



Status of Water Supplies

Water Resources and Watershed Committee
April 14, 2021
Item 4.2

Overview

Water Supply Update

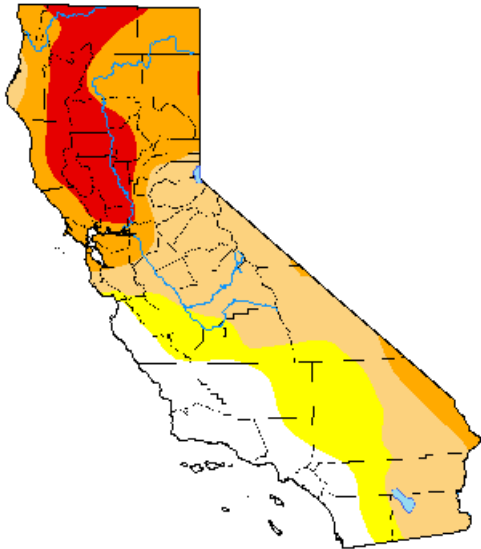
- Drought Classification
- Snowpack
- SCV Precipitation
- Weather Forecast
- Operating Plan
- Budget Implications



Drought Classification

Current Conditions

September 29, 2020



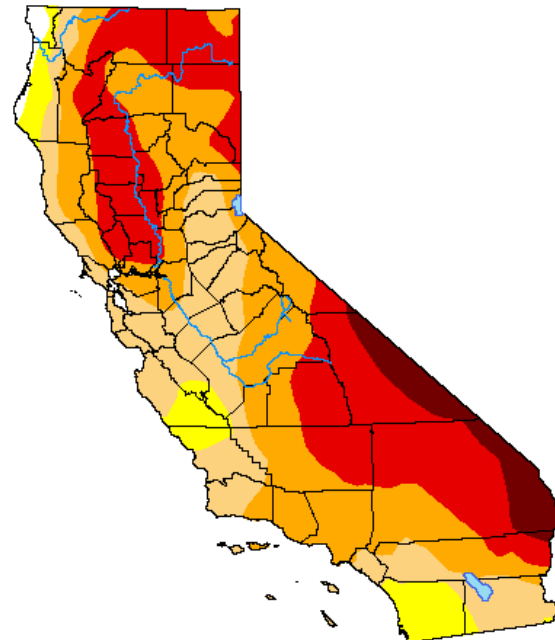
Start of Water Year 2021

U.S. Drought Monitor California







April 6, 2021

(Released Thursday, Apr. 8, 2021)

Valid 8 a.m. EDT



Intensity:

-  None
-  D0 Abnormally Dry
-  D1 Moderate Drought
-  D2 Severe Drought
-  D3 Extreme Drought
-  D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

