



MEETING AGENDA

TIME/DATE: **12:30 p.m. / Monday, April 6, 2026**
LOCATION: **BOARD ROOM**
County of Riverside Administrative Center
4080 Lemon Street, First Floor, Riverside, CA 92502

BOARD OF DIRECTORS

Chair – Kevin Bash

Vice Chair – Karen Spiegel

Jose Medina, County of Riverside, District 1
Karen Spiegel, County of Riverside, District 2
Chuck Washington, County of Riverside, District 3
V. Manuel Perez, County of Riverside, District 4
Yxstian Gutierrez, County of Riverside, District 5
Colleen Wallace / Sheri Flynn, City of Banning
Julio Martinez / Mike Lara, City of Beaumont
Jeff Cervantez / John Manly, City of Calimesa
Dale Welty / Josh Steeber, City of Canyon Lake
Tony Daddario / Wes Speake, City of Corona
Jocelyn Yow / Mike McMinn, City of Eastvale
Connie Howard-Clark / Linda Krupa, City of Hemet
Veronica Sanchez / Armando Carmona, City of Jurupa Valley
Bob Magee / Steve Manos, City of Lake Elsinore
Dan Temple / Ben Diederich, City of Menifee
Ulises Cabrera / Ed Delgado, City of Moreno Valley
Ron Holliday / Jon Levell, City of Murrieta
Kevin Bash / Greg Newton, City of Norco
David Starr Rabb / Malcolm Corona, City of Perris
Patricia Lock Dawson / Steve Hemenway, City of Riverside
Crystal Ruiz / Alonso Ledezma, City of San Jacinto
Jessica Alexander / James Stewart, City of Temecula
Joseph Morabito / Ashlee DePhillippo, City of Wildomar



WESTERN RIVERSIDE COUNTY REGIONAL CONSERVATION AUTHORITY

www.wrc-rca.org

MEETING AGENDA*

***Actions may be taken on any item listed on the agenda**

12:30 p.m.

Monday, April 6, 2026

Board Room

**County of Riverside Administrative Center
4080 Lemon Street, First Floor, Riverside, CA**

In compliance with the Brown Act and Government Code Section 54957.5, agenda materials distributed 72 hours prior to the meeting, which are public records relating to open session agenda items, will be available for inspection by members of the public prior to the meeting on the RCA's website, www.wrc-rca.org.

In compliance with the Americans with Disabilities Act, Government Code Section 54954.2, Executive Order N-29-20, and the Federal Transit Administration Title VI, please contact the Clerk of the Board at (951) 787-7141 if special assistance is needed to participate in a Board meeting, including accessibility and translation services. Assistance is provided free of charge. Notification of at least 48 hours prior to the meeting time will assist staff in assuring reasonable arrangements can be made to provide assistance at the meeting.

1. CALL TO ORDER

2. ROLL CALL

3. PLEDGE OF ALLEGIANCE

- 4. PUBLIC COMMENTS** – *Each individual speaker is limited to speak three (3) continuous minutes or less. The Board may, either at the direction of the Chair or by majority vote of the Board, waive this three-minute time limitation. Depending on the number of items on the agenda and the number of speakers, the Chair may, at his/her discretion, reduce the time of each speaker to two (2) continuous minutes. In addition, the maximum time for public comment for any individual item or topic is thirty (30) minutes. Also, the Board may terminate public comments if such comments become repetitious. Speakers may not yield their time to others without the consent of the Chair. Any written documents to be distributed or presented to the Board shall be submitted to the Clerk of the Board. This policy applies to Public Comments and comments on Agenda Items.*

Under the Brown Act, the Board should not take action on or discuss matters raised during public comment portion of the agenda that are not listed on the agenda. The Board Members may refer such matters to staff for factual information or to be placed on the subsequent agenda for consideration.

- 5. ADDITIONS / REVISIONS** – *The Board may add an item to the agenda after making a finding that there is a need to take immediate action on the item and that the item came to the attention of the Board subsequent to the posting of the agenda. An action adding an item to the agenda requires 2/3 vote of the Board. If there are less than 2/3 of the Board Members present, adding an item to the agenda requires a unanimous vote. Added items will be placed for discussion at the end of the agenda.*

6. CONSENT CALENDAR – *All matters on the Consent Calendar will be approved in a single motion unless a Board Member(s) requests separate action on specific item(s).*

6A. APPROVAL OF MINUTES – FEBRUARY 2, 2026

Page 1

6B. WESTERN RIVERSIDE COUNTY MULTIPLE SPECIES HABITAT CONSERVATION PLAN FEE COLLECTION REPORT FOR DECEMBER 2025

Page 10

Overview

This item is for the Board of Directors to receive and file the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) Fee Collection report for December 2025.

6C. WESTERN RIVERSIDE COUNTY MULTIPLE SPECIES HABITAT CONSERVATION PLAN FEE COLLECTION REPORT FOR JANUARY 2026

Page 12

Overview

This item is for the Board of Directors to receive and file the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) Fee Collection report for January 2026.

6D. JOINT PROJECT REVIEW STATUS REPORT

Page 14

Overview

This item is for the Board of Directors to receive and file the Joint Project Review (JPR) monthly status report as of February 28, 2026.

6E. ACQUISITIONS STATUS REPORT

Page 19

Overview

This item is for the Board of Directors to receive and file the acquisition status report for the months of December 2025 and January 2026.

6F. MONTHLY INVESTMENT REPORT FOR DECEMBER 2025

Page 23

Overview

This item is for the Board of Directors to receive and file the Monthly Investment Report for the month ended December 31, 2025.

6G. MONTHLY INVESTMENT REPORT FOR JANUARY 2026

Page 46

Overview

This item is for the Board of Directors to receive and file the Monthly Investment Report for the month ended January 31, 2026.

6H. CONSULTANT REPORTS – FISCAL YEAR 2026 SECOND QUARTER

Page 72

Overview

This item is for the Board of Directors to receive and file the consultant reports for Fiscal Year 2026, Second Quarter.

6I. STATE AND FEDERAL LEGISLATIVE UPDATE

Page 91

Overview

This item is for the Board of Directors to receive and file an update on state and federal legislative affairs.

7. QUARTERLY FINANCIAL STATEMENTS

Page 95

Overview

This item is for the Board of Directors to:

- 1) Receive and File the Quarterly Financial Statements for the six months ended December 31, 2025; and
- 2) Approve the Fiscal Year 2025/2026 budget adjustments in Attachment 2.

8. WESTERN RIVERSIDE COUNTY MULTIPLE SPECIES HABITAT CONSERVATION PLAN 2024 ANNUAL REPORT

Page 108

Overview

This item is for the Board of Directors to receive and file the Western Riverside County Multiple Species Habitat Conservation Plan 2024 Annual Report.

9. I-15 RAINBOW CANYON WILDLIFE CROSSING UPDATE

Page 333

Overview

This item is for the Board of Directors to receive an update on the Interstate 15 Rainbow Canyon Wildlife Crossing Planning Project.

10. BOARD OF DIRECTORS / EXECUTIVE DIRECTOR REPORT

Overview

This item provides the opportunity for the Board of Directors and the Executive Director to report on attended meetings/conferences and any other items related to Board activities.

11. CLOSED SESSION

11A. CONFERENCE WITH REAL PROPERTY NEGOTIATORS

Pursuant to Government Code Section 54956.8

Agency Negotiator: Executive Director or Designee

Item	Property Description	Property Owner	Buyer(s)
1	964-160-003	Atef Karam, a Married Man as his sole and separate property	RCA
2	429-140-005	Ray N. Beeman and Betty Lou Beeman, husband and wife, as community property	RCA

11B. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION

Paragraph (1) of subdivision (d) of Section 54956.9

Case No. 5:25-cv-2008-DTB

11C. REPORT OUT FROM CLOSED SESSION

12. ADJOURNMENT

The next meeting of the Board of Directors is scheduled to be held on **Monday, May 4, 2026.**

AGENDA ITEM 6A

MINUTES

WESTERN RIVERSIDE COUNTY REGIONAL CONSERVATION AUTHORITY

BOARD OF DIRECTORS MEETING MINUTES

Monday, February 2, 2026

1. CALL TO ORDER

The Western Riverside County Regional Conservation Authority Board of Directors Meeting was called to order by Chair Kevin Bash at 12:30 p.m., in the Board Room at the County of Riverside Administrative Center, 4080 Lemon Street, First Floor, Riverside, California, 92501.

2. ROLL CALL

Board of Directors/Alternates Present

Karen Spiegel
Colleen Wallace
Julio Martinez
Jeff Cervantez
Dale Welty
Wes Speake
Jocelyn Yow*
Connie Howard-Clark
Bob Magee

Dan Temple
Ron Holliday
Kevin Bash
David Starr Rabb
Patricia Lock Dawson
Crystal Ruiz
Jessica Alexander
Joseph Morabito

Board of Directors Absent

Jose Medina
Chuck Washington
V. Manuel Perez
Yxstian Gutierrez
Veronica Sanchez
Ulises Cabrera

*Arrived after the meeting was called to order.

3. PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was led by Board Member Speake.

4. PUBLIC COMMENTS

There were no requests to speak from the public.

5. ADDITIONS / REVISIONS

There were no additions or revisions to the agenda.

6. CONSENT CALENDAR - All matters on the Consent Calendar will be approved in a single motion unless a Board Member(s) requests separate action on specific item(s).

M/S/C (Ruiz/Wallace) to approve the following Consent Calendar items.

6A. APPROVAL OF MINUTES – JANUARY 5, 2026

6B. WESTERN RIVERSIDE COUNTY MULTIPLE SPECIES HABITAT CONSERVATION PLAN FEE COLLECTION REPORT FOR NOVEMBER 2025

This item is for the Board of Directors to receive and file the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) Fee Collection report for November 2025.

6C. JOINT PROJECT REVIEW STATUS REPORT

This item is for the Board of Directors to receive and file the Joint Project Review (JPR) monthly status report as of December 31, 2025.

6D. ACQUISITIONS STATUS REPORT

This item is for the Board of Directors to receive and file the acquisition status report as of November 30, 2025.

6E. MONTHLY INVESTMENT REPORT FOR NOVEMBER 2025

This item is for the Board of Directors to receive and file the Monthly Investment Report for the month ended November 30, 2025.

6F. SINGLE SIGNATURE AUTHORITY REPORT

This item is for the Board of Directors to receive and file the Single Signature Authority report for the second quarter ended December 31, 2025.

6G. QUARTERLY PUBLIC ENGAGEMENT METRICS REPORT, OCTOBER – DECEMBER 2025

This item is for the Board of Directors to receive and file the Quarterly Public Engagement Metrics Report for October - December 2025.

7. STATE AND FEDERAL LEGISLATIVE UPDATE

Tyler Madary, Legislative Affairs Manager, provided an update on state and federal legislative actions. Earlier this month, the Governor released the budget proposal for Fiscal Year (FY) 2026-27. The nearly \$348.9 billion budget proposal projects a shortfall of \$2.9 billion this fiscal year, increasing to more than \$22 billion for next fiscal year. The proposal does not appear to cut funding levels for programs of interest to RCA or California Department of Fish and Wildlife staffing. The proposal includes an allocation of \$123 million in Proposition 4 climate and natural resources bond funds to the Wildlife Conservation Board (WCB) to, in part, support wildlife conservation activities. While there is a backlog of habitat conservation projects in need of funding across the state, these would be funds that RCA would be able to compete for.

With the budget proposal now released, the Legislature will begin to hold budget committee hearings over the coming months, and the Governor will release a revised outlook to be included in the May Revise. RCA staff will continue to advocate to maximize funding opportunities and minimize potential cuts in the state budget.

The Continuing Resolution (CR) funding the federal government at FY 2025 levels, lapsed on Friday night and the government has partially shut down. The House is expected to vote on a deal by tomorrow that would fund the remaining appropriations bills with the CR for government agencies. With this deal, the President is anticipated to sign the package of already passed appropriations bills, including the bill that funds the Department of the Interior. RCA staff are closely monitoring progress, as RCA secured a significant victory within this bill.

In addition to continuing the funds of Section 6 Habitat Conservation Plans (HCP) land acquisitions at \$26 million, the bill contains report language that would direct U.S. Fish & Wildlife Service (USFWS) to fund its' commitments to HCPs like the MSHCP. This was half of what was requested by RCA. RCA had advocated heavily for the bill to enable discretionary funding above the annual \$26 million for HCP land acquisition so the USFWS could fund its' commitments to the MSHCP. Since that did not get included in the bill, the fight continues for federal funding to fund the balance of acres the USFWS have committed to acquire for the MSHCP.

To be clear, the report language is a strong message from Congress that adds to the momentum of advocacy. This is momentum that has been building since the RCA secured report language with the help of Congressman Ken Calvert in FY 2024 to direct the USFWS to provide accounting for the land acquisition commitments it has made to HCPs across the country, and their progress towards meeting those commitments. This was how RCA learned that the USFWS had made commitments to ten large-scale HCPs, including the MSHCP, and still has over 150,000 acres left to acquire or fund to meet those commitments. RCA's case for increased funding for Section 6 HCP land acquisitions is only strengthening.

Board Member Magee asked if RCA could expand their wish list for the USFWS and increase staffing for game wardens. The game wardens in the area are stretched extremely thin, and we should also be asking that their mission be expanded. If their true mission is to protect the resource, they should be working with all local jurisdictions on habitat degradation that is caused daily by the homeless community.

Aaron Hake, Executive Director, stated that it could be included in the advocacy as it is already covered in our platform under the broad language that was included. It was also pointed out that there were some big wins here, even though it has not resulted in money. The fact that RCA has report language in bills passed by Congress, which creates transparency and accountability is important. Thanks were given to our congressional congregation, Congressman Calvert, and RCA's legislative team.

Board Member Speake thought these were fantastic steps forward in getting what RCA needs. While this has been painfully slow, it is great to see us taking the next step. Congressman Calvert

has been a steadfast supporter in assuring this money comes forward. The homelessness issue brought forward is something that jurisdictions should not face alone, and we should continue to advocate for that.

Chair Bash added that there is now a new member of Congress, Norma Torres, in our district and wondered if any effort had been made to schedule a meeting. Tyler Madary shared that having represented part of Eastvale already, Norma Torres has been a part of RCA's outreach for a few years now. When the new lines become active, the district will now include a larger portion of Northwest Riverside County, so efforts will be continued and doubled.

This item is for the Board of Directors to receive and file an update on state and federal legislative affairs.

At this time, Board Member Yow arrived.

8. CITY OF MURRIETA FEE CREDIT REQUEST FOR THE MURRIETA HILLS SPECIFIC PLAN AMENDMENT PROJECT

Aaron Gabbe, Regional Conservation Director, provided a presentation on the city of Murrieta Fee Credit Request for the Murrieta Hills Specific Plan Amendment Project (Project). The RCA received a request for a Local Development Mitigation Fee (LDMF) credit for the Project from the city of Murrieta (City), in exchange for transferring to the RCA approximately 615 acres of lands that are described for conservation by the MSHCP which will count as Additional Reserve Lands (ARL). The Project is a 965-acre development project proposed by Pulte Homes. It is located south of Keller Road and west of Interstate 215.

The project proposes a maximum of 1,585 single family residences, a 10-acre commercial/office center, and approximately 59 acres of roadway development. Lands proposed for conservation are within the Lower Sedco Hills subunit of the Southwest Area Plan and Cell Group C. Conservation within this Cell Group will contribute to Linkage-8 and Proposed Linkage-16.

The RCA Board adopted MSHCP Mitigation Fee Implementation Manual provides criteria for fee credit. The request complies with the requirements in the Board's Policy.

Specifically:

- Fee credit cannot be awarded for conservation areas that are not considered developable land in the absence of the MSHCP.
- No fee credits are requested for conservation areas that are not considered developable land in the absence of the MSHCP. This includes approximately 69 acres of the 615 acres that will be protected as ARL that are not developable for reasons other than the MSHCP.
- Lands proposed for conservation are within Criteria Cells and will contribute to Reserve Assembly.
- Lands proposed for conservation are of appropriate size, configuration, and location to be managed as part of the MSHCP Reserve. This land is located within areas described by the MSHCP for conservation.

- Lands proposed for conservation do not include fuel modification areas, manufactured slopes, storm drains or other areas incompatible with conservation.
- The fee credit will “only be provided to the underlying property owner or development company at the time the fee applies and is not transferable to other entities, individuals, or development projects.”

The City’s fee credit request included an MSHCP-conforming appraisal of the conservation lands that the RCA agrees to accept and a letter of justification for the appraisal. The appraisal concluded a valuation of the land at \$62,435 per acre. The total value of the 546 acres that qualify for fee credits is \$34,095,753. The City estimates that LDMF for the project will total approximately \$3,000,000. Per the MSHCP Mitigation Fee Implementation Manual, the fee credit will be applied only to the project as described in the corresponding Joint Project Review document.

Per the MSHCP Mitigation Fee Implementation Manual, “Conservation land associated with approved Fee Credits shall be conveyed in fee title to the RCA or another entity or organization that can hold conservation easements. The conservation land shall be free of encumbrance that could adversely impact the ability to manage the conservation land in accordance with the MSHCP. Conveyance of the conserved land must occur prior to the point in time when MSHCP Fee payment is due for the Project, and the Member Agency shall not issue occupancy permits for the Project until the conservation land has been conveyed and any fee balance has been paid to the RCA. If a non-member agency holds title to the land, the entity must enter into a Management Memorandum of Understanding with the RCA agreeing to manage the land in accordance with the MSHCP prior to issuance of a grading permit for the Project.”

The City estimates that the LDMF for the Project will total approximately \$3,000,000. The actual amount cannot be determined because the City does not have the final development plans to calculate the LDMF fee. The fiscal impact is estimated to be a positive value of approximately \$31 million (approximately \$34 million in value of the land, minus approximately \$3 million in uncollected fees). Once timing of the land donation is known, staff will determine if a budget adjustment is needed to recognize the donation.

Per the MSHCP Mitigation Fee Implementation Manual, this fee credit shall only be applied to this Project.

Board Member Holliday acknowledged the work that went into this on behalf of RCA and city of Murrieta staff, but mostly the developer who agreed to what ends up being a generous donation to the RCA.

Jarrett Ramaiya, city of Murrieta, echoed the thanks already given to RCA staff, they have been a privilege to work with.

M/S/C (Wallace/Speake) to:

This item is for the Board of Directors to approve the fee credit request from the City of Murrieta for the Murrieta Hills Specific Plan and authorize the Executive Director to enter into a Fee Credit Agreement with the City of Murrieta on behalf of the RCA. Per the MSHCP Mitigation Fee Implementation Manual, this fee credit shall only be applied to this project.

9. WESTERN RIVERSIDE COUNTY MULTIPLE SPECIES HABITAT CONSERVATION PLAN RESERVE DESIGN

Harry Sandoval, Regional Conservation Deputy Director, provided a presentation on Fundamentals of Reserve Design. The MSHCP Reserve System is made up of six main components which are:

- Existing Cores - Large blocks of habitat that were already under public control or quasi-public ownership at the conception of the Plan.
- Proposed Cores - Large block of habitat identified for future reserve assembly.
- Extensions of Existing Cores - Blocks of habitat contiguous with an existing core, which will add onto existing core.
- Linkages - A connection between core areas of adequate size and configuration.
- Constrained Linkages - A constricted connection for movement between core areas.
- Non-contiguous Habitat Blocks - A block of habitat not connected to other habitat areas via a linkage or constrained linkage.

Each component that makes up the MSHCP Reserve System was crafted using the fundamental tenets of reserve design. The fundamental tenets of reserve design that are commonly used when determining what areas should be conserved include:

- Conserving target species and habitats;
- Size;
- Shape;
- Connectivity; and
- Preserving species diversity.

A primary factor in reserve design is consideration of the species that are intended to be protected. The MSHCP covers 146 species, some with similar habitat requirements and some with unique requirements. Habitat requirements of the various species to be conserved will dictate the location, size, configuration, and connectivity needs of a proposed reserve. The MSHCP Reserve System was designed to include a variety of habitats, some of which overlap such as in cores. Non-contiguous habitat blocks are not connected to other reserve areas and typically represent areas that contain unique habitat types.

Size is a fundamental component of reserve design. Larger reserves function better than smaller ones. Smaller habitat blocks typically have less habitat and diversity and less individuals of any given species. Larger core areas are more resistant to environmental changes and catastrophic events such as fires and floods. For example, only a portion of a larger reserve may burn during wildfire while a smaller reserve may burn entirely. Size is not just a concern when

considering cores but is also critical in linkages. The dimensions of a linkage, particularly the width, are vital to the functionality of a linkage. By conserving Proposed Cores and Extension of Existing Cores, the MSHCP will create a larger, more functional, resilient Reserve System than one comprised of smaller cores.

Connectivity is vital to the overall success of a regional reserve system. Linkages and corridors not only facilitate movement within a reserve system; they also help with gene flow. Gene flow reduces the risks of inbreeding within populations and avoids the risk of creating biological islands, which may ultimately not have long-term viability. Movement within conserved areas can also aid in resisting localized extinction events, as linkages and corridors can provide evacuation routes to safe areas in the event of catastrophic events such as fires. The MSHCP contemplated a vast network of linkages and corridors to connect core areas. Because of their reduced size, linear nature, and limited pathways, linkages and corridors are proving to be challenging to assemble.

When designing a Reserve System, it is important to consider habitat and species diversity. The MSHCP covers a great number of species and therefore requires conservation of diverse habitats. The goal of reserve design is conserving areas with great functional diversity. Functional diversity is a measure of the roles, traits, and functions that organisms perform in an ecosystem. Functional diversity supports ecosystem functions, such as nutrient cycling, carbon storage, and water cycling and purification, all of which humans rely upon. Different habitats and species contribute in different ways to the overall reserve system. Often, we find that some habitats or species perform critical ecological functions, such as kangaroo rats' significant contribution to seed banks or oak woodlands, which provide food and shelter for countless birds, mammals, and insects. Ultimately, the human communities of Western Riverside County will benefit from this protection of ecosystem functions, as will the MSHCP covered species and the habitats that they rely on.

The various components that make up the MSHCP Reserve System demonstrate that the fundamental tenets of reserve design were considered when planning out the Reserve System. The MSHCP provides Conservation Criteria, commonly known as Cell Criteria, which guides the assembly of the MSHCP Reserve System that when fully assembled, embodies the fundamentals of reserve design. The Plan provides criteria for each Criteria Cell or Cell Group that describes the amount of land, habitat types, and areas to be conserved. Fully assembling the Reserve System may take upwards of 40 years. The process of reserve assembly is like building a 500,000-acre puzzle, parcel by parcel, that when complete will form a regional, contiguous, functional ecosystem.

Vice Chair Spiegel wanted to know how big Coachella Valley Association of Governments' conservation area was compared to the MSHCP. Harry Sandoval did not recall, but it was smaller than the MSHCP. Staff will investigate this and report back to the Board.

Board Member Welty asked since this was developed 25 years ago, have there been changes in the system that the RCA would need to review and adjust the Criteria Cells. Harry Sandoval stated that there have not been any major changes, however, the amendment the Strategic

Improvement Assessment and Action Plan (SIAAP) contemplated will be looking at that, considering what has changed since the Plan’s inception.

Board Member Lock Dawson appreciated staff bringing this forward, having been there at the beginning, the creation of these cells was very scientifically based on regional species. There was also some very robust genetic analysis that went into the creation of these linkages.

Board Member Speake thought this was the perfect way to present this to the Board.

This item is for the Board of Directors to receive a presentation on the concepts employed in Reserve Design, which are utilized by the Western Riverside Multiple Species Habitat Conservation Plan (MSHCP).

10. BOARD OF DIRECTORS / EXECUTIVE DIRECTOR REPORT

Aaron Hake thanked the Deputy Clerks for running the meeting in Lisa Mobley’s absence.

Board Member Magee wanted to announce that on Wednesday, the Riverside County Planning Department will be having a workshop, their first step towards modifying the General Plan Amendment Process. They should be commended for that, the development community will be thrilled, and the eight-year cycle may be a thing of the past. It was asked if RCA staff had heard from Dan Silver or any of the resource agencies in relation to the proposal.

Aaron Hake stated that staff had not heard anything yet but would monitor the situation.

11. CLOSED SESSION

At this time, Steve DeBaun, legal counsel, announced the Board will be going in to Closed Session to discuss the property item on the agenda.

11A. CONFERENCE WITH REAL PROPERTY NEGOTIATORS

Pursuant to Government Code Section 54956.8

Agency Negotiator: Executive Director or Designee

Item	Property Description	Property Owner	Buyer(s)
1	308-140-008	PLH Vineyard Sky, LLC, a Florida Limited Liability Company	RCA

11B. REPORT OUT FROM CLOSED SESSION

There were no announcements from Closed Session.

12. ADJOURNMENT

There being no further business for consideration by the Western Riverside County Regional Conservation Authority Board of Directors, Chair Bash adjourned the meeting at 1:13 p.m.

The next meeting of the Board of Directors is scheduled to be held on **Monday, March 2, 2026.**

Respectfully submitted,

A handwritten signature in black ink that reads "Melonie Donson". The signature is written in a cursive, flowing style.

Melonie Donson
Deputy Clerk of the Board

AGENDA ITEM 6B

WESTERN RIVERSIDE COUNTY REGIONAL CONSERVATION AUTHORITY	
DATE:	April 6, 2026
TO:	Western Riverside County Regional Conservation Authority
FROM:	Genivive Schwarzkopf, Accounting Supervisor Daniel Hernandez, Financial Administration Manager Jennifer Fuller, Deputy Director of Finance
THROUGH:	Aaron Hake, Executive Director
SUBJECT:	Western Riverside County Multiple Species Habitat Conservation Plan Fee Collection Report for December 2025

STAFF RECOMMENDATION:

This item is for the Board of Directors to receive and file the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) Fee Collection report for December 2025.

