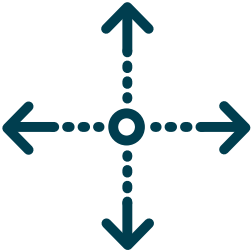
FLEXIBLE
LOCAL CONTROL



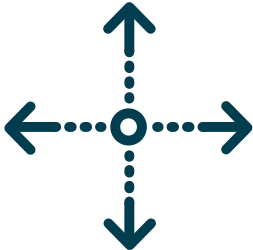
Storage Partner Benefits



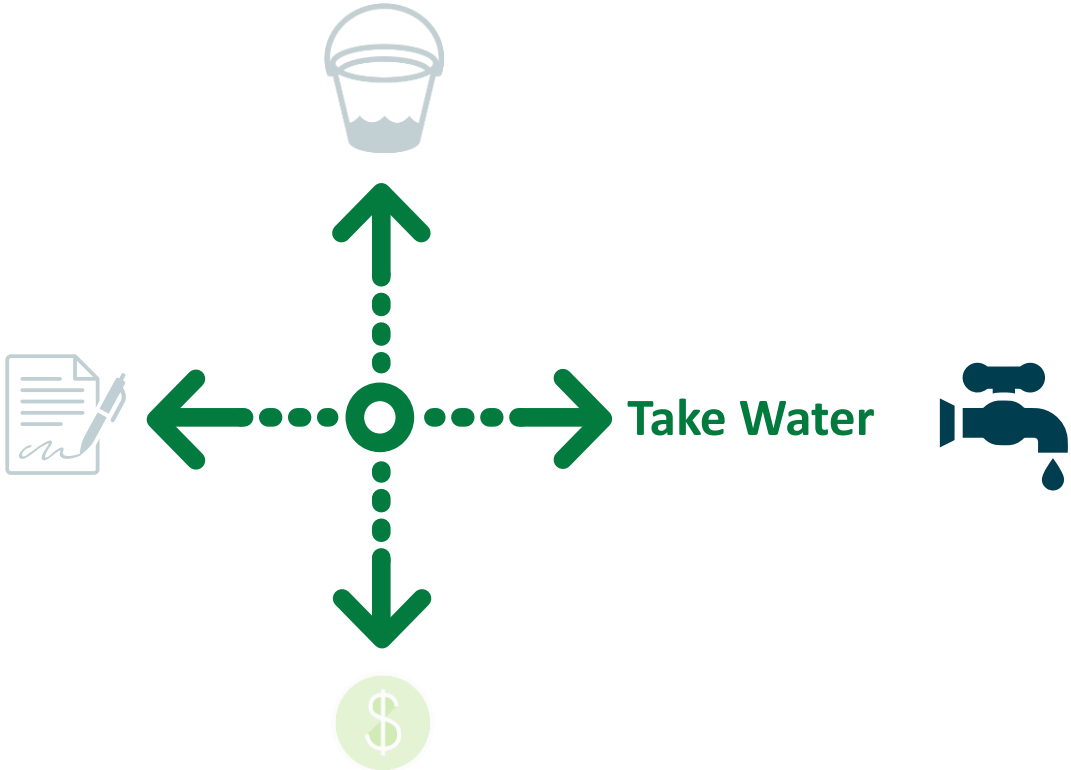
FLEXIBLE
LOCAL CONTROL



Storage Partner Benefits

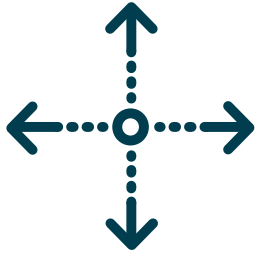


FLEXIBLE
LOCAL CONTROL



Take Water

Storage Partner Benefits



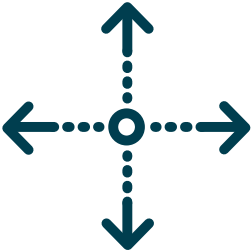
FLEXIBLE
LOCAL CONTROL



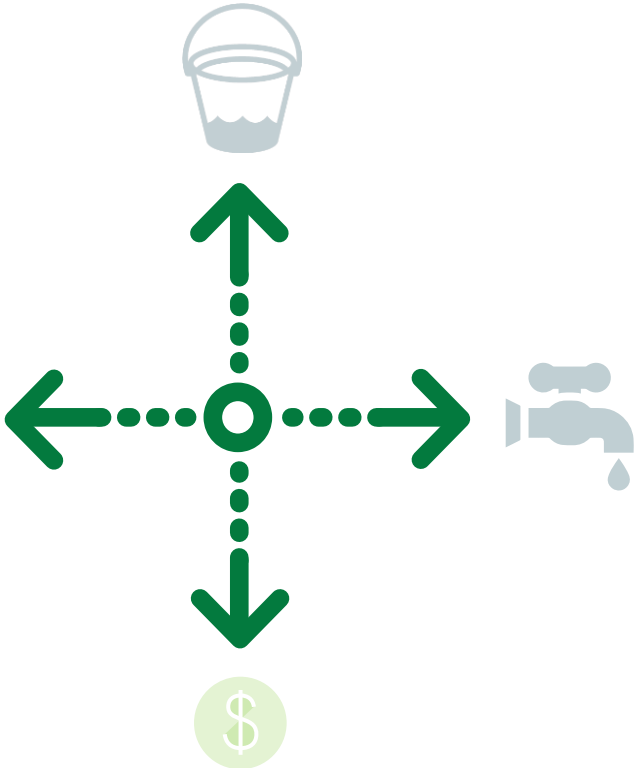
Storage Partner Benefits



