

Status of 2021 Water Supplies

SCV Water Board of Directors January 19, 2021 Item 6.3

Overview

Water Supplies

- SWP Table A
- O BVRRB
- Water Banks
- Water Exchanges

Water Supply Update

- 2020 Water Supply
- 2021 Conditions
- 2021 Operating Plan

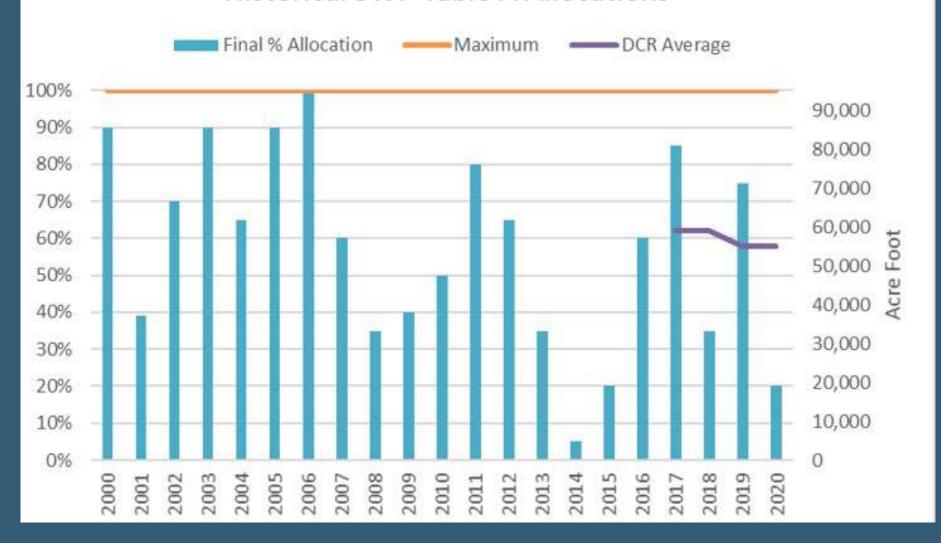


SWP Table A

- Olmported Water
- ○50% of demands in average year
- OAnnual variability
 - OPrecipitation (rain, snow, runoff)
 - OPumping capacity (California Delta)
 - OWater quality
 - Environmental regulations (wildlife)
- **OSCV** Water Contracted Amount
 - ○95,200 AFY- 100%
- OWet years stored in banking programs



Historical SWP Table A Allocations



SWP Article 56 Carryover Supply

- Balance January 2021 = 13,500 AF
- Maximum based on available storage in San Luis Reservoir
- O Delivery capacity limited between 25-50% of Table A amount
- Subject to "spill"
- No cost to store or extract

Operating Constraints: Balancing risk of spill with alternative water management actions

BVRRB Buena Vista Rosedale-Rio Bravo



- Water purchase agreement
 - O Term 2007-2036
 - OPlus term of SWC extension
 - 11,000 AFY (every year)
 - Non project water
- Critical supply for dry years
- Costs
 - Tied to CPI and SWP Costs
 - O 2021 \$888/AF



Water Banking Programs

Rosedale-Rio Bravo Water Storage District (RRB)

Storage Capacity

- 200,000 AF cycled through program
 - Maximum storage at any given time 100,000 AF
 - 98,800 AF current balance
- Delivery Capacity Rate (put)– 20,000 AFY
 - 11% recharge loss
- Extraction Capacity (take) 20,000 AFY (contractual maximum)
 - Combination of Agency financed wells (7,000 AF (2018)) and 1st right to unused well capacity (3,000 AF est. minimum)

ER STORAGE D

- Annual assessment of additional unused well capacity
- Exchange of Table A



Term of Contract

- Based on cycling through 200,000 AF

Costs

- Negotiation Fee \$600,000
- Capital
 - \$6,000,000 (initial capital)
 - \$9,736,000 (firm extraction capacity)
 - Extraction facilities (grant funding & 1% property tax)
 - Annual None
- Usage Fees (reserve fund)
 - Recharge Fees Prepaid (\$30 per AF for 200 TAF)
 - Recharge O/M & Transportation Fee \$9 per AF
 - Extraction Fee \$70 per AF from RRB wells
 - Extraction Fee \$2 per AF from SCVWA wells
 - O Power costs for extractions \$80 per AF
 - Cross Valley Canal costs