BACKGROUND INFORMATION:

The Western Riverside County MSHCP Local Development Mitigation Fee (LDMF) collections provide funding for the acquisition of additional reserve lands and related costs. Below is a summary of the current year budget and collections for the month of December 2025 and year-to-date:

Revenue	FY 2025-26 Amended Budget	Collections for the month of Dec 2025	FY 2025-26 Year-to-Date
Local Development Mitigation Fees	\$ 25,600,000	\$ 1,518,364	\$ 6,510,883
Civic and Infrastructure Contributions	960,000	224,771	916,639
Collections for Dec 2025		\$ 1,743,135	
Collections Year-to-Date thru Dec 2025			\$ 7,427,522

Attached is a report detailing by Member Agency the LDMF Collection and Civic/Infrastructure Contribution for December 2025.

FISCAL IMPACT:

There is no fiscal impact on the receipt and file of this fee collection report.

Attachment: Western Riverside County MSHCP LDMF Collection and Civic/Infrastructure Contribution Report for December 2025

**WESTERN RIVERSIDE COUNTY MSHCP LDMF COLLECTION AND CIVIC/INFRASTRUCTURE CONTRIBUTION REPORT
FOR DECEMBER 2025**

Amounts subject to rounding

LOCAL DEVELOPMENT MITIGATION FEE COLLECTIONS									
City/County	Month	REMITTED				EXEMPTIONS & FEE CREDITS			
		Residential Permits	ADUs/ Additions	Commercial Industrial Acres	Amount Remitted	Total FY 26 Year-to-Date	Residential Permits	Commercial Industrial Acres	Amount
City of Banning	Oct-Pending November	13		0.51	\$ - 68,615	\$ 231,463			
City of Beaumont	July-Pending Aug-Pending Nov-No Activity Prior year				- - - 1,337	1,337			
City of Calimesa	October Nov-No Activity		1		2,320 -	4,133			
City of Canyon Lake	Nov- No Activity				-	8,972			
City of Corona	October Nov-Pending Prior year		1		2,115 - 4,197	120,498			
City of Eastvale	October November Refund	112 6			177,107 11,220 (34,864)	206,220			
City of Hemet	November		1		3,077	121,845			
City of Jurupa Valley	Oct-Pending Nov-Pending				- -	244,700			
City of Lake Elsinore	November	4		1.08	39,750	478,177			
City of Menifee	October November Prior year	65 52	1	1.00 2.02	270,070 230,150 69	1,157,328			
City of Moreno Valley	Oct-Pending Nov-Pending				- -	304,956			
City of Murrieta	October November Refund	1		1.00	20,191 4,486 (1,450)	181,567			
City of Norco	November		1		3,845	26,520			
City of Perris	November	29		1.21	154,525	591,332			
City of Riverside	July-Pending Aug-Pending Sept-Pending Oct-Pending Nov-Pending				- - - - -	-			
City of San Jacinto	November	14	1		65,555	455,837			
City of Temecula	September Oct-Pending Nov-No Activity Roripaugh DA ¹	8			14,960 - - -	53,852	3		\$ 13,458
City of Wildomar	Nov-Pending				-	5,742			
County of Riverside	December	81	7	4.78	481,088	2,316,406			
Total LDMF Collections		385	13	11.60	\$ 1,518,364	\$ 6,510,883			\$ 13,458

CIVIC AND INFRASTRUCTURE CONTRIBUTIONS				Total FY 26 Year-to-Date
Murrieta	Murrieta Library Expansion		\$ 4,624	\$ 4,624
Flood Control	Box Springs MDP Line D Stage 1 Project		220,147	220,147
Prior Civic and Infrastructure contributions from Member				691,868
Total Civic/Infrastructure Contributions			\$ 224,771	\$ 916,639

TOTAL DECEMBER 2025 \$ 1,743,135 \$ 7,427,522

¹ Roripaugh Development Agreement dated 12/17/02. Project is exempt under Assessment District 161.

AGENDA ITEM 6C

WESTERN RIVERSIDE COUNTY REGIONAL CONSERVATION AUTHORITY	
DATE:	April 6, 2026
TO:	Western Riverside County Regional Conservation Authority
FROM:	Genivive Schwarzkopf, Accounting Supervisor Daniel Hernandez, Financial Administration Manager Jennifer Fuller, Deputy Director of Finance
THROUGH:	Aaron Hake, Executive Director
SUBJECT:	Western Riverside County Multiple Species Habitat Conservation Plan Fee Collection Report for January 2026

STAFF RECOMMENDATION:

This item is for the Board of Directors to receive and file the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) Fee Collection report for January 2026.

BACKGROUND INFORMATION:

The Western Riverside County MSHCP Local Development Mitigation Fee (LDMF) collections provide funding for the acquisition of additional reserve lands and related costs. Below is a summary of the current year budget and collections for the month of January 2026 and year-to-date:

Revenue	FY 2025-26 Amended Budget	Collections for the month of Jan 2026	FY 2025-26 Year-to-Date
Local Development Mitigation Fees	\$ 25,600,000	\$ 1,329,235	\$ 7,840,118
Civic and Infrastructure Contributions	960,000	3,029	919,668
Collections for Jan 2026		\$ 1,332,264	
Collections Year-to-Date thru Jan 2026			\$ 8,759,786

Attached is a report detailing by Member Agency the LDMF Collection and Civic/Infrastructure Contribution for January 2026.

FISCAL IMPACT:

There is no fiscal impact on the receipt and file of this fee collection report.

Attachment: Western Riverside County MSHCP LDMF Collection and Civic/Infrastructure Contribution Report for January 2026

**WESTERN RIVERSIDE COUNTY MSHCP LDMF COLLECTION AND CIVIC/INFRASTRUCTURE CONTRIBUTION REPORT
FOR JANUARY 2026**

Amounts subject to rounding

LOCAL DEVELOPMENT MITIGATION FEE COLLECTIONS									
City/County	Month	REMITTED				EXEMPTIONS & FEE CREDITS			
		Residential Permits	ADUs/ Additions	Commercial Industrial Acres	Amount Remitted	Total FY 26 Year-to-Date	Residential Permits	Commercial Industrial Acres	Amount
City of Banning	October	8			\$ 35,888	\$ 431,722			
	December	26		2.65	164,371				
City of Beaumont	July	1	1		8,249	171,038			
	August			0.22	4,442				
	December	35			157,010				
City of Calimesa	Dec-No Activity				-	4,133			
City of Canyon Lake	Dec-No Activity				-	8,972			
City of Corona	November	2	2		13,340	133,838			
	Dec-Pending				-				
City of Eastvale	Dec-No Activity				-	206,220			
City of Hemet	Dec-No Activity				-	121,967			
	Prior year				122				
City of Jurupa Valley	Oct-Pending				-	331,396			
	November	31	2		86,696				
	Dec-Pending				-				
City of Lake Elsinore	December	9			22,062	500,239			
City of Menifee	December	18	1	4.44	172,592	1,329,920			
City of Moreno Valley	October		1	4.36	90,841	454,500			
	November	10	2	0.48	58,703				
	Dec-Pending				-				
City of Murrieta	Dec-No Activity				-	181,567			
City of Norco	Dec-No Activity				-	26,520			
City of Perris	December	8	2		40,945	632,277			
City of Riverside	July-Pending				-	-			
	Aug-Pending				-				
	Sept-Pending				-				
	Oct-Pending				-				
	Nov-Pending				-				
	Dec-Pending				-				
City of San Jacinto	December	23			103,178	559,015			
City of Temecula	Oct-Pending				-	53,852			
	Dec-Pending				-				
City of Wildomar	Nov-Pending				-	5,742			
	Dec-No Activity				-				
County of Riverside	January	42	4	10.7	370,796	2,687,202			
	Total LDMF Collections	213	15	22.85	\$ 1,329,235	\$ 7,840,118			\$ -

CIVIC AND INFRASTRUCTURE CONTRIBUTIONS			Total FY 26 Year-to-Date
Moreno Valley	Corporate Yard - New Office Building F	\$ 3,029	\$ 3,029
		-	-
Prior Civic and Infrastructure contributions from Member			916,639
Total Civic/Infrastructure Contributions		\$ 3,029	\$ 919,668

TOTAL JANUARY 2026 \$ 1,332,264 \$ 8,759,786

AGENDA ITEM 6D

WESTERN RIVERSIDE COUNTY REGIONAL CONSERVATION AUTHORITY

DATE:	April 6, 2026
TO:	Western Riverside County Regional Conservation Authority
FROM:	Leslie Levy, Senior Management Analyst
THROUGH:	Aaron Hake, Executive Director
SUBJECT:	Joint Project Review Status Report

STAFF RECOMMENDATION:

This item is for the Board of Directors to receive and file the Joint Project Review (JPR) monthly status report as of February 28, 2026.

BACKGROUND INFORMATION:

Consistent with the Board’s priority on transparency and communication, staff are providing a monthly report on the status of JPRs and other Multiple Species Habitat Conservation Plan (MSHCP) compliance processes. This staff report provides completed activities for 2025 and provides activities in 2026 through February 28, 2026.

The RCA processes Habitat Acquisition Negotiation Strategy (HANS) analyses in the form of JPRs as well as Participating Special Entity (PSE) applications and Criteria Refinements. The included attachments summarize MSHCP compliance review the RCA has completed in 2025, and each type of MSHCP compliance review the RCA has performed in 2026.

In 2025, staff completed 40 JPRs (32 Development and eight Non-development HANS), one PSE, and zero Criteria Refinements. In 2026, staff completed two JPRs (two Development and zero Non-development HANS), zero PSEs, and zero Criteria Refinements. RCA is in the process of reviewing 19 JPRs (19 Development HANS and zero Non-development HANS), four PSEs, and zero Criteria Refinements.

FISCAL IMPACT:

This is an information item. There is no fiscal impact.

Attachments:

- 1) RCA MSHCP Compliance Projects Processed in 2025
- 2) RCA MSHCP Compliance Project Processing from January 1, 2026 thru February 28, 2026.

RCA MSHCP Compliance Project Processed in 2025

Completed in 2025
DEVELOPMENT HANS¹
PUBLIC PROJECTS (Total 9) <ul style="list-style-type: none"> ✓ Auto Center Drive Bridge Seismic Retrofit ✓ Bedford Canyon Channel Stage I ✓ Cajalco Road Widening and Safety Enhancement ✓ Ethanac Road Crossing (Bridge) ✓ Gilman Springs Road Bridge Replacement ✓ Interstate-15 Express Lanes Project - Southern Extension ✓ Skyview Road Pedestrian Bridge Second Amendment ✓ Temescal Canyon Road Widening - El Cerrito Segment ✓ Temecula Fire Station 73
PRIVATE PROJECTS (Total 23) <ul style="list-style-type: none"> ✓ Calimesa - 1 ✓ Corona - 1 ✓ County - 10 ✓ Jurupa Valley - 1 ✓ Lake Elsinore - 2 ✓ Perris - 4 ✓ San Jacinto - 1 ✓ Temecula - 3
NON-DEVELOPMENT HANS²
PRIVATE PROJECTS (Total 8) <ul style="list-style-type: none"> ✓ County - 7 ✓ Wildomar - 1
PARTICIPATING SPECIAL ENTITY
PUBLIC PROJECTS (Total 1) <ul style="list-style-type: none"> ✓ California Department of Water Resources Perris Dam Emergency Release Facility
PRIVATE PROJECTS (Total 0) None in 2025

¹ A project is proposed on the property.

² No project is proposed on the property and these HANS involve only private entities.

Completed in 2025
CRITERIA REFINEMENTS³
PUBLIC PROJECTS (Total 1) None in 2025
PRIVATE PROJECTS (Total 0) None in 2025

³ Triggered when a proposed project wants to develop on lands that are described to go into the MSHCP reserve.

**RCA MSHCP Compliance Project Processing from
January 1, 2026 thru February 28, 2026**

Actively in Process	Completed in 2026
DEVELOPMENT HANS¹	
PUBLIC PROJECTS (Total 5) <ul style="list-style-type: none"> ➤ Clinton Keith Road Widening ➤ Overland Drive Widening ➤ Riverside Transmission Reliability Project Amendment ➤ State Route-60/Pyrite Street Interchange ➤ Ynez Road Improvements Phase I 	PUBLIC PROJECTS (Total 1) <ul style="list-style-type: none"> ✓ Perris Valley Storm Drain Channel Trail Phase II Amendment
PRIVATE PROJECTS (Total 14) <ul style="list-style-type: none"> ➤ Beaumont – 1 ➤ Calimesa – 2 ➤ County – 7 ➤ Jurupa Valley – 2 ➤ Perris – 1 ➤ Temecula – 1 	PRIVATE PROJECTS (Total 1) <ul style="list-style-type: none"> ✓ County – 1
NON-DEVELOPMENT HANS²	
PRIVATE PROJECTS (Total 0) None in process	PRIVATE PROJECTS (Total 0) None to date in 2026
PARTICIPATING SPECIAL ENTITY	
PUBLIC PROJECTS (Total 4)	PUBLIC PROJECTS (Total 0)

¹ A project is proposed on the property.

² No project is proposed on the property and these HANS involve only private entities.

Actively in Process	Completed in 2026
<ul style="list-style-type: none"> ➤ Rancho California Water District - Vail Dam Seismic and Hydrologic Remediation ➤ Southern California Edison - Saddleback 33kV Interset Pole ➤ Southern California Edison - Alberhill System ➤ San Diego Gas and Electric - Moreno Compressor Station Modernization 	None to date in 2026
PRIVATE PROJECTS (Total 0) None in process	PRIVATE PROJECTS (Total 0) None to date in 2026
CRITERIA REFINEMENTS³	
PUBLIC PROJECTS (Total 0) None in process	PUBLIC PROJECTS (Total 0) None to date in 2026
PRIVATE PROJECTS (Total 0) None in process	PRIVATE PROJECTS (Total 0) None to date in 2026

³ Triggered when a proposed project wants to develop on lands that are described to go into the MSHCP reserve.

AGENDA ITEM 6E

WESTERN RIVERSIDE COUNTY REGIONAL CONSERVATION AUTHORITY	
DATE:	April 6, 2026
TO:	Western Riverside County Regional Conservation Authority
FROM:	Angela Ferreira, Senior Management Analyst Hector Casillas, Right of Way Manager
THROUGH:	Aaron Hake, Executive Director
SUBJECT:	Acquisitions Status Report

STAFF RECOMMENDATION:

This item is for the Board of Directors to receive and file the acquisition status report for the months of December 2025 and January 2026.

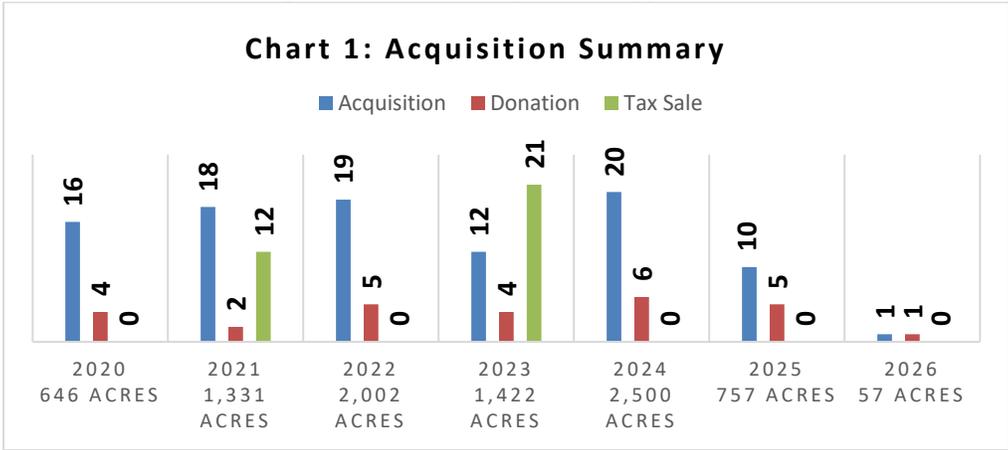
BACKGROUND INFORMATION:

The Board of Directors requested the Right of Way Department provide a monthly report of the status of various acquisitions.

For the final reporting period of the 2025 calendar year, ten parcels were acquired through acquisition, five through donation, and one conservation easement. The ten acquisitions added approximately 640 acres to the reserve, the five donations added 51 acres, and the conservation easement added 66 acres for a total of 757 acres.

For the new 2026 calendar year reporting period, one parcel has been acquired through acquisition, and one through donation. The one acquisition added 14 acres, and the donation added 43 acres for a total of 57 acres. As of January 31, 2026, staff are managing 33 active acquisitions.

Chart 1 displays acquisition summaries from 2020 through 2026 to include land acquired through acquisition, donation, and tax sale. Additionally, Chart 1 captures the total number of acres brought into the reserve through the various acquisition types.

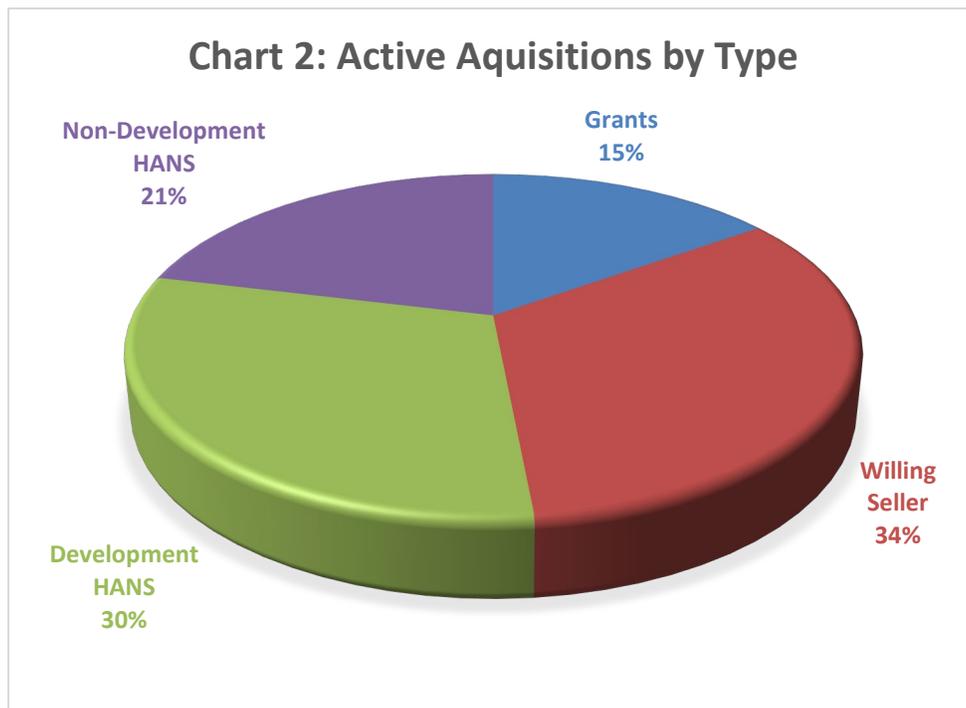


Federal, state, and local commitments to the MSHCP continue to progress. The federal government has committed to conserving 25,000 acres, and the state has committed to 31,000 acres. To date, a combined total of 26,706 acres has been conserved, representing approximately 48% of the federal and state commitments. At the local level, RCA has pledged to conserve 153,000 acres and has currently achieved 47% of that goal.

Attachment 1 provides individual property details by type including location, owner representative, and acreage for active parcels as of January 31, 2026. The parcels are listed by the proposed close of escrow date, if applicable.

As shown in Attachment 2, the closed escrows are presented chronologically, with five in December and two in January.

Chart 2 illustrates the active acquisitions by type: grant-funded, development HANS, non-development HANS, and willing seller.



While this agenda item is through January 2026, real-time tracking of reserve assembly, active projects, and total acres conserved to date, is available at the following link: [Public Dashboard](#) .

FISCAL IMPACT:

This item is for informational purposes only. There is no fiscal impact.

Attachments:

- 1) Status of Right of Way Acquisitions as of January 31, 2026
- 2) Map of Closed Escrow for December 2025 and January 2026

Western Riverside County Regional Conservation Authority
Status of Acquisitions
As of January 31, 2026

Project Number	Location	Supervisorial District	Owner Representative	Acreage
Grants				
R23119	Murrieta	District 3	Eric Washle	91.20 acres
R22570	Lake Elsinore	District 1	N/A	953.00 acres
R22404	San Jacinto	District 5	Garret Sauls	161.66 acres
R22405	San Jacinto	District 5	Garret Sauls	625.87 acres
R22533	Aguanga	District 3	Stephen Haw	163.93 acres

Development HANS				
R22171	Hemet	District 3	Ed Sauls	65.18 acres
R22539	Winchester	District 3	N/A	20.00 acres
R22526	Lake Elsinore	District 1	Garret Sauls	124.19 acres
R22517	French Valley	District 3	Garret Sauls	163.80 acres
R22581	Nuevo	District 5	Garret Sauls	231.20 acres
R22583	Lake Elsinore	District 1	Garret Sauls	20.40 acres
R22585	Murrieta	District 3	Garret Sauls	58.03 acres
R22586	Murrieta	District 3	Garret Sauls	18.75 acres
R22593	Murrieta	District 3	Garret Sauls	19.44 acres
R22158	Hemet	District 3	Garret Sauls	1026.10 acres

Non-Development HANS				
R22419	Aguanga	District 3	Garret Sauls	80.00 acres
R22428	Hemet	District 3	Garret Sauls	240.00 acres
R22574	Wildomar	District 3	Garret Sauls	34.69 acres
R22578	Aguanga	District 3	Garret Sauls	170.31 acres
R22579	Hemet	District 5	Garret Sauls	35.00 acres
R22582	San Jacinto	District 5	Garret Sauls	2.29 acres
R22584	Sage	District 5	Garret Sauls	80.00 acres

Willing Seller				
R22446	Beaumont	District 5	N/A	150.00 acres
R22546	Menifee	District 3	N/A	17.98 acres
R22518	Sage	District 3	N/A	14.00 acres
R22577	Wildomar	District 1	Mike Pizzagani	158.00 acres
R22587	Hemet	District 3	N/A	23.85 acres
R22588	Hemet	District 3	Garret Sauls	18.64 acres
R22589	Corona	District 2	N/A	20.00 acres
R22590	Corona	District 2	N/A	20.00 acres
R22591	Hemet	District 3	N/A	3.41 acres
R22592	Aguanga	District 3	Ed Sauls	428.72 acres
R21141	San Jacinto	District 4	Garret Sauls	154.78 acres



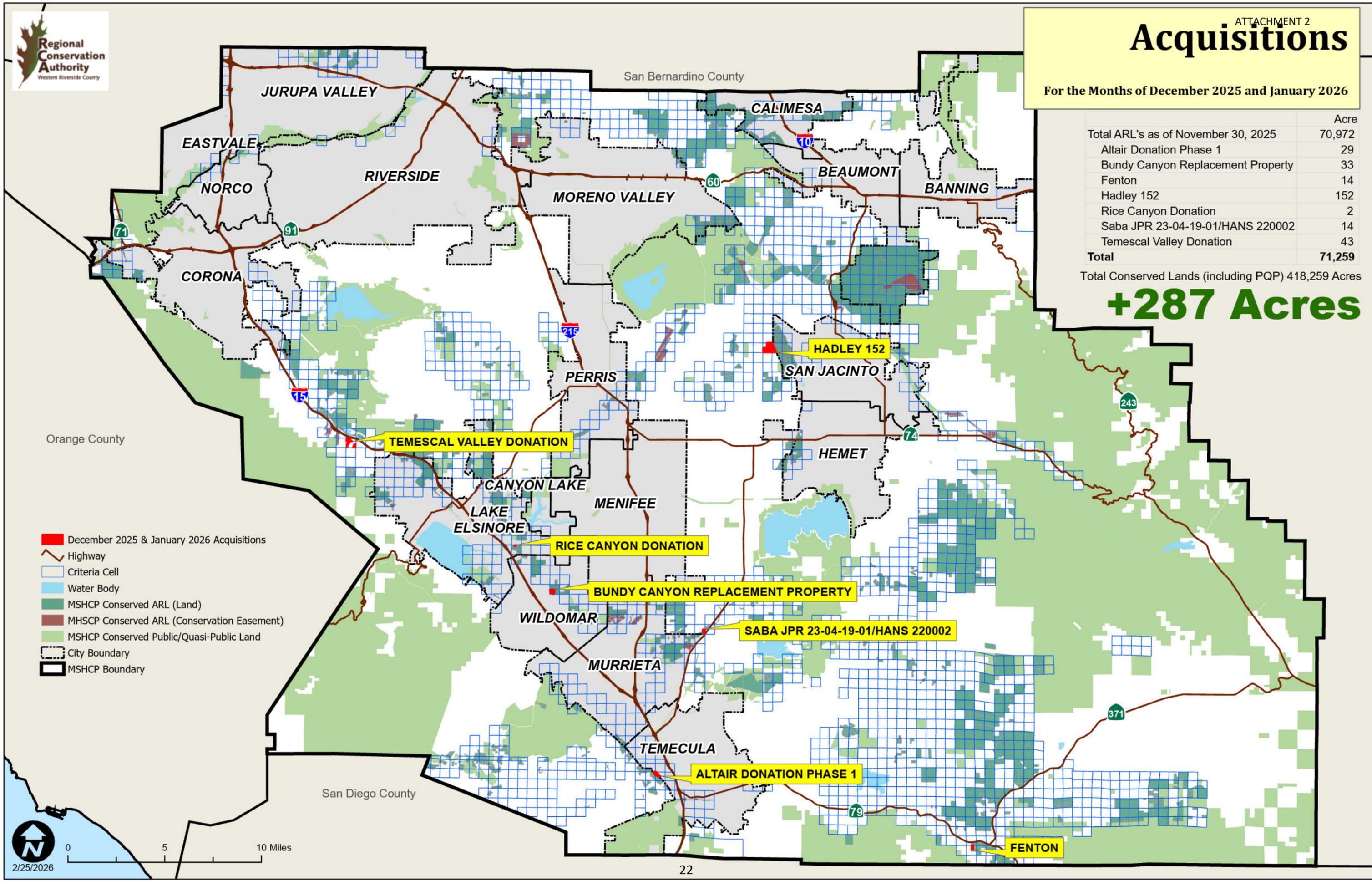
ATTACHMENT 2 Acquisitions

For the Months of December 2025 and January 2026

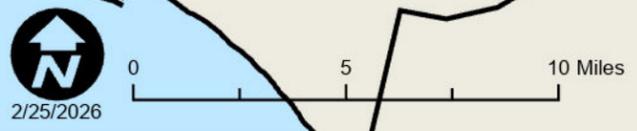
	Acre
Total ARL's as of November 30, 2025	70,972
Altair Donation Phase 1	29
Bundy Canyon Replacement Property	33
Fenton	14
Hadley 152	152
Rice Canyon Donation	2
Saba JPR 23-04-19-01/HANS 220002	14
Temescal Valley Donation	43
Total	71,259

Total Conserved Lands (including PQP) 418,259 Acres

+287 Acres



- December 2025 & January 2026 Acquisitions
- Highway
- Criteria Cell
- Water Body
- MSHCP Conserved ARL (Land)
- MSHCP Conserved ARL (Conservation Easement)
- MSHCP Conserved Public/Quasi-Public Land
- City Boundary
- MSHCP Boundary



AGENDA ITEM 6F

WESTERN RIVERSIDE COUNTY REGIONAL CONSERVATION AUTHORITY	
DATE:	April 6, 2026
TO:	Western Riverside County Regional Conservation Authority
FROM:	Genivive Schwarzkopf, Accounting Supervisor Daniel Hernandez, Financial Administration Manager Jennifer Fuller, Deputy Director of Finance
THROUGH:	Aaron Hake, Executive Director
SUBJECT:	Monthly Investment Report for December 2025

STAFF RECOMMENDATION:

This item is for the Board of Directors to receive and file the Monthly Investment Report for the month ended December 31, 2025.