Deborah Bathke
National Drought Mitigation Center

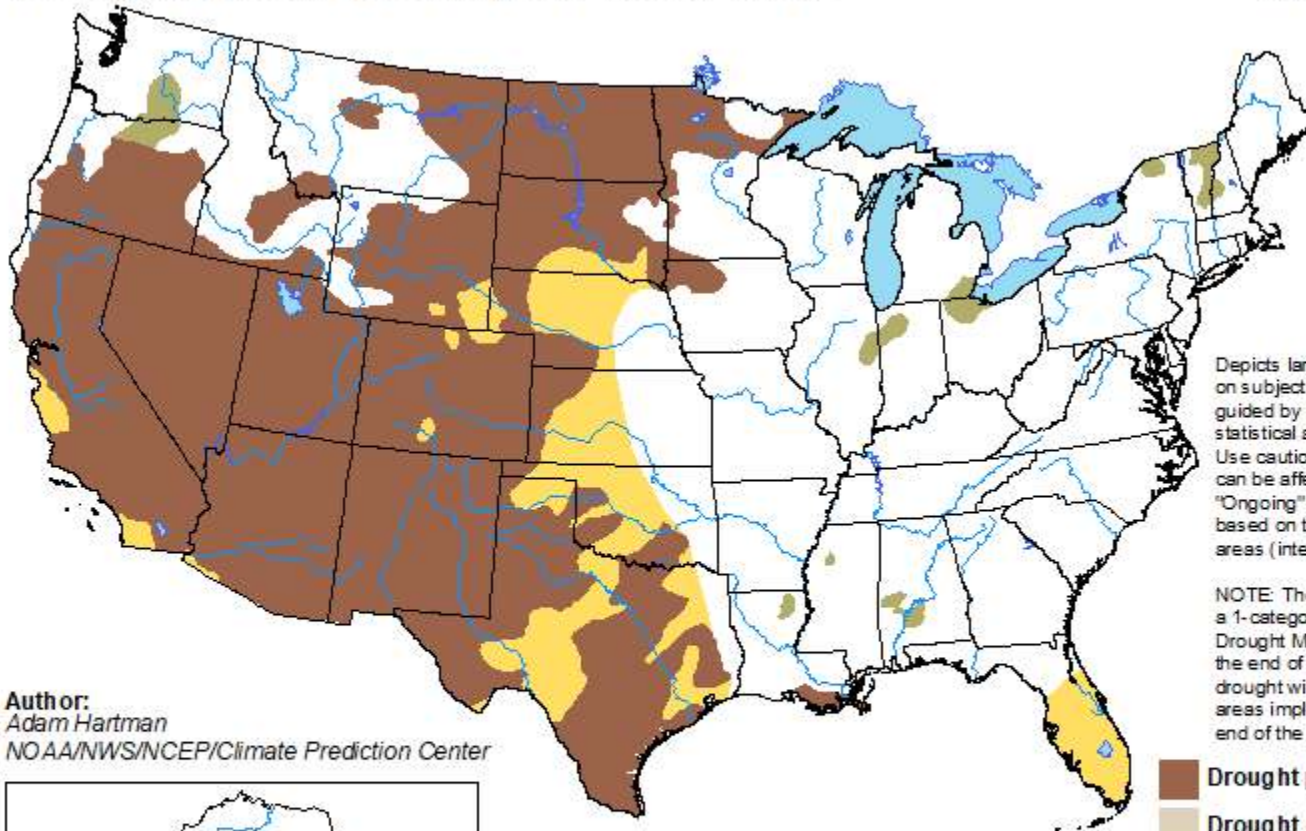


droughtmonitor.unl.edu

U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

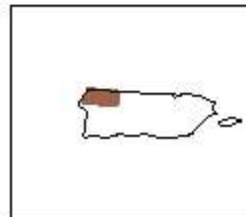
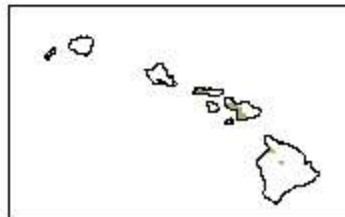
Valid for March 18 - June 30, 2021
Released March 18



Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Author:
Adam Hartman
NOAA/NWS/NCEP/Climate Prediction Center