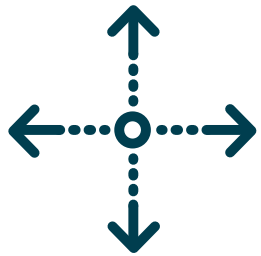
FLEXIBLE
LOCAL CONTROL



Lease Storage



Storage Partner Benefits



FLEXIBLE
LOCAL CONTROL



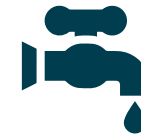
Hold Water



Lease Storage



Take Water



Sell Water



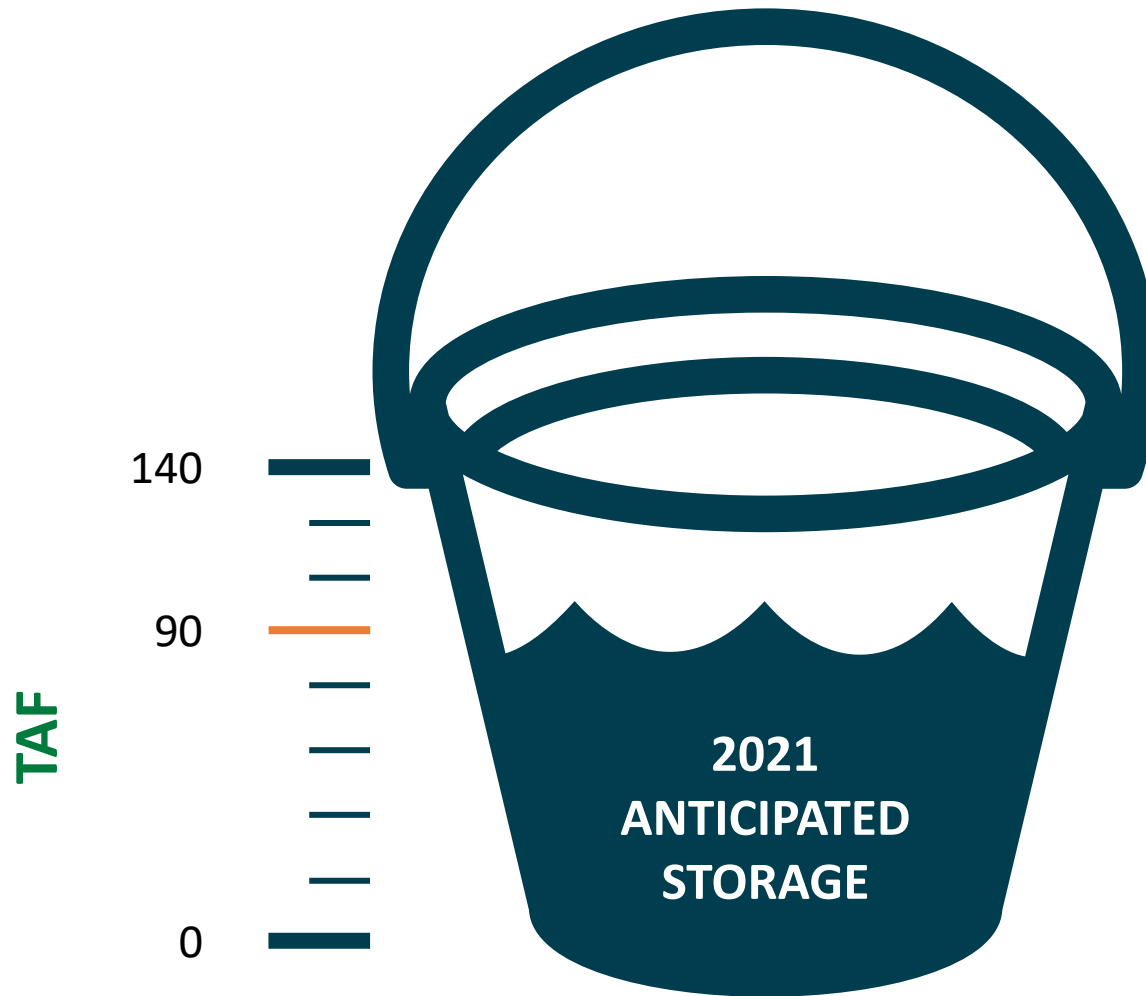
... or combinations

Storage Partner Benefits



- Storage space does not define operations/options
- Unit price for storage same for all
- Current participation level translates directly to amount of storage space
- Beneficiary pays