BACKGROUND INFORMATION:

Per RCA Resolution No. 2025-001, an investment portfolio report shall be provided to the Board monthly. All of RCA’s investments are managed by the County of Riverside Treasurer through the Riverside County Pooled Investment Fund.

The monthly investment report for December 2025, as required by state law and Board policy, reflects the investment activities resulting from available operating cash and endowments. As of December 31, 2025, RCA’s cash and investments were comprised of the following:

CASH AND INVESTMENTS PORTFOLIO	AMOUNTS
Operating	\$ 78,851,040
Trust	31,077,012
Total	\$ 109,928,052

The monthly investment report includes the following information:

- Investment Portfolio Report;
- County of Riverside Investment Report for the Month Ended December 31, 2025.

RCA’s investments were in full compliance with the Board’s investment policy adopted on January 6, 2025. Additionally, RCA has adequate cash flows for the next six months.

FISCAL IMPACT:

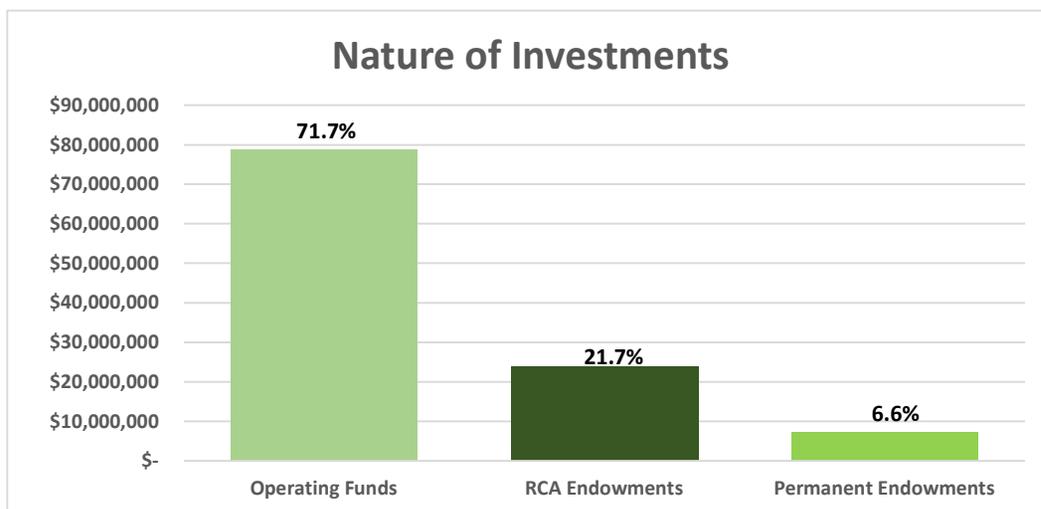
This is an information item. There is no fiscal impact.

Attachments:

- 1) Investment Portfolio Report
- 2) County of Riverside Investment Report for the Month Ended December 31, 2025

Western Riverside County Regional Conservation Authority
 Investment Portfolio Report
 Period Ended: December 31, 2025

	INVESTMENT BALANCE	RATING FITCH	COUPON RATE	YIELD TO MATURITY
OPERATING FUNDS				
County Treasurer's Pooled Investment Fund:				
Operating Funds	\$ 78,851,040	AAAf-S1	N/A	3.83%
Subtotal Operating Funds	<u>78,851,040</u>			
FUNDS HELD IN TRUST				
County Treasurer's Pooled Investment Fund:				
RCA Endowments	23,804,276	AAAf-S1	N/A	3.83%
Permanent Endowments	7,272,736	AAAf-S1	N/A	3.83%
Subtotal Funds Held in Trust	<u>31,077,012</u>			
TOTAL CASH AND INVESTMENTS	<u>\$ 109,928,052</u>			





County of Riverside

TREASURER-TAX COLLECTOR'S
POOLED INVESTMENT FUND
DECEMBER 2025 REPORT



INVESTMENT RESULTS

Objective

The Fund seeks to safeguard the principal of the funds under the Treasurer's control, meet the liquidity needs of the depositors, and to maximize a return on the funds within the given parameters. The Fund invests exclusively in high-quality, short-term securities maturing within 5 years. The Fund is comprised of contributions from the county, schools, special districts, and other discretionary depositors throughout the County of Riverside. The Fund is in full compliance with the Treasurer-Tax Collector Statement of Policy and California Government Code.

\$ 16.82bn
Market Value

\$ 16.75bn
Principal

\$ 70.59M
Unrealized Gain/Loss

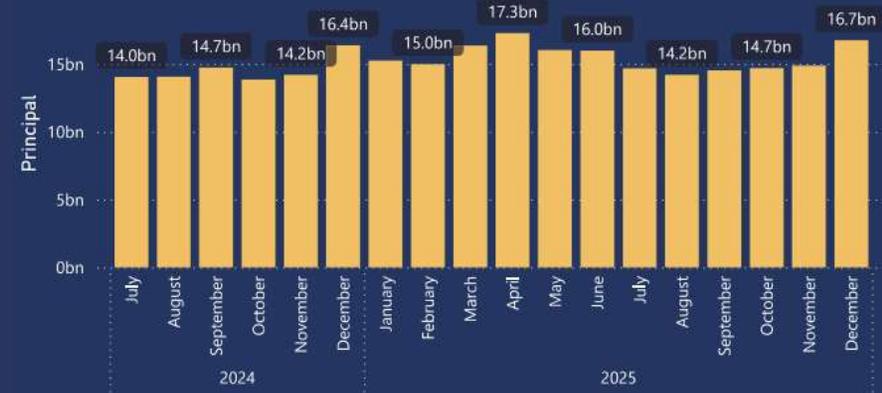
0.42
Unrealized Gain/Loss %

3.83
YTM %

1.36
WAM (Yrs)

Rated AAAf/S1 by Fitch Ratings, one of the nation's most trusted bond credit rating services.

Historical Fund Size



Purchase Yield vs TIMMI Index



Federal Home Loan Mortgage Corporation

2,514,402,016.79

Federal Home Loan Banks

2,295,532,506.85

Federal National Mortgage Association

1,954,934,381.00

Federal Farm Credit Banks Funding Corporat...

1,531,026,043.64

United States

1,151,069,150.20

BONY

1,000,000,000.00

Toronto-Dominion Bank - New York Branch

640,000,000.00

National Securities Clearing Corporation

639,555,920.84

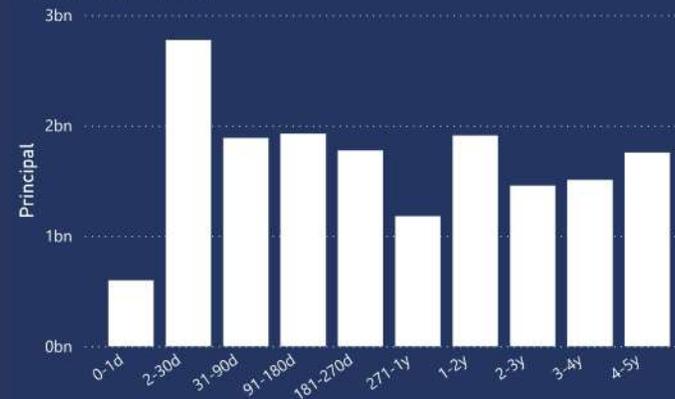
J.P. Morgan Securities LLC

545,000,000.00

Royal Bank of Canada New York Branch

537,157,500.00

Principal by Maturity



Cash Flows

Month-Year	Projected Receipts	Projected Maturities	Projected Payments	Net Cash
Jan-26	2,392,193,435.89	3,055,822,518.60	4,018,725,820.10	1,429,290,134.39
Feb-26	2,261,460,049.45	1,263,183,385.04	2,651,870,781.06	872,772,653.43
Mar-26	3,870,232,060.80	622,420,156.32	2,705,207,128.96	1,787,445,088.16
Apr-26	4,581,850,351.16	199,896,168.94	3,818,208,852.95	963,537,667.14
May-26	1,418,410,086.58	1,074,046,996.89	2,906,956,488.14	-414,499,404.67
Jun-26	2,007,976,363.45	649,985,791.66	2,142,070,979.35	515,891,175.76
Jul-26	962,081,118.65	644,077,315.57	2,457,489,509.58	-851,331,075.36
Aug-26	1,320,079,187.43	427,161,558.29	1,760,677,804.44	-13,437,058.72
Sep-26	1,801,447,468.42	731,874,463.79	1,581,578,414.83	951,743,517.38
Oct-26	2,061,594,726.18	632,366,453.59	1,891,493,182.82	802,467,996.95
Nov-26	1,881,779,558.41	120,858,789.93	1,627,499,466.46	375,138,881.89
Dec-26	4,072,710,339.58	295,749,555.63	2,008,414,648.51	2,360,045,246.70
Total	28,631,814,745.99	9,717,443,154.25	29,570,193,077.20	8,779,064,823.04



Holdings Summary

Category	Principal	WAM	YTM
Agency	8,355,886,398.28	2.37	3.89
CD	1,995,000,000.00	0.30	3.86
Corporate	230,830,760.28	1.35	4.11
CP	3,135,072,284.00	0.23	3.89
MM Fund	282,187,500.00	0.00	3.74
Muni	99,295,846.67	0.65	4.32
Mutual Fund	313,000,000.00	0.00	3.81
Non-US Gov	187,468,049.14	1.19	4.41
Repo	1,000,000,000.00	0.01	3.75
US Gov	1,151,069,150.20	0.88	3.13
Total	16,749,809,988.57	1.36	3.83

Treasury Rates

● FED TARGET RATE ● 3-MO UST ● 2-YR UST



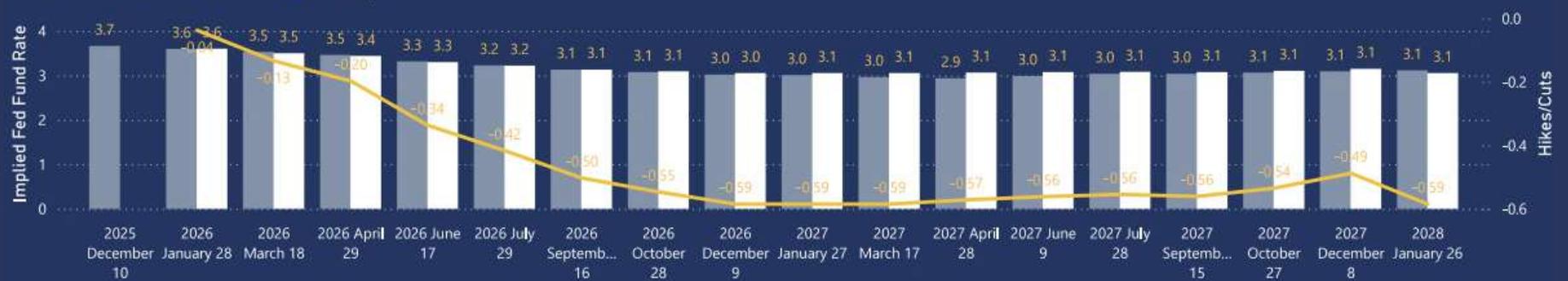
US Treasury Yield Curve

● Start of Month ● End of Month



Implied Fed Funds Rate and Rate Change

● Start of Month ● End of the Month ● Rate Cuts/Hikes



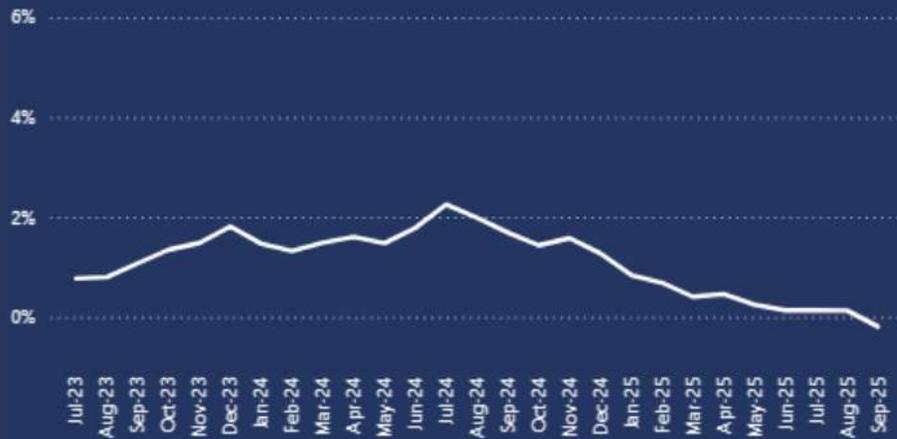


ECONOMICS

U.S. Unemployment Rates (%)

September			
2024	4.10	5.50	5.30
Year	United States	California	Riverside County
2025	4.40	5.60	5.90
Year	United States	California	Riverside County

Riverside MSA Nonfarm Payroll (%Change)



U.S. Initial Jobless Claims by Month-Year



COMPLIANCE STATEMENT

The Treasurer's Pooled Investment Fund was in full compliance with the County of Riverside Treasurer's Statement of Investment Policy. The County's Statement of Investment Policy is more restrictive than California State Government Code 53646. The County's Investment Policy is reviewed annually by the County of Riverside's Oversight Committee and approved by the Board of Supervisors.

Since its inception, the Treasurer's Pooled Investment Fund has been in full compliance with the Treasurer's Statement of Investment Policy.

Investment Category	Gov. Authorized % Limit	Gov. Code Maximum Maturity	Gov. Ratings	Co. Authorized % Limit	Co. Maximum Maturity	Co. Ratings	Pool Principal %
U.S. TREASURIES	NO LIMIT	5 YEARS	NA	100%	5 YEARS	NA	6.87%
REVERSE REPOS	20%	92 DAYS	NA	10%	60 DAYS	NA	
REPURCHASE AGREEMENTS (REPO)	NO LIMIT	1 YEARS	NA	40% max, 25% in term repo over 7 days	45 DAYS	NA	5.97%
NEGOTIABLE CERTIFICATE OF DEPOSITS & COLLATERALIZED TIME DEPOSITS (NCD & TCD)	30%	5 YEARS	NA	20%	2 YEAR	A1/P1/F1	11.91%
MUNICIPAL BONDS (MUNI)	NO LIMIT	5 YEARS	NA	15%	5 YEARS	AA-/Aa3/AA-	0.59%
MONEY MARKET MUTUAL FUNDS (MMF)	20%	60 DAYS (1)	AAA/Aaa (2)	20%	DAILY LIQUIDITY	AAA by 2 Of 3 RATINGS AGC.	1.68%
MEDIUM TERM NOTES (MTNO) CORPORATE NOTES	30%	5 YEARS	A	20%	4 YEARS	A/A2/A	1.38%
LOCAL AGENCY OBLIGATIONS (LAO)	NO LIMIT	5 YEARS	NA	2.5%	3 YEARS	INVESTMENT GRADE	
LOCAL AGENCY INVESTMENT FUND (LAIF)	NA	NA	NA	Max \$50 million	DAILY LIQUIDITY	NA	
INT'L BANK FOR RECONSTRUCTION AND DEVELOPMENT, INT'L FINANCE CORPORATION, AND INTER-AMERICAN DEVELOPMENT BANK	NA	NA	NA	20%	5 YEARS	AA/Aa/AA	1.12%
FEDERAL AGENCIES	NO LIMIT	5 YEARS	AAA	100%	5 YEARS	NA	49.89%
COMMERCIAL PAPER (CP)	40%	270 DAYS	A1/P1	40%	270 DAYS	A1/P1/F1	18.72%
CASH/DEPOSIT ACCOUNT	NA	NA	NA	20%	NA	NA	
CALTRUST SHORT TERM FUND	NA	NA	NA	1%	DAILY LIQUIDITY	NA	1.87%
Total							100.00%





INVESTMENT TEAM

The sound investment of public funds, fair, efficient tax collection, and exceptional public service

Matthew Jennings
Treasurer-Tax Collector

Giovane Pizano

Assistant Treasurer-Tax Collector

John Byerly

Chief Investment Officer

Steve Faeth

Senior Investment Officer

Isela Licea
Investment Officer



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TREASURER-TAX COLLECTOR
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COUNTY ADMINISTRATIVE CENTER

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Jessica Roberson

Content Creator



Paola Vertiz

Managing Editor



Agency
AGCY BOND

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
3136GC4L6	FEDERAL NATIONAL MORTGAGE ASSOCIATION	4.240	99.9258	11/13/2030	25,000,000.00	25,000,000.00	24,981,450.00	25,000,000.00	(18,550.00)
3130B8BF8	FEDERAL HOME LOAN BANKS	4.045	99.3779	11/06/2030	25,000,000.00	24,897,008.49	24,844,475.00	24,893,750.00	(49,275.00)
3130B8JU7	FEDERAL HOME LOAN BANKS	4.410	100.0635	11/04/2030	20,000,000.00	20,000,000.00	20,012,700.00	20,000,000.00	12,700.00
3130B7SY1	FEDERAL HOME LOAN BANKS	3.750	98.9819	09/30/2030	25,000,000.00	25,000,000.00	24,745,475.00	25,000,000.00	(254,525.00)
3134HBA50	FEDERAL HOME LOAN MORTGAGE CORP	4.476	100.0598	07/23/2030	10,000,000.00	10,001,404.26	10,005,980.00	10,009,000.00	(3,020.00)
3133ETLF2	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.390	100.6644	06/17/2030	25,000,000.00	25,000,000.00	25,166,100.00	25,000,000.00	166,100.00
3130B6SF4	FEDERAL HOME LOAN BANKS	4.125	100.6056	06/14/2030	10,000,000.00	10,000,000.00	10,060,560.00	10,000,000.00	60,560.00
3133ETDZ7	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.590	100.2556	04/22/2030	10,000,000.00	10,000,000.00	10,025,560.00	10,000,000.00	25,560.00
3130B8SU2	FEDERAL HOME LOAN BANKS	4.000	99.6269	04/16/2030	15,000,000.00	15,000,000.00	14,944,035.00	15,000,000.00	(55,965.00)
3134HCD55	FEDERAL HOME LOAN MORTGAGE CORP	4.000	99.7363	12/04/2029	10,000,000.00	10,000,000.00	9,973,630.00	10,000,000.00	(26,370.00)
31424WRN4	FEDERAL AGRICULTURAL MORTGAGE CORP	4.653	100.7829	11/27/2029	15,000,000.00	14,993,322.95	15,117,435.00	14,991,450.00	125,985.00
31424WRG9	FEDERAL AGRICULTURAL MORTGAGE CORP	4.550	101.4269	11/26/2029	20,000,000.00	20,000,000.00	20,285,380.00	20,000,000.00	285,380.00
3133ETY50	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.213	99.9392	11/26/2029	20,000,000.00	19,990,104.17	19,987,840.00	19,990,000.00	(2,160.00)
3130B3LE1	FEDERAL HOME LOAN BANKS	4.420	100.9064	11/05/2029	15,000,000.00	15,000,000.00	15,135,960.00	15,000,000.00	135,960.00
3133EK4C7	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.347	94.3951	10/29/2029	15,000,000.00	13,886,967.12	14,159,265.00	13,549,950.00	609,315.00
3130B7RM8	FEDERAL HOME LOAN BANKS	4.100	99.8758	09/26/2029	15,000,000.00	15,000,000.00	14,981,370.00	15,000,000.00	(18,630.00)
3133ETZB6	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.010	99.7807	09/24/2029	50,000,000.00	50,000,000.00	49,890,350.00	50,000,000.00	(109,650.00)
3133ETXW2	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.190	99.9644	09/17/2029	25,000,000.00	25,000,000.00	24,991,100.00	25,000,000.00	(8,900.00)
3133ETXW2	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.190	99.9644	09/17/2029	25,000,000.00	25,000,000.00	24,991,100.00	25,000,000.00	(8,900.00)
3134HCAM1	FEDERAL HOME LOAN MORTGAGE CORP	4.152	99.9694	08/24/2029	20,000,000.00	20,000,000.00	19,993,880.00	20,000,000.00	(6,120.00)
3133ERP54	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.732	100.2598	08/15/2029	10,000,000.00	10,005,864.29	10,025,980.00	10,008,100.00	17,880.00
3130B2HC2	FEDERAL HOME LOAN BANKS	4.200	100.0794	08/13/2029	20,000,000.00	20,000,000.00	20,015,880.00	20,000,000.00	15,880.00
3130B25S0	FEDERAL HOME LOAN BANKS	4.710	100.5383	07/30/2029	15,000,000.00	15,000,000.00	15,080,745.00	15,000,000.00	80,745.00
3133ETL0	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.875	99.7039	06/01/2029	10,000,000.00	10,000,000.00	9,970,390.00	10,000,000.00	(29,610.00)
3130B6J49	FEDERAL HOME LOAN BANKS	4.150	100.5603	05/21/2029	15,000,000.00	15,000,000.00	15,084,045.00	15,000,000.00	84,045.00
3133ETEX1	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.440	100.1856	04/30/2029	10,000,000.00	10,000,000.00	10,018,560.00	10,000,000.00	18,560.00
3136GAZA0	FEDERAL NATIONAL MORTGAGE ASSOCIATION	4.000	99.8221	04/24/2029	25,000,000.00	25,000,000.00	24,955,525.00	25,000,000.00	(44,475.00)
3130B0TF6	FEDERAL HOME LOAN BANKS	4.750	101.4306	04/09/2029	10,000,000.00	10,000,000.00	10,143,060.00	10,000,000.00	143,060.00
3133ETBK2	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.580	100.2225	04/02/2029	25,000,000.00	25,000,000.00	25,055,625.00	25,000,000.00	55,625.00
3133ETBK2	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.501	100.2225	04/02/2029	16,000,000.00	16,003,008.26	16,035,600.00	16,012,000.00	23,600.00
3133ER6T3	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.535	100.1730	03/12/2029	25,000,000.00	24,989,026.35	25,043,250.00	24,986,250.00	57,000.00
3130B7QH0	FEDERAL HOME LOAN BANKS	4.000	99.9800	03/12/2029	25,000,000.00	25,000,000.00	24,995,000.00	25,000,000.00	(5,000.00)
3133ER5D9	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.490	100.8791	03/05/2029	10,000,000.00	10,000,000.00	10,087,910.00	10,000,000.00	87,910.00
3133ER5H0	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.700	100.1874	03/05/2029	10,000,000.00	10,000,000.00	10,018,740.00	10,000,000.00	18,740.00
3133ER3L3	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.731	100.1035	02/13/2029	10,000,000.00	9,988,209.11	10,010,350.00	9,985,000.00	25,350.00
3133ETP92	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.031	99.8637	02/05/2029	20,000,000.00	19,971,221.37	19,972,740.00	19,970,000.00	2,740.00
3130AYRY4	FEDERAL HOME LOAN BANKS	4.625	100.0667	02/02/2029	10,000,000.00	10,000,000.00	10,006,670.00	10,000,000.00	6,670.00
3130B4ND9	FEDERAL HOME LOAN BANKS	5.000	100.1012	01/30/2029	24,780,000.00	24,780,000.00	24,805,077.36	24,780,000.00	25,077.36
3133ET4K0	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.800	99.7643	12/18/2028	10,000,000.00	10,000,000.00	9,976,430.00	10,000,000.00	(23,570.00)
3133ET4K0	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.800	99.7643	12/18/2028	10,000,000.00	10,000,000.00	9,976,430.00	10,000,000.00	(23,570.00)
3134HCHN2	FEDERAL HOME LOAN MORTGAGE CORP	4.000	99.9292	12/18/2028	20,000,000.00	20,000,000.00	19,985,840.00	20,000,000.00	(14,160.00)
3136GCB38	FEDERAL NATIONAL MORTGAGE ASSOCIATION	3.780	99.7465	12/18/2028	10,000,000.00	10,000,000.00	9,974,650.00	10,000,000.00	(25,350.00)
3134HCJW0	FEDERAL HOME LOAN MORTGAGE CORP	3.950	99.9308	12/18/2028	20,000,000.00	20,000,000.00	19,986,160.00	20,000,000.00	(13,840.00)
3133ET3P0	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.212	100.0257	12/04/2028	10,000,000.00	10,000,000.00	10,002,570.00	10,000,000.00	2,570.00
3130B8NM0	FEDERAL HOME LOAN BANKS	3.875	99.8776	11/20/2028	15,000,000.00	15,000,000.00	14,981,640.00	15,000,000.00	(18,360.00)
3133ETR82	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.876	99.8023	11/10/2028	10,000,000.00	9,990,342.28	9,980,230.00	9,990,000.00	(9,770.00)
3130B3LA9	FEDERAL HOME LOAN BANKS	4.428	100.4640	11/06/2028	15,000,000.00	15,000,000.00	15,069,600.00	15,000,000.00	69,600.00
3130AXQC5	FEDERAL HOME LOAN BANKS	5.210	101.3035	11/03/2028	25,000,000.00	25,000,000.00	25,325,875.00	25,000,000.00	325,875.00
3133ETN29	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.468	100.1192	10/27/2028	25,000,000.00	25,000,000.00	25,029,800.00	25,000,000.00	29,800.00
3130AXL48	FEDERAL HOME LOAN BANKS	5.300	101.3162	10/20/2028	40,000,000.00	40,000,000.00	40,526,480.00	40,000,000.00	526,480.00
3133ETJ40	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.513	100.1188	10/20/2028	15,000,000.00	15,000,000.00	15,017,820.00	15,000,000.00	17,820.00
3134HBZ61	FEDERAL HOME LOAN MORTGAGE CORP	4.000	99.9122	10/20/2028	23,000,000.00	23,000,000.00	22,979,806.00	23,000,000.00	(20,194.00)
3134HBY39	FEDERAL HOME LOAN MORTGAGE CORP	4.000	99.9064	10/17/2028	25,000,000.00	25,000,000.00	24,976,600.00	25,000,000.00	(23,400.00)
3130B5VA3	FEDERAL HOME LOAN BANKS	4.000	100.1536	10/16/2028	10,000,000.00	10,000,000.00	10,015,360.00	10,000,000.00	15,360.00
3133ETH42	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.840	99.7940	10/16/2028	25,000,000.00	25,000,000.00	24,948,500.00	25,000,000.00	(51,500.00)
3133ETF28	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.360	100.1186	10/13/2028	25,000,000.00	25,000,000.00	25,029,650.00	25,000,000.00	29,650.00
3133ETF28	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.360	100.1186	10/13/2028	25,000,000.00	25,000,000.00	25,029,650.00	25,000,000.00	29,650.00
3133EPWMB	FEDERAL FARM CREDIT BANKS FUNDING CORP	5.040	100.9811	09/22/2028	25,000,000.00	25,000,000.00	25,245,275.00	25,000,000.00	245,275.00
3136GAT58	FEDERAL NATIONAL MORTGAGE ASSOCIATION	4.000	100.0740	09/12/2028	15,000,000.00	15,000,000.00	15,011,100.00	15,000,000.00	11,100.00
3133ETXG7	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.626	100.1399	09/11/2028	10,000,000.00	10,000,000.00	10,013,990.00	10,000,000.00	13,990.00
3130AWTR1	FEDERAL HOME LOAN BANKS	4.346	101.9675	09/08/2028	5,000,000.00	5,003,275.37	5,098,375.00	5,006,100.00	92,275.00
3133ETT9D	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.857	100.1809	08/18/2028	9,375,000.00	9,368,841.24	9,391,959.38	9,367,968.75	23,990.63
3133ETTC1	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.080	100.0966	08/14/2028	25,000,000.00	25,000,000.00	25,024,150.00	25,000,000.00	24,150.00
3133ETTC1	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.080	100.0966	08/14/2028	25,000,000.00	25,000,000.00	25,024,150.00	25,000,000.00	24,150.00
3133ETTC1	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.080	100.0966	08/14/2028	25,000,000.00	25,000,000.00	25,024,150.00	25,000,000.00	24,150.00
3134HA4S9	FEDERAL HOME LOAN MORTGAGE CORP	4.550	100.5098	07/28/2028	3,250,000.00	3,250,000.00	3,266,568.50	3,250,000.00	16,568.50
3133ETRC3	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.230	100.2202	07/28/2028	25,000,000.00	25,000,000.00	25,055,050.00	25,000,000.00	55,050.00
3133ETRC3	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.230	100.2202	07/28/2028	25,000,000.00	25,000,000.00	25,055,050.00	25,000,000.00	55,050.00
3130B2326	FEDERAL HOME LOAN BANKS	4.650	100.5377	07/24/2028	15,000,000.00	15,000,000.00	15,080,655.00	15,000,000.00	80,655.00