-  Drought persists
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely



<http://go.usa.gov/3eZ73>

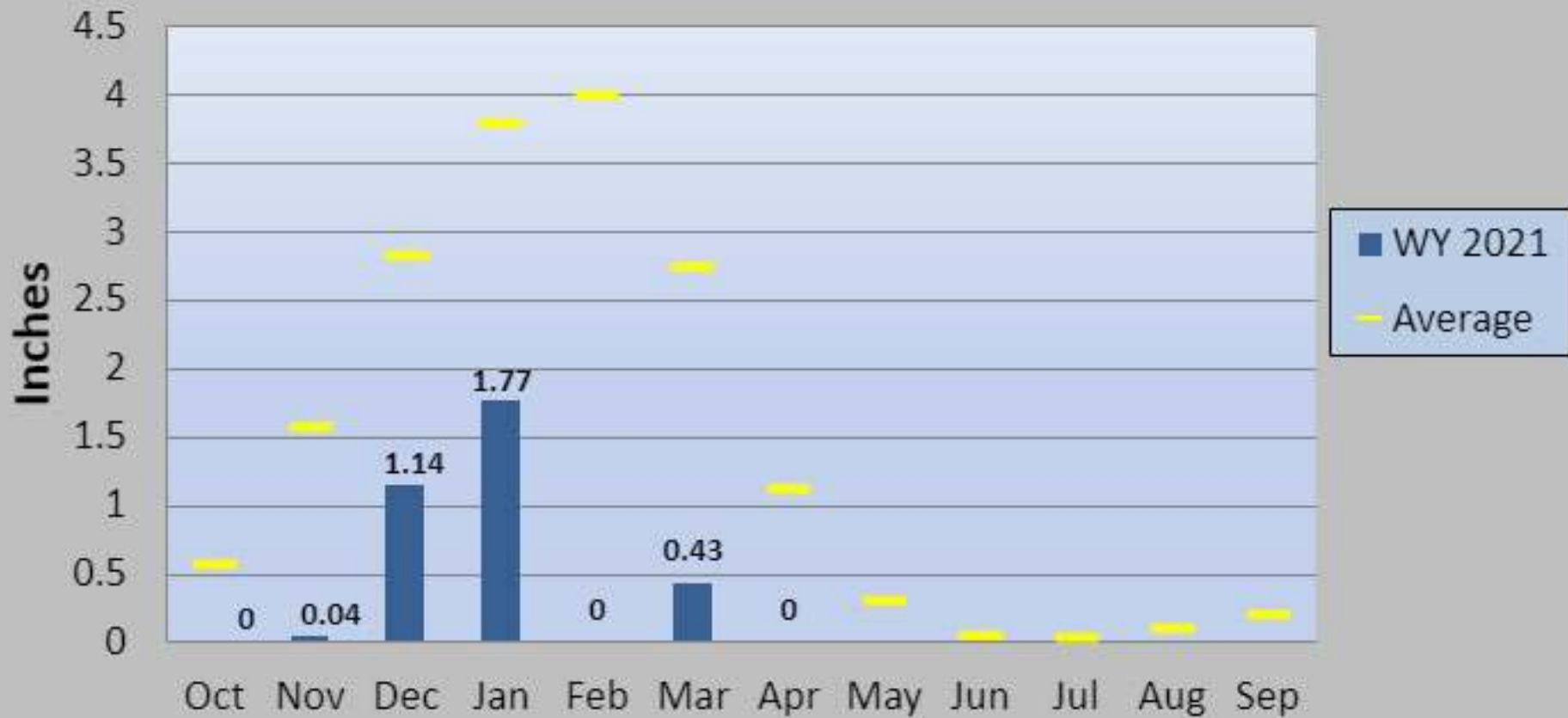
April 1, 2021



Snowpack =