Semitropic SWRU-Stored Water Recovery Unit

- Part of a Larger Water Bank
 - 1.65 MAF of storage capacity
 - 15 participants (6 Original; 9 SWRU)
 - Total Extraction 2013-2016 = 410,000 AF
 - Successfully dealt with Water Quality Issues
- Storage Capacity
 - 15,000 AF plus 31,000 AF surcharge
 - 40,278 AF current balance
- Delivery Capacity (put) 5,000 AF minimum
 - 10% evaporative and aquifer losses
- Extraction Capacity (take) 5,000 AFY firm; plus exchange rights
- Exchange of Table A





Term of Contract

2015 to 2035

Option for two 10-year term extensions

Costs

- Capital \$8,450,000 (5,000 shares)
 - 75% funded through Prop 84 grant
- Annual Payments
 - Funding capital planning projects
 - Management Fee \$35,057 (\$7.01/share in 2021)
 - Maintenance Fee \$40,000 (\$8.00/share)
- Usage Fees (2021 rates)
 - Funded through reserves
 - \$14.01 per AF stored
 - \$98.11 per AF recovered
 - \$30.00 per AF treatment
 - Average unit power cost for pumping recovery (~\$120/AF)

AVEK 2:1 Water Exchange

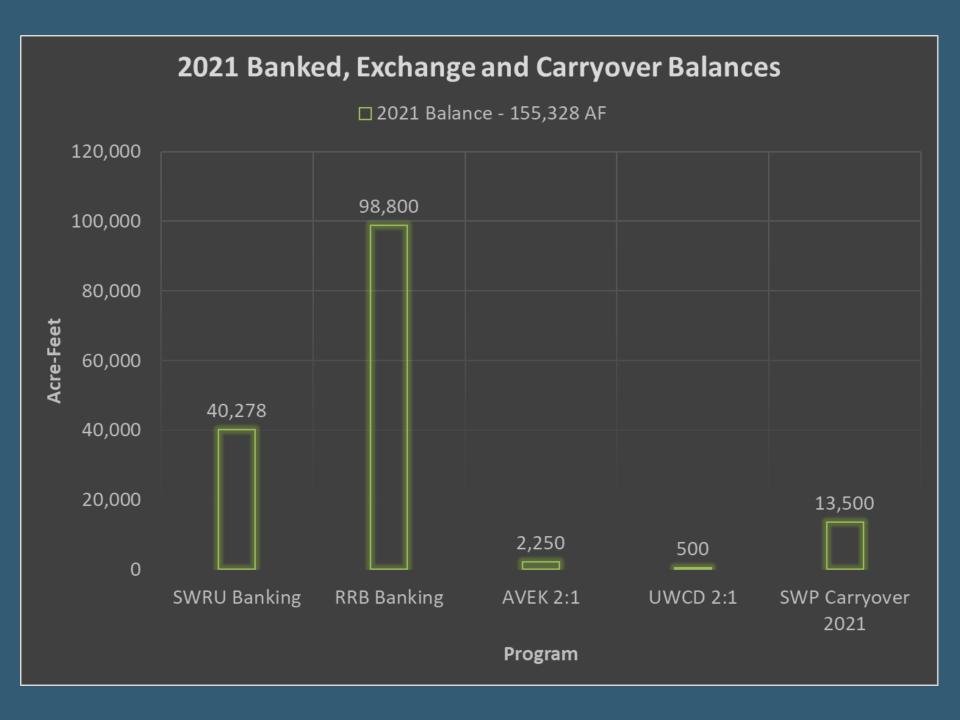
- 2019 Exchange with Antelope Valley-East Kern Water Agency (AVEK)
- Quantity Delivered –7,500 AF
 - 3,750 AF Return Obligation
 - Return in any year > 30% SWP allocation
- 2020 Return 1,500 AF
- Existing Return Obligation 2,250 AF by 2029



UWCD 2:1 Exchange

- 2019 Exchange with United Water Conservation District (UWCD)
- Quantity Delivered –1,000 AF
 - 500 AF Return Obligation
 - Return in any year > 30% SWP allocation
 - 500 AFY return maximum
- Existing Return Obligation 500 AF by 2029