3133ETPR2	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.000	100.4946	07/14/2028	15,000,000.00	15,000,000.00	15,074,190.00	15,000,000.00	74,190.00
3134HCHS1	FEDERAL HOME LOAN MORTGAGE CORP	3.850	99.9157	06/16/2028	40,000,000.00	40,000,000.00	39,966,280.00	40,000,000.00	(33,720.00)
3134HCHS1	FEDERAL HOME LOAN MORTGAGE CORP	3.850	99.9157	06/16/2028	20,000,000.00	20,000,000.00	19,983,140.00	20,000,000.00	(16,860.00)
3130AWC24	FEDERAL HOME LOAN BANKS	3.987	101.0043	06/09/2028	10,000,000.00	10,002,675.88	10,100,430.00	10,005,460.00	94,970.00
3133ETJU2	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.079	100.5721	06/02/2028	25,000,000.00	25,000,000.00	25,143,025.00	25,000,000.00	143,025.00
3134HBUB5	FEDERAL HOME LOAN MORTGAGE CORP	4.400	100.2905	05/26/2028	20,000,000.00	20,000,000.00	20,058,100.00	20,000,000.00	58,100.00
3136GAHG7	FEDERAL NATIONAL MORTGAGE ASSOCIATION	4.440	100.2973	05/22/2028	20,000,000.00	20,000,000.00	20,059,460.00	20,000,000.00	59,460.00
3133EPGW9	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.784	100.7007	04/25/2028	10,000,000.00	10,019,055.28	10,070,070.00	10,041,200.00	28,870.00
3130BOPN3	FEDERAL HOME LOAN BANKS	4.780	100.2865	04/06/2028	20,000,000.00	20,000,000.00	20,057,300.00	20,000,000.00	57,300.00
3136GAC31	FEDERAL NATIONAL MORTGAGE ASSOCIATION	4.630	100.1270	02/25/2028	20,000,000.00	20,000,000.00	20,025,400.00	20,000,000.00	25,400.00
3130B6J64	FEDERAL HOME LOAN BANKS	4.302	100.0773	02/23/2028	10,000,000.00	10,000,000.00	10,007,730.00	10,000,000.00	7,730.00
3133ER3X7	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.530	99.9567	02/11/2028	10,000,000.00	10,000,000.00	9,995,670.00	10,000,000.00	(4,330.00)
3133ER3X7	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.530	99.9567	02/11/2028	25,000,000.00	25,000,000.00	24,989,175.00	25,000,000.00	(10,825.00)
3130B4TP6	FEDERAL HOME LOAN BANKS	4.550	100.0796	02/10/2028	10,000,000.00	10,000,000.00	10,007,960.00	10,000,000.00	7,960.00
3130AYVC7	FEDERAL HOME LOAN BANKS	4.625	100.0858	02/09/2028	10,000,000.00	10,000,000.00	10,008,580.00	10,000,000.00	8,580.00
3133ERZ20	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.635	100.0670	01/28/2028	25,000,000.00	24,997,407.53	25,016,750.00	24,996,250.00	20,500.00
3133ERZ20	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.630	100.0670	01/28/2028	6,750,000.00	6,750,000.00	6,754,522.50	6,750,000.00	4,522.50
3133ERW31	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.429	100.8574	01/27/2028	25,000,000.00	25,000,000.00	25,214,350.00	25,000,000.00	214,350.00
3133ET4D6	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.800	99.9096	12/15/2027	16,875,000.00	16,875,000.00	16,859,745.00	16,875,000.00	(15,255.00)
3130ATUS4	FEDERAL HOME LOAN BANKS	3.796	101.3077	12/10/2027	25,000,000.00	25,198,057.57	25,326,925.00	25,510,250.00	(183,325.00)
3130ATUS4	FEDERAL HOME LOAN BANKS	4.002	101.3077	12/10/2027	50,000,000.00	50,214,611.28	50,653,850.00	50,548,250.00	105,500.00
3130ATUS4	FEDERAL HOME LOAN BANKS	4.036	101.3077	12/10/2027	15,000,000.00	15,055,437.81	15,196,155.00	15,141,570.00	54,585.00
3133ET3S4	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.730	100.0499	12/09/2027	20,000,000.00	20,000,000.00	20,009,980.00	20,000,000.00	9,980.00
31424W4F6	FEDERAL AGRICULTURAL MORTGAGE CORP	0.000	99.9947	12/09/2027	10,000,000.00	10,000,000.00	9,999,469.50	10,000,000.00	(530.50)
3133ET4B0	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.956	100.0079	12/09/2027	15,000,000.00	15,000,000.00	15,001,185.00	15,000,000.00	1,185.00
3134HCFJ3	FEDERAL HOME LOAN MORTGAGE CORP	3.900	99.9605	12/03/2027	10,000,000.00	10,000,000.00	9,996,050.00	10,000,000.00	(3,950.00)
3133ERE23	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.356	100.6206	12/02/2027	10,000,000.00	9,993,607.31	10,062,060.00	9,990,000.00	72,060.00
3133ETS40	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.054	100.0972	11/10/2027	15,000,000.00	15,000,000.00	15,014,580.00	15,000,000.00	14,580.00
3133ENW63	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.284	101.0159	10/27/2027	5,000,000.00	5,007,363.64	5,050,795.00	5,020,250.00	30,545.00
3133ENW63	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.195	101.0159	10/27/2027	3,715,000.00	3,725,867.26	3,752,740.69	3,744,868.60	7,872.09
3133ENW63	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.252	101.0159	10/27/2027	15,000,000.00	15,030,005.80	15,152,385.00	15,082,290.00	70,095.00
3133ERXY2	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.000	100.1855	10/21/2027	20,000,000.00	20,000,000.00	20,037,100.00	20,000,000.00	37,100.00
3133ERXY2	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.000	100.1855	10/21/2027	10,000,000.00	10,000,000.00	10,018,550.00	10,000,000.00	18,550.00
3134HAQA4	FEDERAL HOME LOAN MORTGAGE CORP	4.290	100.0039	10/08/2027	23,750,000.00	23,620,545.77	23,750,926.25	23,536,250.00	214,676.25
3130B82H4	FEDERAL HOME LOAN BANKS	4.050	100.0063	10/08/2027	15,000,000.00	15,000,000.00	15,000,945.00	15,000,000.00	945.00
3133EPH81	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.500	101.5895	10/04/2027	25,000,000.00	25,000,686.79	25,397,375.00	25,001,500.00	395,875.00
3130AXEN4	FEDERAL HOME LOAN BANKS	4.779	102.0793	09/29/2027	15,000,000.00	15,004,897.33	15,311,895.00	15,011,250.00	300,645.00
3133ENL99	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.830	99.7014	09/15/2027	10,000,000.00	9,930,109.36	9,970,140.00	9,795,609.20	174,530.80
3130ATHW0	FEDERAL HOME LOAN BANKS	4.239	100.9220	09/10/2027	2,000,000.00	1,996,551.13	2,018,440.00	1,989,972.00	28,468.00
3130ATHW0	FEDERAL HOME LOAN BANKS	4.241	100.9220	09/10/2027	3,000,000.00	2,994,768.91	3,027,660.00	2,984,790.00	42,870.00
3133ER6M8	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.510	100.1493	09/07/2027	25,000,000.00	25,000,000.00	25,037,325.00	25,000,000.00	37,325.00
3134HBAR2	FEDERAL HOME LOAN MORTGAGE CORP	4.378	100.0677	08/25/2027	25,000,000.00	24,950,521.41	25,016,925.00	24,925,000.00	91,925.00
3134HBAR2	FEDERAL HOME LOAN MORTGAGE CORP	4.378	100.0677	08/25/2027	25,000,000.00	24,950,521.41	25,016,925.00	24,925,000.00	91,925.00
3133ETTP2	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.465	100.1012	08/18/2027	20,000,000.00	20,000,000.00	20,020,240.00	20,000,000.00	20,240.00
3133ERNP2	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.830	100.6656	08/06/2027	5,000,000.00	5,012,647.51	5,033,280.00	5,023,600.00	9,680.00
3130B7DP6	FEDERAL HOME LOAN BANKS	4.497	100.0834	08/04/2027	15,000,000.00	15,000,000.00	15,012,510.00	15,000,000.00	12,510.00
3134HBZV6	FEDERAL HOME LOAN MORTGAGE CORP	4.060	100.1692	07/23/2027	25,000,000.00	25,000,000.00	25,042,300.00	25,000,000.00	42,300.00
3133ENB33	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.075	99.2301	07/19/2027	10,000,000.00	9,996,447.97	9,923,010.00	9,988,500.00	(65,490.00)
3133ETPU5	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.120	100.1779	07/14/2027	25,000,000.00	25,000,000.00	25,044,475.00	25,000,000.00	44,475.00
3133ETNS2	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.506	100.0622	06/29/2027	10,000,000.00	10,000,000.00	10,006,220.00	10,000,000.00	6,220.00
3130ASDV8	FEDERAL HOME LOAN BANKS	3.300	99.6186	06/28/2027	10,000,000.00	10,000,000.00	9,961,860.00	10,000,000.00	(38,140.00)
3133ETSH6	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.715	100.0064	06/23/2027	10,000,000.00	10,000,000.00	10,000,640.00	10,000,000.00	640.00
3130ASGU7	FEDERAL HOME LOAN BANKS	3.095	99.9077	06/11/2027	10,000,000.00	10,053,714.16	9,990,770.00	10,183,200.00	(192,430.00)
3130AWBZ2	FEDERAL HOME LOAN BANKS	4.000	100.7782	06/11/2027	8,260,000.00	8,273,557.07	8,324,279.32	8,297,913.40	26,365.92
3130AWBZ2	FEDERAL HOME LOAN BANKS	4.055	100.7782	06/11/2027	10,000,000.00	10,009,204.10	10,077,820.00	10,025,600.00	52,220.00
3130AS3F4	FEDERAL HOME LOAN BANKS	3.770	99.9477	05/26/2027	10,000,000.00	10,000,000.00	9,994,770.00	10,000,000.00	(5,230.00)
3130B6JW7	FEDERAL HOME LOAN BANKS	4.369	100.0518	05/21/2027	20,000,000.00	20,000,000.00	20,010,360.00	20,000,000.00	10,360.00
3133ERDS7	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.583	101.5376	05/06/2027	10,000,000.00	10,020,577.18	10,153,760.00	10,043,800.00	109,960.00
3130ARSF9	FEDERAL HOME LOAN BANKS	3.000	99.2614	04/29/2027	10,000,000.00	10,000,000.00	9,926,140.00	10,000,000.00	(73,860.00)
3130ARPV7	FEDERAL HOME LOAN BANKS	3.500	99.7500	04/28/2027	10,000,000.00	10,000,000.00	9,975,000.00	10,000,000.00	(25,000.00)
3133ENV9D	FEDERAL FARM CREDIT BANKS FUNDING CORP	2.913	99.1066	04/26/2027	10,000,000.00	9,995,373.49	9,910,660.00	9,982,400.00	(71,740.00)
3133EN6V7	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.606	100.0622	04/26/2027	8,000,000.00	8,001,931.14	8,004,976.00	8,006,240.00	(1,264.00)
3133EN6V7	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.623	100.0622	04/26/2027	2,000,000.00	2,000,084.80	2,001,244.00	2,000,274.00	970.00
3133EN6V7	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.744	100.0622	04/26/2027	4,820,000.00	4,813,153.18	4,822,998.04	4,797,876.20	25,121.84
3130BSU71	FEDERAL HOME LOAN BANKS	4.035	100.0681	04/08/2027	10,000,000.00	10,000,000.00	10,006,810.00	10,000,000.00	6,810.00
3130ARHX2	FEDERAL HOME LOAN BANKS	3.000	99.2421	03/25/2027	10,000,000.00	10,000,000.00	9,924,210.00	10,000,000.00	(75,790.00)
3130ARHX2	FEDERAL HOME LOAN BANKS	3.000	99.2421	03/25/2027	10,000,000.00	10,000,000.00	9,924,210.00	10,000,000.00	(75,790.00)
3130ARHX2	FEDERAL HOME LOAN BANKS	3.000	99.2421	03/25/2027	10,000,000.00	10,000,000.00	9,924,210.00	10,000,000.00	(75,790.00)
3134HBF8D	FEDERAL HOME LOAN MORTGAGE CORP	4.280	100.1338	03/25/2027	25,000,000.00	25,000,000.00	25,033,450.00	25,000,000.00	33,450.00
3130AR6U0	FEDERAL HOME LOAN BANKS	2.500	98.6832	03/22/2027	5,000,000.00	5,000,000.00	4,934,160.00	5,000,000.00	(65,840.00)
3134HBN64	FEDERAL HOME LOAN MORTGAGE CORP	4.515	100.0697	03/16/2027	10,000,000.00	10,000,000.00	10,006,970.00	10,000,000.00	6,970.00
3130AQRQ8	FEDERAL HOME LOAN BANKS	2.000	98.1894	02/25/2027	10,000,000.00	10,000,000.00	9,818,940.00	10,000,000.00	(181,060.00)

3130AQRH8	FEDERAL HOME LOAN BANKS	2.000	98.1894	02/25/2027	5,000,000.00	5,000,000.00	4,909,470.00	5,000,000.00	(90,530.00)
3130AQRH8	FEDERAL HOME LOAN BANKS	2.000	98.1894	02/25/2027	5,000,000.00	5,000,000.00	4,909,470.00	5,000,000.00	(90,530.00)
3130ALED2	FEDERAL HOME LOAN BANKS	2.050	97.0947	02/24/2027	15,000,000.00	14,832,469.37	14,564,205.00	14,275,500.00	288,705.00
3130ALED2	FEDERAL HOME LOAN BANKS	3.001	97.0947	02/24/2027	20,000,000.00	19,578,743.27	19,418,940.00	18,320,000.00	1,098,940.00
3130AL2X1	FEDERAL HOME LOAN BANKS	3.001	96.9433	02/17/2027	10,000,000.00	9,775,673.02	9,694,330.00	9,057,500.00	636,830.00
3130AKYH3	FEDERAL HOME LOAN BANKS	1.746	96.9700	02/10/2027	10,000,000.00	9,903,136.11	9,697,000.00	9,563,275.40	133,724.60
3130B8VQ2	FEDERAL HOME LOAN BANKS	3.813	99.9477	02/10/2027	25,000,000.00	25,000,000.00	24,986,925.00	25,000,000.00	(13,075.00)
3130AQH55	FEDERAL HOME LOAN BANKS	1.984	97.9891	01/28/2027	10,000,000.00	9,971,071.31	9,798,910.00	9,866,500.00	(67,590.00)
3130AQH55	FEDERAL HOME LOAN BANKS	2.086	97.9891	01/28/2027	20,000,000.00	19,921,556.42	19,597,820.00	19,640,000.00	(42,180.00)
3130AQKM4	FEDERAL HOME LOAN BANKS	1.750	98.0412	01/28/2027	11,250,000.00	11,250,000.00	11,029,635.00	11,250,000.00	(220,365.00)
3133ENLZ1	FEDERAL FARM CREDIT BANKS FUNDING CORP	1.860	98.0811	01/26/2027	10,000,000.00	9,991,867.49	9,808,110.00	9,962,090.00	(153,980.00)
3130B8Q96	FEDERAL HOME LOAN BANKS	3.977	99.9940	01/25/2027	25,000,000.00	25,000,000.00	24,998,500.00	25,000,000.00	(1,500.00)
3130B8Q96	FEDERAL HOME LOAN BANKS	3.977	99.9940	01/25/2027	50,000,000.00	50,000,000.00	49,997,000.00	50,000,000.00	(3,000.00)
3133ETY35	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.976	100.0095	01/20/2027	50,000,000.00	50,000,000.00	50,004,750.00	50,000,000.00	4,750.00
3130B8PY2	FEDERAL HOME LOAN BANKS	3.954	100.0116	01/20/2027	25,000,000.00	25,000,000.00	25,002,900.00	25,000,000.00	2,900.00
3130B8L34	FEDERAL HOME LOAN BANKS	3.987	100.0197	01/12/2027	50,000,000.00	50,000,000.00	50,009,850.00	50,000,000.00	9,850.00
3133ENK64	FEDERAL FARM CREDIT BANKS FUNDING CORP	1.908	97.8381	01/11/2027	10,000,000.00	9,957,244.16	9,783,810.00	9,795,000.00	(11,190.00)
3134HBXW6	FEDERAL HOME LOAN MORTGAGE CORP	4.428	100.0497	01/08/2027	10,000,000.00	10,000,000.00	10,004,970.00	10,000,000.00	4,970.00
3134HCFE2	FEDERAL HOME LOAN MORTGAGE CORP	3.611	99.8143	01/05/2027	25,000,000.00	24,985,556.82	24,953,575.00	24,984,500.00	(30,925.00)
3130B8Z88	FEDERAL HOME LOAN BANKS	3.788	100.0049	01/04/2027	50,000,000.00	50,000,000.00	50,002,450.00	50,000,000.00	2,450.00
3130AQAY9	FEDERAL HOME LOAN BANKS	1.500	97.9432	12/30/2026	25,000,000.00	25,000,000.00	24,485,800.00	25,000,000.00	(514,200.00)
3130AQF65	FEDERAL HOME LOAN BANKS	1.306	97.7865	12/21/2026	10,000,000.00	9,994,760.80	9,778,650.00	9,972,990.00	(194,340.00)
3133ERL66	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.775	100.1030	12/18/2026	15,000,000.00	15,000,000.00	15,015,450.00	15,000,000.00	15,450.00
3133ERK75	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.770	100.1117	12/16/2026	25,000,000.00	25,000,000.00	25,027,925.00	25,000,000.00	27,925.00
3130B46H9	FEDERAL HOME LOAN BANKS	4.759	100.1023	12/16/2026	25,000,000.00	25,000,000.00	25,025,575.00	25,000,000.00	25,575.00
3130B46H9	FEDERAL HOME LOAN BANKS	4.759	100.1023	12/16/2026	10,000,000.00	10,000,000.00	10,010,230.00	10,000,000.00	10,230.00
3133EN4G2	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.923	100.3111	12/15/2026	25,000,000.00	25,003,632.44	25,077,775.00	25,015,250.00	62,525.00
3130ATVE4	FEDERAL HOME LOAN BANKS	3.986	100.8209	12/11/2026	5,000,000.00	5,022,076.23	5,041,045.00	5,095,300.00	(54,255.00)
3130B3ZF3	FEDERAL HOME LOAN BANKS	4.764	100.1004	12/11/2026	25,000,000.00	25,000,000.00	25,025,100.00	25,000,000.00	25,100.00
3130B3ZF3	FEDERAL HOME LOAN BANKS	4.764	100.1004	12/11/2026	25,000,000.00	25,000,000.00	25,025,100.00	25,000,000.00	25,100.00
3135G1AB7	FEDERAL NATIONAL MORTGAGE ASSOCIATION	4.758	100.1051	12/11/2026	5,000,000.00	5,000,000.00	5,005,255.00	5,000,000.00	5,255.00
3130APWW1	FEDERAL HOME LOAN BANKS	1.503	98.1283	11/24/2026	20,000,000.00	19,999,460.69	19,625,660.00	19,997,000.00	(371,340.00)
3133ENEM8	FEDERAL FARM CREDIT BANKS FUNDING CORP	1.430	98.0808	11/23/2026	10,000,000.00	10,000,000.00	9,808,080.00	10,000,000.00	(191,920.00)
3133ERQ95	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.502	100.0891	11/02/2026	25,000,000.00	25,000,000.00	25,022,275.00	25,000,000.00	22,275.00
3130ARUF6	FEDERAL HOME LOAN BANKS	3.125	99.5953	10/29/2026	10,000,000.00	10,000,000.00	9,959,530.00	10,000,000.00	(40,470.00)
3134GW6C5	FEDERAL HOME LOAN MORTGAGE CORP	3.122	97.6881	10/28/2026	15,000,000.00	14,734,935.31	14,653,215.00	13,566,000.00	1,087,215.00
3134GW4C7	FEDERAL HOME LOAN MORTGAGE CORP	3.092	97.6949	10/27/2026	20,000,000.00	19,650,688.99	19,538,980.00	18,196,200.00	1,342,780.00
3134GW4C7	FEDERAL HOME LOAN MORTGAGE CORP	3.488	97.6949	10/27/2026	5,000,000.00	4,898,432.27	4,884,745.00	4,482,650.00	402,095.00
3134GW4C7	FEDERAL HOME LOAN MORTGAGE CORP	3.046	97.6949	10/27/2026	20,000,000.00	19,658,805.35	19,538,980.00	18,124,000.00	1,414,980.00
3133ETL62	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.603	99.8897	10/27/2026	25,000,000.00	24,979,520.55	24,972,425.00	24,975,000.00	(2,575.00)
3133EN7A2	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.827	99.7251	10/26/2026	4,300,000.00	4,293,494.72	4,288,179.30	4,270,115.00	18,064.30
3130B8BV3	FEDERAL HOME LOAN BANKS	3.800	99.9814	10/23/2026	25,000,000.00	25,000,000.00	24,995,350.00	25,000,000.00	(4,650.00)
3133ENBK5	FEDERAL FARM CREDIT BANKS FUNDING CORP	1.249	98.0234	10/20/2026	10,000,000.00	9,991,530.39	9,802,340.00	9,947,500.00	(145,160.00)
3133ENBK5	FEDERAL FARM CREDIT BANKS FUNDING CORP	1.340	98.0234	10/20/2026	10,000,000.00	9,984,563.16	9,802,340.00	9,905,000.00	(102,660.00)
3133ENT67	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.318	100.4835	10/19/2026	5,000,000.00	4,997,530.18	5,024,175.00	4,987,600.00	36,575.00
3133ENT67	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.318	100.4835	10/19/2026	5,000,000.00	4,997,530.18	5,024,175.00	4,987,600.00	36,575.00
3130B3A29	FEDERAL HOME LOAN BANKS	4.011	100.2788	10/09/2026	10,000,000.00	9,999,189.42	10,027,880.00	9,997,900.00	29,980.00
3133ERWD9	FEDERAL FARM CREDIT BANKS FUNDING CORP	5.113	100.1083	10/02/2026	10,000,000.00	10,000,000.00	10,010,830.00	10,000,000.00	10,830.00
3130ANYN4	FEDERAL HOME LOAN BANKS	1.000	98.0330	09/30/2026	10,000,000.00	10,000,000.00	9,803,300.00	10,000,000.00	(196,700.00)
3130AP5M3	FEDERAL HOME LOAN BANKS	1.040	98.0753	09/28/2026	15,000,000.00	15,000,000.00	14,711,295.00	15,000,000.00	(288,705.00)
3130APAD7	FEDERAL HOME LOAN BANKS	1.035	98.0823	09/28/2026	15,000,000.00	15,000,000.00	14,712,345.00	15,000,000.00	(287,655.00)
3130ATFH5	FEDERAL HOME LOAN BANKS	3.941	100.0383	09/11/2026	5,000,000.00	4,993,938.78	5,001,915.00	4,965,237.80	36,677.20
3130ATHV2	FEDERAL HOME LOAN BANKS	4.312	100.3761	09/11/2026	1,000,000.00	999,611.04	1,003,761.00	997,780.00	5,981.00
3133ET3Q8	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.953	100.0018	09/10/2026	50,000,000.00	50,000,000.00	50,000,900.00	50,000,000.00	900.00
3133ET3Q8	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.953	100.0018	09/10/2026	15,000,000.00	15,000,000.00	15,000,270.00	15,000,000.00	270.00
3130ANSC5	FEDERAL HOME LOAN BANKS	1.000	98.2741	08/26/2026	15,000,000.00	15,000,000.00	14,741,115.00	15,000,000.00	(258,885.00)
3130ANTS9	FEDERAL HOME LOAN BANKS	1.000	98.2741	08/26/2026	15,000,000.00	15,000,000.00	14,741,115.00	15,000,000.00	(258,885.00)
3130ANPF1	FEDERAL HOME LOAN BANKS	1.000	98.2810	08/25/2026	10,000,000.00	10,000,000.00	9,828,100.00	10,000,000.00	(171,900.00)
3133ENH45	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.137	99.6358	08/24/2026	5,000,000.00	4,999,646.05	4,981,790.00	4,997,799.50	(16,009.50)
3133ENH45	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.294	99.6358	08/24/2026	5,000,000.00	4,994,942.43	4,981,790.00	4,968,600.00	13,190.00
3130ANMH0	FEDERAL HOME LOAN BANKS	3.132	98.3771	08/20/2026	15,000,000.00	14,820,176.83	14,756,565.00	13,851,000.00	905,565.00
3130ANMH0	FEDERAL HOME LOAN BANKS	1.100	98.3771	08/20/2026	10,000,000.00	10,000,000.00	9,837,710.00	10,000,000.00	(162,290.00)
3130ANMH0	FEDERAL HOME LOAN BANKS	1.668	98.3771	08/20/2026	10,000,000.00	9,965,519.02	9,837,710.00	9,755,200.00	82,510.00
3130ANE48	FEDERAL HOME LOAN BANKS	1.000	98.3297	08/17/2026	10,000,000.00	10,000,000.00	9,832,970.00	10,000,000.00	(167,030.00)
3130ANFD7	FEDERAL HOME LOAN BANKS	1.000	98.4121	08/05/2026	10,000,000.00	10,000,000.00	9,841,210.00	10,000,000.00	(158,790.00)
3133END80	FEDERAL FARM CREDIT BANKS FUNDING CORP	2.873	99.5973	08/03/2026	10,000,000.00	10,006,972.21	9,959,730.00	10,047,600.00	(87,870.00)
3130ANA9	FEDERAL HOME LOAN BANKS	1.000	98.4768	07/27/2026	15,000,000.00	15,000,000.00	14,771,520.00	15,000,000.00	(228,480.00)
3130ANA9	FEDERAL HOME LOAN BANKS	1.000	98.4768	07/27/2026	10,000,000.00	10,000,000.00	9,847,680.00	10,000,000.00	(152,320.00)
3130ANBX7	FEDERAL HOME LOAN BANKS	1.000	98.5219	07/22/2026	15,000,000.00	15,000,000.00	14,778,285.00	15,000,000.00	(221,715.00)
3130AN5K2	FEDERAL HOME LOAN BANKS	4.366	98.8085	07/20/2026	2,375,000.00	2,340,919.36	2,346,701.88	2,143,081.25	203,620.63
3130AN3R9	FEDERAL HOME LOAN BANKS	1.130	98.6055	07/20/2026	10,000,000.00	10,000,000.00	9,860,550.00	10,000,000.00	(139,450.00)
3133ENB66	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.174	99.6980	07/20/2026	10,000,000.00	9,998,767.97	9,969,800.00	9,991,000.00	(21,200.00)