59% of
Average

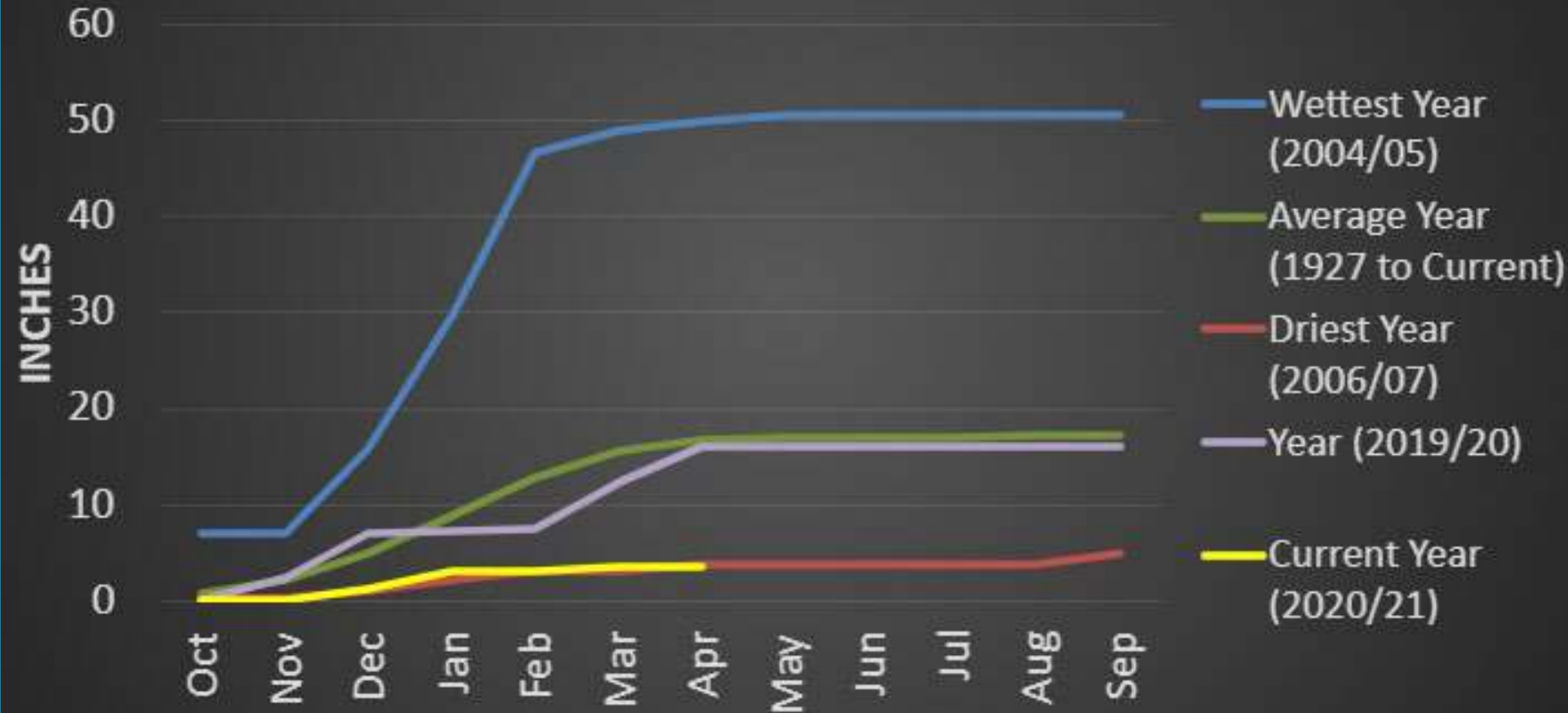


SCV Precipitation Water Year 2021



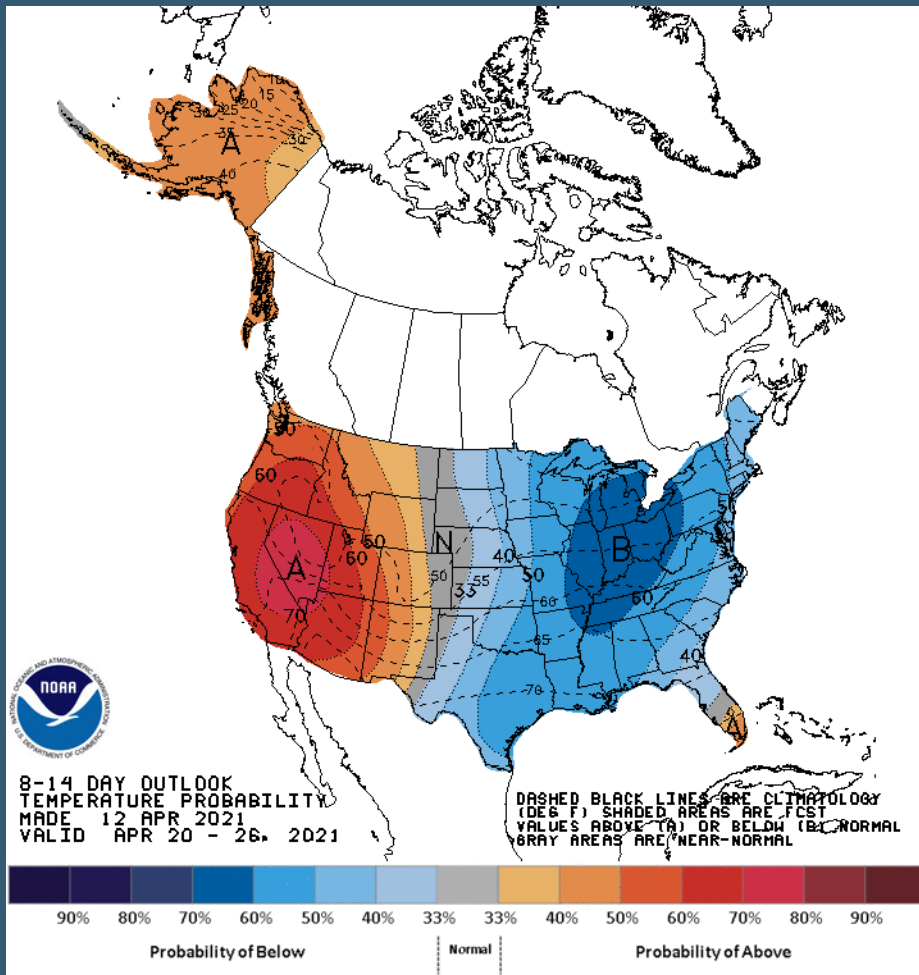
Total to date: 3.38 inches
20% of Average