2020 Water Supply Overview

- About Average Precipitation for Santa Clarita
- Dry Year Classification (statewide)
- 20% Allocation
- Local Water Quality Challenges



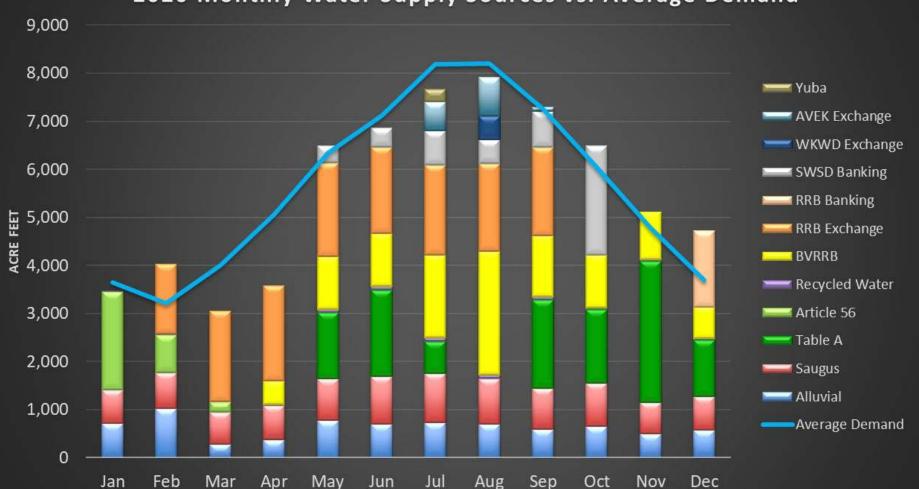
2020 vs. Historical Demands

SCV Water Supplies & Demands

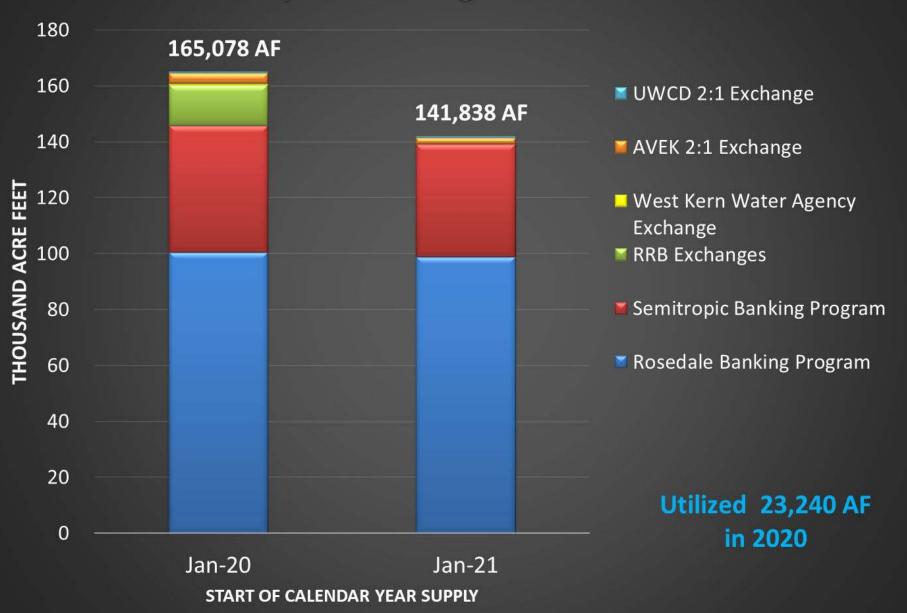


2020 Supply & Demands





Dry Year Storage Use in 2020





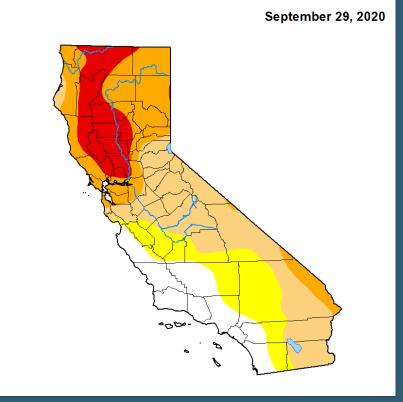