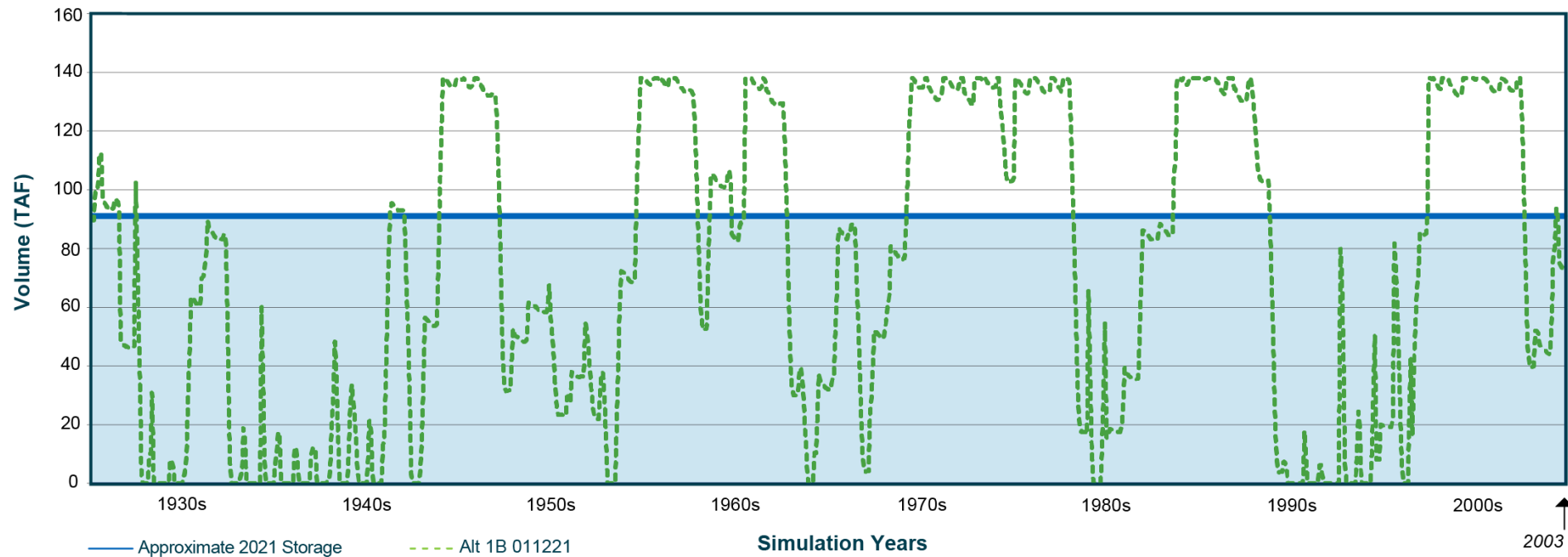
Example: Tehama-Colusa Canal Authority



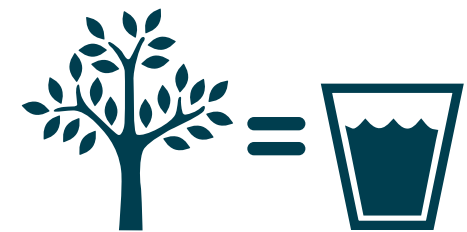