SCV Historical Rainfall

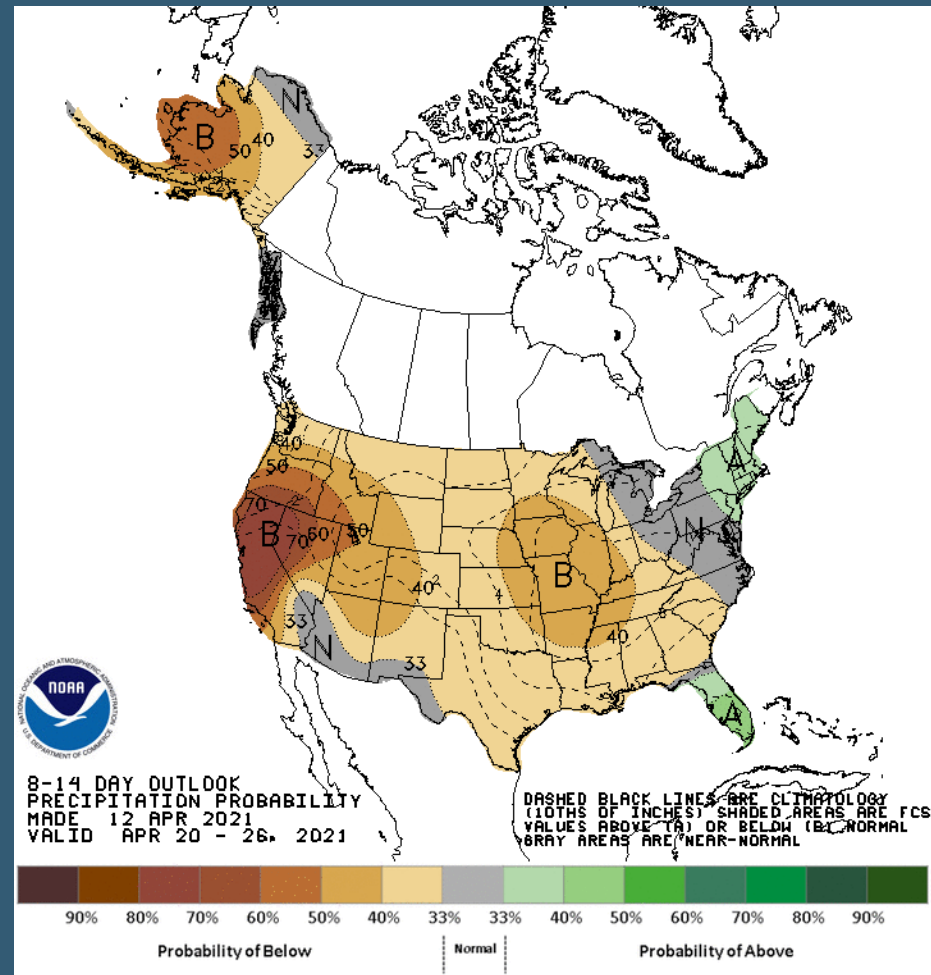


8-14 Day Forecast (to April 26th)