2021 Water Supply Update

2021 Drought Classification

Jan. - One Year Ago

2021 Water Year

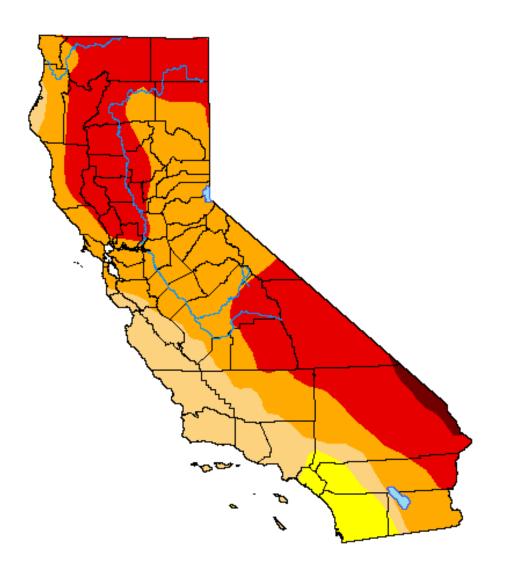




U.S. Drought Monitor California

January 12, 2021

(Released Thursday, Jan. 14, 2021) Valid 7 a.m. EST



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

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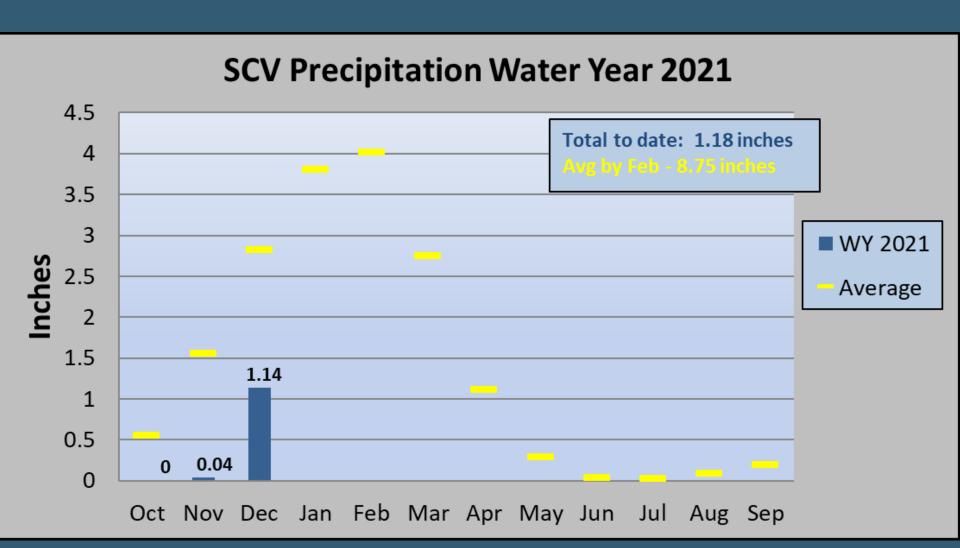


