

SAWPA

SANTA ANA WATERSHED PROJECT AUTHORITY

11615 Sterling Avenue, Riverside, California 92503 • (951) 354-4220

Meeting Access Via Computer (Zoom):	Meeting Access Via Telephone:
 https://sawpa.zoom.us/j/86389113309 	• 1 (669) 900-6833
Meeting ID: 863 8911 3309	Meeting ID: 863 8911 3309

This meeting will be conducted in person at the address listed above. As a convenience, members of the public may also participate virtually using one of the options set forth above. Any member of the public may listen to the meeting or make comments to the Commission using the call-in number or Zoom link above. However, in the event there is a disruption of service which prevents the Authority from broadcasting the meeting to members of the public, the meeting will not be postponed or rescheduled but will continue without remote participation. The remote participation option is provided as a convenience to the public and is not required. Members of the public are welcome to attend the meeting in-person.

REGULAR COMMISSION MEETING TUESDAY, OCTOBER 1, 2024 – 9:30 A.M.

AGENDA

- 1. CALL TO ORDER/PLEDGE OF ALLEGIANCE (Bruce Whitaker, Chair)
- 2. ROLL CALL

3. PUBLIC COMMENTS

Members of the public may address the Commission on items within the jurisdiction of the Commission; however, no action may be taken on an item not appearing on the agenda unless the action is otherwise authorized by Government Code §54954.2(b).

Members of the public may make comments in-person or electronically for the Commissions' consideration by sending them to publiccomment@sawpa.gov with the subject line "Public Comment". Submit your electronic comments by 5:00 p.m. on Monday, September 30, 2024. All public comments will be provided to the Chair and may be read into the record or compiled as part of the record. Individuals have a limit of three (3) minutes to make comments and will have the opportunity when called upon by the Commission.

4. ITEMS TO BE ADDED OR DELETED

Pursuant to Government Code §54954.2(b), items may be added on which there is a need to take immediate action and the need for action came to the attention of the SAWPA Commission subsequent to the posting of the agenda.

5. CONSENT CALENDAR

All matters listed on the Consent Calendar are considered routine and non-controversial and will be acted upon by the Commission by one motion as listed below.

6. NEW BUSINESS

Presenter: Rachel Gray, SAWPA | Frank McDonough, Desert Research Institute

Recommendation: Receive and file.

	B.	SANTA ANA RIVER WATERSHED CLOUD SEEDING PILOT PROGRAM: YEAR 2 OPERATIONS (CM#2024.57)	55
		Presenter: Jeff Mosher, SAWPA	
		Recommendation: Receive and file.	
7.		ORMATIONAL REPORTS ommendation: Receive for information.	
	A.	GENERAL MANAGER REPORT Presenter: Jeff Mosher	75
	В.	CHAIR'S COMMENTS/REPORT	
	C.	COMMISSIONERS' COMMENTS	
	D.	COMMISSIONERS' REQUEST FOR FUTURE AGENDA ITEMS	
8.	CLC	SED SESSION	

9. ADJOURNMENT

PLEASE NOTE:

Americans with Disabilities Act: If you require any special disability related accommodations to participate in this meeting, call (951) 354-4220 or email svilla@sawpa.gov 48-hour notification prior to the meeting will enable staff to make reasonable arrangements to ensure accessibility for this meeting. Requests should specify the nature of the disability and the type of accommodation requested.

There were no Closed Session items anticipated at the time of the posting of this agenda.

Materials related to an item on this agenda submitted to the Commission after distribution of the agenda packet are available for public inspection during normal business hours at the SAWPA office, 11615 Sterling Avenue, Riverside, and available at www.sawpa.gov, subject to staff's ability to post documents prior to the meeting.

Declaration of Posting

I, Sara Villa, Clerk of the Board of the Santa Ana Watershed Project Authority declare that on September 26, 2024, a copy of this agenda has been uploaded to the SAWPA website at www.sawpa.gov and posted at SAWPA's office at 11615 Sterling Avenue, Riverside, California.

2024 SAWPA Commission Meetings/Events

First and Third Tuesday of the Month

(NOTE: All meetings begin at 9:30 a.m., unless otherwise noticed, and are held at SAWPA.)

January		February			
1/2/24	Commission Workshop [cancelled]	2/6/24	Commission Workshop		
1/16/24	Regular Commission Meeting	2/20/24	Regular Commission Meeting		
March		April			
3/5/24	Commission Workshop [cancelled]	4/2/24	Commission Workshop		
3/19/24	Regular Commission Meeting	4/16/24	Regular Commission Meeting [cancelled]		
May		June			
5/7/24	Commission Workshop [cancelled]	6/4/24	Commission Workshop		
5/21/24	Regular Commission Meeting	6/18/24	Regular Commission Meeting		
5/7 - 5/9/2	4 ACWA Spring Conference, Sacramento, CA				
July		August			
7/2/24	Commission Workshop	8/6/24	Commission Workshop		
7/16/24	Regular Commission Meeting	8/20/24	Regular Commission Meeting		
September	r	October			
9/3/24	Commission Workshop	10/1/24	Commission Workshop		
9/17/24 Regular Commission Meeting		10/15/24	Regular Commission Meeting		
November		December	_		
11/5/24	Commission Workshop	12/3/24	Commission Workshop		
11/19/24	Regular Commission Meeting	12/17/24	Regular Commission Meeting		
		12/3 – 12/5	5/24 ACWA Fall Conference, Palm Springs, CA		

2025 SAWPA Commission Meetings/Events

First and Third Tuesday of the Month

(NOTE: All meetings begin at 9:30 a.m., unless otherwise noticed, and are held at SAWPA.)

January		February	
1/7/25 1/21/25	Commission Workshop Regular Commission Meeting	2/4/25 2/18/25	Commission Workshop Regular Commission Meeting
March		April	
3/4/25 3/18/25	Commission Workshop Regular Commission Meeting	4/1/25 4/15/25	Commission Workshop Regular Commission Meeting
May		June	
5/6/25 5/20/25 5/13 – 5/15			Commission Workshop Regular Commission Meeting
July		August	
7/1/25 7/15/25	Commission Workshop Regular Commission Meeting	8/5/25 8/19/25	Commission Workshop Regular Commission Meeting
Septembe	r	October	
9/2/25 9/16/25	Commission Workshop Regular Commission Meeting	10/7/25 10/21/25	Commission Workshop Regular Commission Meeting
November	•	December	
11/4/25 11/18/25	Commission Workshop Regular Commission Meeting	12/2/25 12/16/25 12/2 – 12/4	Commission Workshop Regular Commission Meeting 1/25 ACWA Fall Conference, San Diego, CA

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SAWPA COMPENSABLE MEETINGS

In addition to Commission meetings, Commissioners and Alternate Commissioners will receive compensation for attending the meetings listed below, pursuant to the Commission Compensation, Expense Reimbursement, and Ethics Training Policy.

<u>IMPORTANT NOTE</u>: These meetings are subject to change. Prior to attending any meetings listed below, please confirm meeting details by viewing the website calendar using the following link:

https://sawpa.gov/sawpa-calendar/

MONTH OF: OCTOBER 2024

DATE	TIME	MEETING DESCRIPTION	LOCATION
10/1/24	8:30 AM	PA 23 Committee Mtg	CANCELLED
10/1/24	10:00 AM	PA 24 Committee Mtg	Hybrid (SAWPA & Virtual/Teleconference)
10/16/24	2:00 PM	Joint Regional Water Quality Monitoring/MSAR TMDL Task Force Mtg	Virtual/Teleconference
10/17/24	3:00 PM	LESJWA Board of Directors Mtg	Hybrid (Elsinore Valley MWD, 31315 Chaney Street, Lake Elsinore, CA 92530 & Virtual/Teleconference)
10/29/24	29/24 9:00 AM Basin Monitoring Program Task Force Mtg		Virtual/Teleconference

MONTH OF: NOVEMBER 2024

DATE	TIME	MEETING DESCRIPTION	LOCATION
11/5/24	10:00 AM	PA 24 Committee Mtg	Hybrid (SAWPA & Virtual/Teleconference)
11/5/24	1 2:00 PM	Emerging Constituents Program Task Force Mtg	Virtual/Teleconference
11/21/24	11:00 AM	OWOW Steering Committee Mtg	Hybrid (SAWPA & Virtual/Teleconference)

<u>Please Note</u>: We strive to ensure the list of Compensable Meetings set forth above is accurate and up-to-date; the list is compiled based on input from SAWPA staff and Department Managers regarding meeting purpose and content.

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SAWPA COMMISSION REGULAR MEETING MINUTES SEPTEMBER 17, 2024

COMMISSIONERS PRESENT Bruce Whitaker, Chair, Orange County Water District

Mike Gardner, Vice Chair, Western Municipal Water District T. Milford Harrison, Secretary-Treasurer, San Bernardino Valley

Municipal Water District

Jasmin A. Hall, Inland Empire Utilities Agency [via - zoom]

COMMISSIONERS ABSENT None

COMMISSIONERS PRESENT;

NON-VOTING

David J. Slawson, Eastern Municipal Water District [via – zoom] Denis Bilodeau, Alternate, Orange County Water District

Gil Botello, Alternate, San Bernardino Valley Municipal Water District

<u>STAFF PRESENT</u> Jeff Mosher, Karen Williams, David Ruhl, Rachel Gray, Shavonne

Turner, Rick Whetsel, Ian Achimore, Marie Jauregui, Dean Unger,

John Leete, Sara Villa, Zyanya Ramirez

OTHERS PRESENT Andrew Turner, Lagerlof, LLP; Nick Kanetis, Eastern Municipal

Water District; Lisa Haney, Orange County Water District; John Kennedy, Orange County Water District; Mallory O'Conor, Western Municipal Water District; Gene Hernandez, Yorba Linda Water District; Beth Olhasso, West Coast Advisors; Michael Boccadoro,

West Coast Advisors

The Regular Meeting of the Santa Ana Watershed Project Authority Commission was called to order at 9:31 a.m. by Chair Bruce Whitaker on behalf of the Santa Ana Watershed Project Authority, 11615 Sterling Avenue, Riverside, California.

1. CALL TO ORDER

2. ROLL CALL

An oral roll call was duly noted and recorded by the Clerk of the Board.

3. PUBLIC COMMENTS

There were no public comments: there were no public comments received via email.

4. ITEMS TO BE ADDED OR DELETED

There were no items to be added or deleted.

5. CONSENT CALENDAR

A. APPROVAL OF MEETING MINUTES: SEPTEMBER 3, 2024

Recommendation: Approve as posted.

B. 2025 MEDICAL INSURANCE CAP (CM#2024.51)

Recommendation: To direct staff to adjust the medical insurance cap from \$2,057.56 to \$2,168.93, which is equal to the ACWA/JPIA 2025 Kaiser Family Plan rate.

MOVED, to approve the Consent Calendar as posted.

Result: Adopted by Roll Call Vote

Motion/Second: Harrison/Gardner

Ayes: Gardner, Hall, Harrison, Whitaker

Nays: None Abstentions: None Absent: None

6. WORKSHOP DISCUSSION AGENDA

A. LEGISLATIVE REPORT

Michael Boccadoro of West Coast Advisors provided a presentation on the Sacramento Update. Regarding the Drought/Water Supply, the carryover storage in major reservoirs in California remains above historic levels. There is discussion taking place regarding salinity control in the Delta, about 350,000-acre feet of water could get sent down the Delta in pursuit of salinity control with very little benefit to the Delta smelt that it is designed to protect. Both urban and agricultural agencies are pushing hard to find a different way to approach some of the issues in the Delta that will not cost significant amounts of water.

On August 31st the Legislature adjourned the 2023-24 two-year regular session. Lots of Bills were passed by both houses and the Governor has until the end of the month to act on those measures. Mr. Boccadoro noted that the Governor at the end of the regular session called a special session on fuel prices. The Governor feels strongly about a reserve supply of California gasoline that could be utilized during times of shortage or outage. There are concerns about inflation and energy costs whether its electricity, natural gas, and fuel prices in the State and has implications for water and sewer rates as well. The legislatures are returning to the Assembly in Sacramento this week to initiate some of the discussions.

Beth Olhasso continued the presentation and noted that the two-year session ended and there were about 1,500 Bills sent over to the Governor for signature. A brief update was provided on the following Legislative Bills:

The Water Supply Bills:

- SB 366 (Caballero) CA Water Plan: Long-term supply targets
- AB 460 (Bauer-Kahan) Water Rights
- SB 1390 (Caballero) Flood Flow Diversion

PFAS:

SB 903 (Skinner) CASA & NRDC ban all non-essential uses of PFAS by 2034

Connection & Capacity Fees:

- SB 1210 (Skinner)
- SB 937 (Weiner)
- AB 1820 (Schiavo)

Water Use Efficiency:

- SB 1110 (Ashby) Urban Water Use Efficiency
- SB 1330 (Archuleta) Urban Water Use Efficiency
- AB 3120 (Heart) Urban Water Use Efficiency

Groundwater:

AB2079 (Bennett) Groundwater Wells

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Ms. Olhasso noted that the Legislative Budget closed with a \$45 billion shortfall. The specifics for SAWPA are \$74.4 million for Recycled Water (\$100 million reverted), \$24 million for PFAS support, and the Watershed Climate Resilience maintains \$133 million, but reduced allocations by \$298 million for 2024-25 and 2025-26.

Ms. Olhasso highlighted a few regulatory updates; the Urban Water Use Efficiency Regulations were finalized on July 3rd and the implementation of standards has been delayed by five (5) years. Agreements to support Healthy Rivers and Landscapes (voluntary agreements) are currently on hold, the Department of Water Resources, Bureau of Reclamation, and Water Agency Partners responded to questions on the agreements from the State Board, and staff is waiting for next steps. The State Board adopted the Hexavalent Chromium MCL of 10 parts per billion, and the third draft of the Model Water Efficiency Landscape Ordinance was released in August and the comment period just ended.

Commissioner Gardner noted that SB 366 made it through all the committees and both houses of legislature and asked if Governor Newsome has a history that we are aware of not taking an active position on bills and just letting them fall. Mr. Boccadoro said no, that is not a pattern he has seen in the past. Chair Whitaker commended Mr. Boccadoro and Ms. Olhasso for their report and appreciates all their efforts.

This item is to receive and file; no action was taken on agenda item no. 6.A.

7. NEW BUSINESS

A. SANTA ANA RIVER TRAIL AND PARKWAY UPDATE (CM#2024.52)

Ian Achimore provided a presentation on the Santa Ana River Trail and Parkway (SARTP) Update, contained in the agenda packet on pages 19-36. A brief overview was provided of the history and purpose of the SARTP partnership. A Memorandum of Understanding (MOU) was active among the counties of Orange, Riverside, and San Bernardino, cities in the three counties, the Wildlands Conservancy, and SAWPA. This MOU was created to facilitate planning, project implementation, reporting and accountability amongst the various entities related to the SARTP.

The SARTP is approximately 100-mile-long trail that runs from lands within the San Bernardino National Forest to the River's outlet at Huntington Beach. In 2014, Senate Bill 1390 created the Santa Ana River Conservancy (SARCON) which is taking an active role in SARTP completion. SARCON (administered by California Coastal Conservancy) is charged with developing a SARTP implementation plan and creating an advisory group comprised of local leaders that have decision-making authority. The SARTP Implementation Plan was released in 2018.

Through the MOU, a Policy Advisory Group (PAG) of elected officials was created as well as a Technical Advisory Committee by staff. The PAG meets quarterly and provides local decision-making authority and expertise to guide the Coastal Conservancy as the State agency implements the SARTP Plan and funds various projects that have been highlighted in the SARTP Plan. Mr. Achimore highlighted that SAWPA has the following role in the SARTP and Advisory Group:

- SAWPA has a member and is the Vice Chair of the Advisory Group to the Coastal Conservancy, Commissioner T. Milford Harrison.
- In 2014, a 25-year long operations and maintenance agreement was signed by SAWPA with Riverside County Regional Park and Open-Space District (RivCo Parks) for the segments of the trail.
- SAWPA coordinates with RivCo Parks on certain trail segment construction.

 In 2024, the SAWPA PA 24 Committee approved staff preparing license agreements with AT&T and Southern California Edison to assist in their relocation of utilities within SAWPA property to assist with trail segment construction.

Mr. Achimore noted that the trail segments remaining to be constructed are three miles in Orange County, 10 miles in Riverside County, and 20 miles in San Bernardino County. A Grant application was submitted by Orange County Park on September 11th to Coastal Conservancy for \$250,000 to fund a phasing plan, updated cost estimate and regulatory permits for the Extension Project and the construction schedule is to be determined. Riverside County Parks estimates \$100 million is needed to finish construction of trail on the non-completed segments. San Bernardino County SART 3 (3.8 miles), construction will resume after bird nesting season and is anticipated to be finished December 2025. SART 4A (3.9 miles), project completion is estimated in 2026. SART 4B and C (3.3 miles), San Bernardino Regional Parks is waiting on the outcome of its Active Transportation Program grant application, and it is expected to be received in 2025. SART 4D and E, no work has been started.

The potential future role for SAWPA is to review large SARTP projects before the Advisory Group to see if there are opportunities to expand the multi-benefit aspects of the projects, to assist with outreach to Federal/State legislatures on SARTP funding needs, assist with grant application for project implementation, assist counties with coordination with property owners who are water agencies on trail construction, and lead the development of a SARTP website that can potentially provide construction updates. The Commissioner commended Mr. Achimore for all his efforts and the detailed report.

This item is to receive and file; no action was taken on agenda item no. 7.A.

8. INFORMATIONAL REPORTS

Recommendation: Receive for Information.

A. CASH TRANSACTIONS REPORT – JULY 2024

Presenter: Karen Williams

B. INTER-FUND BORROWING – JULY 2024 (CM#2024.53)

Presenter: Karen Williams

C. PERFORMANCE INDICATORS/FINANCIAL REPORTING – JULY 2024 (CM#2024.54)

Presenter: Karen Williams

D. FOURTH QUARTER FYE 2024 EXPENSE REPORT

General Manager

Staff

Presenter: Karen Williams

E. <u>BUDGET VS ACTUAL VARIANCE REPORT FYE 2024 FOURTH QUARTER – JUNE 30, 2024 (CM#2024.55)</u>

Presenter: Karen Williams

F. FINANCIAL REPORT FOR THE FOURTH QUARTER ENDING JUNE 30, 2024

Presenter: Karen Williams

G. STATE LEGISLATIVE REPORT

Presenter: Jeff Mosher

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H. GENERAL MANAGER REPORT

Jeff Mosher informed the Commission that SAWPA staff has been contacted by the Flood Control District regarding their concerns of burn scars and debris flows due to the three (3) current fires (Line, Airport, and Bridge). It is anticipated to make it challenging to foresee being able to cloud seed for Year 2. Staff are looking into it internally and will be bringing it back to the Commission for a future meeting. Mr. Mosher noted that Direct Potable Reuse (DPR) is being talked about because the final regulations are going through the administration process by the State and are to be effective October 1st. There has been a lot of interest in Brine and Brine Management, SAWPA staff have been tracking it through CASA and other groups and there's potential to reopen the Ocean Plan. The Ocean Plan deals with how Brine is discharged to the Ocean. Mr. Mosher noted this item will be brought back to the Commission with more details. Mr. Mosher also acknowledged the new San Bernardino Valley Municipal Water District Boardroom sign and thanked the member agencies' staff for tracking their information on the signage.

I. CHAIR'S COMMENTS/REPORT

Chair Bruce Whitaker noted that the OC Water Summit is scheduled for Friday, September 27th at the Westin in South Coast Plaza. Mr. Mosher noted that SAWPA is a sponsor for the event.

J. COMMISSIONERS' COMMENTS

Commissioner Harrison commended staff for the informative reports and all their efforts.

K. COMMISSIONERS' REQUEST FOR FUTURE AGENDA ITEMS

There were no requests for future agenda items.

9. CLOSED SESSION

There was no Closed Session.

10. ADJOURNMENT

There being no further business for review, Chair Bruce Whitaker adjourned the meeting at 10:31 a.m.

Approved at a Regular Meeting of the Santa Ana Watershed Project Authority Commission on Tuesday, October 1, 2024.

Bruce Whitaker, Chair	_
Attest:	
Sara Villa, Clerk of the Board	

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Santa Ana Watershed Project Authority



Finance Department

Santa Ana Watershed Project Authority

TREASURER'S REPORT

August 2024

During the month of August 2024, the Agency's actively managed temporary idle cash earned a return of 3.507%, representing interest earnings of \$44,935. Additionally, the Agency's position overnight funds L.A.I.F. generated \$204,649 in interest, resulting in \$249,584 of interest income from all sources. Please note that this data represents monthly earnings only and does not indicate actual interest received. There were zero (0) investment positions purchased, zero (0) positions sold, one (1) position matured, and zero (0) positions were called.

This Treasurer's Report is in compliance with SAWPA's Statement of Investment Policy. Based upon the liquidity of the Agency's investments, this report demonstrates the ability to meet customary expenditures during the next six months.

September 12, 2024

Prepared and submitted by:

Kaun Williams

Karen L. Williams, Deputy GM/Chief Financial Officer

INVESTMENT PORTFOLIO - MARKED TO MARKET - UNREALIZED GAINS & LOSSES

August 31, 2024

SAWPA primarily maintains a "Buy and Hold" investment philosophy, with all investments held by US Bank via a third-party safekeeping contract.