3130B83W0	FEDERAL HOME LOAN BANKS	4.145	100.0042	07/15/2026	25,000,000.00	25,000,000.00	25,001,050.00	25,000,000.00	1,050.00
3133EMQ62	FEDERAL FARM CREDIT BANKS FUNDING CORP	0.990	98.5732	07/13/2026	10,000,000.00	10,000,000.00	9,857,320.00	10,000,000.00	(142,680.00)
3133EMQ62	FEDERAL FARM CREDIT BANKS FUNDING CORP	0.990	98.5732	07/13/2026	10,000,000.00	10,000,000.00	9,857,320.00	10,000,000.00	(142,680.00)
3133ETPE1	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.367	100.0175	07/09/2026	25,000,000.00	25,000,000.00	25,004,375.00	25,000,000.00	4,375.00
3130AN3B4	FEDERAL HOME LOAN BANKS	1.020	98.6504	07/06/2026	15,000,000.00	15,000,000.00	14,797,560.00	15,000,000.00	(202,440.00)
3130ASDK2	FEDERAL HOME LOAN BANKS	3.250	99.7738	06/29/2026	5,250,000.00	5,250,000.00	5,238,124.50	5,250,000.00	(11,875.50)
3130AMWT5	FEDERAL HOME LOAN BANKS	1.050	98.7394	06/26/2026	15,000,000.00	15,000,000.00	14,810,910.00	15,000,000.00	(189,090.00)
3130AMT69	FEDERAL HOME LOAN BANKS	1.070	98.7490	06/26/2026	10,000,000.00	10,000,000.00	9,874,900.00	10,000,000.00	(125,100.00)
31424WXD9	FEDERAL AGRICULTURAL MORTGAGE CORP	4.354	100.0276	06/24/2026	15,000,000.00	15,000,000.00	15,004,140.00	15,000,000.00	4,140.00
3130AMMZZ	FEDERAL HOME LOAN BANKS	1.000	98.8193	06/10/2026	5,000,000.00	5,000,000.00	4,940,965.00	5,000,000.00	(59,035.00)
3130AMS52	FEDERAL HOME LOAN BANKS	1.000	98.8378	06/08/2026	15,000,000.00	15,000,000.00	14,825,670.00	15,000,000.00	(174,330.00)
3130AMJN3	FEDERAL HOME LOAN BANKS	1.030	98.9322	05/26/2026	5,000,000.00	5,000,000.00	4,946,610.00	5,000,000.00	(53,390.00)
3130AMKB7	FEDERAL HOME LOAN BANKS	1.050	98.9401	05/26/2026	15,000,000.00	15,000,000.00	14,841,015.00	15,000,000.00	(158,985.00)
3130AMME9	FEDERAL HOME LOAN BANKS	1.000	98.9204	05/26/2026	10,000,000.00	10,000,000.00	9,892,040.00	10,000,000.00	(107,960.00)
3130B7HM9	FEDERAL HOME LOAN BANKS	4.365	100.0111	05/20/2026	25,000,000.00	25,000,000.00	25,002,775.00	25,000,000.00	2,775.00
3133EMZS4	FEDERAL FARM CREDIT BANKS FUNDING CORP	0.900	98.9426	05/18/2026	5,000,000.00	5,000,000.00	4,947,130.00	5,000,000.00	(52,870.00)
3133ER3N9	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.403	100.0175	05/11/2026	25,000,000.00	25,000,000.00	25,004,375.00	25,000,000.00	4,375.00
3130B6Y26	FEDERAL HOME LOAN BANKS	4.349	99.9945	05/08/2026	15,000,000.00	15,000,000.00	14,999,175.00	15,000,000.00	(825.00)
3130B6Y26	FEDERAL HOME LOAN BANKS	4.349	99.9945	05/08/2026	25,000,000.00	25,000,000.00	24,998,625.00	25,000,000.00	(1,375.00)
3133ENUL2	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.110	99.8267	04/13/2026	10,000,000.00	10,000,000.00	9,982,670.00	10,000,000.00	(17,330.00)
3130ALKL7	FEDERAL HOME LOAN BANKS	0.850	99.3494	03/25/2026	10,000,000.00	10,000,000.00	9,934,940.00	10,000,000.00	(65,060.00)
3130ALGJ7	FEDERAL HOME LOAN BANKS	1.000	99.4061	03/23/2026	9,750,000.00	9,750,000.00	9,692,094.75	9,750,000.00	(57,905.25)
3130ALGJ7	FEDERAL HOME LOAN BANKS	1.000	99.4061	03/23/2026	14,625,000.00	14,625,000.00	14,538,142.13	14,625,000.00	(86,857.88)
3130ALGJ7	FEDERAL HOME LOAN BANKS	1.000	99.4061	03/23/2026	19,500,000.00	19,500,000.00	19,384,189.50	19,500,000.00	(115,810.50)
3130ALGJ7	FEDERAL HOME LOAN BANKS	1.000	99.4061	03/23/2026	9,750,000.00	9,750,000.00	9,692,094.75	9,750,000.00	(57,905.25)
3130ALGJ7	FEDERAL HOME LOAN BANKS	1.016	99.4061	03/23/2026	8,921,250.00	8,920,936.00	8,868,266.70	8,914,559.06	(46,292.36)
3130ALGJ7	FEDERAL HOME LOAN BANKS	1.000	99.4061	03/23/2026	9,750,000.00	9,750,000.00	9,692,094.75	9,750,000.00	(57,905.25)
3130ALGJ7	FEDERAL HOME LOAN BANKS	3.010	99.4061	03/23/2026	19,500,000.00	19,418,460.29	19,384,189.50	18,092,685.00	1,291,504.50
3130ALGJ7	FEDERAL HOME LOAN BANKS	1.000	99.4061	03/23/2026	19,500,000.00	19,500,000.00	19,384,189.50	19,500,000.00	(115,810.50)
3130ALGJ7	FEDERAL HOME LOAN BANKS	1.000	99.4061	03/23/2026	14,625,000.00	14,625,000.00	14,538,142.13	14,625,000.00	(86,857.88)
3130ALH56	FEDERAL HOME LOAN BANKS	0.750	99.3769	03/18/2026	10,000,000.00	10,000,000.00	9,937,690.00	10,000,000.00	(62,310.00)
3130ALH56	FEDERAL HOME LOAN BANKS	0.750	99.3769	03/18/2026	10,000,000.00	10,000,000.00	9,937,690.00	10,000,000.00	(62,310.00)
3130ALHG2	FEDERAL HOME LOAN BANKS	0.750	99.3769	03/18/2026	10,000,000.00	10,000,000.00	9,937,690.00	10,000,000.00	(62,310.00)
3130ALFW9	FEDERAL HOME LOAN BANKS	0.790	99.3852	03/18/2026	15,000,000.00	15,000,000.00	14,907,780.00	15,000,000.00	(92,220.00)
3130ALEH3	FEDERAL HOME LOAN BANKS	0.700	99.3830	03/16/2026	25,000,000.00	25,000,000.00	24,845,750.00	25,000,000.00	(154,250.00)
3130ALHH0	FEDERAL HOME LOAN BANKS	3.040	99.5379	03/05/2026	10,500,000.00	10,464,707.52	10,451,479.50	9,707,880.00	743,599.50
3130ALEY6	FEDERAL HOME LOAN BANKS	3.157	99.4992	03/04/2026	16,160,000.00	16,099,279.20	16,079,070.72	14,879,966.40	1,199,104.32
3130ALGR9	FEDERAL HOME LOAN BANKS	0.850	99.5707	02/26/2026	10,000,000.00	10,000,000.00	9,957,070.00	10,000,000.00	(42,930.00)
3130AL6K5	FEDERAL HOME LOAN BANKS	0.580	99.5396	02/25/2026	6,000,000.00	6,000,000.00	5,972,376.00	6,000,000.00	(27,624.00)
3130ALEM2	FEDERAL HOME LOAN BANKS	0.790	99.5700	02/25/2026	10,000,000.00	10,000,000.00	9,957,000.00	10,000,000.00	(43,000.00)
3130ALEM2	FEDERAL HOME LOAN BANKS	0.790	99.5700	02/25/2026	15,000,000.00	15,000,000.00	14,935,500.00	15,000,000.00	(64,500.00)
3130ALCV4	FEDERAL HOME LOAN BANKS	2.112	99.5723	02/24/2026	25,000,000.00	24,952,021.78	24,893,075.00	23,715,250.00	1,177,825.00
3130ALBX1	FEDERAL HOME LOAN BANKS	0.580	99.5569	02/23/2026	10,000,000.00	10,000,000.00	9,955,690.00	10,000,000.00	(44,310.00)
3130AL2G8	FEDERAL HOME LOAN BANKS	0.615	99.6026	02/18/2026	5,000,000.00	4,999,901.37	4,980,130.00	4,996,250.00	(16,120.00)
3130B6ZE9	FEDERAL HOME LOAN BANKS	4.324	99.9994	02/11/2026	50,000,000.00	50,000,000.00	49,999,700.00	50,000,000.00	(300.00)
3133ER2H3	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.090	100.0287	02/03/2026	12,250,000.00	12,250,313.44	12,253,515.75	12,252,982.39	533.36
---	---	3.591	99.8071	10/10/2027	4,125,581,250.00	4,121,962,559.26	4,117,498,999.87	4,108,275,173.95	9,223,825.92

Agency

AGCY DISC

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
313385E36	FEDERAL HOME LOAN BANKS	3.625	97.6822	09/02/2026	50,000,000.00	48,813,888.89	48,841,100.00	48,634,027.78	207,072.22
313385ZB5	FEDERAL HOME LOAN BANKS	3.737	98.1792	07/08/2026	15,000,000.00	14,716,825.00	14,726,880.00	14,653,562.50	73,317.50
313385YZ3	FEDERAL HOME LOAN BANKS	3.737	98.1970	07/06/2026	15,000,000.00	14,719,837.50	14,729,550.00	14,656,575.00	72,975.00
313385YE0	FEDERAL HOME LOAN BANKS	3.708	98.3767	06/17/2026	50,000,000.00	49,167,319.44	49,188,350.00	48,987,819.44	200,530.56
313385XX9	FEDERAL HOME LOAN BANKS	3.793	98.4451	06/10/2026	25,000,000.00	24,592,222.22	24,611,275.00	24,477,534.72	133,740.28
313385WV4	FEDERAL HOME LOAN BANKS	3.687	98.6959	05/15/2026	50,000,000.00	49,335,583.34	49,347,950.00	48,983,541.67	364,408.33
313385WV4	FEDERAL HOME LOAN BANKS	3.687	98.6959	05/15/2026	50,000,000.00	49,335,583.34	49,347,950.00	48,983,541.67	364,408.33
313385WF9	FEDERAL HOME LOAN BANKS	3.887	98.8300	05/01/2026	25,000,000.00	24,687,083.34	24,707,500.00	24,376,774.31	330,725.69
313385TA4	FEDERAL HOME LOAN BANKS	4.148	99.5839	02/13/2026	5,000,000.00	4,976,081.25	4,979,195.00	4,877,625.00	101,570.00
313385ST4	FEDERAL HOME LOAN BANKS	3.691	99.6530	02/06/2026	50,000,000.00	49,819,000.00	49,826,500.00	49,718,444.45	108,055.55
313313SR0	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.690	99.6700	02/04/2026	14,000,000.00	13,952,135.56	13,953,800.00	13,923,980.00	29,820.00
---	---	3.715	98.6457	05/21/2026	349,000,000.00	344,115,559.87	344,260,050.00	342,273,426.54	1,986,623.46

Agency CMO

FHLMC CMO

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
3137HNZL5	FHR 5607 GJ	4.074	98.2772	05/15/2030	46,231,095.42	45,873,185.82	45,434,613.63	45,868,109.09	(433,495.46)

3137HNZL5	FHR 5607 GJ	4.074	98.2772	05/15/2030	46,231,095.42	45,873,185.82	45,434,613.63	45,868,109.09	(433,495.46)
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Agency CMO
FNMA CMO

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
3136B2HA3	FNA 2018-M10 A2	5.208	99.0514	07/25/2028	9,398,770.03	9,131,412.74	9,309,611.41	9,394,705.79	374,905.63
3136AW7J0	FNA 2017-M8 A2	3.448	98.8591	05/25/2027	9,520,688.40	9,487,228.01	9,412,070.20	9,401,679.79	10,390.41
---	---	4.311	98.9534	12/20/2027	18,919,458.43	18,618,640.75	18,721,681.61	18,336,385.58	385,296.04

Agency MBS
FHLMC

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
3132XFY51	FH WN1620	3.906	99.3255	08/01/2030	25,580,000.00	25,543,449.75	25,407,468.27	25,542,029.69	(134,561.42)
3132XFZP6	FH WN1649	4.072	99.0973	08/01/2030	30,000,000.00	29,777,236.41	29,729,203.20	29,770,312.50	(41,109.30)
3132XFZP6	FH WN1649	3.919	99.0973	08/01/2030	15,210,000.00	15,144,675.13	15,072,706.02	15,144,050.39	(71,344.37)
3132XFXY9	FH WN1594	4.201	99.4666	07/01/2030	25,000,000.00	24,771,571.26	24,866,642.50	24,752,929.69	113,712.81
3132XFXY9	FH WN1594	4.075	99.4666	07/01/2030	25,000,000.00	24,896,194.90	24,866,642.50	24,888,671.88	(22,029.38)
3132XFXY9	FH WN1594	4.075	99.4666	07/01/2030	25,000,000.00	24,896,194.90	24,866,642.50	24,888,671.88	(22,029.38)
3132XFXY9	FH WN1594	4.069	99.4666	07/01/2030	29,955,000.00	29,837,992.28	29,795,211.04	29,829,797.46	(34,586.42)
3132XFXY8	FH WN1626	4.000	99.6270	07/01/2030	25,000,000.00	24,918,880.98	24,906,747.50	24,916,015.63	(9,268.13)
3132XK4S3	FH WN5332	4.130	99.6903	07/01/2030	33,050,000.00	33,037,260.53	32,947,634.24	33,037,089.84	(89,455.61)
3132XK2A4	FH WN5268	4.194	100.0580	06/01/2030	35,293,000.00	35,192,446.66	35,313,469.23	35,184,088.01	129,381.22
3132XKZ91	FH WN5267	4.195	100.0530	06/01/2030	28,034,000.00	27,953,117.25	28,048,858.30	27,946,393.75	102,464.55
3132XHSP2	FH WN3217	3.949	96.0707	06/01/2030	48,701,442.00	46,958,976.02	46,787,827.93	46,838,992.32	(51,164.40)
3132XHSP2	FH WN3217	3.933	96.0707	06/01/2030	29,220,865.20	28,192,597.77	28,072,696.76	28,120,516.99	(47,820.24)
3132XHSP2	FH WN3217	3.948	96.0707	06/01/2030	14,162,379.33	13,655,752.77	13,605,900.36	13,622,438.62	(16,538.26)
3132XFXA1	FH WN1572	4.119	99.5727	05/01/2030	23,506,000.00	23,370,724.13	23,405,563.09	23,359,087.50	46,475.59
3132XFWN4	FH WN1552	4.315	100.5527	04/01/2030	17,369,000.00	17,275,193.45	17,465,005.93	17,263,157.66	201,848.27
3132XKZH3	FH WN5243	4.362	99.5788	04/01/2030	15,000,000.00	14,780,763.12	14,936,824.20	14,953,906.25	182,917.95
3132XKZH3	FH WN5243	4.206	99.5788	04/01/2030	5,548,000.00	5,498,527.93	5,524,633.38	5,494,253.75	30,379.63
3142FEDK3	FH WR1005	4.277	100.3767	04/01/2030	10,000,000.00	9,978,336.80	10,037,666.50	9,976,171.88	61,494.62
3132XFWR5	FH WN1555	4.114	100.1203	04/01/2030	16,156,000.00	16,140,334.14	16,175,433.24	16,138,960.47	36,472.77
3132XKZQ3	FH WN5250	4.130	99.1843	04/01/2030	50,000,000.00	49,507,986.16	49,592,166.50	49,464,843.75	127,322.75
3132XKZQ3	FH WN5250	4.130	99.1843	04/01/2030	50,000,000.00	49,507,986.16	49,592,166.50	49,464,843.75	127,322.75
3132XKZQ3	FH WN5250	4.061	99.1843	04/01/2030	25,000,000.00	24,817,698.00	24,796,083.25	24,803,710.94	(7,627.69)
3132XKZQ3	FH WN5250	4.053	99.1843	04/01/2030	23,341,000.00	23,178,026.30	23,150,615.17	23,165,942.50	(15,327.33)
3132XDCY7	FH WA4486	4.082	99.3847	04/01/2030	14,709,125.78	14,591,496.18	14,618,614.79	14,584,442.95	34,171.84
3132XFDW6	FH WN1543	4.368	100.9508	03/01/2030	14,314,000.00	14,314,000.00	14,450,091.36	14,314,000.00	136,091.36
3132XKY84	FH WN5234	4.070	99.5188	03/01/2030	11,200,000.00	11,158,138.49	11,146,100.11	11,154,062.50	(7,962.39)
3132XK3D7	FH WN5295	3.966	99.6861	03/01/2030	21,840,000.00	21,840,000.00	21,771,452.98	21,840,000.00	(68,547.02)
3132XK3G0	FH WN5298	3.946	99.5764	03/01/2030	11,410,000.00	11,378,616.34	11,361,662.33	11,376,572.27	(14,909.94)
3132XFYA0	FH WN1604	4.013	99.3615	03/01/2030	28,850,000.00	28,632,545.72	28,665,782.65	28,619,384.01	46,398.64
3132XDCS0	FH WA4480	4.039	99.9010	03/01/2030	19,685,136.89	19,627,892.25	19,665,654.90	19,624,389.78	41,265.12
3132XKY35	FH WN5229	4.133	99.9685	02/01/2030	7,300,000.00	7,295,557.30	7,297,702.40	7,295,152.34	2,550.06
3132XK2Q9	FH WN5282	4.015	99.8090	02/01/2030	25,770,000.00	25,770,000.00	25,720,775.18	25,770,000.00	(49,224.82)
3132XK2K2	FH WN5277	3.972	99.6082	01/01/2030	33,000,000.00	32,923,761.86	32,870,722.17	32,917,500.00	(46,777.83)
3132XK2K2	FH WN5277	3.990	99.6082	01/01/2030	31,114,000.00	31,020,483.56	30,992,110.59	31,013,122.58	(21,011.99)
3132XFEX29	FH WN1596	3.965	99.7725	01/01/2030	52,288,000.00	52,288,000.00	52,169,025.45	52,288,000.00	(118,974.55)
3132XK2S5	FH WN5284	3.943	99.6792	12/01/2029	10,875,000.00	10,863,538.28	10,840,108.22	10,862,680.66	(22,572.45)
3132XDCU5	FH WA4482	4.027	99.9427	12/01/2029	15,274,146.93	15,239,413.72	15,265,397.90	15,237,154.85	28,243.05
3132XKV38	FH WN5133	4.382	100.6283	11/01/2029	6,250,000.00	6,203,521.75	6,289,267.31	6,190,673.83	98,593.48
3132XFU00	FH WN1494	4.669	99.8871	11/01/2029	10,741,643.28	10,741,643.28	10,987,576.27	10,679,453.13	308,123.14
3142FFGV3	FH WR2011	4.378	100.0604	11/01/2029	25,000,000.00	24,864,837.67	25,015,102.75	24,838,867.19	176,235.56
3142FFGV3	FH WR2011	4.218	100.0604	11/01/2029	15,000,000.00	15,000,000.00	15,009,061.65	15,000,000.00	9,061.65
3132XFJ58	FH WN1183	4.059	97.9046	10/01/2029	7,470,000.00	7,335,239.07	7,313,476.38	7,290,253.13	23,223.25
3132XFUA4	FH WN1476	4.332	100.1032	10/01/2029	25,000,000.00	24,807,078.22	25,025,807.75	24,777,343.75	248,464.00
3132XKV87	FH WN5138	4.719	99.6159	10/01/2029	15,000,000.00	14,631,839.26	14,942,380.35	14,541,210.94	401,169.41
3132XKV87	FH WN5138	4.239	99.6159	10/01/2029	23,833,000.00	23,612,745.41	23,741,450.06	23,584,429.26	157,020.80
3132XFRX8	FH WN1401	4.241	99.4332	09/01/2029	17,875,000.00	17,670,217.28	17,773,692.19	17,603,383.79	170,308.40
3132XFR91	FH WN1411	4.474	100.2601	09/01/2029	20,000,000.00	19,732,090.70	20,052,023.00	19,647,656.25	404,366.75
3132XFR91	FH WN1411	4.633	100.2601	09/01/2029	15,000,000.00	14,721,401.15	15,039,017.25	14,636,718.75	402,298.50
3132XFR91	FH WN1411	4.370	100.2601	09/01/2029	11,500,000.00	11,383,602.37	11,529,913.23	11,349,960.94	179,952.29
3132XKUQ8	FH WN5090	4.392	99.8169	09/01/2029	20,000,000.00	19,687,868.90	19,597,656.25	19,597,656.25	365,723.35
3132XKUQ8	FH WN5090	4.352	99.8169	09/01/2029	32,000,000.00	31,542,288.53	31,941,407.36	31,410,000.00	531,407.36
3132XKTE7	FH WN5048	4.513	99.5693	08/01/2029	11,495,000.00	11,301,007.86	11,445,494.37	11,266,896.09	178,598.28
3132XKSS7	FH WN5028	3.886	99.6603	07/01/2029	24,971,000.00	24,886,165.27	24,971,000.00	24,971,000.00	(84,834.73)
3132XKSS65	FH WN5040	3.845	99.5551	07/01/2029	27,733,000.00	27,677,364.42	27,609,610.34	27,676,667.34	(67,057.00)
3132XKR25	FH WN5004	4.439	100.0445	06/01/2029	22,870,000.00	22,746,220.09	22,880,165.94	22,696,688.28	183,477.66