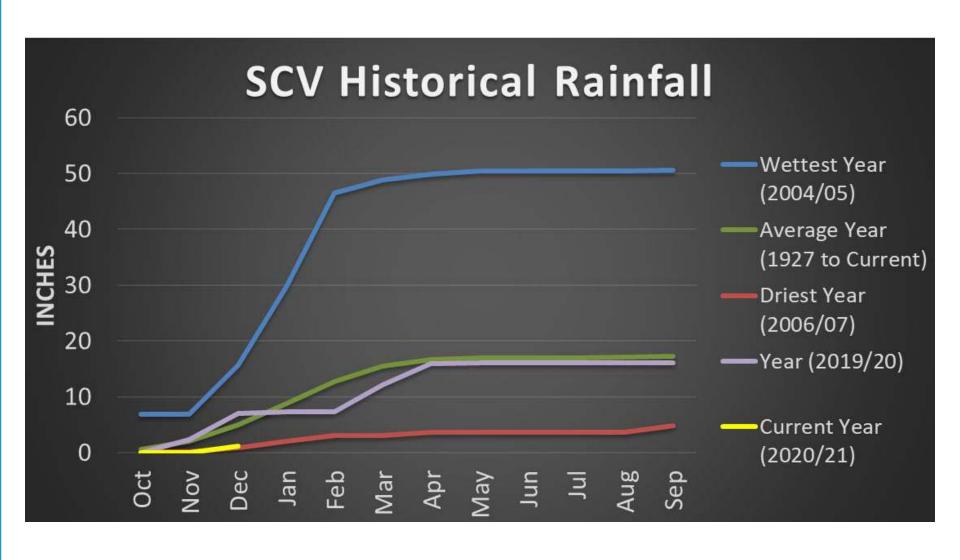




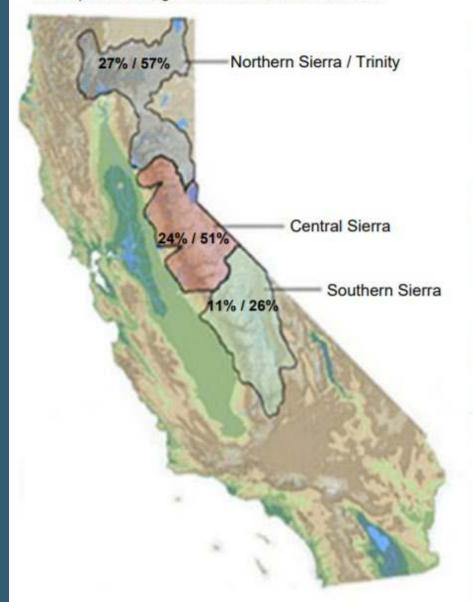


droughtmonitor.unl.edu





% of April 1 Average / % of Normal for This Date



NORTH	
Data as of January 14, 2021	
Number of Stations Reporting	32
Average snow water equivalent (Inches)	7.8
Percent of April 1 Average (%)	27
Percent of normal for this date (%)	57

CENTRAL	
Data as of January 14, 2021	
Number of Stations Reporting	44
Average snow water equivalent (Inches)	7.1
Percent of April 1 Average (%)	24
Percent of normal for this date (%)	51

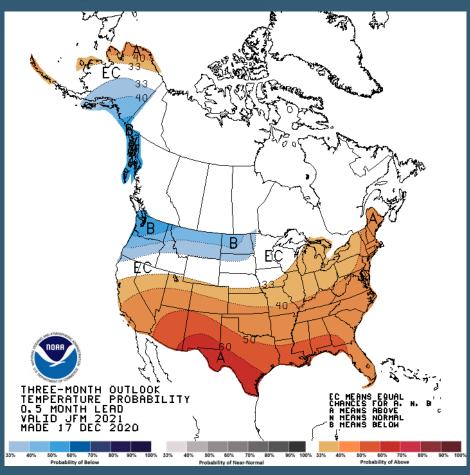
SOUTH	
Data as of January 14, 2021	
Number of Stations Reporting	26
Average snow water equivalent (Inches)	2.8
Percent of April 1 Average (%)	11
Percent of normal for this date (%)	26

STATE	
Data as of January 14, 2021	
Number of Stations Reporting	102
Average snow water equivalent (Inches)	6.2
Percent of April 1 Average (%)	22
Percent of normal for this date (%)	48

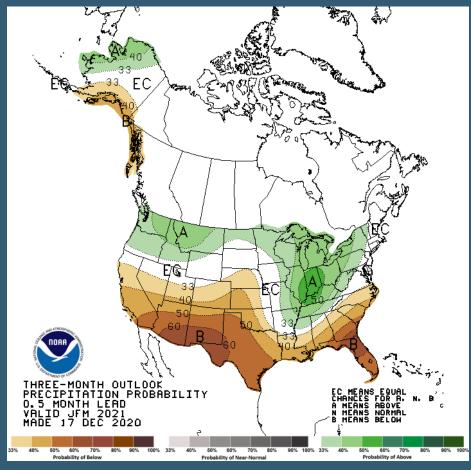
Statewide Average: 22% / 48%

Three Month Outlook (Jan-Mar)