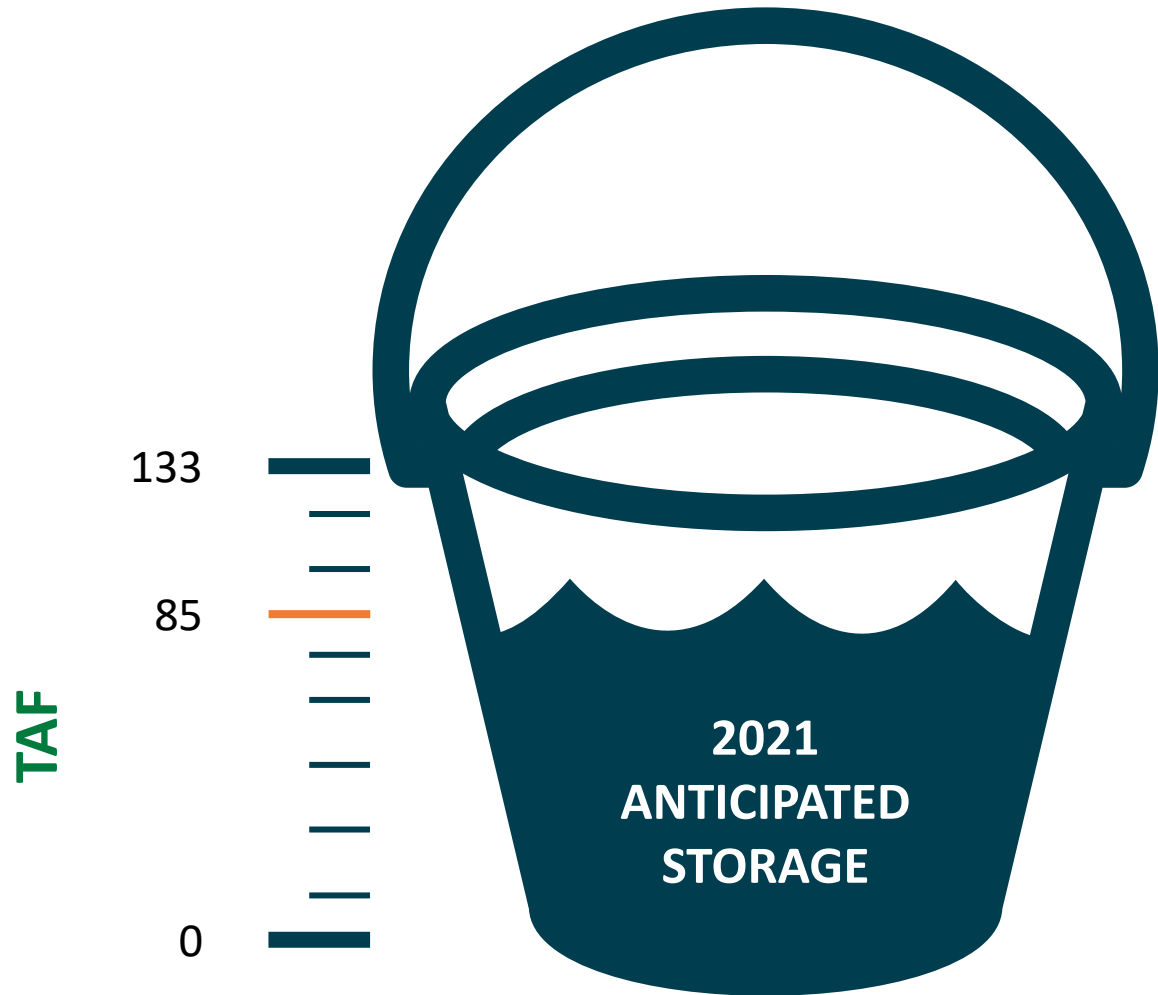
Example: Tehama-Colusa Canal Authority