Agency PHLB	Investment	Security			Purchase	Maturity	Call Date		Yield To	Investment	N	Narket Value	U	nrealized	Coupon	Interest
Agency FHLB	Type	Type	CUSIP	Dealer	Date	Date	(if appl)	Par Value	Maturity	Cost	C	urrent Month	Ga	in/(Loss)	Rate	Earned
Agency FHLB	Agency	FHLB	3130A3GE8	MBS	02-04-20	12-13-24	No Call	\$ 500,000.00	1.414%	\$ 531,250.00	\$	496,800.62	\$	(34,449)	2.750%	\$ 600.51
Agency PHLB	Agency	FHLB	3130ASWP0	MBS	08-30-22	11-27-24	No Call	\$ 1,000,000.00	3.652%	\$ 1,000,000.00	\$	996,509.17	\$	(3,491)	3.650%	\$ 3,101.70
Agency FHLB	Agency	FHLB	3130ATT31	MBS	10-28-22	10-03-24	No Call	\$ 1,000,000.00	4.500%	\$ 998,910.00	\$	999,026.05	\$	116	4.500%	\$ 3,821.92
Agency FHLB	Agency	FHLB	3130ATHWO	WMS	11-04-22	09-10-27	No Call	\$ 1,000,000.00	4.125%	\$ 991,965.00	\$	1,009,328.30	\$	17,363	4.125%	\$ 3,503.42
Pagency PHUB	Agency	FHLB	3130ATUR6	MBS	06-06-23	12-13-24	No Call	\$ 500,000.00	4.629%	\$ 499,966.50	\$	499,274.59	\$	(692)	4.625%	\$ 1,965.74
Agency FNMA 3135G0X24 M8S 02-04-20 01-07-25 No Call \$ 50000000 1.398% \$ 505,88000 \$ 494,203.20 \$ (11,177) 18.25% \$ 598,717	Agency	FHLB	3130AWC24	MBS	06-06-23	06-09-28	No Call	\$ 500,000.00	3.889%	\$ 502,505.00	\$	504,763.30	\$	2,258	4.000%	\$ 1,278.58
Pagency FNMA 9135G0577 WMS 01-92 11-13-02 No Call \$ 1,000,00000 0.460% \$ 985,582.00 \$ 961,591.14 \$ (34,361) 0.375% \$ 396,689	Agency	FHLB	3130AWN63	WMS	01-25-24	06-30-28	No Call	\$ 1,000,000.00	4.020%	\$ 999,170.00	\$	1,011,269.08	\$	12,099	4.000%	\$ 1,278.58
Pagency USTN	Agency	FNMA	3135G0X24	MBS	02-04-20	01-07-25	No Call	\$ 500,000.00	1.398%	\$ 505,380.00	\$	494,203.20	\$	(11,177)	1.625%	\$ 593.71
Pagency USTN	Agency	FNMA	3135G05X7	WMS	10-30-20	08-25-25	No Call	\$ 1,000,000.00	0.460%	\$ 995,952.00	\$	961,591.14	\$	(34,361)	0.375%	\$ 390.68
CD American Express Natl Bank	Agency	USTN	91282CAZ4	WMS	04-19-21	11-30-25	No Call	\$ 1,000,000.00	0.761%	\$ 982,500.00	\$	953,281.25	\$	(29,219)	0.375%	\$ 646.04
CD Beal Bank USA 07371 DE\(65 ABC) CD Synchrony Bank 87164XP34 MBS 08-17-22 08-12-25 No Call \$ 245,000.00 3,200% \$ 241,128.40 \$ (3,872) 3.20% \$ 665,86 CD Synchrony Bank 87164XP34 MBS 08-12-22 08-12-25 No Call \$ 245,000.00 3,200% \$ 245,000.00 \$ 241,273.11 \$ (4,723) 3.20% \$ 665,86 CD Morgan Saniky Private Bank 41764UT-10.1 MBS 05-12-25 Post-2-27 No Call \$ 246,000.00 3,200% \$ 246,000.00 \$ 241,273.11 \$ (4,723) 3.20% \$ 665,86 CD Morgan Saniky Private Bank 41768UAT4 MBS 11-15-27 11-15-27 11-15-27 3 \$ 248,000.00 \$ 248,000.00 \$ 248,000.00 \$ 248,000.00 \$ 10,000 \$	Agency	USTN	912828ZTO	WMS	09-15-21	05-31-25	No Call	\$ 1,000,000.00	0.530%	\$ 989,726.56	\$	968,359.38	\$	(21,367)	0.250%	\$ 450.29
CD Synchrony Bank 87164XP34 MBS 08-12-22 08-12-25 No Call \$ 245,000.00 3,350% \$ 245,000.00 \$ 242,42258 \$ (2577) 33.50% \$ 74.44 CD Caphel One Bank USANA 1404ZTGJ0 MBS 05-25-22 05-25-27 No Call \$ 246,000.00 5,200% \$ 246,000.00 \$ 248,436.17 \$ 436 50.00% \$ 60858 \$ (2577) \$ 5.00% \$ 1.052.15 \$ (2578) \$ 5.00% \$ 1.052.15 \$ (2578) \$ (CD	American Express Natl Bank	02589ADS8	MBS	08-17-22	08-19-24	No Call	\$ -	0.000%	\$ -	\$	-	\$	-	0.000%	\$ 697.08
CD Capital One Bank USANA 14042TGJ0 MBS 05-25-22 05-25-27 No Call \$ 246,000.00 3.200% \$ 246,000.00 \$ 241,477.31 \$ (4,723) 3.200% \$ 685.88 CD Morgan Saniely Private Bank 61768UATA MBS 11-15-22 11-15-27 1-11-5-23 \$ 248,000.00 5.000% \$ 248,000.00 \$ 248,436.17 \$ 436 5.000% \$ 1,035.16 CD CD Prime Alliance Bank 74160NJF8 MBS 11-17-22 11-15-27 \$ 248,000.00 4.950% \$ 248,000.00 \$ 248,000.00 \$ 248,436.17 \$ 436 5.000% \$ 1,035.16 CD COoperative Center FSU 21686MA46 MBS 12-29-22 12-29-25 No Call \$ 249,000.00 4.950% \$ 249,000.00 \$ 252,18.74 \$ 1.219 4.850% \$ 1,035.16 CD Alling Bank 00833.NG4 MBS 03-17-28 No Call \$ 249,000.00 4.950% \$ 249,000.00 \$ 252,18.74 \$ 1.219 4.850% \$ 1,032.24 CD CD Cooperative CR UN Alaska 37692MAF1 MBS 03-12-23 05-12-27 No Call \$ 243,000.00 5.050% \$ 243,000.00 \$ 293,000 \$ 243,000.00 \$ 243,00	CD	Beal Bank USA	07371DEV5	MBS	08-17-22	08-12-26	No Call	\$ 245,000.00	3.200%	\$ 245,000.00	\$	241,128.40	\$	(3,872)	3.200%	\$ 665.86
CD Morgan Stanley Private Bank 61768 UAT4 MBS 11-15-22 11-15-27 11-15-23 \$ 248,000.00 5.00% \$ 248,000.00 \$ 248,436.17 \$ 436 5.000% \$ 1,053.15 CD Prime Allance Bank 74160 NLPB MBS 11-17-22 11-17-27 05-17-23 \$ 248,000.00 49.50% \$ 248,000.00	CD	Synchrony Bank	87164XP34	MBS	08-12-22	08-12-25	No Call	\$ 245,000.00	3.350%	\$ 245,000.00	\$	242,422.58	\$	(2,577)	3.350%	\$ 74.44
CD Prime Alliance Bank 74160NJF8 MBS 11-17-22 11-17-27 05-17-23 \$ 248,000.00 4.950% \$ 248,000.00 \$ 248,104.02 \$ 1.04 4.950% \$ 1.042.62 CD Coperative Center FSU 21686MA/8 MBS 12-29-22 12-29-25 No Call \$ 248,000.00 4.650% \$ 249,000.00 \$ 250,218.74 \$ 1.219 4.850% \$ 983.38 CD CD Allian Standard Control of Coperative Center FSU 21686MA/8 MBS 03-17-28 No Call \$ 248,000.00 4.650% \$ 249,000.00 \$ 256,211.47 \$ 1.219 4.850% \$ 983.38 CD CD CD Allian Standard Coperative	CD	Capital One Bank USANA	14042TGJ0	MBS	05-25-22	05-25-27	No Call	\$ 246,000.00	3.200%	\$ 246,000.00	\$	241,277.31	\$	(4,723)	3.200%	\$ 668.58
CD Cooperative Center FSU 21686MAA6 MBS 12-29-22 12-29-25 No Call \$ 249,000.00 4650% \$ 249,000.00 \$ 256,411.47 \$ 8,411 4900% \$ 1,032.09 CD Affinity Bank 008331AC4 MBS 03-17-23 03-17-28 No Call \$ 248,000.00 5.050% \$ 248,000.00 \$ 256,411.47 \$ 8,411 4900% \$ 1,032.09 CD Discover Bank 2546732V7 MBS 03-12-23 03-23-27 No Call \$ 249,000.00 5.050% \$ 248,000.00 \$ 256,411.47 \$ 8,411 4900% \$ 1,032.09 CD Global Fed CR UN Alaska 37892MAF1 MBS 05-12-23 05-12-27 No Call \$ 249,000.00 4,600% \$ 249,000.00 \$ 253,220.97 \$ 4,221 4,600% \$ 972.81 CD USB Bank USA 903556D1/2 MBS 05-17-23 05-17-27 No Call \$ 249,000.00 4,600% \$ 249,000.00 \$ 253,220.97 \$ 4,221 4,600% \$ 972.81 CD Bank Bank of North Americ 05580A2G8 MBS 06-16-23 06-16-28 No Call \$ 249,000.00 4,600% \$ 244,000.00 \$ 246,000.00 \$	CD	Morgan Stanley Private Bank	61768UAT4	MBS	11-15-22	11-15-27	11-15-23	\$ 248,000.00	5.000%	\$ 248,000.00	\$	248,436.17	\$	436	5.000%	\$ 1,053.15
CD Affinity Bank 00833JAQ4 MBS 03-17-23 03-17-28 No Call \$ 248,000.00 4,900% \$ 248,000.00 \$ 256,411.47 \$ 8,411 4,900% \$ 1,032.09 CD Discover Bank 2546732V7 MBS 03-22-23 03-23-27 No Call \$ 248,000.00 5,0505% \$ 243,000.00 \$ 249,365.58 \$ 6,366 5,650% \$ 1,042.24 CD Global Fed CR UN Alaska 37892MAF1 MBS 05-17-23 05-112-27 No Call \$ 249,000.00 4,550% \$ 249,000.00 \$ 252,931.36 \$ 3,931 4,550% \$ 962.23 CD USB Bank USA 90355GDJ2 MBS 05-17-23 05-17-27 No Call \$ 249,000.00 4,550% \$ 249,000.00 \$ 252,931.36 \$ 3,931 4,550% \$ 962.23 CD BMW Bank of North Americ 05580A2GB MBS 06-16-23 07-27-26 No Call \$ 244,000.00 4,500% \$ 244,000.00 \$ 246,031.74 \$ 2,032 4,600% \$ 953.27 CD Barclays Bank Delaware 06740KRW9 MBS 07-26-23 07-28-25 No Call \$ 248,000.00 5,100% \$ 243,000.00 \$ 244,000.00 \$ 252,7637 \$ 4,767 5,100% \$ 1,074.21 CD Chartway Federal Credit Union 16141BAQ4 MBS 09-08-23 09-08-27 No Call \$ 248,000.00 5,000% \$ 248,000.00 \$ 255,765.78 \$ 4,767 5,100% \$ 1,053.15 CD Greenstate Credit Union 29573EM6 MBS 09-26-23 09-29-27 No Call \$ 248,000.00 5,000% \$ 248,000.00 \$ 256,755.88 \$ 7,754 5,000% \$ 1,053.15 CD Empower Fed Cedit Union 29573EM6 MBS 09-26-23 09-29-27 No Call \$ 248,000.00 5,000% \$ 248,000.00 \$ 256,755.88 \$ 7,754 5,000% \$ 1,053.15 CD Empower Fed Cedit Union 90352RDF9 MBS 09-29-23 09-29-27 No Call \$ 248,000.00 5,100% \$ 248,000.00 \$ 256,755.88 \$ 7,754 5,000% \$ 1,053.15 CD Empower Fed Cedit Union 90352RDF9 MBS 09-29-23 09-29-27 No Call \$ 248,000.00 5,100% \$ 248,000.00 \$ 256,053.54 \$ 1,0751 5,000% \$ 1,074.21 CD USAliance Fed Credit Union 90352RDF9 MBS 09-29-23 09-29-27 No Call \$ 248,000.00 5,100% \$ 248,000.00 \$ 256,053.54 \$ 1,0751 5,000% \$ 1,074.21 CD USAliance Fed Credit Union 90352RDF9 MBS 09-29-23 No Call \$ 248,000.00 5,100% \$ 248,000.00 \$ 256,053.54 \$ 1,0751 5,000% \$ 1,074.21 CD USAliance Fed Credit Union 90352RDF9 MBS 01-19-24 01-19-29 No Call \$ 249,000.00 5,100% \$ 248,000.00 \$ 256,053.54 \$ 1,0751 5,000% \$ 1,074.21 CD USAliance Fed Credit Union 90352RDF9 MBS 01-19-24 01-19-29 No Call \$ 249,000.00 5,100% \$ 248,000.00 \$ 256,053.84	CD	Prime Alliance Bank	74160NJF8	MBS	11-17-22	11-17-27	05-17-23	\$ 248,000.00	4.950%	\$ 248,000.00	\$	248,104.02	\$	104	4.950%	\$ 1,042.62
CD Discover Bank	CD	Cooperative Center FSU	21686MAA6	MBS	12-29-22	12-29-25	No Call	\$ 249,000.00	4.650%	\$ 249,000.00	\$	250,218.74	\$	1,219	4.650%	\$ 983.38
CD Global Fed CR UN Alaska 37892MAF1 MBS 05-12-23 05-12-27 No Call \$ 249,000.00 4,600% \$ 249,000.00 \$ 253,220.97 \$ 4,221 4,600% \$ 972.81 CD USS Bank USA 90355GDJ2 MBS 05-17-23 05-17-27 No Call \$ 249,000.00 4,550% \$ 249,000.00 \$ 252,293136 \$ 3,931 4,550% \$ 962.23 CD BMW Bank of North Americ 05580A2G8 MBS 06-16-23 06-16-23 06-16-26 No Call \$ 244,000.00 4,600% \$ 244,000.00 \$ 244,260.31-74 \$ 2,032 4,600% \$ 953.27 CD Barclays Bank Delaware 06740KRW19 MBS 07-26-23 07-28-25 No Call \$ 243,000.00 5,100% \$ 243,000.00 \$ 244,260.35 \$ 1,260 5,100% \$ 1,052.56 CD Farmers Insurance Group 30960QAS6 MBS 07-26-23 07-27-26 No Call \$ 248,000.00 5,100% \$ 248,000.00 \$ 252,766.73 \$ 4,767 5,100% \$ 1,074.21 CD Charway Federal Credit Union 16141BAQ4 MBS 09-82-3 09-08-27 No Call \$ 248,000.00 5,000% \$ 248,000.00 \$ 255,753.88 \$ 7,754 5,000% \$ 1,053.15 CD Greenstate Credit Union 39573LEM6 MBS 09-26-23 09-26-28 No Call \$ 248,000.00 5,000% \$ 248,000.00 \$ 255,753.88 \$ 7,754 5,000% \$ 1,053.15 CD US Alliance Fed Credit Union 90352RDF9 MBS 09-29-27 No Call \$ 248,000.00 5,100% \$ 248,000.00 \$ 256,635.84 \$ 8,636 5,100% \$ 1,074.21 CD US Alliance Fed Credit Union 67054NBN2 MBS 11-10-23 11-10-26 No Call \$ 248,000.00 5,550% \$ 248,000.00 \$ 256,099.99 \$ 8,099 5,550% \$ 1,169.00 CD Heritage Community Cr Un 42728MAB0 MBS 11-15-23 11-16-26 No Call \$ 248,000.00 5,550% \$ 248,000.00 \$ 256,099.99 \$ 8,099 5,550% \$ 1,169.00 CD Hughes FCU 444425AL6 MBS 01-29-24 01-29-27 No Call \$ 249,000.00 4,000% \$ 249,000.00 \$ 256,077.85 \$ 1,678 4,500 \$ 1,169.00 CD Hughes FCU 444425AL6 MBS 01-19-24 01-19-29 No Call \$ 249,000.00 4,000% \$ 249,000.00 \$ 256,077.85 \$ 1,678 5,450% \$ 1,169.00 CD Hughes FCU 444425AL6 MBS 01-19-24 01-19-29 No Call \$ 249,000.00 4,000% \$ 249,000.00 \$ 256,077.85 \$ 1,678 5,450% \$ 1,169.00 CD Hughes FCU 44425AL6 MBS 01-19-24 01-19-29 No Call \$ 249,000.00 4,000% \$ 249,000.00 \$ 256,067.85 \$ 1,664 4,150% \$ 897.54 CD Hughes FCU 44425AL6 MBS 01-19-24 01-19-29 No Call \$ 249,000.00 4,000% \$ 249,000.00 \$ 250,063.84 \$ 1,064 4,150% \$ 897.54 CD Hughes FCU 44425AL6 MBS 01-1	CD	Affinity Bank	00833JAQ4	MBS	03-17-23	03-17-28	No Call	\$ 248,000.00	4.900%	\$ 248,000.00	\$	256,411.47	\$	8,411	4.900%	\$ 1,032.09
CD UBS Bank USA 90355GDJ2 MBS 05-17-23 05-17-27 No Call \$ 249,000.00 4.550% \$ 249,000.00 \$ 252,931.36 \$ 3,931 4.550% \$ 962.23 CD BMW Bank of North Americ 05580A2C8 MBS 06-16-23 06-16-26 No Call \$ 244,000.00 4.600% \$ 244,000.00 \$ 246,031.74 \$ 2,032 4.600% \$ 953.27 CD Barclays Bank Delaware 06740kRW9 MBS 07-26-23 07-28-25 No Call \$ 243,000.00 5.100% \$ 243,000.00 \$ 246,031.74 \$ 2,032 4.600% \$ 953.27 CD Farmers his urance Group 309600A86 MBS 07-26-23 07-27-26 No Call \$ 248,000.00 5.100% \$ 248,000.00 \$ 255,753.88 \$ 7,754 5.000% \$ 1,052.56 CD Farmers his urance Group 309600A86 MBS 07-26-23 07-27-26 No Call \$ 248,000.00 5.000% \$ 248,000.00 \$ 255,753.88 \$ 7,754 5.000% \$ 1,053.15 CD Greenstate Credit Union 16141 BAQ4 MBS 09-26-23 09-26-28 No Call \$ 248,000.00 5.000% \$ 248,000.00 \$ 255,753.88 \$ 7,754 5.000% \$ 1,053.15 CD Greenstate Credit Union 93573 LBM6 MBS 09-26-23 09-26-28 No Call \$ 248,000.00 5.000% \$ 248,000.00 \$ 256,750.56 \$ 10,761 5.000% \$ 1,053.15 CD US Alliance Fed Credit Union 90352 RDF9 MBS 09-29-23 09-29-28 No Call \$ 248,000.00 5.100% \$ 248,000.00 \$ 256,750.56 \$ 10,751 5.000% \$ 1,074.21 CD US Alliance Fed Credit Union 90352 RDF9 MBS 09-29-28 No Call \$ 248,000.00 5.100% \$ 248,000.00 \$ 256,075.05 \$ 10,751 5.000% \$ 1,074.21 CD Heritage Community Cr Un 42728 MBO MBS 11-10-23 11-10-26 No Call \$ 248,000.00 5.550% \$ 248,000.00 \$ 256,075.05 \$ 7,678 5.450% \$ 1,169.00 CD Heritage Community Cr Un 42728 MBO MBS 01-19-24 01-19-29 No Call \$ 249,000.00 5.400% \$ 249,000.00 \$ 256,075.05 \$ 7,678 5.450% \$ 1,147.93 CD Heritage Community Cr Un 44425 AL6 MBS 01-29-24 01-29-27 No Call \$ 249,000.00 5.4000 \$ 249,000.00 \$ 256,075.05 \$ 7,678 5.450% \$ 1,147.93 CD Heritage Community Cr Un 44425 AL6 MBS 01-39-24 01-29-27 No Call \$ 249,000.00 5.2000 \$ 249,000.00 \$ 256,075.05 \$ 7,678 5.450% \$ 1,147.93 CD Heritage Community Cr Un 44425 AL6 MBS 01-39-24 01-29-27 No Call \$ 249,000.00 5.200.00 \$ 249,000.00 \$ 250,063.84 \$ 1,044 4.150% \$ 877.65 CD Heritage Community Cr Un 44425 AL6 MBS 01-39-24 01-29-27 No Call \$ 249,000.00 4.000% \$ 249,000.00 \$	CD	Discover Bank	2546732V7	MBS	03-22-23	03-23-27	No Call	\$ 243,000.00	5.050%	\$ 243,000.00	\$	249,365.58	\$	6,366	5.050%	\$ 1,042.24
CD BMW Bank of North Americ 05580A2G8 MBS 06-16-23 06-16-25 No Call \$ 244,000.00 4,800% \$ 244,000.00 \$ 246,031.74 \$ 2,032 4,800% \$ 953.27 CD Barclays Bank Delaware 06740KRW9 MBS 07-26-23 07-28-25 No Call \$ 243,000.00 5,100% \$ 243,000.00 \$ 244,260.35 \$ 1,260 5,100% \$ 1,052.56 CD Farmers hsurance Group 30960CAS6 MBS 07-26-23 07-27-26 No Call \$ 248,000.00 5,100% \$ 248,000.00 \$ 252,766.73 \$ 4,767 5,100% \$ 1,074.21 CD Chartway Federal Credit Union 16141BAQ4 MBS 09-08-23 09-08-27 No Call \$ 248,000.00 5,000% \$ 248,000.00 \$ 255,753.88 \$ 7,754 5,000% \$ 1,053.15 CD Greenstate Credit Union 39573LEM6 MBS 09-26-23 09-26-28 No Call \$ 248,000.00 5,000% \$ 248,000.00 \$ 255,750.55 \$ 10,751 5,000% \$ 1,053.15 CD Empower Fed Cedit Union 291916AA2 MBS 09-29-23 09-29-27 No Call \$ 248,000.00 5,100% \$ 248,000.00 \$ 256,835.84 \$ 8,636 5,100% \$ 1,074.21 CD US Alliance Fed Credit Union 9052RDF9 MBS 09-29-23 09-29-28 No Call \$ 248,000.00 5,100% \$ 248,000.00 \$ 256,835.84 \$ 8,636 5,100% \$ 1,074.21 CD Numerica Credit Union 67054NBN2 MBS 11-10-23 11-10-26 No Call \$ 248,000.00 5,550% \$ 248,000.00 \$ 256,008.99 \$ 8,099 5,550% \$ 1,169.00 CD Heritage Community Cr Un 42728MAB0 MBS 11-15-23 11-16-26 No Call \$ 248,000.00 5,450% \$ 248,000.00 \$ 256,677.85 \$ 1,678 5,450% \$ 1,149.20 CD Hughes FCU 444425AL6 MBS 01-19-29 No Call \$ 249,000.00 4,400% \$ 249,000.00 \$ 256,677.85 \$ 1,678 5,450% \$ 1,1479.20 CD Hughes FCU 444425AL6 MBS 01-19-29 No Call \$ 249,000.00 4,400% \$ 249,000.00 \$ 251,487.50 \$ 7,678 5,450% \$ 1,1479.20 CD Farmers & Merchants TR 308693BG4 MBS 01-19-24 01-19-29 No Call \$ 249,000.00 4,400% \$ 249,000.00 \$ 250,678.85 \$ 1,678 5,450% \$ 1,1479.20 CD Medallion Bank 58404DUP4 MBS 03-13-24 03-15-27 No Call \$ 249,000.00 4,500% \$ 249,000.00 \$ 251,487.50 \$ 2,488 4,400% \$ 930.51 CD Medallion Bank 58404DUP4 MBS 03-13-24 03-15-27 No Call \$ 249,000.00 4,500% \$ 249,000.00 \$ 250,663.89 \$ 1,064 4,150% \$ 935.27 CD FirstFoundation Bank 89256MPS MBS 03-12-22 05-22-29 No Call \$ 249,000.00 4,500% \$ 249,000.00 \$ 250,663.89 \$ 2,606 5,500% \$ 935.27 CD FirstFoundation Bank	CD	Global Fed CR UN Alaska	37892MAF1	MBS	05-12-23	05-12-27	No Call	\$ 249,000.00	4.600%	\$ 249,000.00	\$	253,220.97	\$	4,221	4.600%	\$ 972.81
CD Barclays Bank Delaware 06740KRW9 MBS 07-26-23 07-28-25 No Call \$ 243,000.00 5.100% \$ 243,000.00 \$ 244,260.35 \$ 1,260 5.100% \$ 1,052.56 CD Farmers Insurance Group 30960QAS6 MBS 07-26-23 07-27-26 No Call \$ 248,000.00 5.100% \$ 248,000.00 \$ 252,766.73 \$ 4,767 5.100% \$ 1,074.21 CD Chartway Federal Credit Union 16141BAQ4 MBS 09-08-23 09-08-27 No Call \$ 248,000.00 5.000% \$ 248,000.00 \$ 255,753.88 \$ 7,754 5.000% \$ 1,053.15 CD Greenstate Credit Union 291916AA2 MBS 09-26-23 09-26-27 No Call \$ 248,000.00 5.000% \$ 248,000.00 \$ 255,750.55 \$ 10,751 5.000% \$ 1,053.15 CD Empower Fed Cedit Union 90352RDF9 MBS 09-29-23 09-29-27 No Call \$ 248,000.00 5.100% \$ 248,000.00 \$ 256,635.84 \$ 8,636 5.100% \$ 1,074.21 CD US Alliance Fed Credit Union 90352RDF9 MBS 09-29-23 09-29-28 No Call \$ 248,000.00 5.100% \$ 248,000.00 \$ 256,035.84 \$ 8,636 5.100% \$ 1,074.21 CD Numerica Credit Union 67054NBN2 MBS 11-10-23 11-10-26 No Call \$ 248,000.00 5.550% \$ 248,000.00 \$ 256,098.99 \$ 8,099 5.550% \$ 1,169.00 CD Heritage Community Cr Un 42728MAB0 MBS 11-15-23 11-16-26 No Call \$ 248,000.00 5.550% \$ 248,000.00 \$ 256,635.84 \$ 8,636 5.100% \$ 1,147.93 CD Hughes FCU 444425AL6 MBS 01-19-24 01-19-29 No Call \$ 249,000.00 5.400% \$ 249,000.00 \$ 256,635.85 \$ 1,678 5.450% \$ 1,147.93 CD Hughes FCU 444425AL6 MBS 01-19-24 01-19-29 No Call \$ 249,000.00 4.000% \$ 249,000.00 \$ 250,678.5 \$ 1,678 4.000% \$ 845.92 CD Heritage Community Cr Un 42728MAB0 MBS 01-19-24 01-19-29 No Call \$ 249,000.00 4.000% \$ 249,000.00 \$ 250,678.5 \$ 1,678 4.000% \$ 845.92 CD Hughes FCU 444425AL6 MBS 01-30-24 01-29-27 No Call \$ 249,000.00 4.000% \$ 249,000.00 \$ 250,635.84 \$ 1,664 4.150% \$ 893.57 CD Medallion Bank 654062LP1 MBS 03-18-24 03-18-27 No Call \$ 249,000.00 4.500% \$ 249,000.00 \$ 250,635.89 \$ 1,600% \$ 972.81 CD Medallion Bank 654062LP1 MBS 03-18-24 03-18-27 No Call \$ 249,000.00 4.500% \$ 249,000.00 \$ 250,635.89 \$ 1,600% \$ 973.87 CD Medallion Bank 65404DUP4 MBS 03-18-24 03-18-27 No Call \$ 249,000.00 4.500% \$ 249,000.00 \$ 252,855.85 \$ 3,259 4.500% \$ 975.86 CD Tyota Financial SGS Bank 89235MPN5 MBS	CD	UBS Bank USA	90355GDJ2	MBS	05-17-23	05-17-27	No Call	\$ 249,000.00	4.550%	\$ 249,000.00	\$	252,931.36	\$	3,931	4.550%	\$ 962.23
CD Farmers Insurance Group 30960QAS6 MBS 07-26-23 07-27-26 No Call \$ 248,000.00 5.100% \$ 248,000.00 \$ 252,766.73 \$ 4,767 5.100% \$ 1,074.21 CD Chartway Federal Credit Union 16141BAQ4 MBS 09-08-23 09-08-27 No Call \$ 248,000.00 5.000% \$ 248,000.00 \$ 255,753.88 \$ 7,754 5.000% \$ 1,053.15 CD Greenstate Credit Union 39573LEM6 MBS 09-26-23 09-26-28 No Call \$ 248,000.00 5.000% \$ 248,000.00 \$ 258,750.55 \$ 10,751 5.000% \$ 1,053.15 CD Empower Fed Cedit Union 291916A42 MBS 09-29-23 09-29-27 No Call \$ 248,000.00 5.000% \$ 248,000.00 \$ 258,750.55 \$ 10,751 5.000% \$ 1,074.21 CD US Alliance Fed Credit Union 90352RDF9 MBS 09-29-23 09-29-27 No Call \$ 248,000.00 5.100% \$ 248,000.00 \$ 256,635.84 \$ 8,636 5.100% \$ 1,074.21 CD US Alliance Fed Credit Union 67054NBN2 MBS 11-10-26 No Call \$ 248,000.00 5.100% \$ 248,000.00 \$ 256,035.84 \$ 8,636 5.100% \$ 1,074.21 CD Numerica Credit Union 67054NBN2 MBS 11-10-23 11-10-26 No Call \$ 248,000.00 5.550% \$ 248,000.00 \$ 256,098.99 \$ 8,099 5.550% \$ 1,169.00 CD Heritage Community Cr Un 42728MA80 MBS 11-15-23 11-16-26 No Call \$ 248,000.00 5.450% \$ 248,000.00 \$ 256,077.85 \$ 7,678 5.450% \$ 1,147.93 CD Members Trust of SW FCU 585899AG2 MBS 01-19-24 01-19-29 No Call \$ 249,000.00 \$ 249,000.00 \$ 256,677.85 \$ 1,678 5.450% \$ 1,147.93 CD Hughes FCU 444425AL6 MBS 01-29-24 01-29-27 No Call \$ 249,000.00 4.000% \$ 249,000.00 \$ 250,677.85 \$ 1,678 4.000% \$ 845.92 CD Highes FCU 444425AL6 MBS 01-30-29-24 No Call \$ 249,000.00 4.150% \$ 249,000.00 \$ 250,683.84 \$ 1,064 4.150% \$ 877.84 CD Medallion Bank 58404DUP4 MBS 03-13-24 03-15-27 No Call \$ 249,000.00 4.500% \$ 249,000.00 \$ 250,635.89 \$ 2,636 5.100% \$ 997.81 CD Medallion Bank 58404DUP4 MBS 03-12-24 03-15-27 No Call \$ 249,000.00 4.500% \$ 249,000.00 \$ 250,635.89 \$ 2,636 5.100% \$ 997.81 CD Medallion Bank 58404DUP4 MBS 03-13-24 03-15-27 No Call \$ 249,000.00 4.500% \$ 249,000.00 \$ 250,635.89 \$ 2,636 5.100% \$ 997.81 CD Medallion Bank 58404DUP4 MBS 03-13-24 03-15-27 No Call \$ 249,000.00 4.500% \$ 249,000.00 \$ 250,635.89 \$ 2,636 5.100% \$ 997.81 CD Medallion Bank 58404DUP4 MBS 03-13-24	CD	BMW Bank of North Americ	05580A2G8	MBS	06-16-23	06-16-26	No Call	\$ 244,000.00	4.600%	\$ 244,000.00	\$	246,031.74	\$	2,032	4.600%	\$ 953.27
CD Chartway Federal Credit Union 16141 BAQ4 MBS 09-08-23 09-08-27 No Call \$ 248,000.00 \$.000% \$ 248,000.00 \$ 255,753.88 \$ 7,754 \$ 5,000% \$ 1,053.15 CD Greenstate Credit Union 39573 LEM6 MBS 09-26-23 09-26-28 No Call \$ 248,000.00 \$ 5,000% \$ 248,000.00 \$ 258,750.55 \$ 10,751 \$ 5,000% \$ 1,053.15 CD Empower Fed Cedit Union 291916 AA2 MBS 09-29-23 09-29-27 No Call \$ 248,000.00 \$ 5,100% \$ 248,000.00 \$ 256,635.84 \$ 8,636 \$ 5,100% \$ 1,074.21 CD US Alliance Fed Credit Union 90352RDF9 MBS 09-29-23 09-29-28 No Call \$ 248,000.00 \$ 5,100% \$ 248,000.00 \$ 259,710.41 \$ 11,710 \$ 5,100% \$ 1,074.21 CD Numerica Credit Union 67054NBN2 MBS 11-10-23 11-10-26 No Call \$ 248,000.00 \$ 5,500% \$ 248,000.00 \$ 256,098.99 \$ 8,099 \$ 5,550% \$ 1,169.00 CD Heritage Community Cr Un 42728MAB0 MBS 11-15-23 11-16-26 No Call \$ 248,000.00 \$ 5,500% \$ 248,000.00 \$ 256,077.85 \$ 7,678 \$ 5,450% \$ 1,1679.00 CD Hughes FCU 444425AL6 MBS 01-29-27 No Call \$ 249,000.00 4,000% \$ 249,000.00 \$ 250,677.85 \$ 1,678 4,000% \$ 845.92 CD Hughes FCU 444425AL6 MBS 01-29-27 No Call \$ 249,000.00 4,000% \$ 249,000.00 \$ 250,678.55 \$ 1,678 4,000% \$ 930.51 CD Farmers & Merchants TR 308693BG4 MBS 01-30-24 02-01-27 No Call \$ 249,000.00 4,000% \$ 249,000.00 \$ 250,638.44 \$ 1,064 4,150% \$ 877.64 CD NicoletNational Bank 654062LP1 MBS 03-08-24 03-08-29 No Call \$ 249,000.00 4,000% \$ 249,000.00 \$ 250,638.45 \$ 1,664 4,150% \$ 887.64 CD NicoletNational Bank 654062LP1 MBS 03-13-24 03-15-27 No Call \$ 249,000.00 4,500% \$ 249,000.00 \$ 250,638.45 \$ 1,064 4,150% \$ 887.64 CD NicoletNational Bank 654062LP1 MBS 03-13-24 03-15-27 No Call \$ 249,000.00 4,500% \$ 249,000.00 \$ 252,250.12 \$ 3,820 4,600% \$ 972.81 CD NicoletNational Bank 654062LP1 MBS 03-13-24 03-12-27 No Call \$ 249,000.00 4,500% \$ 249,000.00 \$ 252,255.88 \$ 3,259 4,500% \$ 988.79 CD NicoletNational Bank 654062LP1 MBS 03-13-24 03-12-27 No Call \$ 249,000.00 4,500% \$ 249,000.00 \$ 252,255.88 \$ 3,259 4,500% \$ 995.66 CD First Foundation Bank 32026U5U6 MBS 05-22-24 03-12-27 No Call \$ 244,000.00 4,500% \$ 244,000.00 \$ 252,185.50 \$ 8,119 4,600% \$ 995.327 CD	CD	Barclays Bank Delaware	06740KRW9	MBS	07-26-23	07-28-25	No Call	\$ 243,000.00	5.100%	\$ 243,000.00	\$	244,260.35	\$	1,260	5.100%	\$ 1,052.56
CD Greenstate Credit Union 39573 LEM6 MBS 09-26-23 09-26-28 No Call \$ 248,000.00 5.000% \$ 248,000.00 \$ 255,750.55 \$ 10,751 5.000% \$ 1,053.15 CD Empower Fed Cedit Union 291916 AA2 MBS 09-29-23 09-29-27 No Call \$ 248,000.00 5.100% \$ 248,000.00 \$ 256,635.84 \$ 8,636 5.100% \$ 1,074.21 CD US Alliance Fed Credit Union 90352 RDF9 MBS 09-29-23 09-29-28 No Call \$ 248,000.00 5.100% \$ 248,000.00 \$ 259,710.41 \$ 11,710 5.100% \$ 1,074.21 CD Numerica Credit Union 67054 NBN2 MBS 11-10-23 11-10-26 No Call \$ 248,000.00 5.550% \$ 248,000.00 \$ 259,710.41 \$ 11,710 5.100% \$ 1,074.21 CD Heritage Community Cr Un 4272 BMAB0 MBS 11-15-23 11-16-26 No Call \$ 248,000.00 5.550% \$ 248,000.00 \$ 255,677.50 \$ 7,678 5.450% \$ 1,147.93 CD Members Trust of SW FCU 585899 AG2 MBS 01-19-24 01-19-29 No Call \$ 249,000.00 4.000% \$ 249,000.00 \$ 250,677.85 \$ 1,678 4.000% \$ 845.92 CD Hughes FCU 444425AL6 MBS 01-29-24 01-29-27 No Call \$ 249,000.00 4.000% \$ 249,000.00 \$ 250,063.84 \$ 1,064 4.150% \$ 930.51 CD Farmers & Merchants TR 30869 3BG4 MBS 01-30-24 02-01-27 No Call \$ 249,000.00 4.150% \$ 249,000.00 \$ 250,063.84 \$ 1,064 4.150% \$ 877.64 CD Nicolet National Bank 65406 2LP1 MBS 03-13-24 03-15-27 No Call \$ 249,000.00 4.500% \$ 249,000.00 \$ 252,280.12 \$ 3,820 4.600% \$ 972.81 CD Wells Fargo Bank 94976 4MZ4 MBS 03-12-24 03-12-27 No Call \$ 249,000.00 4.600% \$ 249,000.00 \$ 252,280.12 \$ 3,820 4.600% \$ 972.81 CD Toyota Financial SGS Bank 8923 FMPS MBS 05-24-24 05-24-29 No Call \$ 249,000.00 4.600% \$ 249,000.00 \$ 252,285.88 \$ 3,259 4.500% \$ 953.27 CD First Foundation Bank 32026 U506 MBS 05-22-24 05-22-29 No Call \$ 244,000.00 4.600% \$ 244,000.00 \$ 252,185.00 \$ 8,119 4.600% \$ 953.27 CD Alliant Credit Union 0188 2MAD4 MBS 12-30-22 12-30-25 No Call \$ 244,000.00 4.600% \$ 244,000.00 \$ 252,185.89 \$ 2,636 5.100% \$ 1,074.21	CD	Farmers Insurance Group	30960QAS6	MBS	07-26-23	07-27-26	No Call	\$ 248,000.00	5.100%	\$ 248,000.00	\$	252,766.73	\$	4,767	5.100%	\$ 1,074.21
CD Empower Fed Cedit Union 291916AA2 MBS 09-29-23 09-29-27 No Call \$ 248,000.00 5.100% \$ 248,000.00 \$ 256,635.84 \$ 8,636 5.100% \$ 1,074.21 CD US Alliance Fed Credit Union 90352RDF9 MBS 09-29-23 09-29-28 No Call \$ 248,000.00 5.100% \$ 248,000.00 \$ 259,710.41 \$ 11,710 5.100% \$ 1,074.21 CD Numerica Credit Union 67054NBN2 MBS 11-10-23 11-10-26 No Call \$ 248,000.00 5.550% \$ 248,000.00 \$ 256,098.99 \$ 8,099 5.550% \$ 1,169.00 CD Heritage Community Cr Un 42728MAB0 MBS 11-15-23 11-16-26 No Call \$ 248,000.00 5.450% \$ 248,000.00 \$ 255,677.50 \$ 7,678 5.450% \$ 1,147.93 CD Members Trust of SW FCU 585899AG2 MBS 01-19-24 01-19-29 No Call \$ 249,000.00 4.000% \$ 249,000.00 \$ 250,677.85 \$ 1,678 4.000% \$ 845.92 CD Hughes FCU 444425AL6 MBS 01-29-24 01-29-27 No Call \$ 249,000.00 4.400% \$ 249,000.00 \$ 251,487.50 \$ 2,488 4.400% \$ 930.51 CD Farmers & Merchants TR 308693BG4 MBS 01-30-24 02-01-27 No Call \$ 249,000.00 4.150% \$ 249,000.00 \$ 253,677.02 \$ 4,377 4.250% \$ 898.79 CD Medallion Bank 58404DUP4 MBS 03-18-24 03-12-27 No Call \$ 249,000.00 4.500% \$ 249,000.00 \$ 253,870.12 \$ 4,377 4.250% \$ 898.79 CD Wells Fargo Bank 949764MZ4 MBS 03-12-24 03-12-27 No Call \$ 249,000.00 4.500% \$ 249,000.00 \$ 252,285.58 \$ 3,259 4.500% \$ 972.81 CD Toyota Financial SGSBank 89235MPN5 MBS 05-24-24 05-24-29 No Call \$ 249,000.00 4.600% \$ 249,000.00 \$ 252,118.50 \$ 8,119 4.600% \$ 953.27 CD First Foundation Bank 32026U5U6 MBS 05-22-24 05-22-29 No Call \$ 244,000.00 4.600% \$ 244,000.00 \$ 252,118.50 \$ 8,119 4.600% \$ 953.27 CD Alliant Credit Union 01882MAD4 MBS 12-30-22 12-30-25 No Call \$ 244,000.00 5.100% \$ 244,000.00 \$ 250,635.89 \$ 2,636 5.100% \$ 1,074.21	CD	Chartway Federal Credit Union	16141BAQ4	MBS	09-08-23	09-08-27	No Call	\$ 248,000.00	5.000%	\$ 248,000.00	\$	255,753.88	\$	7,754	5.000%	\$ 1,053.15
CD US Alliance Fed Credit Union 90352RDF9 MBS 09-29-23 09-29-28 No Call \$ 248,000.00 5.100% \$ 248,000.00 \$ 259,710.41 \$ 11,710 5.100% \$ 1,074.21 CD Numerica Credit Union 67054NBN2 MBS 11-10-23 11-10-26 No Call \$ 248,000.00 5.550% \$ 248,000.00 \$ 256,098.99 \$ 8,099 5.550% \$ 1,169.00 CD Heritage Community Cr Un 42728MAB0 MBS 11-15-23 11-16-26 No Call \$ 248,000.00 5.450% \$ 248,000.00 \$ 255,677.50 \$ 7,678 5.450% \$ 1,147.93 CD Members Trust of SW FCU 585899AG2 MBS 01-19-24 01-19-29 No Call \$ 249,000.00 4.000% \$ 249,000.00 \$ 250,677.85 \$ 1,678 4.000% \$ 845.92 CD Hughes FCU 444425AL6 MBS 01-29-24 01-29-27 No Call \$ 249,000.00 4.000% \$ 249,000.00 \$ 251,487.50 \$ 2,488 4.400% \$ 930.51 CD Farmers & Merchants TR 308693BG4 MBS 01-30-24 02-01-27 No Call \$ 249,000.00 4.250% \$ 249,000.00 \$ 250,638.4 \$ 1,064 4.150% \$ 877.84 CD Nicolet National Bank 654062LP1 MBS 03-08-24 03-08-29 No Call \$ 249,000.00 4.250% \$ 249,000.00 \$ 253,877.02 \$ 4,377 4.250% \$ 897.84 CD Medallion Bank 58404DUP4 MBS 03-12-24 03-15-27 No Call \$ 249,000.00 4.500% \$ 249,000.00 \$ 252,820.12 \$ 3,820 4.500% \$ 972.81 CD Wells Fargo Bank 949764MZ4 MBS 03-12-24 03-12-27 No Call \$ 249,000.00 4.500% \$ 249,000.00 \$ 252,285.85 \$ 3,259 4.500% \$ 953.27 CD First Foundation Bank 32026U5U6 MBS 05-22-24 05-22-29 No Call \$ 244,000.00 4.600% \$ 244,000.00 \$ 252,118.50 \$ 8,119 4.600% \$ 953.27 CD Alliant Credit Union 01882MAD4 MBS 01-23-0-22 12-30-25 No Call \$ 244,000.00 5.100% \$ 244,000.00 \$ 252,106.76 \$ 8,107 4.600% \$ 953.27 CD Alliant Credit Union 01882MAD4 MBS 01-23-0-22 12-30-25 No Call \$ 244,000.00 5.100% \$ 244,000.00 \$ 250,635.89 \$ 2,636 5.100% \$ 1,074.21	CD	Greenstate Credit Union	39573LEM6	MBS	09-26-23	09-26-28	No Call	\$ 248,000.00	5.000%	\$ 248,000.00	\$	258,750.55	\$	10,751	5.000%	\$ 1,053.15
CD Numerica Credit Union 67054NBN2 MBS 11-10-23 11-10-26 No Call \$ 248,000.00 5.550% \$ 248,000.00 \$ 256,098.99 \$ 8,099 5.550% \$ 1,169.00 CD Heritage Community Cr Un 42728MAB0 MBS 11-15-23 11-16-26 No Call \$ 248,000.00 5.450% \$ 248,000.00 \$ 255,677.50 \$ 7,678 5.450% \$ 1,147.93 CD Members Trust of SW FCU 585899AG2 MBS 01-19-24 01-19-29 No Call \$ 249,000.00 4.000% \$ 249,000.00 \$ 250,677.85 \$ 1,678 4.000% \$ 845.92 CD Hughes FCU 444425AL6 MBS 01-29-24 01-29-27 No Call \$ 249,000.00 4.400% \$ 249,000.00 \$ 251,487.50 \$ 2,488 4.400% \$ 930.51 CD Farmers & Merchanis TR 308693BG4 MBS 01-30-24 02-01-27 No Call \$ 249,000.00 4.150% \$ 249,000.00 \$ 250,063.84 \$ 1,064 4.150% \$ 877.64 CD Nicolet National Bank 654062LP1 MBS 03-08-24 03-08-29 No Call \$ 249,000.00 4.250% \$ 249,000.00 \$ 253,377.02 \$ 4,377 4.250% \$ 898.79 CD Medallion Bank 58404DUP4 MBS 03-13-24 03-15-27 No Call \$ 249,000.00 4.500% \$ 249,000.00 \$ 252,820.12 \$ 3,820 4.600% \$ 972.81 CD Wells Fargo Bank 949764MZ4 MBS 03-12-24 03-12-27 No Call \$ 249,000.00 4.500% \$ 249,000.00 \$ 252,820.12 \$ 3,820 4.600% \$ 972.81 CD Toyota Financial SGS Bank 949764MZ4 MBS 03-12-24 05-24-29 No Call \$ 244,000.00 4.600% \$ 244,000.00 \$ 252,108.50 \$ 8,119 4.600% \$ 953.27 CD First Foundation Bank 32026U5U6 MBS 05-22-24 05-22-29 No Call \$ 244,000.00 5.100% \$ 244,000.00 \$ 252,108.60 \$ 8,110 4.600% \$ 953.27 CD Alliant Credit Union 01882MAD4 MBS 12-30-22 12-30-25 No Call \$ 244,000.00 5.100% \$ 248,000.00 \$ 252,108.60 \$ 8,110 4.600% \$ 953.27 CD Alliant Credit Union 01882MAD4 MBS 12-30-22 12-30-25 No Call \$ 244,000.00 5.100% \$ 248,000.00 \$ 250,635.89 \$ 2,636 5.100% \$ 1,074.21	CD	Empower Fed CeditUnion	291916AA2	MBS	09-29-23	09-29-27	No Call	\$ 248,000.00	5.100%	\$ 248,000.00	\$	256,635.84	\$	8,636	5.100%	\$ 1,074.21
CD Heritage Community Cr Un 42728MAB0 MBS 11-15-23 11-16-26 No Call \$ 248,000.00 5.450% \$ 248,000.00 \$ 255,677.50 \$ 7,678 5.450% \$ 1,147.93 CD Members Trust of SW FCU 585899AG2 MBS 01-19-24 01-19-29 No Call \$ 249,000.00 4.000% \$ 249,000.00 \$ 255,677.50 \$ 7,678 5.450% \$ 11,47.93 CD Hughes FCU 444425AL6 MBS 01-29-24 01-29-27 No Call \$ 249,000.00 4.400% \$ 249,000.00 \$ 251,487.50 \$ 2,488 4.400% \$ 930.51 CD Farmers & Merchants TR 308693BG4 MBS 01-30-24 02-01-27 No Call \$ 249,000.00 4.150% \$ 249,000.00 \$ 250,063.84 \$ 1,064 4.150% \$ 877.64 CD Nicolet National Bank 654062LP1 MBS 03-08-24 03-08-29 No Call \$ 249,000.00 4.250% \$ 249,000.00 \$ 253,377.02 \$ 4,377 4.250% \$ 898.79 CD Medallion Bank 58404DUP4 MBS 03-13-24 03-15-27 No Call \$ 249,000.00 4.500% \$ 249,000.00 \$ 252,820.12 \$ 3,820 4.600% \$ 972.81 CD Wells Fargo Bank 949764MZ4 MBS 03-12-24 03-12-27 No Call \$ 249,000.00 4.500% \$ 249,000.00 \$ 252,820.12 \$ 3,820 4.600% \$ 972.81 CD Toyota Financial SGS Bank 9235MPN5 MBS 05-24-24 05-24-29 No Call \$ 244,000.00 4.600% \$ 244,000.00 \$ 252,118.50 \$ 8,119 4.600% \$ 953.27 CD First Foundation Bank 32026U5U6 MBS 05-22-24 05-22-29 No Call \$ 244,000.00 5.100% \$ 244,000.00 \$ 252,106.76 \$ 8,107 4.600% \$ 953.27 CD Alliant Credit Union 01882MAD4 MBS 12-30-22 12-30-25 No Call \$ 244,000.00 5.100% \$ 248,000.00 \$ 250,635.89 \$ 2,636 5.100% \$ 1,074.21	CD	US Alliance Fed Credit Union	90352RDF9	MBS	09-29-23	09-29-28	No Call	\$ 248,000.00	5.100%	\$ 248,000.00	\$	259,710.41	\$	11,710	5.100%	\$ 1,074.21
CD Members Trustof SW FCU 585899AG2 MBS 01-19-24 01-19-29 No Call \$ 249,000.00 4.000% \$ 249,000.00 \$ 250,677.85 \$ 1,678 4.000% \$ 845.92 CD Hughes FCU 444425AL6 MBS 01-29-24 01-29-27 No Call \$ 249,000.00 4.400% \$ 249,000.00 \$ 251,487.50 \$ 2,488 4.400% \$ 930.51 CD Farmers & Merchanis TR 308693BG4 MBS 01-30-24 02-01-27 No Call \$ 249,000.00 4.150% \$ 249,000.00 \$ 250,063.84 \$ 1,064 4.150% \$ 877.64 CD Nicolet National Bank 654062LP1 MBS 03-08-24 03-08-29 No Call \$ 249,000.00 4.250% \$ 249,000.00 \$ 253,377.02 \$ 4,377 4.250% \$ 898.79 CD Medallion Bank 58404DUP4 MBS 03-13-24 03-15-27 No Call \$ 249,000.00 4.600% \$ 249,000.00 \$ 252,820.12 \$ 3,820 4.600% \$ 972.81 CD Wells Fargo Bank 949764MZ4 MBS 03-12-24 03-12-27 No Call \$ 249,000.00 4.500% \$ 249,000.00 \$ 252,258.58 \$ 3,259 4.500% \$ 951.66 CD Toyota Financial SGS Bank 89235MPN5 MBS 05-24-24 05-24-29 No Call \$ 244,000.00 4.600% \$ 244,000.00 \$ 252,118.50 \$ 8,119 4.600% \$ 953.27 CD First Foundation Bank 32026U5U6 MBS 05-22-24 05-22-29 No Call \$ 244,000.00 4.600% \$ 244,000.00 \$ 252,106.76 \$ 8,107 4.600% \$ 953.27 CD Alliant Credit Union 01882MAD4 MBS 12-30-22 12-30-25 No Call \$ 248,000.00 5.100% \$ 248,000.00 \$ 250,635.89 \$ 2,636 5.100% \$ 1,074.21	CD	Numerica Credit Union	67054NBN2	MBS	11-10-23	11-10-26	No Call	\$ 248,000.00	5.550%	\$ 248,000.00	\$	256,098.99	\$	8,099	5.550%	\$ 1,169.00
CD Hughes FCU 444425AL6 MBS 01-29-24 01-29-27 No Call \$ 249,000.00 4.400% \$ 249,000.00 \$ 251,487.50 \$ 2,488 4.400% \$ 930.51 CD Farmers & Merchanis TR 308693BG4 MBS 01-30-24 02-01-27 No Call \$ 249,000.00 4.150% \$ 249,000.00 \$ 250,063.84 \$ 1,064 4.150% \$ 877.64 CD Nicolet National Bank 654062LP1 MBS 03-08-24 03-08-29 No Call \$ 249,000.00 4.250% \$ 249,000.00 \$ 253,377.02 \$ 4,377 4.250% \$ 898.79 CD Medallion Bank 58404DUP4 MBS 03-13-24 03-15-27 No Call \$ 249,000.00 4.600% \$ 249,000.00 \$ 252,820.12 \$ 3,820 4.600% \$ 972.81 CD Wells Fargo Bank 949764MZ4 MBS 03-12-24 03-12-27 No Call \$ 249,000.00 4.500% \$ 249,000.00 \$ 252,258.58 \$ 3,259 4.500% \$ 951.66 CD Toyota Financial SGSBank 89235MPN5 MBS 05-24-24 05-24-29 No Call \$ 244,000.00 4.600% \$ 244,000.00 \$ 252,118.50 \$ 8,119 4.600% \$ 953.27 CD First Foundation Bank 32026U5U6 MBS 05-22-24 05-22-29 No Call \$ 244,000.00 4.600% \$ 244,000.00 \$ 252,106.76 \$ 8,107 4.600% \$ 953.27 CD Alliant Credit Union 01882MAD4 MBS 12-30-22 12-30-25 No Call \$ 248,000.00 5.100% \$ 248,000.00 \$ 250,635.89 \$ 2,636 5.100% \$ 1,074.21	CD	Heritage Community Cr Un	42728MAB0	MBS	11-15-23	11-16-26	No Call	\$ 248,000.00	5.450%	\$ 248,000.00	\$	255,677.50	\$	7,678	5.450%	\$ 1,147.93
CD Farmers & Merchants TR 308693BG4 MBS 01-30-24 02-01-27 No Call \$ 249,000.00 4.150% \$ 249,000.00 \$ 250,063.84 \$ 1,064 4.150% \$ 877.64 CD NicoletNational Bank 654062LP1 MBS 03-08-24 03-08-29 No Call \$ 249,000.00 4.250% \$ 249,000.00 \$ 253,377.02 \$ 4,377 4.250% \$ 898.79 CD Medallion Bank 58404DUP4 MBS 03-13-24 03-15-27 No Call \$ 249,000.00 4.600% \$ 249,000.00 \$ 252,820.12 \$ 3,820 4.600% \$ 972.81 CD Wells Fargo Bank 949764MZ4 MBS 03-12-24 03-12-27 No Call \$ 249,000.00 4.500% \$ 249,000.00 \$ 252,258.58 \$ 3,259 4.500% \$ 951.66 CD Toyota Financial SGS Bank 89235MPN5 MBS 05-24-24 05-24-29 No Call \$ 244,000.00 4.600% \$ 244,000.00 \$ 252,118.50 \$ 8,119 4.600% \$ 953.27 CD First Foundation Bank 32026U5U6 MBS 05-22-24 05-22-29 No Call \$ 244,000.00 4.600% \$ 244,000.00 \$ 252,106.76 \$ 8,107 4.600% \$ 953.27 CD Alliant Credit Union 01882MAD4 MBS 12-30-22 12-30-25 No Call \$ 248,000.00 5.100% \$ 248,000.00 \$ 250,635.89 \$ 2,636 5.100% \$ 1,074.21	CD	Members Trustof SW FCU	585899AG2	MBS	01-19-24	01-19-29	No Call	\$ 249,000.00	4.000%	\$ 249,000.00	\$	250,677.85	\$	1,678	4.000%	\$ 845.92
CD NicoletNational Bank 654062LP1 MBS 03-08-24 03-08-29 No Call \$ 249,000.00 4.250% \$ 249,000.00 \$ 253,377.02 \$ 4,377 4.250% \$ 898.79 CD Medallion Bank 58404DUP4 MBS 03-13-24 03-15-27 No Call \$ 249,000.00 4.600% \$ 249,000.00 \$ 252,820.12 \$ 3,820 4.600% \$ 972.81 CD Wells Fargo Bank 949764MZ4 MBS 03-12-24 03-12-27 No Call \$ 249,000.00 4.500% \$ 249,000.00 \$ 252,258.58 \$ 3,259 4.500% \$ 951.66 CD Toyota Financial SGS Bank 89235MPN5 MBS 05-24-24 05-24-29 No Call \$ 244,000.00 4.600% \$ 244,000.00 \$ 252,118.50 \$ 8,119 4.600% \$ 953.27 CD First Foundation Bank 32026U5U6 MBS 05-22-24 05-22-29 No Call \$ 244,000.00 4.600% \$ 244,000.00 \$ 252,106.76 \$ 8,107 4.600% \$ 953.27 CD Alliant Credit Union 01882MAD4 MBS 12-30-22 12-30-25 No Call \$ 248,000.00 5.100% \$ 248,000.00 \$ 250,635.89 \$ 2,636 5.100% \$ 1,074.21	CD	Hughes FCU	444425AL6	MBS	01-29-24	01-29-27	No Call	\$ 249,000.00	4.400%	\$ 249,000.00	\$	251,487.50	\$	2,488	4.400%	\$ 930.51
CD Medallion Bank 58404DUP4 MBS 03-13-24 03-15-27 No Call \$ 249,000.00 4.600% \$ 249,000.00 \$ 252,820.12 \$ 3,820 4.600% \$ 972.81 CD Wells Fargo Bank 949764MZ4 MBS 03-12-24 03-12-27 No Call \$ 249,000.00 4.500% \$ 249,000.00 \$ 252,258.58 \$ 3,259 4.500% \$ 951.66 CD Toyota Financial SGS Bank 89235MPN5 MBS 05-24-24 05-24-29 No Call \$ 244,000.00 4.600% \$ 244,000.00 \$ 252,118.50 \$ 8,119 4.600% \$ 953.27 CD First Foundation Bank 32026U5U6 MBS 05-22-24 05-22-29 No Call \$ 244,000.00 4.600% \$ 244,000.00 \$ 252,106.76 \$ 8,107 4.600% \$ 953.27 CD Alliant Credit Union 01882MAD4 MBS 12-30-22 12-30-25 No Call \$ 248,000.00 5.100% \$ 248,000.00 \$ 250,635.89 \$ 2,636 5.100% \$ 1,074.21	CD	Farmers & Merchants TR	308693BG4	MBS	01-30-24	02-01-27	No Call	\$ 249,000.00	4.150%	\$ 249,000.00	\$	250,063.84	\$	1,064	4.150%	\$ 877.64
CD Wells Fargo Bank 949764MZ4 MBS 03-12-24 03-12-27 No Call \$ 249,000.00 4.500% \$ 249,000.00 \$ 252,258.58 \$ 3,259 4.500% \$ 951.66 CD Toyota Financial SGSBank 89235MPN5 MBS 05-24-24 05-24-29 No Call \$ 244,000.00 4.600% \$ 244,000.00 \$ 252,118.50 \$ 8,119 4.600% \$ 953.27 CD First Foundation Bank 32026U5U6 MBS 05-22-24 05-22-29 No Call \$ 244,000.00 4.600% \$ 244,000.00 \$ 252,106.76 \$ 8,107 4.600% \$ 953.27 CD Alliant Credit Union 01882MAD4 MBS 12-30-22 12-30-25 No Call \$ 248,000.00 5.100% \$ 248,000.00 \$ 250,635.89 \$ 2,636 5.100% \$ 1,074.21	CD	Nicolet National Bank	654062LP1	MBS	03-08-24	03-08-29	No Call	\$ 249,000.00	4.250%	\$ 249,000.00	\$	253,377.02	\$	4,377	4.250%	\$ 898.79
CD Toyota Financial SGS Bank 89235MPN5 MBS 05-24-24 05-24-29 No Call \$ 244,000.00 4.600% \$ 244,000.00 \$ 252,118.50 \$ 8,119 4.600% \$ 953.27 CD First Foundation Bank 32026U5U6 MBS 05-22-24 05-22-29 No Call \$ 244,000.00 4.600% \$ 244,000.00 \$ 252,106.76 \$ 8,107 4.600% \$ 953.27 CD Alliant Credit Union 01882 MAD4 MBS 12-30-22 12-30-25 No Call \$ 248,000.00 5.100% \$ 248,000.00 \$ 250,635.89 \$ 2,636 5.100% \$ 1,074.21	CD	Medallion Bank	58404DUP4	MBS	03-13-24	03-15-27	No Call	\$ 249,000.00	4.600%	\$ 249,000.00	\$	252,820.12	\$	3,820	4.600%	\$ 972.81
CD FirstFoundation Bank 32026U5U6 MBS 05-22-24 05-22-29 No Call \$ 244,000.00 4.600% \$ 244,000.00 \$ 252,106.76 \$ 8,107 4.600% \$ 953.27 CD AlliantCreditUnion 01882MAD4 MBS 12-30-22 12-30-25 No Call \$ 248,000.00 5.100% \$ 248,000.00 \$ 250,635.89 \$ 2,636 5.100% \$ 1,074.21	CD	Wells Fargo Bank	949764MZ4	MBS	03-12-24	03-12-27	No Call	\$ 249,000.00	4.500%	\$ 249,000.00	\$	252,258.58	\$	3,259	4.500%	\$ 951.66
CD AlliantCreditUnion 01882MAD4 MBS 12-30-22 12-30-25 No Call \$ 248,000.00 \$ 1,074.21	CD	Toyota Financial SGS Bank	89235MPN5	MBS	05-24-24	05-24-29	No Call	\$ 244,000.00	4.600%	\$ 244,000.00	\$	252,118.50	\$	8,119	4.600%	\$ 953.27
	CD	First Foundation Bank	32026U5U6	MBS	05-22-24	05-22-29	No Call	\$ 244,000.00	4.600%	\$ 244,000.00	\$	252,106.76	\$	8,107	4.600%	\$ 953.27
Total Actively Invested Funds \$ 15,923,000.00 \$ 15,929,325.06 \$ 15,929,154.73 \$ 8,830 3.507% \$ 44,935.43	CD	AlliantCreditUnion	01882MAD4	MBS	12-30-22	12-30-25	No Call	\$ 248,000.00	5.100%	\$ 248,000.00	\$	250,635.89	\$	2,636	5.100%	\$ 1,074.21
	Total Activ	rely Invested Funds						\$ 15,923,000.00		\$ 15,920,325.06	\$ 1	15,929,154.73	\$	8,830	3.507%	\$ 44,935.43