Temperature



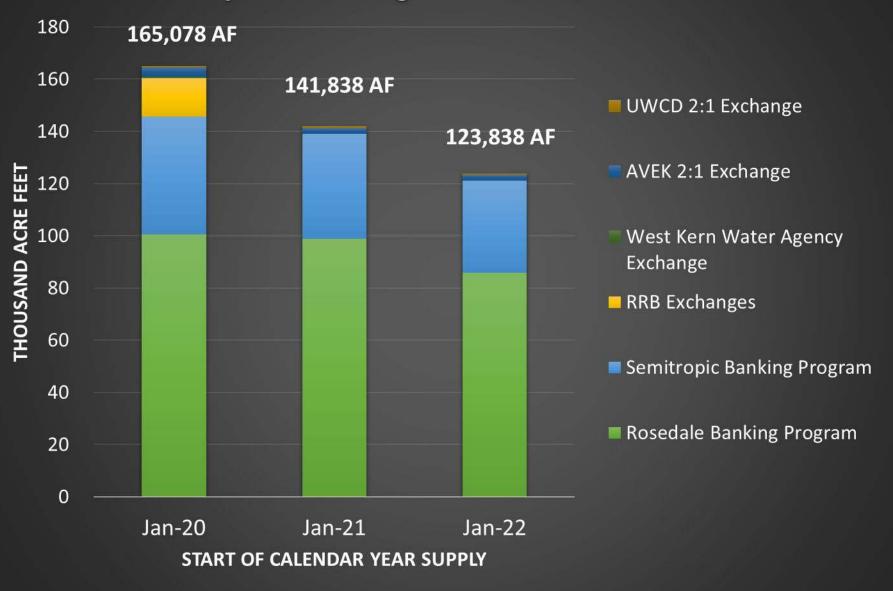
Precipitation



2022 6 SWP ocation	2021 50% SWP Allocation	2021 30% SWP Allocation	2021 10% SWP Allocation	2021 5% SWP Allocation	2021 Operating Plan (Acre-Feet)
71,100	70,000	70,000	70,000	70,000	Demand
30,000	24,345	24,345	24,345	24,345	Groundwater ¹
13,000	12,345	12,345	12,345	12,345	Alluvium
17,000	12,000	12,000	12,000	12,000	Saugus
1,480	450	450	450	450	Recycled Water
39,620	45,205	45,205	45,205	45,205	Imported Demand
					Imported Supplies
4,760	47,600	28,560	9,520	4,760	SWP Table A
11,000	11,000	11,000	11,000	11,000	BVRRB
15,760	58,600	39,560	20,520	15,760	Total Available Imported Supplies
(23,860)	13,395	(5,645)	(24,685)	(29,445)	Excess Imported Supplies (neg = shortfall)
					Dry Year Water Supplies
6,500		5,645	7,000	7,000	SWP Carryover Delivered (not always guaranteed)
	1,500				Devil's Den Delivery
10,000			10,685	13,000	Rosedale Banking
5,000			5,000	5,000	Semitropic Enhanced Recovery Unit (Banking)
					AVEK and or UWCD Exchange
1,000			1,000	1,000	Yuba Accord
			1,000	1,000	Dry Year Water Purchase
					Semitropic Banking Program - Newhall Land
					Nickel Water - Newhall Land
	(5,500)				Water Sales
1,360				2,445	Flexible Storage (up to 6,060 AF)
0	9395	0	0	0	2021 SWP Carryover into 2022
39,620	63,995	45,205	45,205	45,205	Total Imported Supplies
	9395			0	Flexible Storage (up to 6,060 AF) 2021 SWP Carryover into 2022



Dry Year Storage Use Estimates 2021



2021 Dry Year Water Supply Budget Estimates

Dry Year Water Program		2021 Recovery (AF)	\$/AF	Total Costs
Rosedale (RRB)		13,000	\$80	\$1,040,000
Semitropic (SWRU)		5,000	\$250	\$1,250,000
Dry Year Water Purchase		1,000	TBD	TBD
Yuba Accord		1,000	\$447	\$447,000
AVEK Exchange		0	\$-	\$-
UWCD Exchange		0	\$-	\$-
NLF Semitropic Storage		0	TBD	\$-
Nickel		0	\$800	\$-
	Total	20,000		\$2,737,000

Questions?