3132WW2J0	FH WA3276	4.668	101.7947	02/01/2029	14,603,756.69	14,579,250.39	14,865,855.71	14,567,247.30	298,608.41
3132XG2H8	FH WN2575	4.428	101.2231	02/01/2029	33,705,000.00	33,870,768.69	34,117,239.11	33,947,254.69	169,984.42
3132XGYU4	FH WN2522	4.779	100.9976	12/01/2028	10,000,000.00	9,929,391.84	10,099,755.90	9,884,375.00	215,380.90
3137FKSH0	FHMS K-086 A2	3.795	99.9699	11/25/2028	11,187,000.00	11,186,779.67	11,183,627.12	11,186,776.26	(3,149.14)
3137FJ293	FHMS K-084 A2	3.770	99.7775	10/25/2028	16,255,000.00	16,231,319.97	16,218,831.16	16,230,942.60	(12,111.44)
3132XGX35	FH WN2497	4.611	101.2562	10/01/2028	28,340,000.00	28,252,801.94	28,696,003.11	28,187,229.69	508,773.42
3137FJYH6	FHMS K-W07 A2	5.264	99.2795	09/25/2028	16,627,402.00	16,000,769.37	16,507,602.23	15,471,927.46	1,035,674.77
3137FGZH1	FHMS K-W06 A2	5.290	99.3102	06/25/2028	24,501,308.50	24,332,906.23	24,332,308.52	23,038,886.65	1,293,421.87
3132XFLR7	FH WN1235	4.690	100.2328	01/01/2028	20,000,000.00	19,898,003.73	20,046,557.40	19,760,937.50	285,619.90
3132XFLR7	FH WN1235	4.333	100.2328	01/01/2028	10,000,000.00	9,979,752.22	10,023,278.70	9,953,125.00	70,153.70
3132XGRH1	FH WN2287	3.945	99.0314	11/01/2027	24,180,464.25	24,100,614.29	23,946,258.32	23,972,663.39	(26,405.07)
3132XGRH1	FH WN2287	4.073	99.0314	11/01/2027	24,180,464.25	24,070,450.50	23,946,258.32	23,911,267.68	34,990.64
3132XGQ74	FH WN2277	4.062	99.4726	11/01/2027	9,672,185.70	9,629,621.49	9,621,173.43	9,561,862.33	59,311.10
3137FBX33	FHMS K-068 A2	4.548	98.8722	08/25/2027	9,525,000.00	9,340,208.22	9,417,576.57	9,120,187.50	297,389.07
3137FL2J3	FHMS K-066 A2	3.111	99.0777	06/25/2027	11,095,000.00	11,091,955.64	10,992,672.04	11,084,598.44	(91,926.40)
3137BXQY1	FHMS K-064 A2	3.154	99.1097	03/25/2027	1,000,000.00	1,000,428.14	991,096.94	1,001,760.00	(10,663.06)
3137BXSU3	FHMS K-IR2 A2	4.545	99.1379	03/25/2027	15,000,000.00	14,766,992.04	14,870,685.60	14,389,453.20	481,232.40
3137BXSU3	FHMS K-IR2 A2	3.677	99.1379	03/25/2027	37,500,000.00	37,208,057.32	37,176,714.00	37,201,171.88	(24,457.88)
3137BYLDO	FHMS K-L01 A2E	4.184	99.0932	02/25/2027	15,000,000.00	14,866,932.93	14,863,984.20	14,494,950.00	369,034.20
3137BVZ82	FHMS K-063 A2	3.782	99.2817	01/25/2027	9,963,500.00	9,912,843.76	9,891,935.67	9,909,790.51	(17,854.84)
3137BTUM1	FHMS K-061 A2	4.501	99.2496	11/25/2026	8,574,777.00	8,499,944.40	8,510,430.33	8,220,552.96	289,877.37
3137BTUM1	FHMS K-061 A2	4.561	99.2496	11/25/2026	8,098,400.50	8,023,260.00	8,037,628.64	7,794,872.45	242,756.20
3132XDAU7	FH WA4418	4.107	98.2924	11/01/2026	13,941,011.76	13,694,606.11	13,702,960.48	13,451,442.64	251,517.84
3137FQXJ7	FHMS K-737 A2	4.358	99.0151	10/25/2026	2,035,000.00	2,007,670.68	2,014,957.39	1,986,748.23	28,209.16
3137FQXJ7	FHMS K-737 A2	4.358	99.0151	10/25/2026	50,000,000.00	49,328,518.06	49,507,552.50	48,814,453.13	693,099.37
3137FQXJ7	FHMS K-737 A2	4.358	99.0151	10/25/2026	50,000,000.00	49,328,518.06	49,507,552.50	48,814,453.13	693,099.37
3137FQXJ7	FHMS K-737 A2	4.358	99.0151	10/25/2026	50,000,000.00	49,328,518.06	49,507,552.50	48,814,453.13	693,099.37
3137BSRE5	FHMS K-059 A2	4.148	99.1682	09/25/2026	11,842,572.00	11,757,843.62	11,744,069.51	11,655,681.41	88,388.10
3137BSP72	FHMS K-058 A2	4.465	98.9248	08/25/2026	15,000,000.00	14,837,470.79	14,838,724.80	14,589,843.75	248,881.05
3137BSP72	FHMS K-058 A2	4.142	98.9248	08/25/2026	20,975,000.00	20,784,790.76	20,749,483.51	20,521,907.23	227,576.28
3137BSP72	FHMS K-058 A2	4.251	98.9248	08/25/2026	42,473,000.00	42,062,302.01	42,016,343.90	41,490,811.88	525,532.02
3137FQ3P6	FHMS K-C06 A2	4.291	99.0898	08/25/2026	10,620,238.20	10,512,506.87	10,523,569.07	10,432,724.71	90,844.37
3137BRQJ7	FHMS K-057 A2	4.657	99.0592	07/25/2026	13,705,459.20	13,575,847.35	13,576,521.39	13,083,895.21	492,626.18
3137FNWX4	FHMS K-736 A2	3.655	99.1667	07/25/2026	8,837,917.20	8,783,895.22	8,764,272.78	8,399,473.65	364,799.13
3137FNWX4	FHMS K-736 A2	4.170	99.1667	07/25/2026	42,545,733.40	42,184,259.21	42,191,209.16	41,585,130.73	606,078.44
3137BQYS0	FHMS K-056 A2	4.186	99.3861	05/25/2026	15,136,743.60	15,055,310.30	15,043,822.61	14,856,477.33	187,345.28
3137FMU67	FHMS K-735 A2	3.518	99.4952	05/25/2026	11,481,300.60	11,458,213.54	11,423,347.36	11,211,759.13	171,588.23
3137BPW21	FHMS K-055 A2	4.420	99.6155	03/25/2026	44,786,802.50	44,656,109.77	44,614,580.23	43,967,204.01	647,376.22
3137BPW21	FHMS K-055 A2	4.420	99.6155	03/25/2026	1,339,125.39	1,335,217.68	1,333,975.95	1,314,619.40	19,356.55
3137BPW21	FHMS K-055 A2	4.460	99.6155	03/25/2026	8,957,360.50	8,930,724.89	8,922,916.05	8,788,066.39	134,849.66
3137BP4K2	FHMS K-IR1 A2	4.641	99.5702	03/25/2026	22,370,000.00	22,300,078.75	22,273,860.45	21,817,740.62	456,119.83
3137BNGT5	FHMS K-054 A2	4.286	99.7385	01/25/2026	3,065,706.17	3,065,706.17	3,057,688.74	3,024,391.54	33,297.20
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Agency MBS
FNMA

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
3140Q04W9	FN BZ5336	3.943	99.2372	12/01/2030	23,400,000.00	23,370,201.17	23,221,512.76	23,369,835.95	(148,323.19)
3140Q1CP3	FN BZ5477	4.055	99.2813	11/01/2030	8,909,000.00	8,859,344.33	8,844,974.40	8,858,190.86	(13,216.46)
3140Q1CN8	FN BZ5476	4.055	99.2813	11/01/2030	13,860,000.00	13,782,749.18	13,760,393.45	13,780,954.69	(20,561.24)
3140Q1GR5	FN BZ5607	3.972	98.8603	11/01/2030	38,220,000.00	37,985,899.85	37,784,421.57	37,981,125.00	(196,703.43)
3140Q1D72	FN BZ5525	3.987	98.9432	11/01/2030	24,750,000.00	24,608,826.72	24,488,438.78	24,605,947.27	(117,508.49)
3140Q06B3	FN BZ5365	3.953	99.4586	11/01/2030	34,527,000.00	34,446,804.33	34,340,070.82	34,446,077.34	(106,006.52)
3140Q1C40	FN BZ5490	3.955	99.1484	11/01/2030	25,000,000.00	24,922,923.07	24,787,097.75	24,921,875.00	(134,777.25)
3140Q1JH4	FN BZ5663	4.094	98.7062	11/01/2030	28,849,000.00	28,486,956.70	28,475,746.16	28,483,879.84	(8,133.68)
3140Q0U42	FN BZ5102	4.031	99.1629	10/01/2030	47,851,000.00	47,521,875.83	47,450,430.67	47,507,070.94	(56,640.27)
3140Q03R1	FN BZ5307	3.870	99.1411	10/01/2030	25,000,000.00	24,934,110.54	24,785,268.25	24,931,640.63	(146,372.38)
3140Q0UZ3	FN BZ5099	3.848	99.3155	10/01/2030	32,630,000.00	32,630,000.00	32,406,662.99	32,630,000.00	(223,337.01)
3140Q0XF4	FN BZ5177	3.987	99.9262	10/01/2030	6,580,000.00	6,580,000.00	6,575,144.35	6,580,000.00	(4,855.65)
3140Q0L91	FN BZ4851	3.978	99.6798	09/01/2030	25,000,000.00	25,000,000.00	24,919,948.00	25,000,000.00	(80,052.00)
3140Q0MF6	FN BZ4857	3.996	99.7442	09/01/2030	10,526,000.00	10,526,000.00	10,499,074.91	10,524,355.31	(25,280.40)
3140Q0P30	FN BZ4941	3.972	99.7013	09/01/2030	7,485,000.00	7,470,354.59	7,462,639.54	7,469,503.71	(6,864.17)
3140Q0FN7	FN BZ4672	3.975	99.9160	09/01/2030	32,175,000.00	32,175,000.00	32,147,963.03	32,175,000.00	(27,036.97)
3140Q0FZ0	FN BZ4683	4.107	100.1951	09/01/2030	13,509,000.00	13,503,492.66	13,535,354.30	13,503,195.32	32,158.98
3140Q0HM7	FN BZ4735	4.062	100.0448	09/01/2030	16,530,000.00	16,529,375.55	16,537,404.28	16,529,354.30	8,049.98
3140Q0SN3	FN BZ5024	4.052	100.0019	09/01/2030	6,050,000.00	6,050,000.00	6,050,112.05	6,050,000.00	112.05
3140Q0CZ3	FN BZ4587	4.250	100.7838	08/01/2030	9,750,000.00	9,719,574.93	9,826,421.28	9,716,865.23	109,556.05
3140Q0AY8	FN BZ4522	4.192	100.4037	08/01/2030	20,933,850.00	20,892,210.10	21,018,352.42	20,888,874.93	129,477.49
3140NYUL3	FN BZ4186	4.200	100.5366	08/01/2030	10,601,000.00	10,593,332.13	10,657,880.62	10,592,717.97	65,162.65
3140NY4W8	FN BZ4436	3.922	99.7067	08/01/2030	8,283,000.00	8,283,000.00	8,258,708.61	8,283,000.00	(24,291.39)

3140NYN64	FN BZ4012	4.074	99.8780	07/01/2030	8,345,000.00	8,305,528.79	8,334,819.35	8,301,971.09	32,848.26
3140NY3N9	FN BZ4404	4.069	100.1857	07/01/2030	7,048,000.00	7,041,329.38	7,061,088.07	7,040,841.88	20,246.19
3140NYN49	FN BZ4010	4.104	99.8780	07/01/2030	12,805,000.00	12,757,188.24	12,789,378.28	12,754,480.27	34,898.01
3140NYYN3	FN BZ4006	4.104	99.8780	07/01/2030	18,760,000.00	18,689,953.26	18,737,113.36	18,685,985.94	51,127.42
3140NYMU2	FN BZ3970	4.106	100.1296	05/01/2030	18,485,000.00	18,422,501.60	18,508,955.45	18,417,125.39	91,830.06
3140NYKT7	FN BZ3905	4.067	100.1523	05/01/2030	10,000,000.00	9,981,296.41	10,015,225.00	9,979,687.50	35,537.50
3140NXY72	FN BZ3433	4.213	100.6753	04/01/2030	12,855,000.00	12,855,000.00	12,941,804.16	12,855,000.00	86,804.16
3140NX7M9	FN BZ3599	4.344	100.5527	04/01/2030	35,880,000.00	35,565,842.81	36,078,324.19	35,514,192.21	564,131.98
3140NXWN9	FN BZ3352	4.382	101.4904	03/01/2030	41,362,000.00	41,314,220.43	41,978,460.08	41,305,450.37	673,009.71
3140HXL65	FN BL5748	3.918	94.5702	02/01/2030	12,854,253.17	12,255,489.38	12,156,287.66	12,216,561.71	(60,274.04)
3140NWVP7	FN BZ2421	1.440	101.5614	12/01/2029	31,354,000.00	31,354,000.00	31,843,546.31	31,354,000.00	489,546.31
3140NWVP7	FN BZ2421	4.498	101.5614	12/01/2029	20,000,000.00	19,912,207.73	20,312,270.40	19,889,062.50	423,207.90
3140NW2N4	FN BZ2580	4.589	101.5980	12/01/2029	30,144,000.00	29,927,454.88	30,625,692.38	29,870,820.00	754,872.38
3140NWPY5	FN BZ2238	4.376	101.3038	11/01/2029	9,870,000.00	9,848,252.31	9,998,683.38	9,842,240.63	156,442.75
3140NWHV0	FN BZ2043	4.334	99.1962	11/01/2029	20,000,000.00	19,619,892.77	19,839,241.20	19,566,406.25	272,834.95
3140LHHC7	FN BS6526	3.976	98.4048	10/01/2029	25,000,000.00	24,590,587.64	24,601,201.00	24,573,242.19	27,958.81
3140NWG41	FN BZ2018	3.891	99.2186	10/01/2029	57,415,000.00	57,050,289.11	56,966,339.09	57,029,242.97	(62,903.88)
3140NWG90	FN BZ2023	4.497	100.0278	10/01/2029	15,000,000.00	14,724,849.65	15,004,167.45	14,640,234.38	363,933.07
3140NWEX9	FN BZ1949	4.468	100.0684	10/01/2029	3,444,000.00	3,394,180.92	3,446,357.28	3,380,097.66	66,259.62
3140NWKRS5	FN BZ2103	4.517	100.4148	10/01/2029	15,000,000.00	14,766,415.13	15,062,220.00	14,711,132.81	351,087.19
3140HVBU6	FN BL3660	4.458	95.7761	08/01/2029	24,353,069.00	23,037,229.32	23,324,431.65	22,516,124.61	808,307.04
3140HUNU6	FN BL3102	4.474	95.6435	08/01/2029	21,709,521.00	20,487,077.29	20,763,743.98	19,997,352.14	766,391.84
3140HUNU6	FN BL3102	4.139	95.6435	08/01/2029	4,733,543.96	4,511,432.67	4,527,326.74	4,425,678.70	101,648.04
3140HUNU6	FN BL3102	4.396	95.6435	08/01/2029	24,140,987.35	22,831,035.28	23,089,283.31	22,316,268.19	773,015.12
3140LGYA4	FN BS6104	3.874	99.6241	08/01/2029	21,190,000.00	21,152,384.35	21,110,356.54	21,151,924.22	(41,567.68)
3138LSYU8	FN AM5222	4.323	100.6416	07/01/2029	27,988,172.95	27,988,172.95	28,167,754.58	27,988,172.95	179,581.63
3140NVFJ1	FN BZ1068	4.555	102.0981	06/01/2029	10,000,000.00	10,000,000.00	10,209,812.70	10,000,000.00	209,812.70
3140NVFJ1	FN BZ1068	4.555	102.0981	06/01/2029	15,000,000.00	15,000,000.00	15,314,719.05	15,000,000.00	314,719.05
3140NVE37	FN BZ1053	4.596	102.2177	06/01/2029	15,770,000.00	15,770,000.00	16,119,732.24	15,770,000.00	349,732.24
3140NU4W6	FN BZ0836	4.606	102.2101	05/01/2029	16,365,000.00	16,365,000.00	16,726,678.61	16,365,000.00	361,678.61
3140NU6F1	FN BZ0869	4.623	102.1892	04/01/2029	32,230,000.00	32,203,410.70	32,935,570.46	32,189,712.50	745,857.96
3140NUPT0	FN BZ0433	4.580	100.9739	03/01/2029	25,000,000.00	24,750,319.94	25,243,484.00	24,609,375.00	634,109.00
3140NUPT0	FN BZ0433	4.612	100.9739	03/01/2029	25,681,000.00	25,393,606.98	25,931,116.50	25,236,598.32	694,518.18
3140NURK7	FN BZ0489	4.552	102.2552	02/01/2029	25,000,000.00	25,000,000.00	25,563,798.25	25,000,000.00	563,798.25
3140NURK7	FN BZ0489	4.636	102.2552	02/01/2029	16,000,000.00	15,961,655.33	16,360,830.88	15,942,500.00	418,330.88
3140NUNR6	FN BZ0399	4.670	102.0225	02/01/2029	15,000,000.00	14,960,510.54	15,303,380.25	14,936,718.75	366,661.50
3140LLKK6	FN BS9297	5.110	101.4739	10/01/2028	21,050,000.00	20,690,587.24	21,360,262.27	20,402,054.69	958,207.58
3140LLZT1	FN BS9753	5.092	103.1611	10/01/2028	20,000,000.00	19,970,335.09	20,632,221.00	19,946,875.00	685,346.00
3136B3XY1	FNA 2019-M1 A2	4.441	99.2221	09/25/2028	10,600,562.40	10,452,040.98	10,518,100.20	10,414,224.43	103,875.77
3140LLB83	FN BS9062	5.049	101.6223	09/01/2028	20,000,000.00	19,718,359.81	20,324,469.60	19,481,250.00	843,219.60
3140LLMH1	FN BS9359	5.051	102.4504	08/01/2028	15,874,000.00	15,781,169.40	16,262,974.11	15,699,758.05	563,216.06
3136BQDE6	FNA 2023-M6 A2	4.724	100.3504	07/25/2028	23,863,665.75	23,593,397.90	23,947,286.66	23,370,545.47	576,741.19
3140LLKKW2	FN BS8408	4.658	101.4384	06/01/2028	12,003,000.00	11,932,570.49	12,175,656.07	11,878,750.20	296,905.87
3140LKYQ0	FN BS8818	4.526	100.2243	06/01/2028	25,000,000.00	24,688,181.05	25,056,072.00	24,363,281.25	692,790.75
3140LKU84	FN BS8706	4.510	100.5752	06/01/2028	25,000,000.00	24,743,331.91	25,143,799.00	24,478,515.63	665,283.37
3140LKP9	FN BS8369	4.649	99.9120	05/01/2028	16,850,000.00	16,747,391.34	16,835,177.39	16,657,804.69	177,372.70
3140LKMJ6	FN BS8367	4.651	100.9602	05/01/2028	14,563,000.00	14,419,350.25	14,702,831.16	14,304,734.30	398,096.86
3140LKJCS	FN BS8358	4.074	100.6952	04/01/2028	24,459,000.00	24,459,000.00	24,629,042.39	24,459,000.00	170,042.39
3140LBU27	FN BS1500	4.591	94.3841	03/01/2028	29,612,500.00	27,567,373.04	27,949,496.05	26,109,896.48	1,839,599.57
3140LBU27	FN BS1500	3.741	94.3841	03/01/2028	20,000,000.00	18,931,734.66	18,876,823.00	18,286,718.75	590,104.25
3140LBP64	FN BS1344	4.165	94.3643	03/01/2028	20,000,000.00	18,785,256.25	18,872,854.20	18,017,968.75	854,885.45
3140LHSB7	FN BS6813	4.363	100.7980	02/01/2028	19,478,000.00	19,470,296.93	19,633,438.34	19,459,739.38	173,698.96
3140LJS23	FN BS7736	4.416	100.7197	02/01/2028	20,000,000.00	19,886,315.31	20,143,932.80	19,731,250.00	412,682.80
3140LJS23	FN BS7736	4.071	100.7197	02/01/2028	15,000,000.00	15,000,000.00	15,107,949.60	15,000,000.00	107,949.60
3140LJS23	FN BS7736	4.078	100.7197	02/01/2028	10,000,000.00	10,000,000.00	10,071,966.40	10,000,000.00	71,966.40
3140LHVX5	FN BS6929	4.280	100.7789	11/01/2027	31,100,000.00	31,061,599.73	31,342,235.41	30,996,738.28	345,497.13
3136BML55	FNA 2022-M11 A2	4.554	98.3641	10/25/2027	20,660,453.10	20,306,452.03	20,322,463.38	19,684,453.30	638,010.08
3138LKZ34	FN AN7061	6.197	97.9197	10/01/2027	12,800,000.00	12,427,712.77	12,533,716.61	12,028,000.00	505,716.61
3136AY6X6	FNA 2017-M15 A2	4.609	98.5847	09/25/2027	12,837,398.80	12,636,405.58	12,655,707.63	12,318,386.71	337,320.92
3138LHUZ5	FN AN5099	3.076	99.0661	04/01/2027	23,017,415.75	23,011,647.02	22,802,465.77	22,995,836.91	(193,371.14)
3138LHDY7	FN AN4618	3.829	98.9889	04/01/2027	9,897,597.38	9,799,867.20	9,797,521.19	9,797,074.91	446.28
3138LG4R4	FN AN4431	3.647	99.3346	01/01/2027	42,620,000.00	42,336,318.27	42,336,386.06	42,315,333.59	21,052.47
3138LGMPP8	FN AN3965	3.805	99.1161	01/01/2027	15,225,878.34	15,094,362.24	15,091,298.02	15,089,678.10	1,619.92
3140HV2G8	FN BL4374	4.291	98.4308	10/01/2026	21,300,000.00	20,931,031.96	20,965,752.09	19,947,117.19	1,018,634.90
3136AS4R4	FNA 2016-M7 A2	4.574	99.2199	09/25/2026	13,455,059.89	13,325,360.55	13,350,095.09	13,165,237.90	184,857.19
3138LEVL2	FN AN2418	5.290	98.6729	09/01/2026	15,000,000.00	14,756,369.45	14,800,932.75	14,354,328.92	446,603.83
3138LETC5	FN AN2346	4.438	98.9863	08/01/2026	8,148,489.00	8,068,893.99	8,065,889.32	7,968,649.34	97,239.97
3138LENE7	FN AN2188	3.543	99.1088	07/01/2026	9,535,956.00	9,513,678.15	9,450,969.65	9,352,686.84	98,282.81
3138LECC3	FEDERAL NATIONAL MORTGAGE ASSOCIATION	3.902	99.0715	07/01/2026	4,000,000.00	3,965,596.01	3,962,859.52	3,963,125.00	(265.48)
3138LD5W9	FN AN1760	4.176	99.2403	06/01/2026	15,000,000.00	14,956,524.97	14,886,042.90	14,582,812.50	303,230.40
3136AR5S3	FNA 2016-M5 A2	4.816	99.4628	04/25/2026	9,223,840.40	9,181,065.57	9,174,293.34	9,057,018.58	117,274.76
3138LCW35	FN AN0665	5.458	99.6840	02/01/2026	14,283,090.45	14,260,124.14	14,237,956.03	13,788,203.61	449,752.41