SITES STORAGE: TCCA



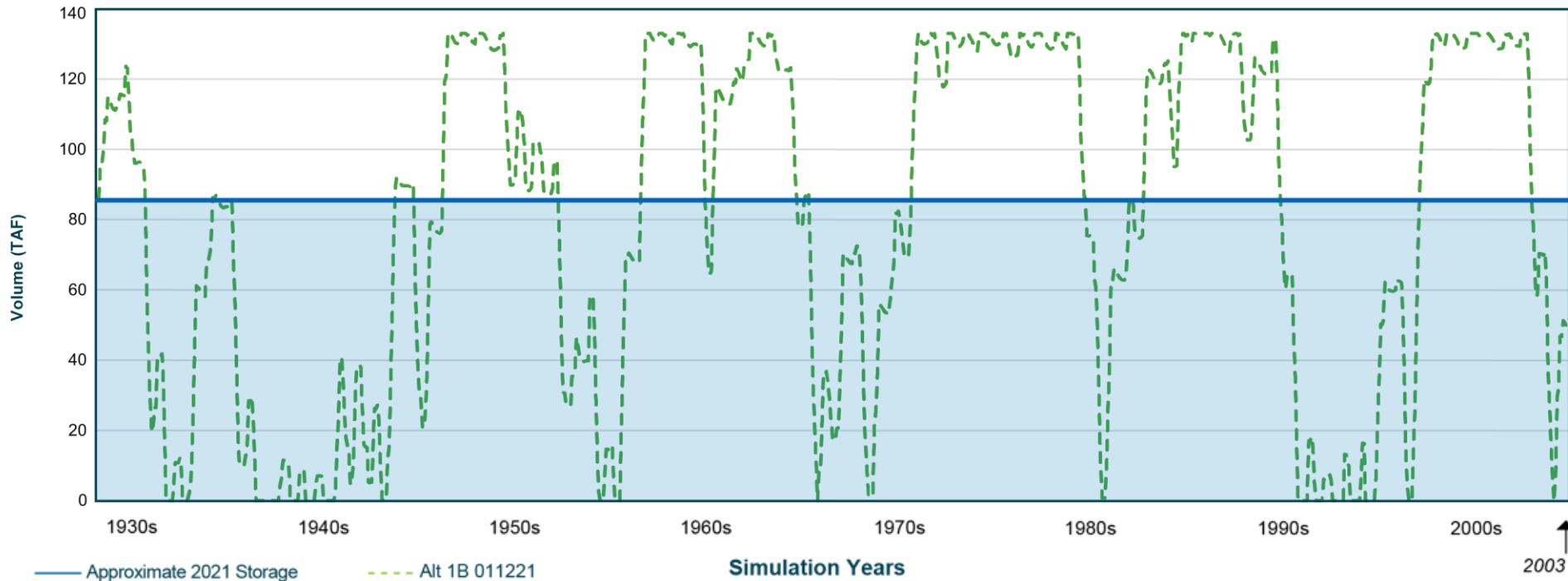
Example: San Bernardino Valley Municipal Water District



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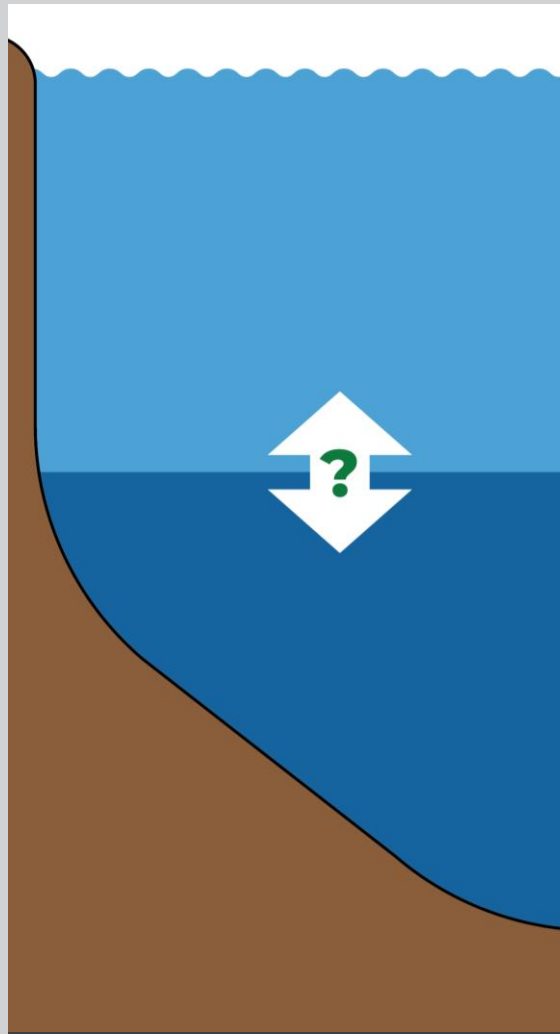


SITES STORAGE: San Bernardino Valley MWD





STORAGE BENEFITS



HOW MUCH STORAGE
DO I NEED?