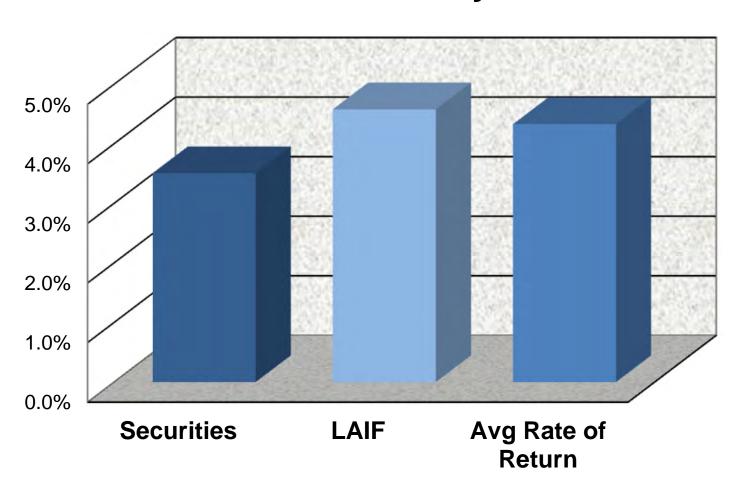
 Total Local Agency Investment Fund
 \$ 52,622,358.22
 4.579%
 \$ 204,649.07