3140HSW31	FN BL1565	3.958	99.7083	02/01/2026	9,000,000.00	8,992,539.32	8,973,749.34	8,928,281.25	45,468.09
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Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
PGYBN2W3RC	Altura Credit Union	4.020	100.0000	09/04/2026	25,000,000.00	25,000,000.00	25,000,000.00	25,000,000.00	0.00
95001KUF9	Wells Fargo Bank, National Association	3.800	100.0000	08/31/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
95001KUF9	Wells Fargo Bank, National Association	3.800	100.0000	08/31/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
95001KUF9	Wells Fargo Bank, National Association	3.800	100.0000	08/31/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
95001KUF9	Wells Fargo Bank, National Association	3.800	100.0000	08/31/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
95001KUJ1	Wells Fargo Bank, National Association	3.800	100.0000	08/31/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
95001KUJ1	Wells Fargo Bank, National Association	3.800	100.0000	08/31/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
46651VGVW0	J.P. Morgan Securities LLC	0.000	100.0000	07/07/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
21684X6A9	Coöperatieve Rabobank U.A., New York Branch	3.800	100.0000	06/12/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115DH90	Toronto-Dominion Bank - New York Branch	3.880	100.0000	06/03/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115DH90	Toronto-Dominion Bank - New York Branch	3.880	100.0000	06/03/2026	10,000,000.00	10,000,000.00	10,000,000.00	10,000,000.00	0.00
78015JUQ8	Royal Bank of Canada New York Branch	3.850	100.0000	06/03/2026	40,000,000.00	40,000,000.00	40,000,000.00	40,000,000.00	0.00
78015JUQ8	Royal Bank of Canada New York Branch	3.850	100.0000	06/03/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
21684XSQ5	Coöperatieve Rabobank U.A., New York Branch	3.850	100.0000	06/02/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
21684XSQ5	Coöperatieve Rabobank U.A., New York Branch	3.850	100.0000	06/02/2026	25,000,000.00	25,000,000.00	25,000,000.00	25,000,000.00	0.00
21684XSQ5	Coöperatieve Rabobank U.A., New York Branch	3.850	100.0000	06/02/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115DGH3	Toronto-Dominion Bank - New York Branch	3.920	100.0000	05/29/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115DDH1	Toronto-Dominion Bank - New York Branch	3.900	100.0000	05/20/2026	30,000,000.00	30,000,000.00	30,000,000.00	30,000,000.00	0.00
78015JNU7	Royal Bank of Canada New York Branch	3.920	100.0000	05/19/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
06051WWL4	Bank of America, National Association	3.950	100.0000	05/15/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115DDH6	Toronto-Dominion Bank - New York Branch	3.980	100.0000	05/13/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115DCV6	Toronto-Dominion Bank - New York Branch	3.980	100.0000	05/12/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115DCD6	Toronto-Dominion Bank - New York Branch	3.950	100.0000	05/11/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115DBH8	Toronto-Dominion Bank - New York Branch	3.950	100.0000	05/06/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
78015JEG8	Royal Bank of Canada New York Branch	4.310	100.0000	03/19/2026	25,000,000.00	25,000,000.00	25,000,000.00	25,000,000.00	0.00
86959TSN7	Svenska Handelsbanken AB (publ)	3.800	100.0000	03/04/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115DAZ9	Toronto-Dominion Bank - New York Branch	4.010	100.0000	02/25/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115D7H3	Toronto-Dominion Bank - New York Branch	3.990	100.0000	02/18/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
21684X4Q6	Coöperatieve Rabobank U.A., New York Branch	4.020	100.0000	02/13/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115DDM5	Toronto-Dominion Bank - New York Branch	4.060	100.0000	02/13/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115DAV8	Toronto-Dominion Bank - New York Branch	4.010	100.0000	02/11/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
78015JKY2	Royal Bank of Canada New York Branch	4.180	100.0000	02/09/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115D6Z4	Toronto-Dominion Bank - New York Branch	3.990	100.0000	02/04/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
78015JLG0	Royal Bank of Canada New York Branch	4.190	100.0000	01/30/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
78015JLG0	Royal Bank of Canada New York Branch	4.190	100.0000	01/30/2026	25,000,000.00	25,000,000.00	25,000,000.00	25,000,000.00	0.00
86959TSD9	Svenska Handelsbanken AB (publ)	3.820	100.0000	01/30/2026	65,000,000.00	65,000,000.00	65,000,000.00	65,000,000.00	0.00
78015JEQ6	Royal Bank of Canada New York Branch	4.310	100.0000	01/21/2026	25,000,000.00	25,000,000.00	25,000,000.00	25,000,000.00	0.00
78015JEC7	Royal Bank of Canada New York Branch	4.270	100.0000	01/16/2026	25,000,000.00	25,000,000.00	25,000,000.00	25,000,000.00	0.00
86959TQW9	Svenska Handelsbanken AB (publ)	4.100	100.0000	01/16/2026	100,000,000.00	100,000,000.00	100,000,000.00	100,000,000.00	0.00
78015JKL0	Royal Bank of Canada New York Branch	4.230	100.0000	01/15/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
86959TRH1	Svenska Handelsbanken AB (publ)	3.970	100.0000	01/15/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
86959TRM0	Svenska Handelsbanken AB (publ)	3.940	100.0000	01/15/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115DDDD5	Toronto-Dominion Bank - New York Branch	4.010	100.0000	01/15/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
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Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
7426MSKW3	Private Export Funding Corporation	3.648	97.0387	10/30/2026	25,000,000.00	24,259,680.56	24,259,680.56	24,193,493.06	66,187.50
7426MSKE3	Private Export Funding Corporation	3.574	97.2433	10/14/2026	25,000,000.00	24,310,819.45	24,310,819.45	24,272,263.89	38,555.56
46656HKP6	J.P. Morgan Securities LLC	4.257	100.0000	08/31/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
46656HKP6	J.P. Morgan Securities LLC	4.257	100.0000	08/31/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
46656HKE1	J.P. Morgan Securities LLC	4.254	100.0000	08/10/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
46656HKE1	J.P. Morgan Securities LLC	4.254	100.0000	08/10/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
7426M3GX1	Private Export Funding Corporation	3.791	97.8373	07/31/2026	50,000,000.00	48,918,625.00	48,918,625.00	48,667,500.00	251,125.00
7426M3GV5	Private Export Funding Corporation	3.787	97.8578	07/29/2026	30,000,000.00	29,357,325.00	29,357,325.00	29,228,175.00	129,150.00
7426M3GN3	Private Export Funding Corporation	3.693	97.9744	07/22/2026	25,000,000.00	24,493,597.22	24,493,597.22	24,438,444.44	55,152.78
7426M3G86	Private Export Funding Corporation	3.591	98.1618	07/08/2026	50,000,000.00	49,080,888.89	49,080,888.89	49,007,555.56	73,333.33
46651VHA7	J.P. Morgan Securities LLC	3.890	100.0000	07/06/2026	20,000,000.00	20,000,000.26	19,999,999.90	20,000,000.30	(0.40)
46651VHA7	J.P. Morgan Securities LLC	3.890	100.0000	07/06/2026	50,000,000.00	49,999,999.74	49,999,999.74	49,999,999.70	0.04
7426M3G29	Private Export Funding Corporation	3.772	98.1446	07/02/2026	50,000,000.00	49,072,305.56	49,072,305.56	48,644,138.89	428,166.67
78015DF88	Royal Bank of Canada New York Branch	3.863	98.3366	06/08/2026	50,000,000.00	49,168,305.56	49,168,305.56	49,052,500.00	115,805.56

78015DF88	Royal Bank of Canada New York Branch	3.863	98.3366	06/08/2026	50,000,000.00	49,168,305.56	49,168,305.56	49,052,500.00	115,805.56
78015DF88	Royal Bank of Canada New York Branch	3.863	98.3366	06/08/2026	50,000,000.00	49,168,305.56	49,168,305.56	49,052,500.00	115,805.56
7426M3EV7	Private Export Funding Corporation	3.812	98.4748	05/29/2026	25,000,000.00	24,618,694.45	24,618,694.45	24,332,715.28	285,979.17
7426M5EV2	Private Export Funding Corporation	3.799	98.4748	05/29/2026	25,000,000.00	24,618,694.44	24,618,694.44	24,415,159.72	203,534.72
21687BEJ6	Coöperatieve Rabobank U.A., New York Branch	3.937	98.5311	05/18/2026	25,000,000.00	24,632,763.89	24,632,763.89	24,512,138.89	120,625.00
7426M3ED7	Private Export Funding Corporation	3.687	98.6690	05/13/2026	25,000,000.00	24,667,250.00	24,667,250.00	24,611,791.67	55,458.33
47816GED7	Johnson & Johnson	3.625	98.6910	05/13/2026	50,000,000.00	49,345,500.00	49,345,500.00	49,246,333.33	99,166.67
46651VG2	J.P. Morgan Securities LLC	4.016	100.0000	05/11/2026	25,000,000.00	25,000,000.00	25,000,000.00	25,000,000.00	0.00
46651VG2	J.P. Morgan Securities LLC	4.016	100.0000	05/11/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
46651VG2	J.P. Morgan Securities LLC	4.016	100.0000	05/11/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
46651VG2	J.P. Morgan Securities LLC	4.016	100.0000	05/11/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
46651VG2	J.P. Morgan Securities LLC	4.016	100.0000	05/11/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
7426M3E88	Private Export Funding Corporation	4.091	98.5995	05/08/2026	50,000,000.00	49,299,736.11	49,299,736.11	48,516,763.89	782,972.22
7426M3DH9	Private Export Funding Corporation	4.218	98.7957	04/17/2026	25,000,000.00	24,698,930.56	24,698,930.56	24,238,805.56	460,125.00
71344UDA4	PepsiCo, Inc.	3.582	99.0265	04/10/2026	50,000,000.00	49,513,250.00	49,513,250.00	49,414,916.67	98,333.33
7426M5CX0	Private Export Funding Corporation	4.063	99.0210	03/31/2026	50,000,000.00	49,510,500.00	49,510,500.00	48,735,000.00	775,500.00
63763QCK1	National Securities Clearing Corporation	3.915	99.1723	03/19/2026	50,000,000.00	49,586,125.00	49,586,125.00	49,430,250.00	155,875.00
63763QCK1	National Securities Clearing Corporation	3.915	99.1723	03/19/2026	10,000,000.00	9,917,225.00	9,917,225.00	9,886,050.00	31,175.00
21687BCG4	Coöperatieve Rabobank U.A., New York Branch	3.903	99.2107	03/16/2026	50,000,000.00	49,605,333.34	49,605,333.34	49,194,666.67	410,666.67
21687BCG4	Coöperatieve Rabobank U.A., New York Branch	3.903	99.2107	03/16/2026	50,000,000.00	49,605,333.34	49,605,333.34	49,194,666.67	410,666.67
47816GBL2	Johnson & Johnson	3.709	99.4889	02/20/2026	25,000,000.00	24,872,222.23	24,872,222.23	24,803,222.23	68,999.99
47816GBL2	Johnson & Johnson	3.709	99.4889	02/20/2026	50,000,000.00	49,744,444.44	49,744,444.44	49,606,444.44	138,000.00
71344UBK4	PepsiCo, Inc.	3.676	99.5032	02/19/2026	25,000,000.00	24,875,798.61	24,875,798.61	24,822,569.44	53,229.17
71344UBJ7	PepsiCo, Inc.	3.676	99.5133	02/18/2026	50,000,000.00	49,756,666.66	49,756,666.66	49,645,138.89	111,527.77
71344UBJ7	PepsiCo, Inc.	3.676	99.5133	02/18/2026	50,000,000.00	49,756,666.66	49,756,666.66	49,650,208.33	106,458.33
71344UBH1	PepsiCo, Inc.	3.708	99.5196	02/17/2026	25,000,000.00	24,879,888.89	24,879,888.89	24,808,333.33	71,555.56
47816GBD0	Johnson & Johnson	3.717	99.5593	02/13/2026	50,000,000.00	49,779,625.00	49,779,625.00	49,636,125.00	143,500.00
47816GBD0	Johnson & Johnson	3.717	99.5593	02/13/2026	15,000,000.00	14,933,887.50	14,933,887.50	14,890,837.50	43,050.00
47816GBD0	Johnson & Johnson	3.717	99.5593	02/13/2026	50,000,000.00	49,779,625.00	49,779,625.00	49,636,125.00	143,500.00
71344UBD0	PepsiCo, Inc.	3.747	99.5581	02/13/2026	50,000,000.00	49,777,833.33	49,779,027.78	49,638,333.33	140,694.45
71344UBD0	PepsiCo, Inc.	3.725	99.5581	02/13/2026	50,000,000.00	49,779,027.78	49,779,027.78	49,660,833.33	118,194.45
71344UBD0	PepsiCo, Inc.	3.725	99.5581	02/13/2026	25,000,000.00	24,889,513.89	24,889,513.89	24,832,986.11	56,527.78
63763QB48	National Securities Clearing Corporation	3.893	99.6364	02/04/2026	27,000,000.00	26,901,825.00	26,901,825.00	26,702,587.50	199,237.50
89233HB29	Toyota Motor Credit Corporation	3.989	99.6489	02/02/2026	50,000,000.00	49,824,444.44	49,824,444.44	49,517,222.22	307,222.22
7426M3AW9	Private Export Funding Corporation	4.226	99.6601	01/30/2026	25,000,000.00	24,917,430.56	24,915,013.89	24,256,875.00	658,138.89
7426M3AW9	Private Export Funding Corporation	4.339	99.6601	01/30/2026	25,000,000.00	24,915,013.89	24,915,013.89	24,314,250.00	600,763.89
63763QAV9	National Securities Clearing Corporation	4.064	99.6889	01/29/2026	35,000,000.00	34,891,111.11	34,891,111.11	34,451,666.67	439,444.44
63763QAU1	National Securities Clearing Corporation	4.097	99.6977	01/28/2026	50,000,000.00	49,848,875.00	49,848,875.00	49,182,805.55	666,069.45
63763QAU1	National Securities Clearing Corporation	4.097	99.6977	01/28/2026	25,000,000.00	24,924,437.50	24,924,437.50	24,591,402.78	333,034.72
47816GAS8	Johnson & Johnson	3.791	99.7382	01/26/2026	30,000,000.00	29,921,458.33	29,921,458.33	29,830,350.00	91,108.33
47816GAS8	Johnson & Johnson	3.791	99.7382	01/26/2026	50,000,000.00	49,869,097.22	49,869,097.22	49,717,250.00	151,847.22
47816GAP4	Johnson & Johnson	3.856	99.7659	01/23/2026	50,000,000.00	49,882,972.22	49,882,972.22	49,664,875.00	218,097.22
63763QAM9	National Securities Clearing Corporation	3.976	99.7839	01/21/2026	25,000,000.00	24,945,277.78	24,945,972.22	24,772,902.78	173,069.44
63763QAM9	National Securities Clearing Corporation	3.923	99.7839	01/21/2026	50,000,000.00	49,891,944.44	49,891,944.44	49,583,986.11	307,958.33
63763QAM9	National Securities Clearing Corporation	3.923	99.7839	01/21/2026	15,000,000.00	14,967,583.33	14,967,583.33	14,875,195.83	92,387.50
47816GAM1	Johnson & Johnson	3.739	99.7933	01/21/2026	50,000,000.00	49,896,666.67	49,896,666.67	49,746,833.33	149,833.34
4523EMAM5	Illinois Tool Works Inc.	3.880	99.7856	01/21/2026	21,374,000.00	21,328,164.64	21,328,164.64	21,261,703.38	66,461.26
7426M5AL8	Private Export Funding Corporation	4.278	99.7789	01/20/2026	25,000,000.00	24,944,715.28	24,944,715.28	24,487,888.89	456,826.39
63763QAL1	National Securities Clearing Corporation	3.972	99.7942	01/20/2026	30,000,000.00	29,937,775.00	29,938,250.00	29,679,050.00	259,200.00
63763QAL1	National Securities Clearing Corporation	3.926	99.7942	01/20/2026	50,000,000.00	49,897,083.33	49,897,083.33	49,675,000.00	222,083.33
63763QAG2	National Securities Clearing Corporation	3.983	99.8358	01/16/2026	20,000,000.00	19,967,166.67	19,967,166.67	19,785,488.89	181,677.78
64105HAG7	Nestle Capital Corporation	3.623	99.8496	01/16/2026	50,000,000.00	49,924,791.67	49,924,791.67	49,819,500.00	105,291.67
0556C3AG6	BMW US Capital, LLC	3.731	99.8450	01/16/2026	50,000,000.00	49,922,500.00	49,922,500.00	49,855,333.34	67,166.66
0556C3AG6	BMW US Capital, LLC	3.731	99.8450	01/16/2026	50,000,000.00	49,922,500.00	49,922,500.00	49,855,333.33	67,166.66
63763QAE7	National Securities Clearing Corporation	4.091	99.8545	01/14/2026	50,000,000.00	49,927,236.11	49,927,236.11	49,255,569.44	671,666.67
0556C3AE1	BMW US Capital, LLC	3.730	99.8657	01/14/2026	100,000,000.00	99,865,666.67	99,865,666.67	99,731,333.33	134,333.34
63763QAD9	National Securities Clearing Corporation	3.973	99.8687	01/13/2026	45,000,000.00	44,940,900.00	44,940,900.00	44,630,625.00	310,275.00
63763QAC1	National Securities Clearing Corporation	3.866	99.8824	01/12/2026	40,000,000.00	39,952,944.45	39,952,944.45	39,833,166.67	119,777.78
63763QA80	National Securities Clearing Corporation	4.143	99.9207	01/08/2026	50,000,000.00	49,960,333.33	49,960,333.33	49,240,666.67	719,666.66
63763QA72	National Securities Clearing Corporation	4.352	99.9288	01/07/2026	50,000,000.00	49,964,416.67	49,964,416.67	49,057,041.67	907,375.00
6698M5A74	Novartis Finance Corporation	3.915	99.9350	01/07/2026	50,000,000.00	49,967,500.00	49,967,500.00	49,810,416.67	157,083.33
14912EA72	Caterpillar Financial Services Corporation	3.717	99.9382	01/07/2026	50,000,000.00	49,969,083.33	49,969,083.33	49,902,097.22	66,986.11
14912EA72	Caterpillar Financial Services Corporation	3.717	99.9382	01/07/2026	5,200,000.00	5,196,784.67	5,196,784.67	5,189,818.12	6,966.55
14912EA72	Caterpillar Financial Services Corporation	3.717	99.9382	01/07/2026	50,000,000.00	49,969,083.33	49,969,083.33	49,902,097.22	66,986.11
63763QA23	National Securities Clearing Corporation	3.862	99.9893	01/02/2026	25,000,000.00	24,997,326.39	24,997,326.39	24,922,465.28	74,861.11
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Corporate
CORP

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
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037833DK3	APPLE INC	4.252	99.0172	11/13/2027	11,148,000.00	10,905,942.99	11,038,437.46	10,755,590.40	282,847.06
037833DK3	APPLE INC	4.070	99.0172	11/13/2027	8,275,000.00	8,119,823.19	8,193,673.30	8,057,615.75	136,057.55
037833DB3	APPLE INC	4.444	98.8263	09/12/2027	4,296,000.00	4,192,103.65	4,245,577.85	4,104,656.16	140,921.69
037833DB3	APPLE INC	3.620	98.8263	09/12/2027	25,000,000.00	24,713,055.81	24,706,575.00	24,497,500.00	209,075.00
037833DB3	APPLE INC	3.618	98.8263	09/12/2027	10,000,000.00	9,885,461.99	9,882,630.00	9,800,900.00	81,730.00
037833DB3	APPLE INC	4.322	98.8263	09/12/2027	8,635,000.00	8,440,830.23	8,533,651.01	8,308,769.70	224,881.31
931142EX7	WALMART INC	4.404	100.5968	09/09/2027	20,000,000.00	19,857,929.58	20,119,360.00	19,738,000.00	381,360.00
931142EX7	WALMART INC	4.326	100.5968	09/09/2027	3,770,000.00	3,747,780.27	3,792,499.36	3,729,095.50	63,403.86
594918CQ5	MICROSOFT CORP	3.994	99.7609	06/15/2027	6,441,000.00	6,388,821.05	6,425,599.57	6,339,103.38	86,496.19
594918CQ5	MICROSOFT CORP	3.718	99.7609	06/15/2027	5,000,000.00	4,978,122.40	4,988,045.00	4,958,350.00	29,695.00
037833CR9	APPLE INC	3.677	99.4829	05/11/2027	20,000,000.00	19,877,252.34	19,896,580.00	19,761,200.00	135,380.00
037833CR9	APPLE INC	3.647	99.4829	05/11/2027	10,411,000.00	10,351,120.33	10,357,164.72	10,295,958.45	61,206.27
931142CH4	WALMART INC	3.581	102.8663	04/05/2027	3,351,000.00	3,442,658.07	3,447,049.71	3,536,712.42	(89,662.71)
771196BV3	ROCHE HOLDINGS INC	4.559	98.3638	03/10/2027	5,000,000.00	4,875,609.25	4,918,190.00	4,726,800.00	191,390.00
771196BV3	ROCHE HOLDINGS INC	4.326	98.3638	03/10/2027	25,000,000.00	24,440,518.42	24,590,950.00	23,772,500.00	818,450.00
771196BV3	ROCHE HOLDINGS INC	4.213	98.3638	03/10/2027	20,000,000.00	19,576,622.22	19,672,760.00	19,084,800.00	587,960.00
771196BV3	ROCHE HOLDINGS INC	4.128	98.3638	03/10/2027	5,710,000.00	5,594,389.28	5,616,572.98	5,461,957.60	154,615.38
771196BV3	ROCHE HOLDINGS INC	3.870	98.3638	03/10/2027	6,000,000.00	5,895,050.22	5,901,828.00	5,785,980.00	115,848.00
594918CQ7	MICROSOFT CORP	4.560	99.7491	09/15/2026	14,108,000.00	14,000,837.97	14,072,603.03	13,685,606.48	386,996.55
037833DN7	APPLE INC	4.211	98.8962	09/11/2026	15,000,000.00	14,785,019.89	14,834,430.00	14,538,600.00	295,830.00
037833DN7	APPLE INC	5.003	98.8962	09/11/2026	10,557,000.00	10,355,466.87	10,440,471.83	9,891,064.44	549,407.39
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MM Fund
MMFUND

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
949921126	ALLSPRING:GOVT MM SEL	3.740	1.0000	12/31/2025	120,000,000.00	120,000,000.00	120,000,000.00	120,000,000.00	0.00
31607A703	FIDELITY IMM:GOVT INSTL	3.730	1.0000	12/31/2025	10,000,000.00	10,000,000.00	10,000,000.00	10,000,000.00	0.00
665278404	NORTHERN INST:US GVT SHS	3.640	1.0000	12/31/2025	187,500.00	187,500.00	187,500.00	187,500.00	0.00
85749T517	SS INST INV:US GV MM OPP	3.720	1.0000	12/31/2025	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00	0.00
69347S	PNC BANK DEPOSIT	3.750	1.0000	12/31/2025	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
69347S	PNC BANK DEPOSIT	3.750	1.0000	12/31/2025	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
69347S	PNC BANK DEPOSIT	3.750	1.0000	12/31/2025	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
4812CA538	JPMORGAN:US GVT MM EMPWR	3.680	1.0000	12/31/2025	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00	0.00
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Muni
MUNI

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
60412AR54	MINNESOTA ST	4.051	101.0209	08/01/2028	1,250,000.00	1,250,000.00	1,262,760.87	1,250,000.00	12,760.87
419792M29	HAWAII ST	4.513	102.4667	10/01/2027	5,000,000.00	5,038,847.83	5,123,335.18	5,084,150.00	39,185.18
13063D3N6	CALIFORNIA ST	4.847	101.3494	03/01/2027	9,300,000.00	9,300,000.00	9,425,495.87	9,300,000.00	125,495.87
13063DRD2	CALIFORNIA ST	4.259	99.0047	10/01/2026	5,500,000.00	5,425,698.20	5,445,259.75	5,336,155.00	109,104.75
13063EBN5	CALIFORNIA ST	5.096	101.0900	09/01/2026	30,000,000.00	30,075,509.58	30,326,990.14	30,269,100.00	57,890.14
93974EYC4	WASHINGTON STATE	3.370	99.9370	08/01/2026	20,825,000.00	20,825,000.00	20,811,872.45	20,825,000.00	(13,127.55)
13063DMA3	CALIFORNIA ST	4.011	99.7522	04/01/2026	13,500,000.00	13,455,933.58	13,466,552.85	13,335,975.00	130,577.85
91411UBB0	UNIVERSITY CALIF REVS 0% CP 02-11-2026	4.007	99.5270	02/11/2026	14,000,000.00	13,938,773.34	13,933,778.60	13,895,466.67	38,311.93
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Mutual Fund
Open-End Fund