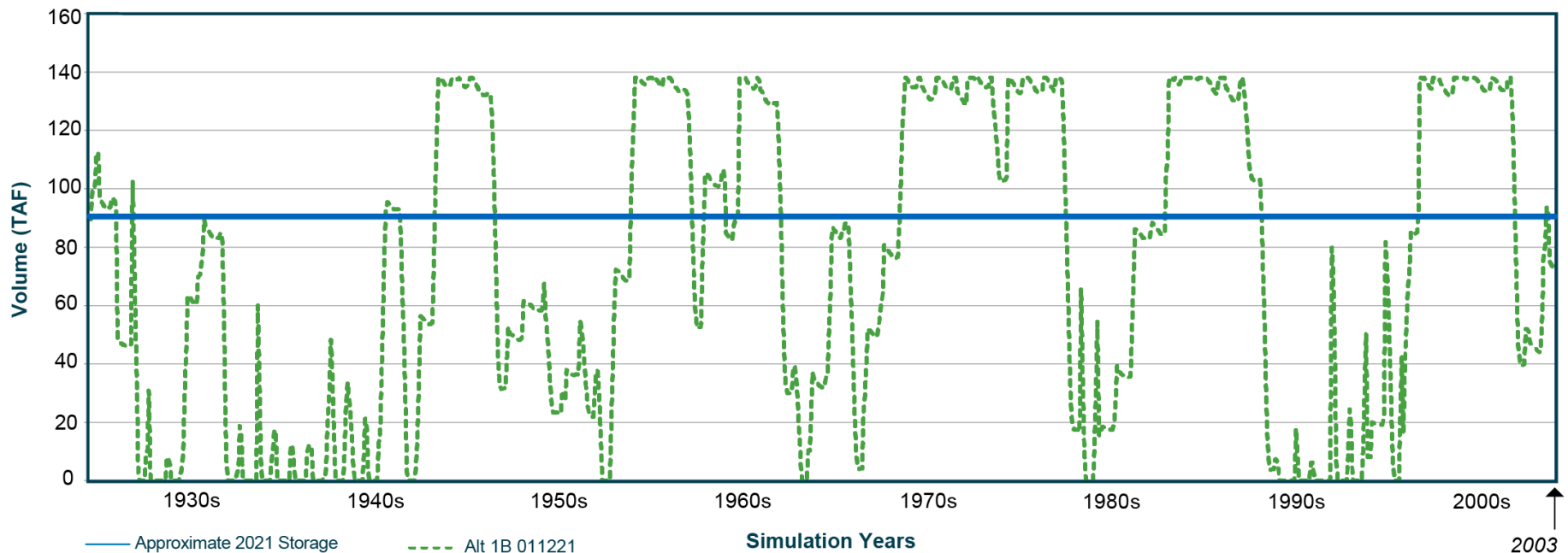
QUESTIONS ?

How Much Storage is Right for my Agency?

Some considerations:

- ✓ Multiple dry years
- ✓ Assume limited or no diversions in a drought
- ✓ Consider selling and leasing
- ✓ Resiliency against future uncertainties
- ✓ Use existing modeling to see storage level fluctuations