Total Invested Cash \$ 15,923,000.00 \$ 68,542,683.28 4.30% \$ 249,584.50

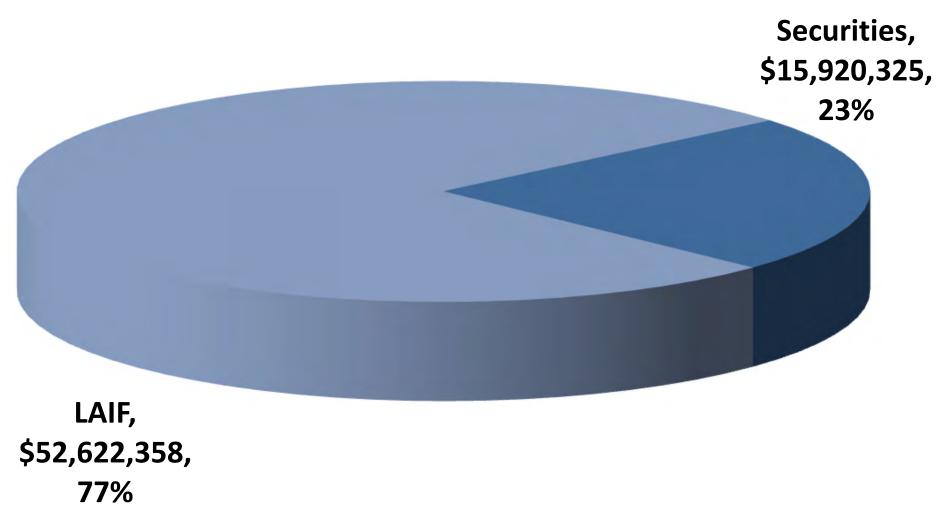
Kev to Security Type: FHLB = Federal Home Loan Bank FHLMC = Federal Home Loan Mortgage Corporation FNMA = Federal National Mortgage Association USTN = USTreasury Note CORP = Corporate Note CD = Certificate of Deposit GDB = Goldman Sachs Bank AEC = American Express Centurion