Temperature

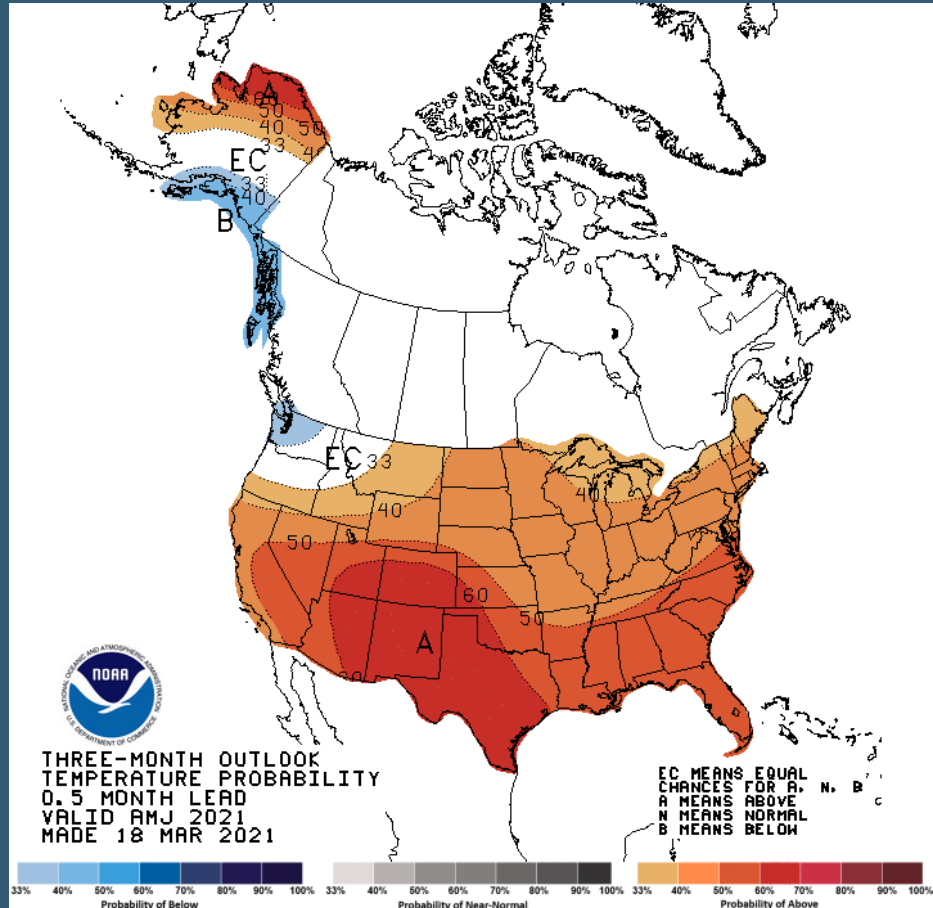


Precipitation

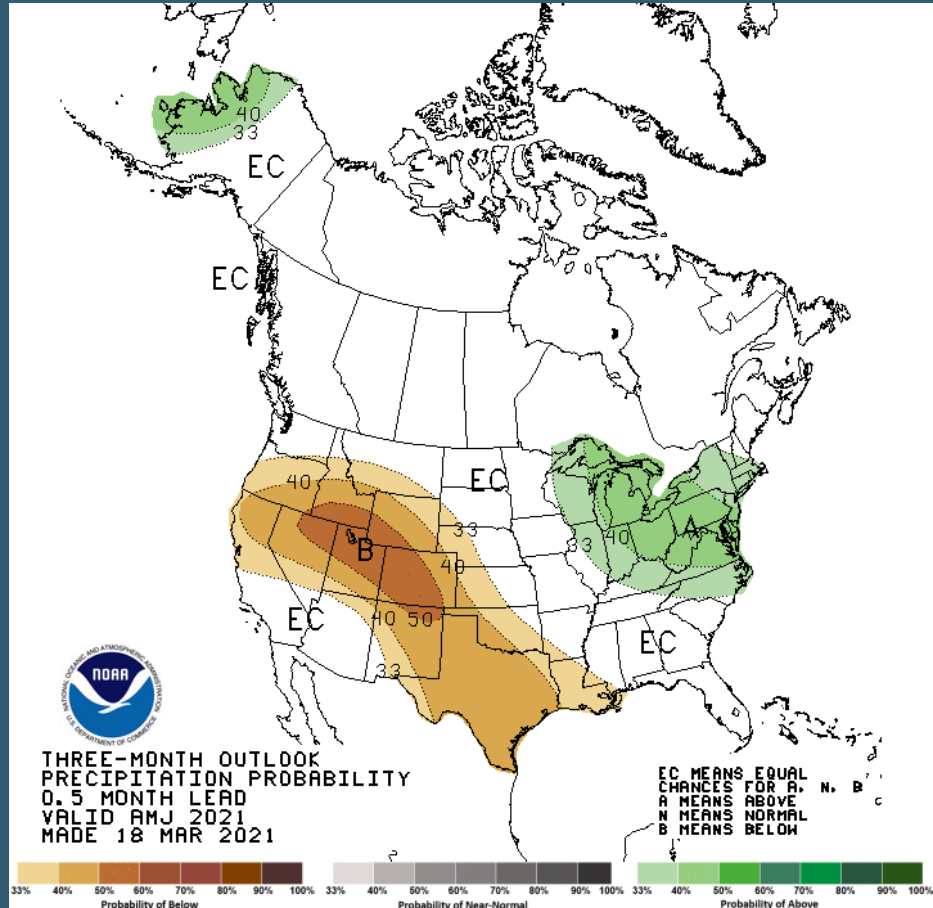


90 Day Forecast (April, May, June)

Temperature



Precipitation



2021 Operating Plan (Acre-Feet)	2021 5% SWP Allocation	2021 10% SWP Allocation	2022 5% SWP Allocation
Demand	70,000	70,000	71,100
Groundwater ¹	24,345	24,345	31,000
Alluvium	12,345	12,345	14,000
Saugus	12,000	12,000	17,000
Recycled Water	450	450	1,280
Imported Demand	45,205	45,205	38,820
Imported Supplies			
SWP Table A	4,760	9,520	4,760
BVERRB	11,000	11,000	11,000
Total Available Imported Supplies	15,760	20,520	15,760
Excess Imported Supplies (neg = shortfall)	(29,445)	(24,685)	(23,060)
Dry Year Water Supplies			
SWP Carryover Delivered (not always guaranteed)	7,000	7,000	6,500
Rosedale Banking	16,000	10,685	10,000
Semitropic Enhanced Recovery Unit (Banking)	5,000	5,000	5,000
Yuba Accord	1,000	1,000	1,000
Dry Year Water Purchase	600	1,000	
Flexible Storage Withdrawl (up to 6,060 AF)	1,950		560
Flexible Storage Payback (neg=payback)	(1,950)		
2021 SWP Carryover into 2022	155	0	0
Total Imported Supplies	45,360	45,205	38,820