SITES STORAGE: TCCA

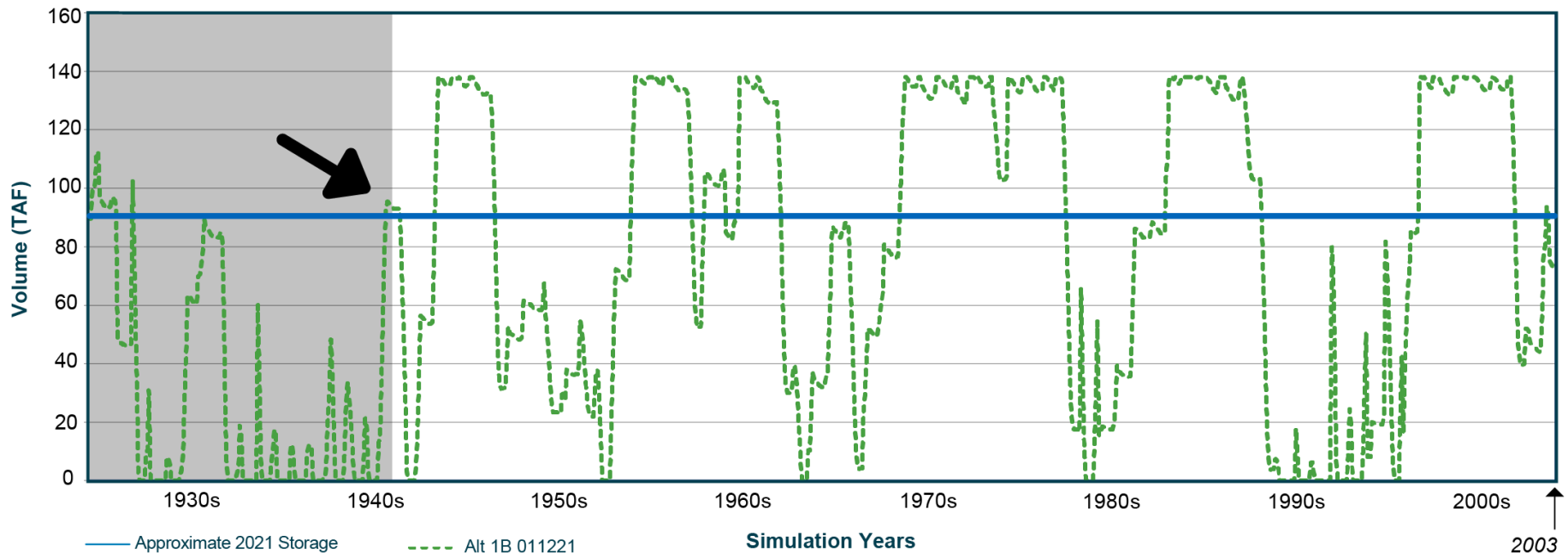


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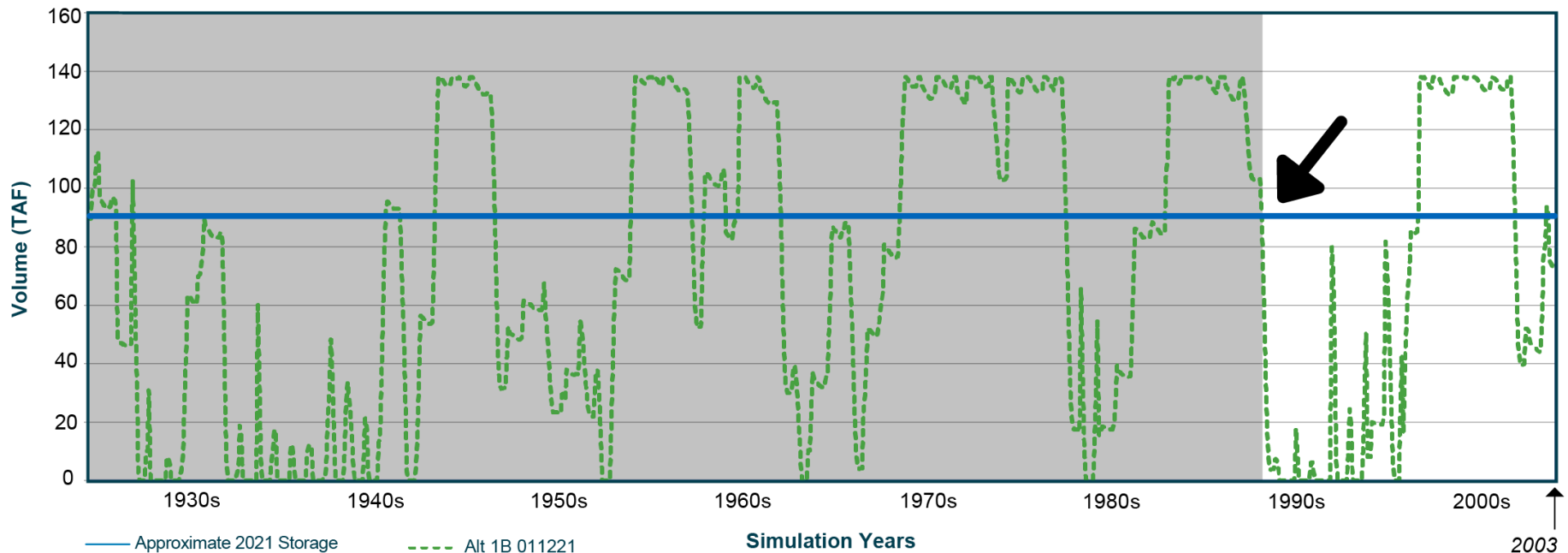