Kev to Dealers: FCS = FinaCorp Securities MBS = Multi-Bank Securities MS = Multial Securities RCB = RBC Dain Rauscher SA = Securities America TVI = Time Value Investments WMS = Wedbush Morgan Securities

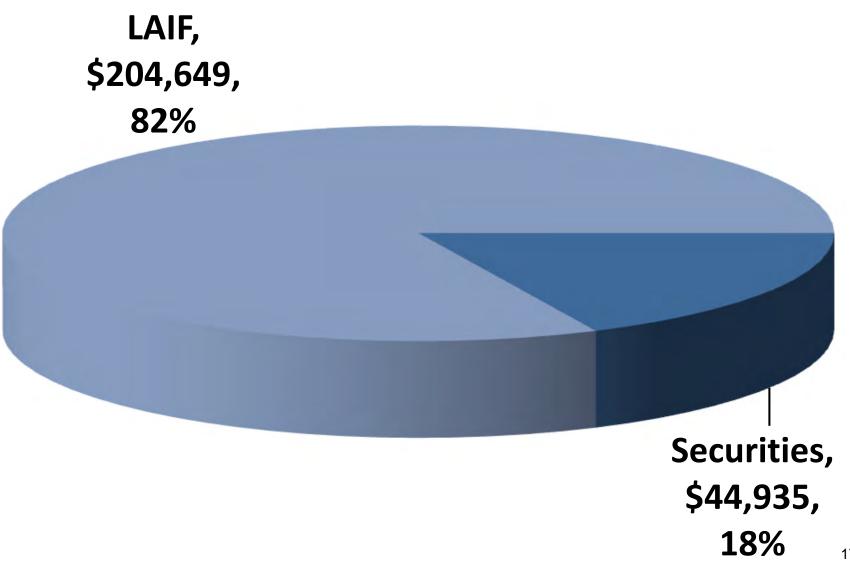
Interest Rate Analysis



Investments \$68,542,683







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COMMISSION MEMORANDUM NO. 2024.56

DATE: October 1, 2024

TO: SAWPA Commission

SUBJECT: Santa Ana River Watershed Cloud Seeding Pilot Program: Preliminary

Year 1 Validation Results

PREPARED BY: Rachel Gray, Water Resources and Planning Manager

Frank McDonough, Desert Research Institute

RECOMMENDATION

Receive and file.

DISCUSSION

On July 19, 2022, the SAWPA Commission authorized an award of contract with North American Weather Consultants, Inc. (NAWC) to conduct the Santa Ana River Watershed Cloud Seeding Pilot Program operations. Subsequently, the SAWPA Commission authorized an award to the Board of Regents of the Nevada System of Higher Education on behalf of the Desert Research Institute (DRI) for the independent validation of the Santa Ana River Watershed Cloud Seeding Pilot Project.

The Pilot Program is a four-year project spanning the four winter seasons starting in 2023 and running between November 15 and April 15 for each season. The operations are based on past work described in the SAWPA feasibility study published in 2020, updated seeding site analysis, and reflects requirements from CEQA, and comments from SAWPA member agency staff and other stakeholders. The focus of the Pilot Program will be on seeding the four higher elevation target areas identified in the feasibility study surrounding the watershed with an emphasis on increasing precipitation in the form of snow.

SAWPA is coordinating the Pilot Program planning with Desert Research Institute (DRI) on the validation competent of the project. DRI is conducting an independent review of the cloud seeding pilot operations and validating the increases in precipitation and stream flows. Preliminary results are being presented and the results and additional evaluation are still ongoing. Validation tasks include the following:

- 1. Task 1: Evaluate NAWC Operations
- 2. Task 2: Snow Chemistry
- 3. Task 3: Calculating the Seeding Snow-Water Equivalent:
- 4. Task 4: Target/Control Statistical Analysis
- 5. Task 5: Stream Flow Analysis

CRITICAL SUCCESS FACTORS

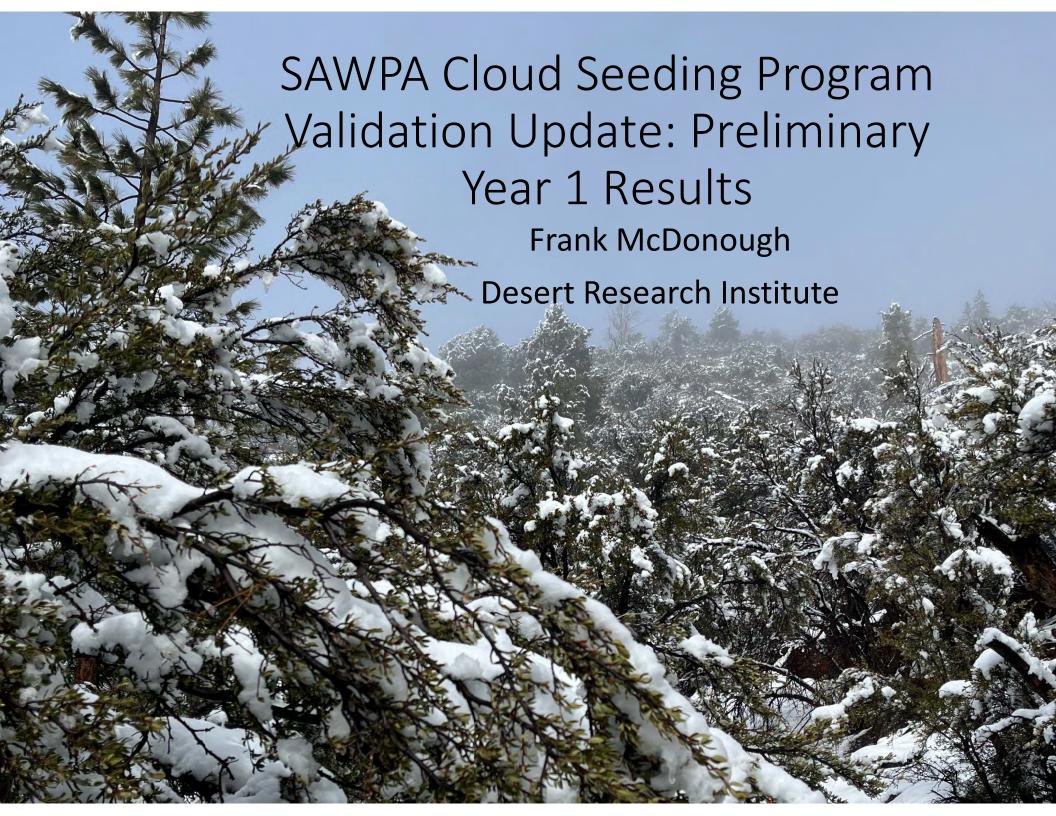
- Successful implementation of an integrated regional water resource plan that reflects the watershed management needs of the public and the environment.
- Data and information needed for decision-making is available to all.

RESOURCE IMPACTS

In April 2023, SAWPA was notified by the Department of Water Resources (DWR) that the SAWPA Santa Ana River Weather Modification Pilot Program will receive a grant valued at \$861,400 under the Proposition 1 Round 2 funding program. Local funding has been secured totaling \$94,000. Project operations and validation study costs are budgeted and reflected in the FYE 23-24, FYE 24-25, FYE 25-26 and FYE 26-27 SAWPA Budgets.

Attachments:

1. PowerPoint Presentation



Background: North America Weather Consultants Feasibility Study 2020

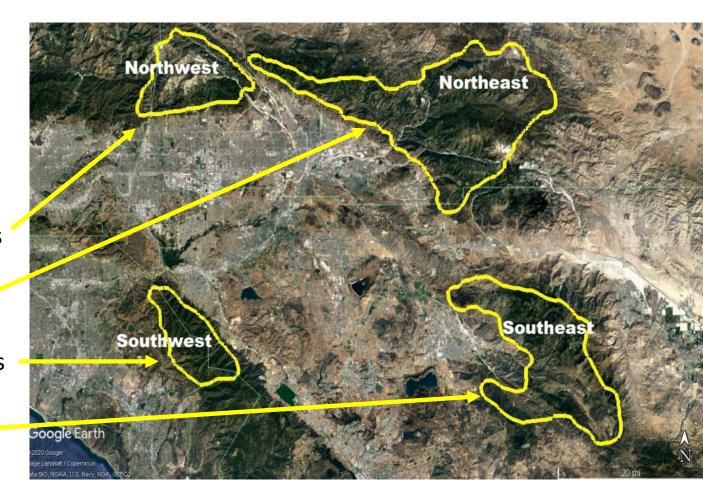
Study suggested that cloud seeding was feasible in the four headwater regions of the Santa Ana River.

Eastern San Gabriel Mountains

San Bernardino Mountains

Eastern side of Santa Ana Mtns

West slopes Mt San Jacinto



Background: Estimated yields from feasibility study

Precipitation Increases beneath the seeding plume

Streamflow increases

Estimated precipitation and streamflow increases

Target Area	Seasonal Precipitation Increase (inches)	Percent Increase	Avg. Natural Streamflow (AF)	Streamflow Increase (AF)	Percent Increase		
NW	0.41	3.5%	25,000	2,043	8.2%		
NE (ground)	0.49	4.1%	65,000	4,330	6.7%		
NE (air & ground) *	0.89	7.3%	65,000	7,772	12.0%		
sw	0.59	3.7%	5,000	447	9.0%		
SE	0.49	4.5%	10,000	1,373	13.7%		
	TOTAL w/ Grou	nd Only	105,000	8,193	7.8%		

Validation Tasks

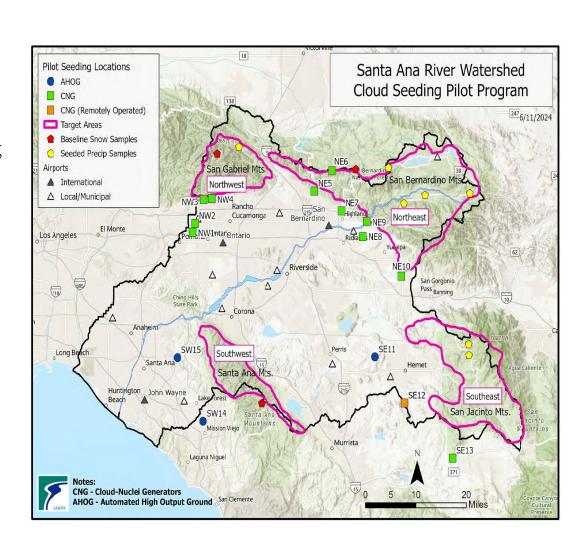
Task 1) ensure that the cloud seeding operations are matched to the seedable storm periods.

Task 2) ensure that the cloud seeding generator placement is able to deliver seeding material to the target areas

Task 3) determine the estimated amount of additional seeded snowfall/precipitation for each storm, and the winter total in each area.

Task 4) compare unseeded seasonal precipitation amounts within the target areas to an adjacent unseeded control area, then compares the seeded year to the long-term relationships.

Task 5) compare the seasonal unseeded stream flow within the target areas to adjacent unseeded control areas, then compares the seeded year to the long-term relationships.



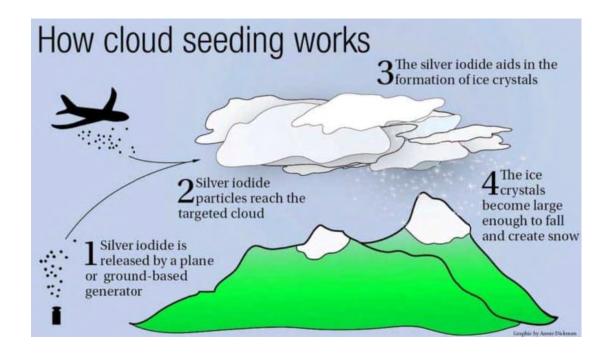
Target Areas and Generator Locations

Task 1: Detailed review winter weather and independent assessment of NAWC operations



Task 1: Detailed review winter weather and independent assessment of NAWC operations – results

- 13 storms were seeded between November 15, 2023 and April 15, 2024.
- All of these seeded storms contained seedable clouds at or below 11,000' MSL.
- No seedable storms were missed.
- The total number generator-hours were 2,165, with 1,703 hours of operation during potential seeding conditions.



Task 2) Snow Chemistry

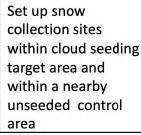
Identifying slightly elevated amounts of silver in fresh seeded precipitation can confirm successful targeting of the from the cloud seeding generator locations.

Precipitation sampling was done during 2 storms to assess the silver in the precipitation.

Sampling the chemical make up of snow









Collect storm snowfall in ultra clean bags



Keep sample frozen and deliver to DRI Trace Chemistry/Ice Core Lab



Analyze snow samples in DRI Lab using Mass Spectrometry

Task 2) Storm 1– Feb 20 - 21, 2024 (sampling of NW & NE target areas)

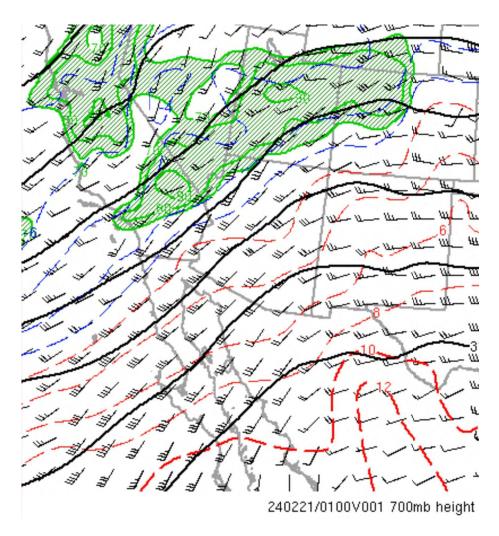
10,000'-MSL cold front/trough crossing area.

Clouds with bases below mountain top were present.

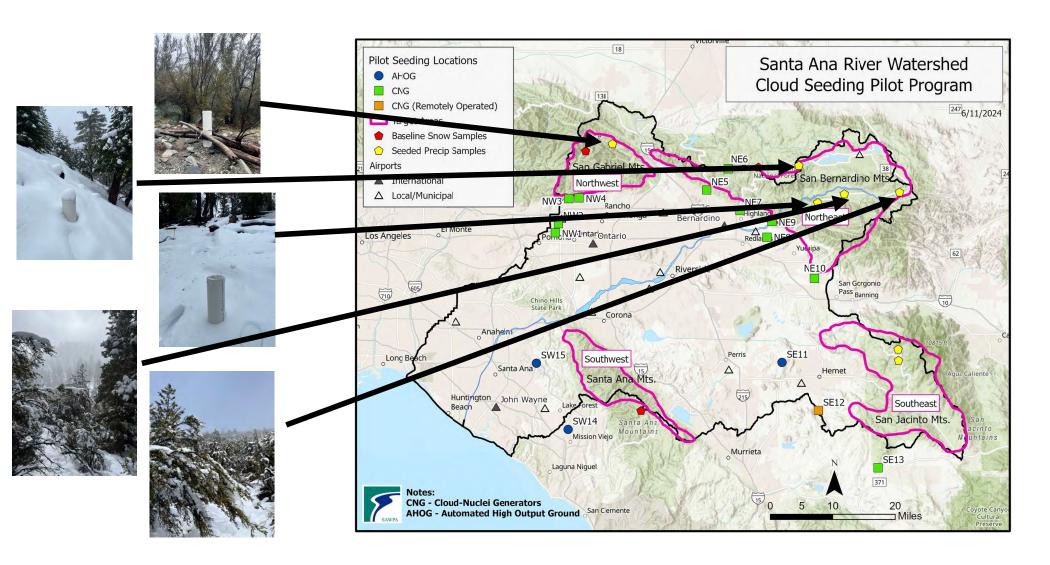
Temperatures at 10,000' MSL were about -5C (23F).

Winds from the southwest.

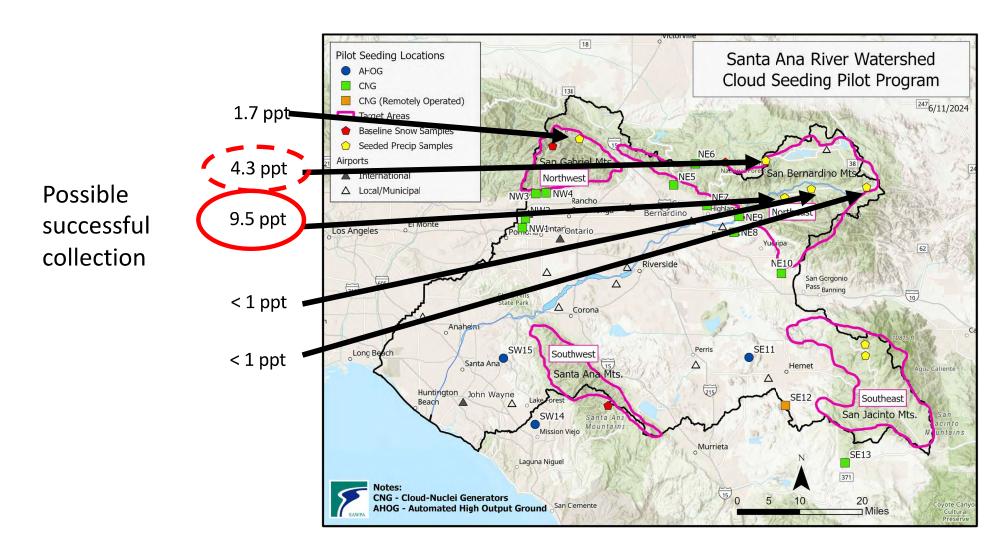
On-shore flow from Pacific.



Task 2) Collection sites Feb 20 - 21, 2024 (NW & NE target areas)



Task 2) Snow Chemistry Results Feb 20 - 21, 2024



Task 2) Storm 2 – Mar 6 - 7, 2024 (SE target area)

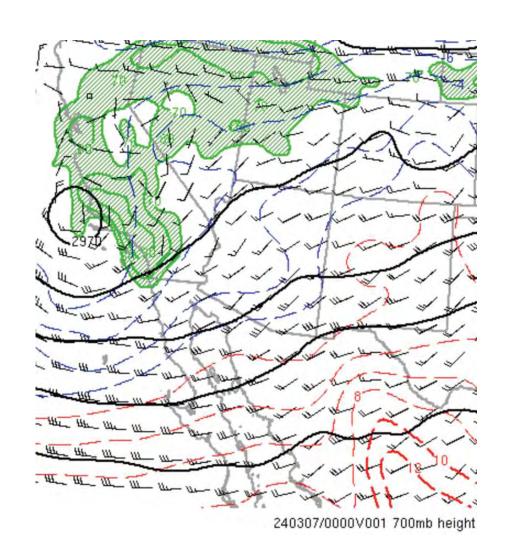
10,000' (MSL) cold front/closed low crossing area.

Clouds present below mountain tops.

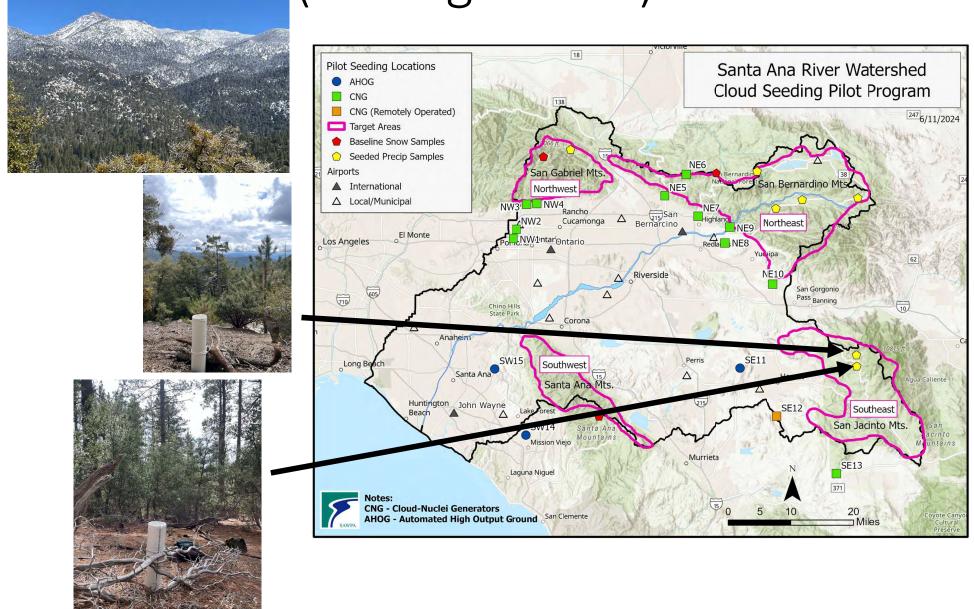
Temperatures at 10,000' MSL about -5.5C (22F).