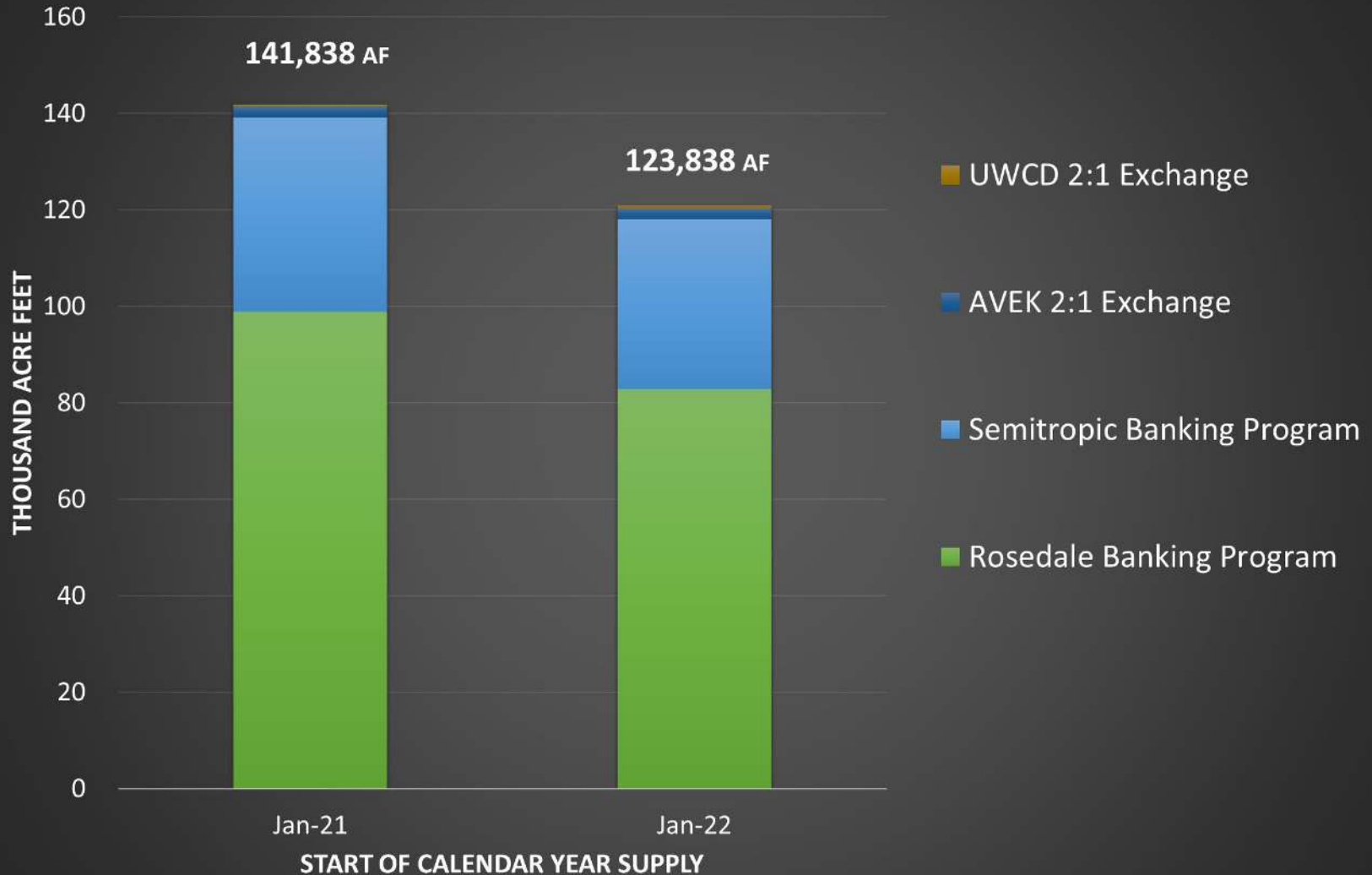
2021 Water Supply Sources vs. Estimated Demand (70,000 AF)



2021 Dry Year Water Supply Budget Estimates

Dry Year Program	AF	\$/AF	Total Cost
Rosedale (RRB) Recovery	16,000	\$80	\$1,280,000
Semitropic (SWRU) Recovery	5,000	\$250	\$1,250,000
Dry Year Water Purchase	600-450	\$625-\$830	\$375,000
Yuba	1,000	\$447	\$447,000
Total	22,600		\$3,352,000

Dry Year Storage Use Estimates 2021-2022



Questions?