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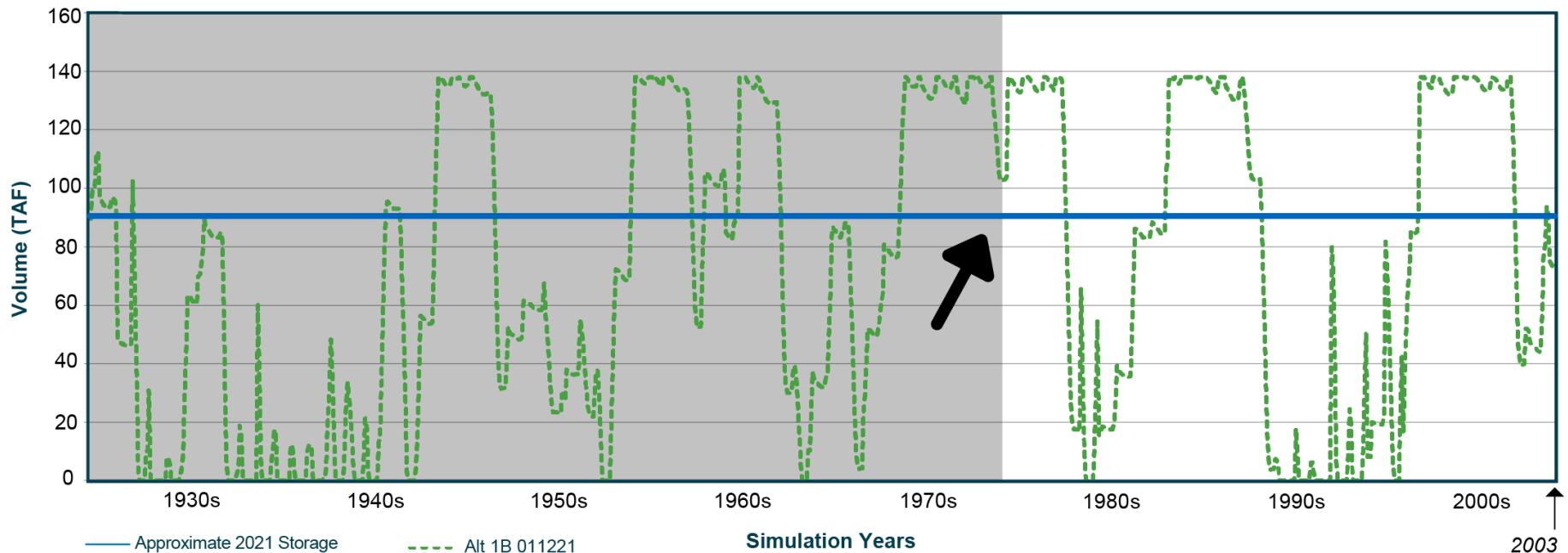


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SITES STORAGE: TCCA



Summary



- ***Benefits of Storage***

- ✓ Reliable and certain
- ✓ Flexible, local control
- ✓ Equitable

- ***How much do I need?***

- ✓ Consider multiple dry years
- ✓ Consider sale/lease of water and storage
- ✓ Future uncertainty
 - Climate variability
 - CVP/SWP Reliability
 - Regulatory
 - Economic

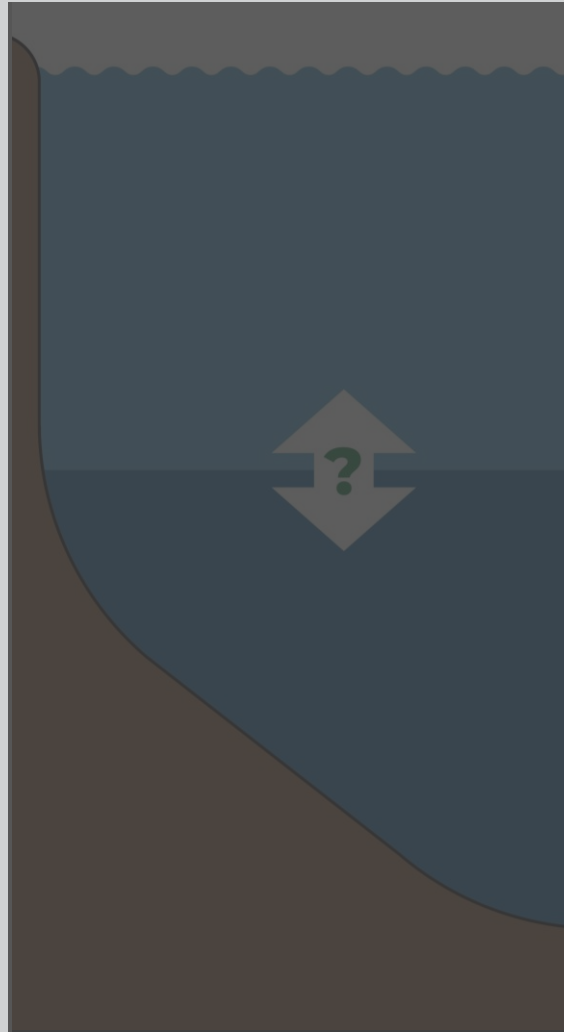
Feedback from Reservoir Committee



- ***More information desired on the following topics:***
 - Conveyance losses, evaporation, O&M
 - Terms and process for selling water or leasing storage space



STORAGE BENEFITS



HOW MUCH STORAGE
DO I NEED?



QUESTIONS ?