Winds from the south-southwest.

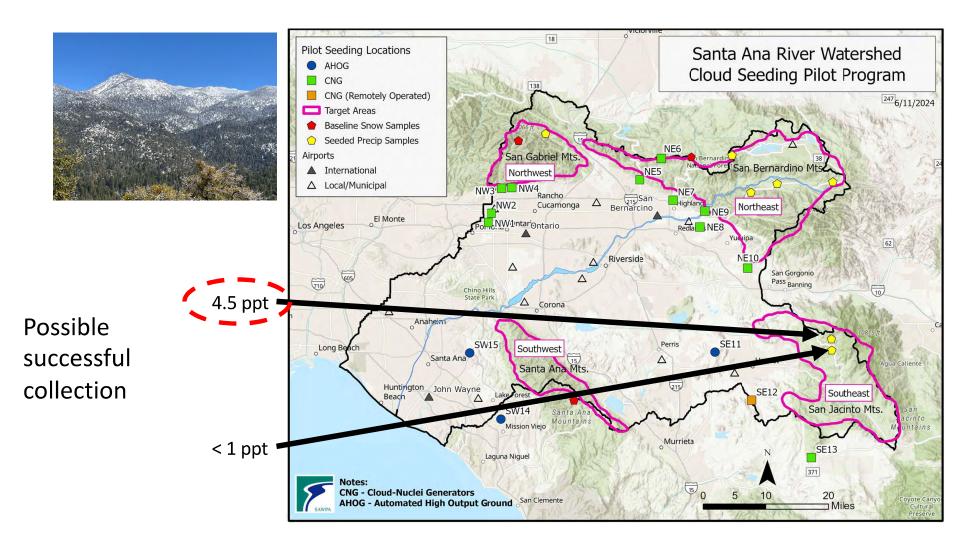
On-shore flow from Pacific.



Task 2) Collection Sites – Mar 6 - 7, 2024 (SE target area)



Task 2) Snow Chemistry – Mar 6 - 7, 2024 (SE target area)



Task 3) Estimating seeded precipitation

Background:

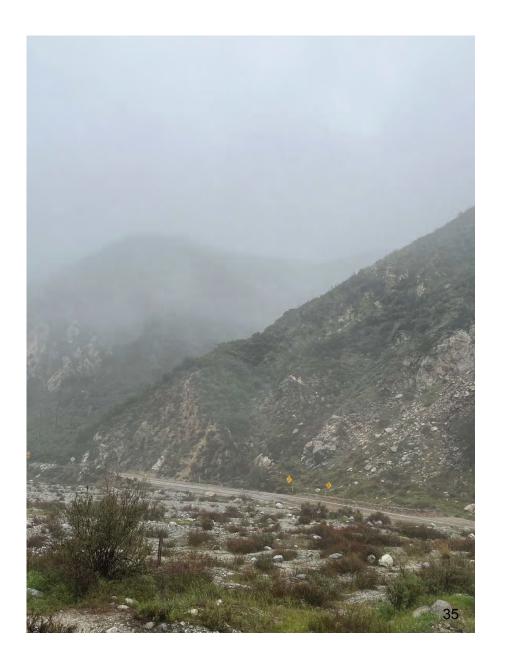
- -50-year project over southern Sierra (Big Creek) showed an average seasonal precipitation increases of 8%. (McGurty 1999) and 4% increases in stream flow.
- Several other historical deep pocket research projects over the central Sierra suggested average increases of 0.01" of snow water equivalent during seedable periods (Huggins 2007, Reynolds (1980).
- -\$25M project showed a 1statistically significant 14% seasonal increase in precipitation across the Snowy Mountains in Australia.

American Meteorological Society states in their capability statement that seasonal increases of 10% over unseeded precipitation can be realized by a well run cloud seeding program.

- A NSF research program conducted over Idaho showed 200 – 400 acre-feet per hour increases in snow water equivalent during a Pacific storm using a mountain-top cloud radar, research aircraft, and high-resolution precipitation gauges.

Task 3 Estimating seeded precipitation

Assume a 0.01" per hour increase in precipitation along the terrain under generators footprint (30 sq mi) during the time periods when seedable conditions were present.



Task 3 Estimating seeded precipitation all seedable times (Northeast)

Storm	Seeding Hours	Flares during seeding	Increased Precipitation (acre-feet)
Dec 21-22, 2023	80.50	-	1288
Dec 29-30, 2023	47.50	-	760
Jan 03, 2024	49.25	-	788
Jan 20-21, 2024	105.25	-	1684
Jan 21-22, 2024	99.75	=	1596
Jan 31- Feb 1, 2024	39.00	-	624
Feb 21-22, 2024	80.00	-	1280
Mar 6-7, 2024	82.50	-	1320
Mar 23-24, 2024	63.00	-	1008
Mar 30-31, 2024	157.25	-	2516
April 5, 2024	80.25	-	1284
April 13-14, 2024	80.00	-	1280
Total	964.25		15428

Task 3 Estimating seeded precipitation all seedable times (Northwest)

Storm	Seeding Hours	Flares during seeding	Increased Precipitation (acre-feet)
Dec 21-22, 2023	24	-	384
Dec 29-30, 2023	31	-	496
Jan 03, 2024	19.25	-	308
Jan 20-21, 2024	0	-	0
Jan 21-22, 2024	0	-	0
Jan 31- Feb 1, 2024	42.75	-	684
Feb 21-22, 2024	144.50	-	2312
Mar 6-7, 2024	44.00	-	704
Mar 23-24, 2024	48.00	-	768
Mar 30-31, 2024	84.50	_	1352
April 5, 2024	39.50	-	632
April 13-14, 2024	26.25	-	420
Total	503.75		8060

Task 3 Estimating seeded precipitation all seedable times (Southeast)

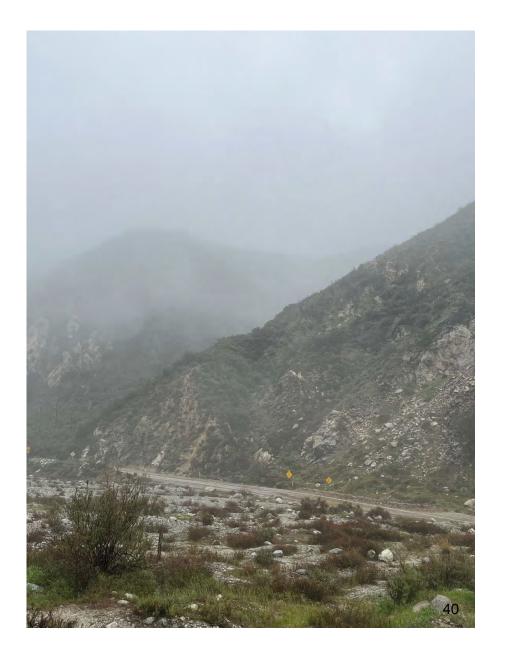
Storm	Seeding Hours	Flares during seeding	Increased Precipitation
			(acre-feet)
Dec 21-22, 2023	14.75	5 (250 ac-ft)	486
Dec 29-30, 2023	12.00	-	192
Jan 03, 2024	17.75	-	284
Jan 20-21, 2024	15.25	-	244
Jan 21-22, 2024	14.25	4 (200 ac-ft)	228
Jan 31- Feb 1, 2024	26.25	1(50 ac-ft)	420
Feb 21-22, 2024	0	<u> </u>	0
Mar 6-7, 2024	29.75	-	476
Mar 23-24, 2024	27.50	200 200	440
Mar 30-31, 2024	55.75	1 (50 ac-ft)	892
April 5, 2024	21.75	-	348
April 13-14, 2024	0	-	0
		=======================================	
Total	235.00	11 (550 ac-ft)	4210

Task 3 Estimating seeded precipitation all seedable times (Southwest)

<u> </u>			
Storm	Seeding Hours	Flares during seeding	Increased Precipitation
	22	22 560	(acre-feet)
Dec 21-22, 2023		1 (50 ac-ft)	50
Dec 29-30, 2023	-	3 (150 ac-ft)	150
Jan 03, 2024	-:	-	0
Jan 20-21, 2024	-	1 (50 ac-ft)	50
Jan 21-22, 2024	-	3 (150 ac-ft)	150
Jan 31- Feb 1, 2024	-	1(50 ac-ft)	50
Feb 21-22, 2024		-	0
Mar 6-7, 2024		3 (150 ac-ft)	150
Mar 23-24, 2024	-	-	0
Mar 30-31, 2024		2 (100 ac-ft)	100
April 5, 2024	-	-	0
April 13-14, 2024	-	-	0
Total	= .	14 (700 ac-ft)	700

Task 3 Estimating seeded precipitation when precipitation was measured

Assume a 10% increase in precipitation along the terrain under generators footprint (30 sq mi) during the time periods when seedable conditions were present and precipitation was observed.



Task 3 Estimating seeded precipitation all seedable times and precipitation present (Northeast)

Storm	Precip during seeding	Precip increase during seeding (10%)	Number of generators	Precip increase acre feet;
Dec 21-22, 2023	0.31"	0.031"	6	298
Dec 29-30, 2023	0.29"	0.029	6	278
Jan 03, 2024	0.26"	0.026"	6	250
Jan 20-21, 2024	0.67"	0.067"	6	643
Jan 21-22, 2024	1.43"	0.143"	0.143" 5	
Jan 31- Feb 1, 2024	1.12"	0.112"	4	717
Feb 21-22, 2024	0.36	0.036"	4	230
Mar 6-7, 2024	0.40	0.040"	5	320
Mar 23-24, 2024	0.27	0.027"	6	259
Mar 30-31, 2024	1.22"	0.12"	0.12" 5	
April 5, 2024	0.23	0.023	6	221
April 13-14, 2024	0.80	0.080	6	768
	=======			
Total	7.36"	0.736		6,017

Task 3 Estimating seeded precipitation all seedable times and precipitation present (Northwest)

Storm	Precip during seeding	Precip increase during seeding (10%)	Number of generators	Precip increase acre feet;	
Dec 21-22, 2023	0.79"	0.079"	2	253	
Dec 29-30, 2023	0.17"	0.017"	4	109	
Jan 03, 2024	0.39"	0.039"	3	187	
Jan 20-21, 2024	1.02"	0.102"	0	0	
Jan 21-22, 2024	1.76"	0.176"	0.176" 0		
Jan 31- Feb 1, 2024	2.06"	0.206"	3	989	
Feb 21-22, 2024	0.00"	0.000"	3	0	
Mar 6-7, 2024	0.00"	0.000"	3	0	
Mar 23-24, 2024	0.33"	0.033"	4	211	
Mar 30-31, 2024	1.96"	0.196"	0.196" 3		
April 5, 2024	0.00"	0.000"	4	0	
April 13-14, 2024	0.70	0.070"	4	448	
	=======			-	
Total	9.18"	0.918		3,138	

Task 3) Estimating seeded precipitation all seedable times and precipitation present (Southeast

Storm	Precip during seeding	Precip increase during seeding (10%)	Number of generators (flares)	Precip increase acre feet;
Dec 21-22, 2023	0.25"	0.025"	2 (5)	80
Dec 29-30, 2023	0.46"	0.046"	2	147
Jan 03, 2024	0.43"	0.043"	2 (2)	187
Jan 20-21, 2024	0.84"	0.084"	1	134
Jan 21-22, 2024	0.98"	0.098"	1	157
Jan 31- Feb 1, 2024	1.05"	0.105"	2	336
Feb 21-22, 2024	0.00"	0.000"	0	0
Mar 6-7, 2024	0.44"	0.044"	2 (1)	140
Mar 23-24, 2024	0.00"	0.000"	0	0
Mar 30-31, 2024	1.41"	0.141"	2	541
April 5, 2024	0.10"	0.010"	2	32
April 13-14, 2024	0.48"	0.048"	0	0
Total	6.44"	0.644		1754

Task 3) Estimating seeded precipitation Summary

Target Area	Seedable Clouds Present	Seedable Clouds and Precipitation Present
Northeast	15,428	6,017
Northwest	8,060	3,138
Southeast	4,210	1,754
Southwest	700	338

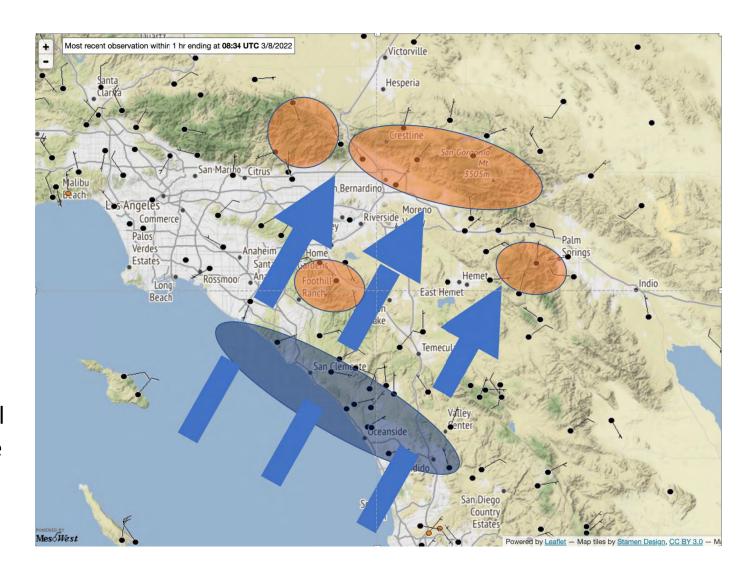
Task 4 Target Control Assessement area climatology (only one year)

Target area climatology and project design. require south through southwesterly winds when seeding conditions are present.

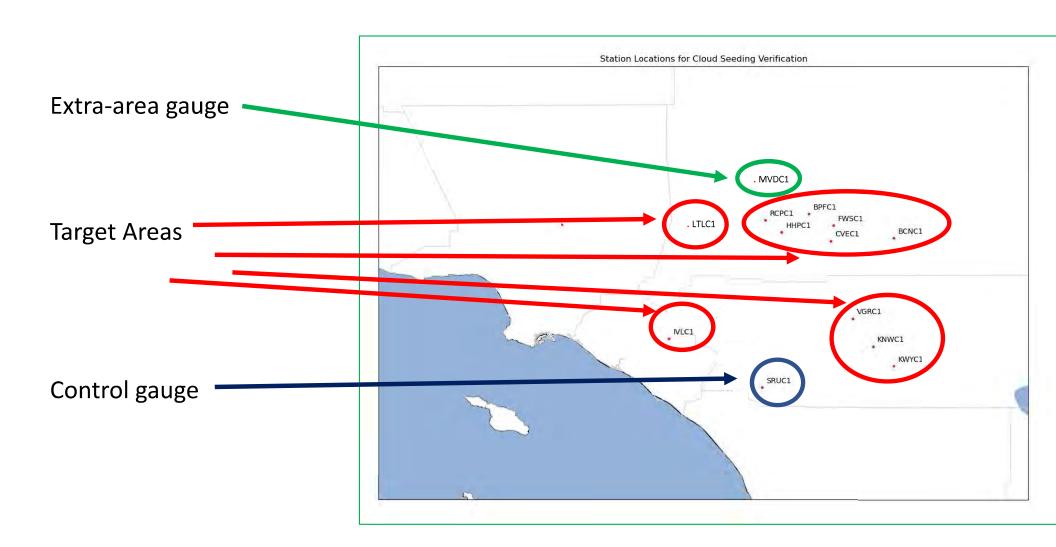
An upstream control site was identified (Santa Rosa Plateau).

Gauges within the target area were identified.

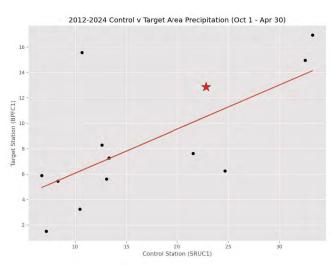
The non-seeded seasonal relationship between the target and control were computed and plotted with the clouds seeding season added to the plots.

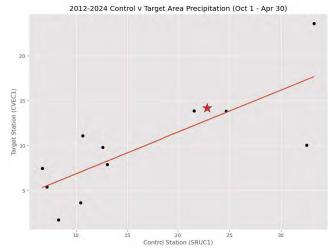


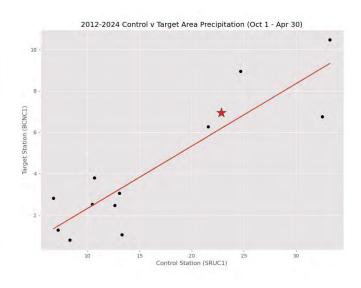
Task 4) Target-Control — Sites



Task 4) San Bernardino Target Upstream Control – Results







Big Pine Flat (6,851') V Santa Rosa Plateau (1,987')

expected precipitation 10.2" observed 12.8" (+25.5%)

Converse (5,618')

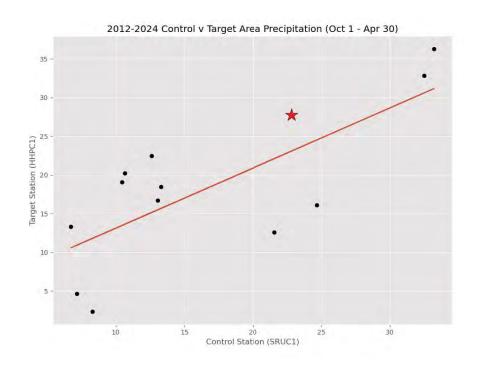
V
Santa Rosa Plateau (1,987')

Expected precipitation 13.0" observed 14.4" (+10.7%)

Burns Canyon (6,284') V Santa Rosa Plateau (1,987')

Expected precipitation 6.1" observed 6.9" (+12.1%)

Task 4) San Bernardino Target Upstream Control – Results



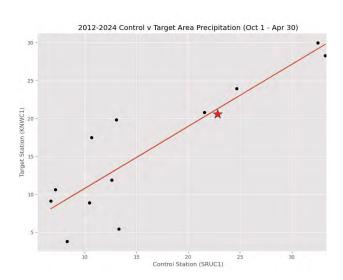
Heaps Peak (6,455') V Santa Rosa Plateau (1,987')

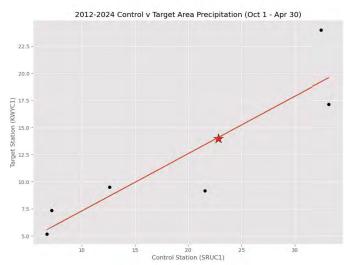
Expected precipitation 23.5" observed 27.2" (+15.7%)

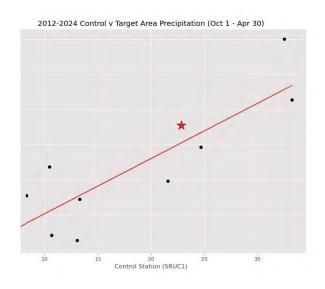
Rock Camp (4,900') V Santa Rosa Plateau (1,987')

Expected precipitation 20.9" observed 26.2" (+25.3%)

Task 4) San Jacinto Target Upstream Control – Results







Keenwild (4,752') V Santa Rosa Plateau (1,987')

Expected precipitation 20.3" observed 20.1" (-1.0%)

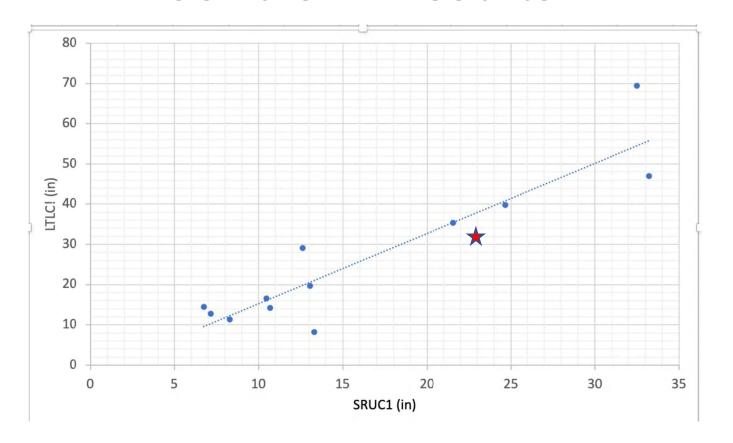
Kenworthy (4,590') V Santa Rosa Plateau (1,987')

Expected precipitation 13.7" observed 13.6" (-0.7%)

Vista Grande (4,906') V Santa Rosa Plateau (1,987')

Expected precipitation 20.1" observed 22.9" (+13.9%)

Task 4) Santa Ana Target Upstream Control – Results



 $R^2 = 0.91$

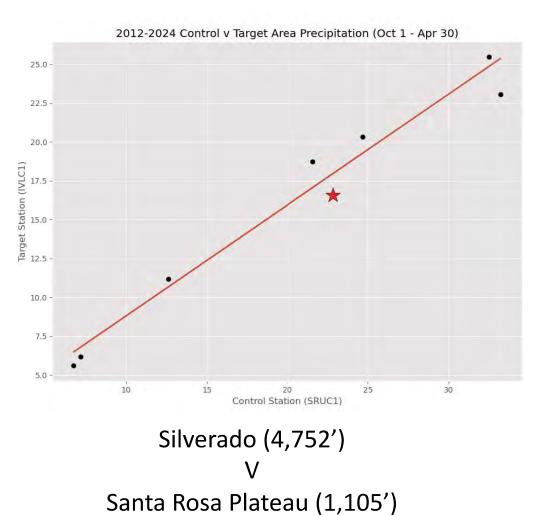
Lytle Creek(2,792')

V

Santa Rosa Plateau (1,105')

Expected precipitation 37.7" observed 31.8" (-18.5%)

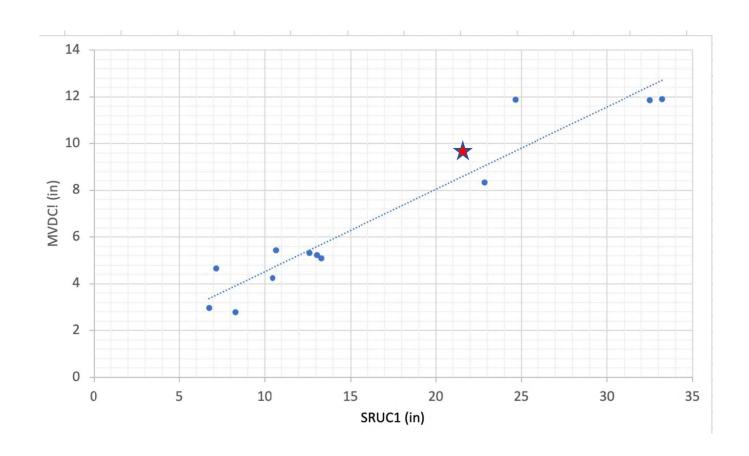
Task 4) Santa Ana Target Upstream Control – Results



 $R^2 = 0.91$

Expected precipitation 17.7" observed 16.9" (-4.7%)

Task 4) Target Control – Extra Area Effects



 $R^2 = 0.95$

Mojave Dam (3,134') V Santa Rosa Plateau (1,105')

Expected precipitation 8.5" observed 9.6" (+12.9%)

Task 4) Estimating seeded precipitation Summary

Potential positive seasonal seeding precipitation increases for the Northeast target area and the northern gauge of the Southeast target area.

Neutral to negative seasonal precipitation increases over the Northwest (1 gauge) and the Southeast (limited seeding)

The extra-area gauge suggested a precipitation increase.

Task 5) Target-Control Runoff Evaluation

San Gabriel River (Control)

VS.

Santa Ana watershed gauges

COMMISSION MEMORANDUM NO. 2024.57

DATE: October 1, 2024

TO: SAWPA Commission

SUBJECT: Santa Ana River Watershed Cloud Seeding Pilot Program: Year 2

Operations

PREPARED BY: Rachel Gray, Water Resources and Planning Manager

RECOMMENDATION

Receive and file.

DISCUSSION

Staff will be postponing Year 2 Operations (November 15, 2024-April 15, 2025) of the Santa Ana River Watershed Cloud Seeding Pilot Program based on the potential for debris flows from the burn scars from recent wildfires in the watershed and based on input received from the three Flood Control Districts.

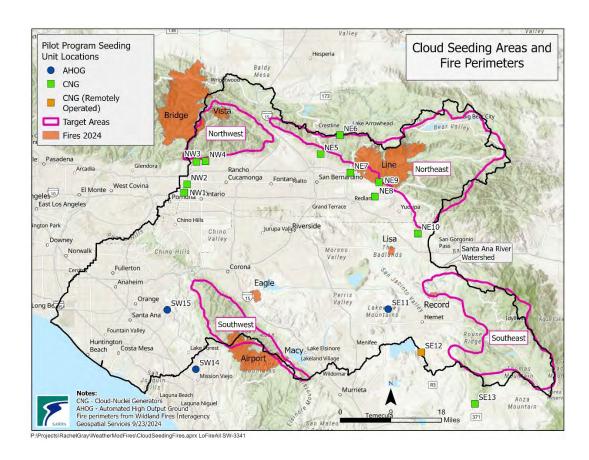
On July 19, 2022, the SAWPA Commission authorized an award of a contract with North American Weather Consultants, Inc. (NAWC) to conduct the Santa Ana River Watershed Cloud Seeding Pilot Program operations.

The Pilot Program is a four-year project spanning the four winter seasons starting in 2023 and running between November 15 and April 15 for each season. The operations are based on past work described in the SAWPA feasibility study published in 2020, updated seeding site analysis, and reflects requirements from CEQA, and comments from SAWPA member agency staff and other stakeholders. The focus of the Pilot Program will be on seeding the four higher elevation target areas identified in the feasibility study surrounding the watershed with an emphasis on increasing precipitation in the form of snow.

Over the past several weeks, the Watershed has experienced a number of fires, some of which are inactive (Vista, Lisa, Eagle, Record, and Macy) and some of which are currently active (Bridge, Line, and Airport) [see figure below]. Seeding Suspension Criteria were developed for the Pilot Program and includes the following:

Burn Scars

After a wildfire is contained, a burn scar will form in the impacted area. According to the National Weather Service (NWS), the length of time the burn scar remains a threat for debris flow "depends on the severity of the wildfire that occurred as well as how much erosion occurs. It could take many years for vegetation to become reestablished and this is the main factor in slowing the precipitation run off that creates flash flooding and debris flows. Most burn areas will be prone to this activity for at least two years." Following a wildfire, SAWPA will share the impacted areas with NAWC and coordinate the fire severity and extents of the burn scar with the applicable flood control district. If the burn scar is a threat for debris flow, NAWC will not conduct seeding operations that will affect the burn scar area.



SAWPA contacted the Flood Control Districts and was provided input on cloud seeding relative to the burn scars from the inactive and active fires. General feedback was to suspend cloud seeding for the upcoming Year 2 of Operations.

CRITICAL SUCCESS FACTORS

- Successful implementation of an integrated regional water resource plan that reflects the watershed management needs of the public and the environment.
- Data and information needed for decision-making is available to all.

RESOURCE IMPACTS

In April 2023, SAWPA was notified by the Department of Water Resources (DWR) that the SAWPA Santa Ana River Weather Modification Pilot Program will receive a grant valued at \$861,400 under the Proposition 1 Round 2 funding program. SAWPA staff anticipates requesting a project extension for the grant period in light of postponing Year 2 Operations from 2024-2025 to potentially 2025-2026. Local funding has been secured totaling \$94,000. Project operations and validation study costs are budgeted and reflected in the FYE 23-24, FYE 24-25, FYE 25-26 and FYE 26-27 SAWPA Budgets.

Attachments:

1. PowerPoint Presentation



Santa Ana River Watershed Cloud Seeding Pilot Program: Year 2 Operations

Item No. 6.B Jeff Mosher, General Manager

Recommendation

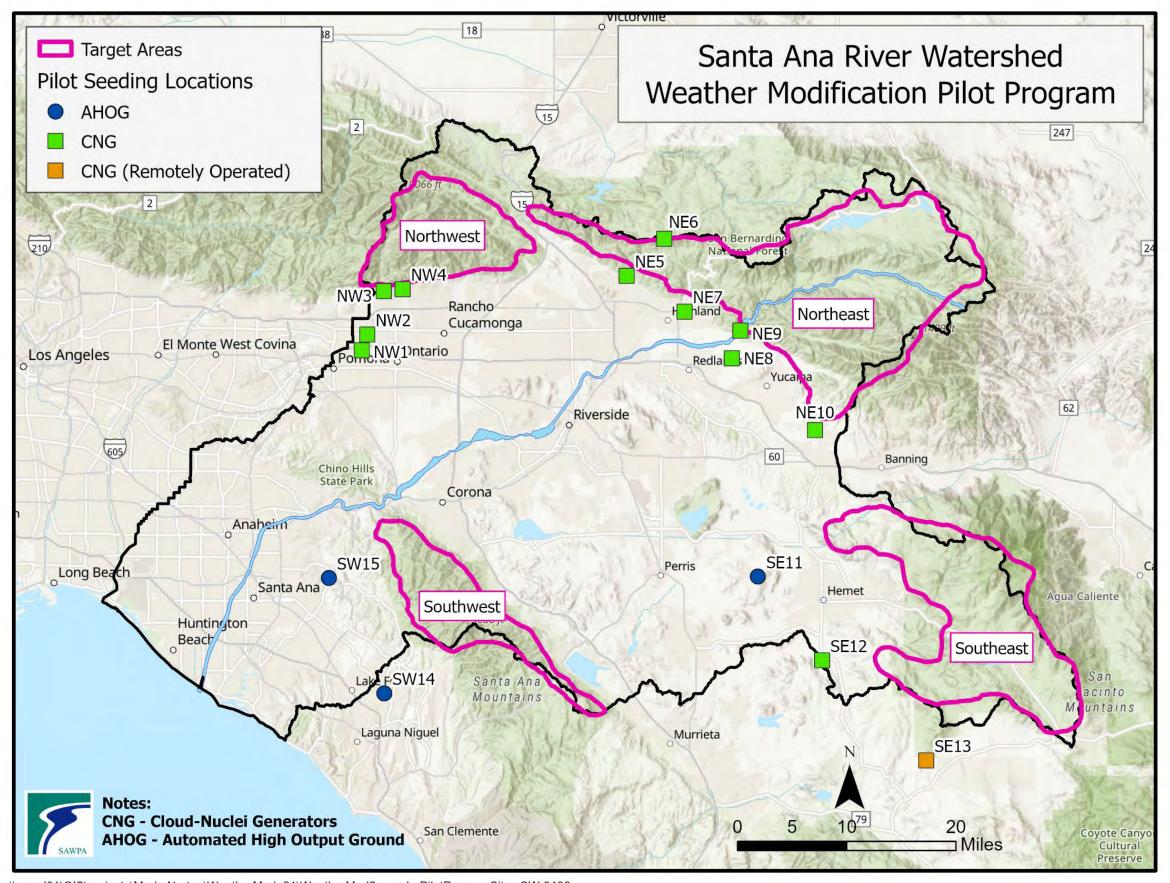
Receive and file.

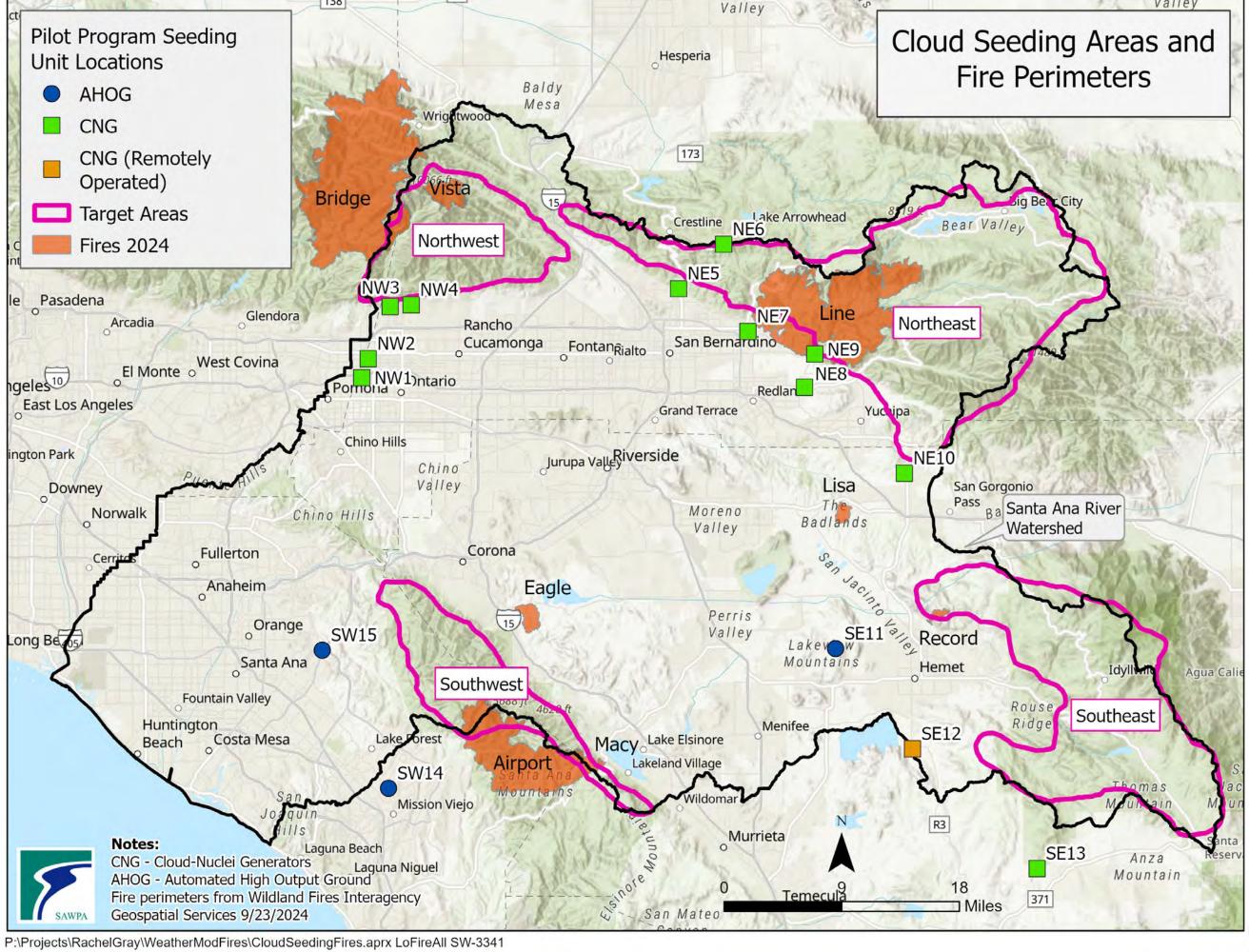
Postpone Year 2 Cloud Seeding Pilot Program Operations

- SAWPA Staff will be postponing Year 2 Operations (November 15, 2024-April 15, 2025) of the Santa Ana River Watershed Cloud Seeding Pilot Program
- The decision was based on:
 - The potential for debris flows from the burn scars from recent wildfires in the watershed
 - Input received from the three Flood Control Districts
 - Program's Suspension Criteria

Site (15)	Sponsors (11)
	Northwest
NW1	Chino Basin Water Conservation
NW2	District
NW3	San Antonio Water Company
NW4	San Antonio Water Company
	Northeast
NE5	City of San Bernardino MWD
NE6	Private Landowner
NE7	San Bernardino Valley MWD
NE8	San Bernardino Valley Water
NE9	Conservation District
NE10	San Gorgonio Pass Water Agency
	Southeast
SE11	Factory Municipal Water District
SE12	Eastern Municipal Water District
SE13	Private Landowner
	Southwest
SW14	El Toro Water District
SW15	East Orange County Water District

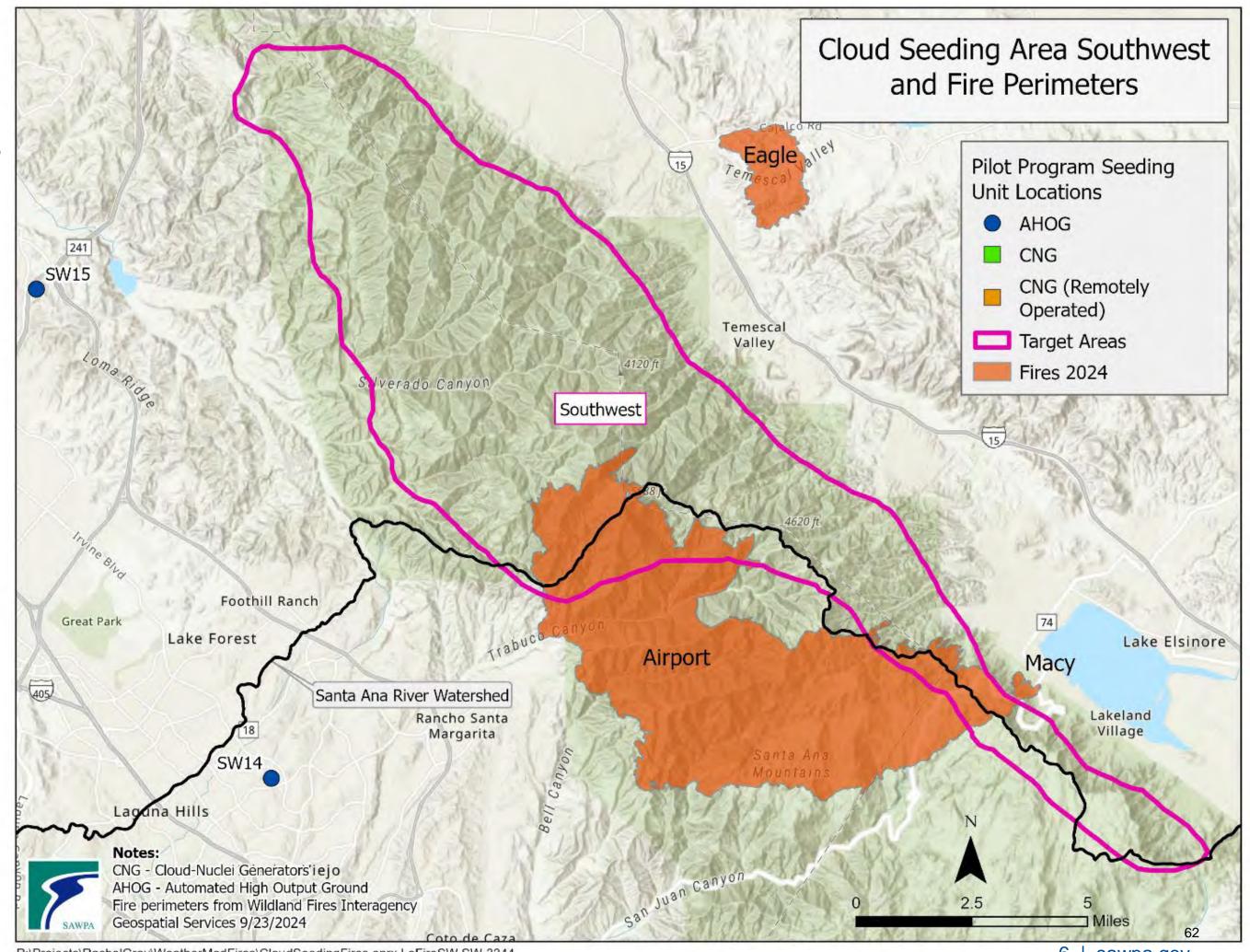
Cloud Seeding Pilot Program





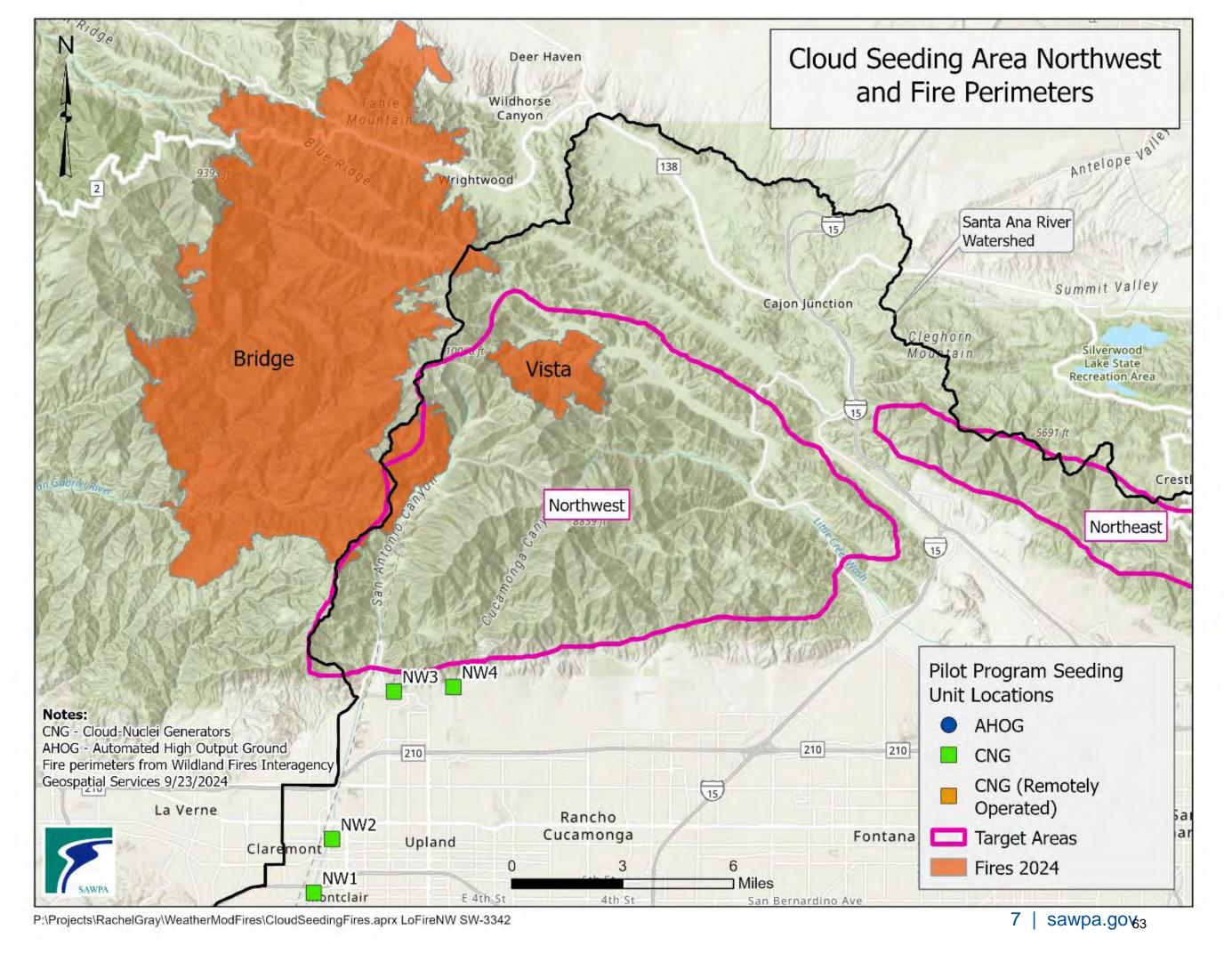
Southwest Target Area:

- Airport Fire
- 23,526 acres
- 95% contained
- Equipment



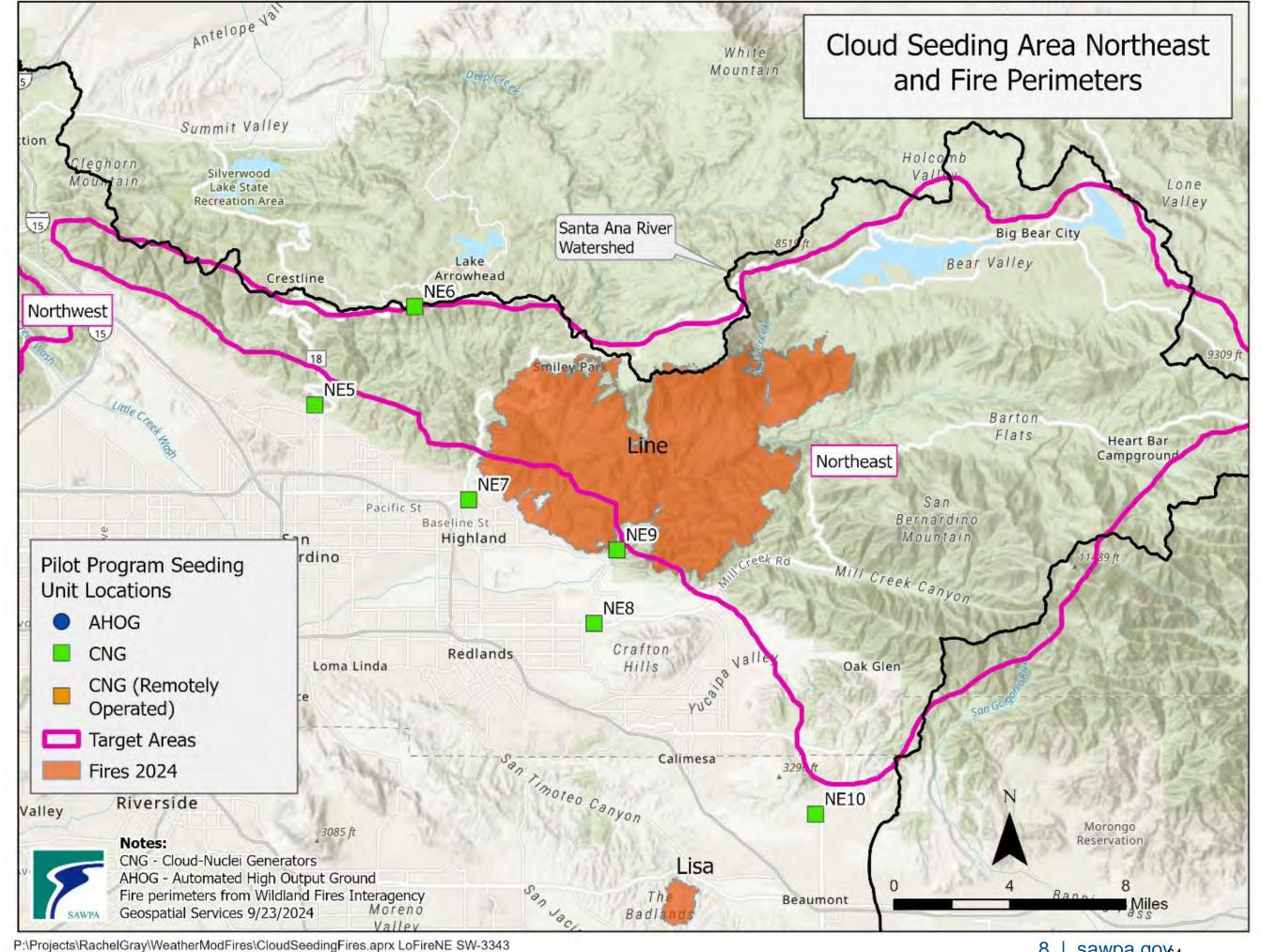
Northwest Target Area:

- Bridge Fire
 - o 54, 878 acres
 - o 97% contained
 - Under investigation
- Vista Fire
 - o 2,936 acres



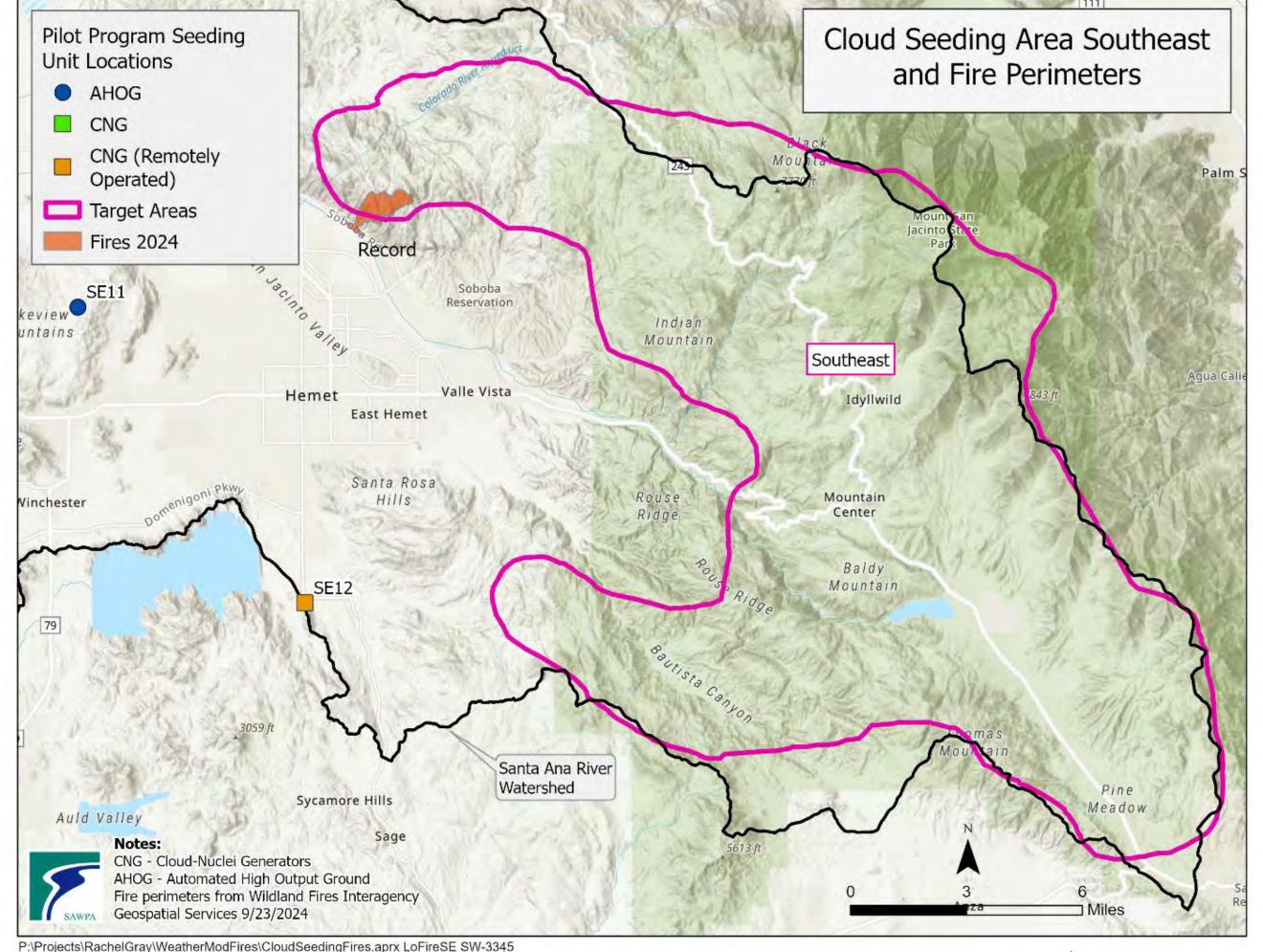
Northeast Target Area:

- Line Fire
- 39,232 acres
- 80% contained
- Arson



Southeast Target Area:

- Record Fire
- 517 acres
- 100% contained
- Human



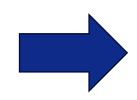
Suspension Criteria

Flood

- Warm storm rain on snow
- Freezing level is >8,000 feet
- Quantitative precipitation forecast is > 3 inches in 24 hours

Burn Scars

- Threat of debris flow
- Coordinate with flood control districts



Input from FCDs on potential for flooding and mud slides/debris flows.

Severe Weather

- Winter storm warnings
- Flash flood warnings
- Severe thunderstorm warnings
- Sustained winds more than 30 mph at the sites

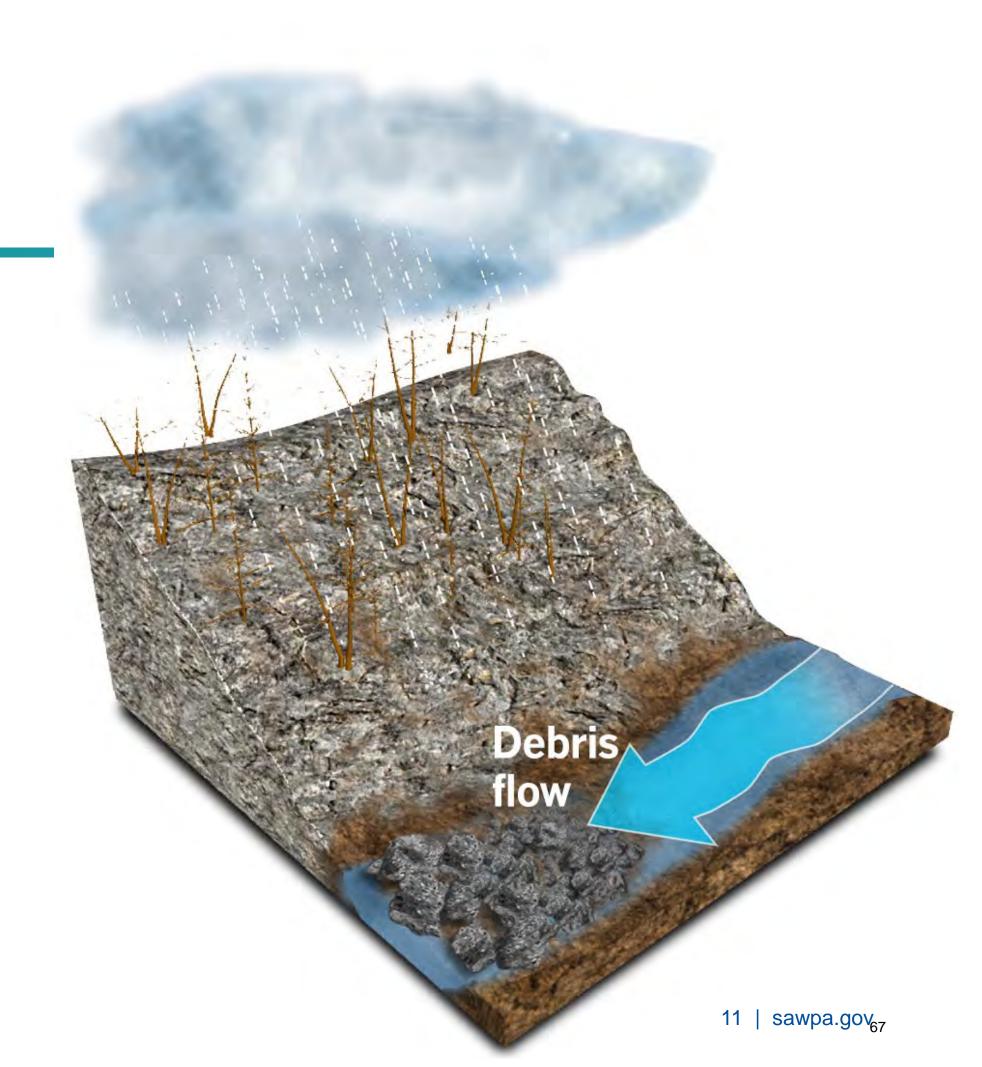
Flood Control District Input

San Bernardino County Flood Control District

Riverside County Flood Control District

Orange County Public Works

Los Angeles County Flood Control District



Flood Control Districts Input

LA County Flood Control:

 Cloud seeding recently burned areas could potentially lead to additional sediment deposition within flood control facilities/dams and may result in increased cleanout costs and/or flood risks.

San Bernardino County Flood Control

In light of these fresh burn scars, recommend suspending the cloud seeding pilot project for this upcoming winter season. This precaution could help avoid any unintended consequences related to runoff and debris flows from the burn areas.



Debris flow from the El Dorado fire burn scars (2022) Source: KTLA 5 News

Flood Control Districts Input

Riverside County Flood Control

 Reduce the Southwest, Northeast, and Northwest cloudseeding target areas by removing the Macy, Airport, Bridge, and Line fire burn scar areas.

OC Public Works

 Recommend holding off on performing cloud seeding in the Santa Ana Mountains (due to the ongoing fire) and in the San Bernardino Mountains by Seven Oaks Dam (due to the ongoing fire).



Postpone Year 2 Cloud Seeding Pilot Program Operations

- SAWPA Staff will be postponing Year 2 Operations (November 15, 2024-April 15, 2025) of the Santa Ana River Watershed Cloud Seeding Pilot Program
- The decision was based on:
 - The potential for debris flows from the burn scars from recent wildfires in the watershed
 - Input received from the three Flood Control Districts
 - Program's Suspension Criteria

Proposed Schedule

Toolse		2024							20	25							20	26	
Tasks	Tasks Oct Nov Dec		Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Year 1 Validation Results																			
Year 2 Operations				Postp	oone														
Input from FCDs																			
Mobilization (Y2 Operation)																			
Year 2 Operations																			

Recommendation

Receive and file.

Thank You





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General Manager's Report

October 2024

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- **Brine Line Pretreatment Program Annual Report**
- SAWPA Works with Member Agencies on Watershed Sustainability and Aerial Imagery **Projects**
- LESJWA Engages Canyon Lake Residents on Alum Treatments and Watershed Monitoring **Efforts**
- SAWPA Presents at Inland Empire Chapter to WateReuse California Board
- SAWPA Staff Attend Fire Extinguisher Training
- City Approves SAWPA **Lobby Renovation Plans**

Brine Line Pretreatment Program Annual Report

SAWPA staff submitted the Annual Report, for the July 1, 2023 through June 30, 2024 reporting period, to Orange County Sanitation District (OC San) for review and inclusion in the combined OC San Annual Report in September 2024. This report included at a minimum, a list and description of all Brine Line dischargers, a description of all high level enforcement actions, all water quality data collected throughout the reporting period (over 13,000 individual points of data), a summary of inspection activities, and updates on upcoming permitting activities for new dischargers.

SAWPA Works with Member Agencies on Watershed Sustainability and **Aerial Imagery Projects**

SAWPA Planning Department coordinated with Member Agencies Planning Managers where a number of efforts were discussed including Update of Santa Ana River Watershed Sustainability Indicators, Enhanced Aerial Imagery Analysis of Outdoor Landscape, Mapping results of Aerial Imagery Analysis of Arundo donax, Arundo donax Workgroup, CARP Workgroups, and Upcoming Riverwalk Event.

LESJWA Engages Canyon Lake Residents on Alum Treatments and Watershed Monitoring Efforts

SAWPA staff, in the role of the Lake Elsinore and San Jacinto Watersheds Authority (LESJWA) Administrator, hosted a public meeting in the City of Canyon Lake. The objective of the meeting was to conduct public outreach to the residents of Canyon Lake to discuss the alum applications conducted on behalf of the Lake Elsinore and Canyon Lake Total Maximum Daily Loads (LE/CL TMDL) Task Force. Presentations were given on Alum efficacy and safety, and the Canyon Lake Monitoring Program.



SAWPA Presents at Inland Empire Chapter **Update to WateReuse California Board**

SAWPA staff, serving as the WateReuse Inland Empire Chapter Trustee, provided an overview of the IE Chapter activities to the WateReuse California Board of Directors.







General Manager's Report

October 2024

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SAWPA Staff Attend Fire Extinguisher Training

SAWPA staff participated in a comprehensive fire extinguisher training session designed to enhance safety practices across the workplace. Led by certified fire safety professionals, the training gave staff hands-on experience using a standard fire extinguisher to handle a small fire, similar to those commonly found in office environments. SAWPA continues to prioritize safety training to ensure all employees are prepared for emergency scenarios.





City Approves SAWPA Lobby Renovation Plans

The City of Riverside has officially approved SAWPA's plans for interior and exterior lobby renovations. These improvements aim to achieve several key objectives, including enhancing security, improving traffic flow within the lobby, and ensuring the space meets Building Code and ADA (Americans with Disabilities Act) standards. Now that the city's approval is secured, the next step is to issue a Request for Proposals (RFP) for construction in the coming months.

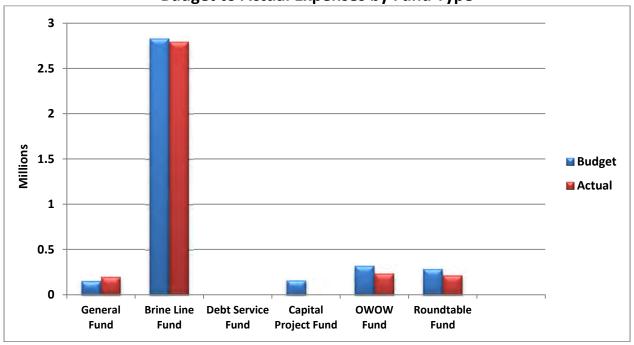
Santa Ana Watershed Project Authority Executive Financial Information Report July 2024

Staff comments provided on the last page are an integral part of this report.

Overview	This report highlights the agency's key financial indicators for the Fiscal Year-to-Date (FYTD) July 2024 unless otherwise noted.
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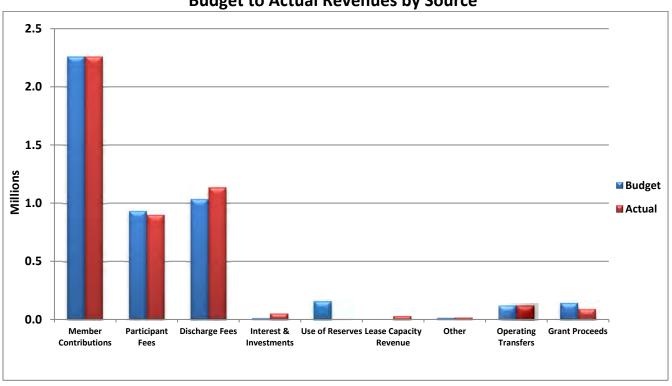
Budget to Actual	Favorable			
	Annual FYTD Budget Budget		FYTD Actual	Favorable (Unfavorable) Variance
General Fund	\$712,910	\$151,076	\$195,245	(\$44,169)
Brine Line Enterprise	11,368,636	2,831,858	2,796,460	35,398
Debt Service Fund	1,709,476	-	-	-
Capital Project Fund	1,870,013	155,835	1,650	154,185
OWOW Fund	4,229,319	319,111	234,794	84,317
Roundtable Fund	1,953,263	282,230	213,067	69,163
Total	\$21,843,617	\$3,740,110	\$3,441,216	\$298,894

Budget to Actual Expenses by Fund Type

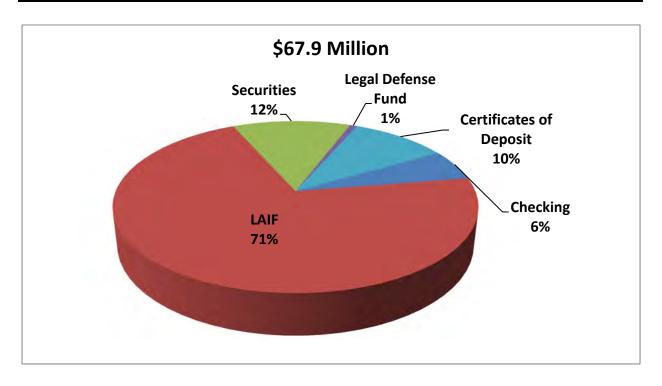


Budget to Actual Reve	Ø	On Track		
	Annual Budget	FYTD Budget	FYTD Actual	Favorable (Unfavorable) Variance
Member Contributions	\$2,261,410	\$2,261,410	\$2,261,410	\$-
Participant Fees	1,324,212	931,820	899,365	(32,455)
Discharge Fees	12,405,112	1,032,643	1,134,164	101,521
Interest & Investments	673,000	14,417	51,696	37,279
Use of Reserves	1,870,013	155,835	1,650	(154,185)
Lease Capacity Revenue	-	-	29,091	29,091
Other	1,078,085	15,690	20,269	4,579
Operating Transfers	120,320	120,320	120,320	-
Grant Proceeds	2,359,785	142,482	91,580	(50,902)
Total	\$22,091,937	\$4,674,617	\$4,609,545	(\$65,072)





Total Cash & Investments



Reserve Fund Balance	
	Amount
General Fund	\$2,172,937
Building Fund	726,694
OWOW Fund	2,251,959
Roundtable Fund	2,642,473
Debt Retirement	3,011,686
Pipeline Replacement & Capital Investment	36,121,180
OC San Pipeline Rehabilitation	3,036,460
Pipeline Capacity Management	12,808,111
OC San Future Treatment & Disposal Capacity	1,960,963
Brine Line Operating Reserve	2,288,059
Brine Line Operating Cash	3,426,197
Total Reserves	\$70,446,719

Legend

Compared to Budget

Ahead or Favorable Above +5% Favorable Revenue or Expense Variance

On Track +5% to -2% Variance

A Behind -3% to -5% Variance

Concern Below -5% Variance

Staff Comments

For this month's report, the item(s) explained below are either "behind", a "concern", or have changed significantly from the prior month.

Both expenses and revenues are on track with the budget.