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
900999101	CalTRUST Liquidity Fund	3.806	1.0000	---	93,865,661.30	93,865,661.30	93,865,661.30	93,865,661.30	0.00
900999101	CalTRUST Liquidity Fund	3.806	1.0000	---	9,134,338.70	9,134,338.70	9,134,338.70	9,134,338.70	0.00
900999101	CalTRUST Liquidity Fund	3.806	1.0000	---	40,000,000.00	40,000,000.00	40,000,000.00	40,000,000.00	0.00
900999101	CalTRUST Liquidity Fund	3.806	1.0000	---	20,000,000.00	20,000,000.00	20,000,000.00	20,000,000.00	0.00
900999101	CalTRUST Liquidity Fund	3.806	1.0000	---	150,000,000.00	150,000,000.00	150,000,000.00	150,000,000.00	0.00
900999101	CalTRUST Liquidity Fund	3.806	1.0000	---	313,000,000.00	313,000,000.00	313,000,000.00	313,000,000.00	0.00

Non-US Gov
SUPRANATIONAL

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
459058LY7	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM	3.609	98.8757	10/28/2030	8,500,000.00	8,459,340.77	8,404,434.50	8,457,840.00	(53,405.50)
459058KD4	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM	4.630	100.0728	11/22/2028	10,000,000.00	10,000,000.00	10,007,280.00	10,000,000.00	7,280.00

459058LG6	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM	5.590	100.1217	05/15/2028	10,000,000.00	10,010,733.58	10,012,170.00	10,017,000.00	(4,830.00)
459058LG6	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM	5.584	100.1217	05/15/2028	10,000,000.00	10,010,243.42	10,012,170.00	10,016,200.00	(4,030.00)
459058LG6	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM	5.601	100.1217	05/15/2028	10,000,000.00	10,008,994.47	10,012,170.00	10,014,100.00	(1,930.00)
459058LG6	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM	5.096	100.1217	05/15/2028	5,000,000.00	5,003,908.13	5,006,085.00	5,006,000.00	85.00
459058LG6	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM	4.919	100.1217	05/15/2028	10,000,000.00	10,004,567.20	10,012,170.00	10,006,600.00	5,570.00
45950VTK2	INTERNATIONAL FINANCE CORP	4.841	101.3825	03/23/2027	15,000,000.00	15,000,000.00	15,207,373.65	15,000,000.00	207,373.65
459058KN2	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM	4.222	100.1716	01/12/2027	9,665,000.00	9,691,022.65	9,681,585.14	9,692,545.25	(10,960.11)
459053XX7	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM	3.697	98.3891	06/10/2026	25,000,000.00	24,602,222.22	24,597,275.00	24,530,125.00	67,150.00
45950VSY3	INTERNATIONAL FINANCE CORPORATION	4.644	100.0679	02/26/2026	25,000,000.00	25,000,000.00	25,016,985.75	25,000,000.00	16,985.75
45818LSG6	INTER-AMERICAN DEVELOPMENT BANK	3.772	99.7568	01/26/2026	50,000,000.00	49,871,527.78	49,878,400.00	49,727,638.89	150,761.11

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Repo
REPO

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
RP01062026373	Reference Number: L25123000014A0	3.730	100.0000	01/06/2026	250,000,000.00	250,000,000.00	250,000,000.00	250,000,000.00	0.00
RP01052026375	Reference Number: L25122900011A0	3.750	100.0000	01/05/2026	300,000,000.00	300,000,000.00	300,000,000.00	300,000,000.00	0.00
RP01052026377	Reference Number: L25123100011A0	3.770	100.0000	01/05/2026	450,000,000.00	450,000,000.00	450,000,000.00	450,000,000.00	0.00
---	---	3.754	100.0000	01/05/2026	1,000,000,000.00	1,000,000,000.00	1,000,000,000.00	1,000,000,000.00	0.00

US Gov
T-BILL

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
912797SK4	UNITED STATES TREASURY	3.617	97.1708	10/29/2026	50,000,000.00	48,544,226.04	48,585,416.50	48,428,151.04	157,265.46
912797SA6	UNITED STATES TREASURY	3.603	97.4349	10/01/2026	50,000,000.00	48,682,016.67	48,717,444.50	48,566,150.00	151,294.50
912797PV3	UNITED STATES TREASURY	4.135	99.2548	03/19/2026	10,000,000.00	9,915,385.56	9,925,477.80	9,600,004.45	325,473.35
---	UNITED STATES TREASURY	3.659	97.4837	09/26/2026	110,000,000.00	107,141,628.26	107,228,338.80	106,594,305.49	634,033.31

US Gov
US GOV

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
91282CKX8	UNITED STATES TREASURY	4.045	102.1484	06/30/2029	25,000,000.00	25,163,339.32	25,537,109.25	25,189,453.13	347,656.12
91282CKT7	UNITED STATES TREASURY	3.980	102.8984	05/31/2029	20,000,000.00	20,324,923.05	20,579,687.40	20,381,250.00	198,437.40
91282CJF9	UNITED STATES TREASURY	4.010	103.5508	10/31/2028	10,000,000.00	10,225,813.22	10,355,078.10	10,282,812.50	72,265.60
91282CCY5	UNITED STATES TREASURY	3.548	94.0703	09/30/2028	7,000,000.00	6,591,522.93	6,584,921.84	6,405,000.00	179,921.84
912810FB9	UNITED STATES TREASURY	4.003	104.5156	11/15/2027	15,000,000.00	15,534,766.48	15,677,343.75	16,425,000.00	(747,656.25)
91282CFH9	UNITED STATES TREASURY	3.269	99.4258	08/31/2027	5,000,000.00	4,989,027.52	4,971,289.05	4,966,992.19	4,296.86
912810FA1	UNITED STATES TREASURY	3.247	104.3359	08/15/2027	15,000,000.00	15,696,018.08	15,650,390.55	17,133,984.38	(1,483,593.83)
912810FA1	UNITED STATES TREASURY	3.483	104.3359	08/15/2027	15,000,000.00	15,639,715.41	15,650,390.55	16,957,031.25	(1,306,640.70)
91282CEW7	UNITED STATES TREASURY	3.109	99.6563	06/30/2027	15,000,000.00	15,028,997.79	14,948,437.50	15,094,335.94	(145,898.44)
91282CEW7	UNITED STATES TREASURY	3.213	99.6563	06/30/2027	15,000,000.00	15,007,577.46	14,948,437.50	15,024,609.38	(76,171.88)
91282ZS2	UNITED STATES TREASURY	2.845	95.9102	05/31/2027	20,000,000.00	19,387,670.71	19,182,031.20	17,828,906.25	1,353,124.95
91282CEF4	UNITED STATES TREASURY	2.502	98.7578	03/31/2027	25,000,000.00	24,999,514.39	24,689,453.00	24,998,046.88	(308,593.88)
91282CEF4	UNITED STATES TREASURY	2.503	98.7578	03/31/2027	25,000,000.00	24,999,028.79	24,689,453.00	24,996,093.75	(306,640.75)
912810EZ7	UNITED STATES TREASURY	3.048	103.3086	02/15/2027	15,000,000.00	15,558,123.20	15,496,289.10	17,248,828.13	(1,752,539.03)
91282CDQ1	UNITED STATES TREASURY	3.624	97.7773	12/31/2026	50,000,000.00	48,848,870.63	48,888,672.00	48,779,296.88	109,375.12
91282CDQ1	UNITED STATES TREASURY	3.630	97.7773	12/31/2026	50,000,000.00	48,846,333.98	48,888,672.00	48,773,437.50	115,234.50
91282CJP7	UNITED STATES TREASURY	3.616	100.7773	12/15/2026	50,000,000.00	50,351,752.02	50,388,672.00	50,375,000.00	13,672.00
91282CLY5	UNITED STATES TREASURY	3.668	100.6055	11/30/2026	50,000,000.00	50,257,734.59	50,302,734.50	50,291,015.63	11,718.87
912810EY0	UNITED STATES TREASURY	4.205	102.3945	11/15/2026	25,000,000.00	25,454,195.56	25,598,632.75	27,136,718.75	(1,538,086.00)
91282CDG3	UNITED STATES TREASURY	2.884	97.9922	10/31/2026	10,000,000.00	9,864,190.66	9,799,218.70	9,258,203.13	541,015.57
91282CJC6	UNITED STATES TREASURY	3.602	100.7969	10/15/2026	50,000,000.00	50,391,443.35	50,398,437.50	50,488,281.25	(89,843.75)
91282CJC6	UNITED STATES TREASURY	3.698	100.7969	10/15/2026	50,000,000.00	50,354,200.63	50,398,437.50	50,425,781.25	(27,343.75)
91282CCZ2	UNITED STATES TREASURY	2.540	98.0234	09/30/2026	15,000,000.00	14,825,317.25	14,703,515.55	13,943,554.69	759,960.86
91282CCZ2	UNITED STATES TREASURY	0.982	98.0234	09/30/2026	20,000,000.00	19,984,483.43	19,604,687.40	19,895,833.60	(291,146.20)
91282CCW9	UNITED STATES TREASURY	0.902	98.1680	08/31/2026	25,000,000.00	24,975,475.38	24,541,992.25	24,817,382.81	(275,390.56)
91282CCW9	UNITED STATES TREASURY	0.832	98.1680	08/31/2026	25,000,000.00	24,986,802.15	24,541,992.25	24,900,416.25	(358,424.00)
912828Y95	UNITED STATES TREASURY	3.911	99.0391	07/31/2026	50,000,000.00	49,427,495.79	49,519,531.00	49,044,921.88	474,609.12
91282CCJ8	UNITED STATES TREASURY	0.882	98.6875	06/30/2026	20,000,000.00	19,999,326.04	19,737,500.00	19,993,166.80	(255,666.80)
91282CCJ8	UNITED STATES TREASURY	0.906	98.6875	06/30/2026	35,000,000.00	34,994,741.01	34,540,625.00	34,946,679.69	(406,054.69)
91282CCJ8	UNITED STATES TREASURY	3.757	98.6875	06/30/2026	15,000,000.00	14,790,004.19	14,803,125.00	14,738,671.88	64,453.12
91282CKY6	UNITED STATES TREASURY	4.101	100.5156	06/30/2026	50,000,000.00	50,125,280.56	50,257,812.50	50,251,953.13	5,859.37
91282CBT7	UNITED STATES TREASURY	0.715	99.3164	03/31/2026	25,000,000.00	25,002,098.11	24,829,101.50	25,039,062.50	(209,961.00)
91282CKH3	UNITED STATES TREASURY	4.125	100.2109	03/31/2026	10,000,000.00	10,008,832.35	10,021,093.70	10,036,718.75	(15,625.05)
91282CKH3	UNITED STATES TREASURY	4.107	100.2109	03/31/2026	10,000,000.00	10,009,252.14	10,021,093.70	10,038,671.88	(17,578.18)
91282CBQ3	UNITED STATES TREASURY	0.591	99.4766	02/28/2026	20,000,000.00	19,997,154.22	19,895,312.40	19,910,508.60	(15,196.20)

91282CKB6	UNITED STATES TREASURY	4.212	100.1289	02/28/2026	50,000,000.00	50,031,792.83	50,064,453.00	50,201,171.87	(136,718.87)
91282CKB6	UNITED STATES TREASURY	4.212	100.1289	02/28/2026	5,000,000.00	5,003,179.28	5,006,445.30	5,020,117.19	(13,671.89)
912828P46	UNITED STATES TREASURY	0.799	99.7266	02/15/2026	10,000,000.00	10,009,961.93	9,972,656.20	10,401,560.00	(428,903.80)
912828P46	UNITED STATES TREASURY	0.670	99.7266	02/15/2026	10,000,000.00	10,011,560.95	9,972,656.20	10,466,015.63	(493,359.43)
912828P46	UNITED STATES TREASURY	4.307	99.7266	02/15/2026	50,000,000.00	49,839,800.47	49,863,281.00	48,714,843.75	1,148,437.25
91282CBH3	UNITED STATES TREASURY	0.593	99.7109	01/31/2026	10,000,000.00	9,998,237.56	9,971,093.70	9,894,140.63	76,953.07
91282CBH3	UNITED STATES TREASURY	2.447	99.7109	01/31/2026	15,000,000.00	14,975,789.56	14,956,640.55	13,862,109.38	1,094,531.17
91282CBH3	UNITED STATES TREASURY	0.586	99.7109	01/31/2026	10,000,000.00	9,998,294.32	9,971,093.70	9,897,265.63	73,828.07
---	UNITED STATES TREASURY	3.073	99.8733	11/21/2026	1,042,000,000.00	1,042,509,639.33	1,040,419,490.64	1,044,474,844.71	(4,055,354.07)

Summary										
	Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
---	---		3.832	96.1766	05/21/2027	16,875,270,934.08	16,806,100,786.75	16,820,404,553.68	16,749,809,988.56	70,594,565.12

AGENDA ITEM 6G

WESTERN RIVERSIDE COUNTY REGIONAL CONSERVATION AUTHORITY	
DATE:	April 6, 2026
TO:	Western Riverside County Regional Conservation Authority
FROM:	Genivive Schwarzkopf, Accounting Supervisor Daniel Hernandez, Financial Administration Manager Jennifer Fuller, Deputy Director of Finance
THROUGH:	Aaron Hake, Executive Director
SUBJECT:	Monthly Investment Report for January 2026

STAFF RECOMMENDATION:

This item is for the Board of Directors to receive and file the Monthly Investment Report for the month ended January 31, 2026.

BACKGROUND INFORMATION:

Per RCA Resolution No. 2026-001, an investment portfolio report shall be provided to the Board monthly. All of RCA’s investments are managed by the County of Riverside Treasurer through the Riverside County Pooled Investment Fund.

The monthly investment report for January 2026, as required by state law and Board policy, reflects the investment activities resulting from available operating cash and endowments. As of January 31, 2026, RCA’s cash and investments were comprised of the following:

CASH AND INVESTMENTS PORTFOLIO	AMOUNTS
Operating	\$ 78,759,312
Trust	31,313,110
Total	\$ 110,072,422

The monthly investment report includes the following information:

- Investment Portfolio Report;
- County of Riverside Investment Report for the Month Ended January 31, 2026.

RCA’s investments were in full compliance with the Board’s investment policy adopted on January 5, 2026. Additionally, RCA has adequate cash flows for the next six months.

FISCAL IMPACT:

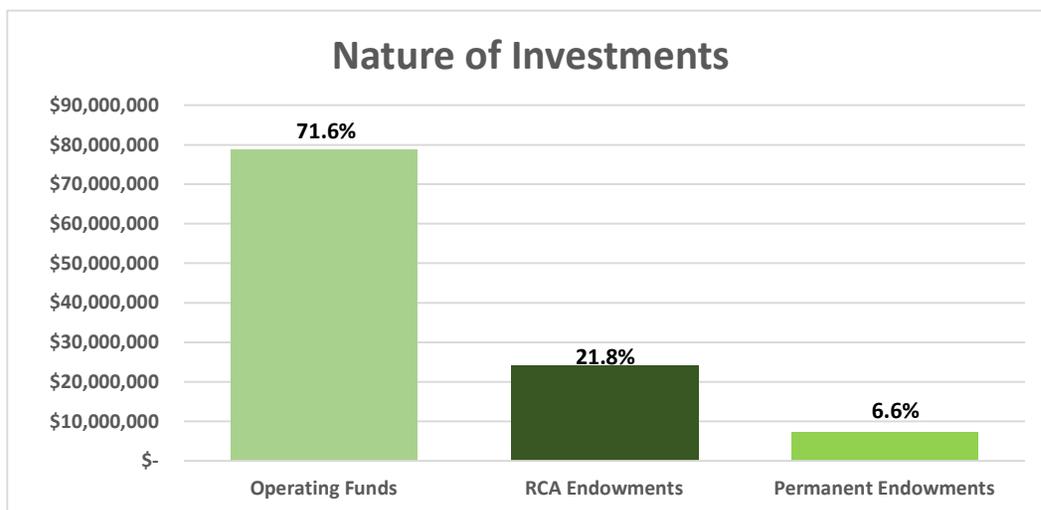
This is an information item. There is no fiscal impact.

Attachments:

- 1) Investment Portfolio Report
- 2) County of Riverside Investment Report for the Month Ended January 31, 2026

Western Riverside County Regional Conservation Authority
 Investment Portfolio Report
 Period Ended: January 31, 2026

	INVESTMENT BALANCE	RATING FITCH	COUPON RATE	YIELD TO MATURITY
OPERATING FUNDS				
County Treasurer's Pooled Investment Fund:				
Operating Funds	\$ 78,759,312	AAAf-S1	N/A	3.80%
Subtotal Operating Funds	<u>78,759,312</u>			
FUNDS HELD IN TRUST				
County Treasurer's Pooled Investment Fund:				
RCA Endowments	24,035,676	AAAf-S1	N/A	3.80%
Permanent Endowments	7,277,434	AAAf-S1	N/A	3.80%
Subtotal Funds Held in Trust	<u>31,313,110</u>			
TOTAL CASH AND INVESTMENTS	<u>\$ 110,072,422</u>			





County of Riverside

TREASURER-TAX COLLECTOR'S
POOLED INVESTMENT FUND
JANUARY 2026 REPORT



Fed Shifts to Neutral on Rates

January data kept interest rates in focus, with labor indicators offering a modest case for easing while inflation remained above target. Payrolls increased by 50,000 for the month, and the unemployment rate edged down to 4.4% from 4.5%. The Consumer Price Index rose 2.70%, still above the Fed's preferred 2.00% objective. Overall, real GDP growth remains supported by resilient household spending and strong AI-related capital investment.

Fed Funds futures continue to indicate limited FOMC activity across 2026 meeting dates, with no clear consensus on the timing or magnitude of additional cuts. The futures curve does not provide clarity as to the future of short-term interest rates. With the Treasurer's Pooled Investment Fund's focus on liquidity, these short-term rates directly shape our earnings potential.

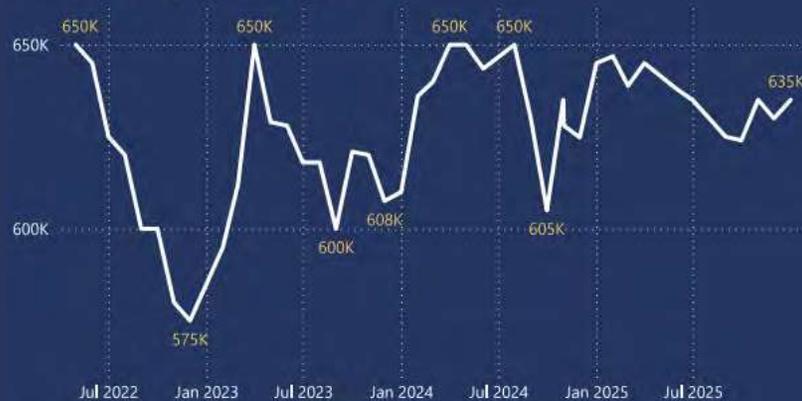
The housing market showed further signs of stabilization as mortgage rates held within their recent range, remaining more than a full percentage point below the highs reached a year earlier. Existing home sales rose 5.1%, marking a fourth consecutive monthly gain and the fastest resale pace since early 2023, with single-family transactions leading the improvement. The recent pickup in sales has reduced already-tight resale inventory. New home sales benefited from expanded builder incentives, including price discounts, rate buy-downs, and complimentary finish upgrades.

In Riverside County, December data released in January show a median time on market of 43 days and a median home price of \$635,000, both consistent with the broader pattern of stability seen over the past two years, with prices generally fluctuating between \$600,000 and \$650,000.

Services Index (ISM)



Riverside County Median Home Price



Treasury yields moved slightly higher over the month. The 2-year note moved from 3.48% to 3.52%, while the 5-year rose from 3.73% to 3.79%. Equity markets advanced, with the Dow Jones Industrial Average increasing from 48,100 to 48,900.



INVESTMENT RESULTS

Objective

The Fund seeks to safeguard the principal of the funds under the Treasurer's control, meet the liquidity needs of the depositors, and to maximize a return on the funds within the given parameters. The Fund invests exclusively in high-quality, short-term securities maturing within 5 years. The Fund is comprised of contributions from the county, schools, special districts, and other discretionary depositors throughout the County of Riverside. The Fund is in full compliance with the Treasurer-Tax Collector Statement of Policy and California Government Code.

\$16.06bn
Market Value

\$16.00bn
Principal

\$63.89M
Unrealized Gain/Loss

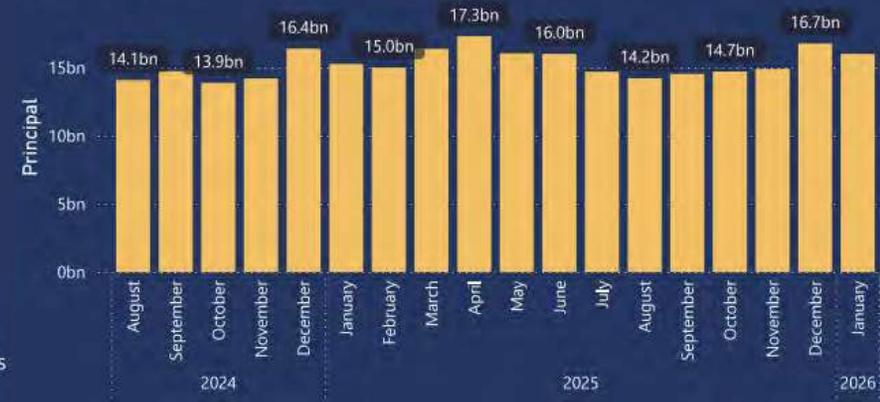
0.40
Unrealized Gain/Loss %

3.80
YTM %

1.37
WAM (Yrs)

Rated AAAs/S1 by Fitch Ratings, one of the nation's most trusted bond credit rating services.

Historical Fund Size



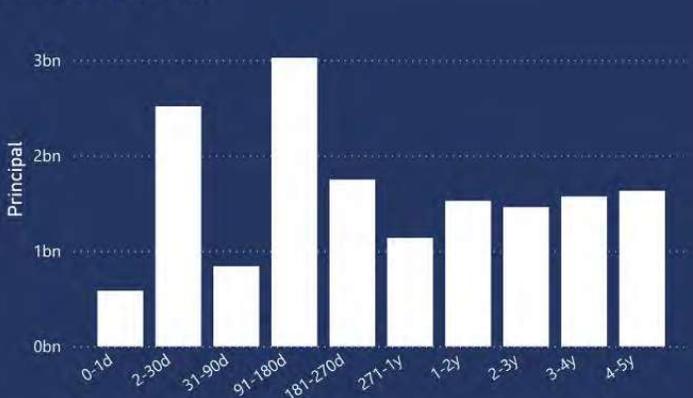
Purchase Yield vs TIMMI Index





Federal Home Loan Mortgage Corporation	2,666,491,510.44
Federal Home Loan Banks	2,412,827,504.35
Federal National Mortgage Association	1,944,223,469.36
Federal Farm Credit Banks Funding Corporat...	1,574,220,593.64
United States	1,167,646,103.31
BONY	950,000,000.00
Toronto-Dominion Bank - New York Branch	640,000,000.00
J.P. Morgan Securities LLC	545,000,000.00
Private Export Funding Corporation	492,037,918.07
Royal Bank of Canada New York Branch	411,278,083.33

Principal by Maturity



Cash Flows

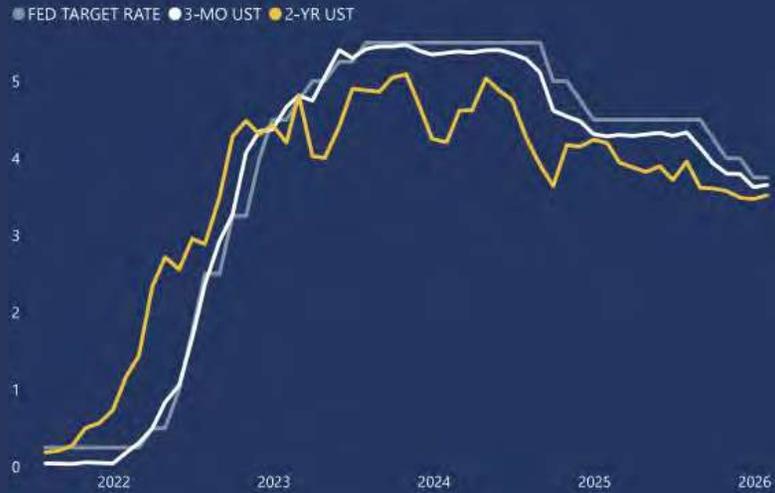
Month-Year	Projected Receipts	Projected Maturities	Projected Payments	Net Cash
Feb-26	2,261,460,049.45	2,704,816,974.66	2,651,870,781.06	2,314,406,243.05
Mar-26	3,870,232,060.80	612,065,857.16	2,705,207,128.96	1,777,090,789.00
Apr-26	4,581,850,351.16	198,943,782.84	3,818,208,852.95	962,585,281.04
May-26	1,418,410,086.58	1,777,385,355.02	2,906,956,488.14	288,838,953.46
Jun-26	2,007,976,363.45	699,106,374.99	2,142,070,979.35	565,011,759.09
Jul-26	962,081,118.65	643,352,995.26	2,457,489,509.58	-852,055,395.67
Aug-26	1,320,079,187.43	427,124,845.41	1,760,677,804.44	-13,473,771.60
Sep-26	1,801,447,468.42	731,245,539.09	1,581,578,414.83	951,114,592.68
Oct-26	2,061,594,726.18	681,102,564.70	1,891,493,182.82	851,204,108.06
Nov-26	1,881,779,558.41	120,798,038.11	1,627,499,466.46	375,078,130.07
Dec-26	4,072,710,339.58	295,749,555.63	2,008,414,648.51	2,360,045,246.70
Jan-27	1,898,357,406.81	620,210,693.88	3,034,747,265.47	-516,179,164.79
Total	28,137,978,716.91	9,511,902,576.75	28,586,214,522.58	9,063,666,771.08

Holdings Summary

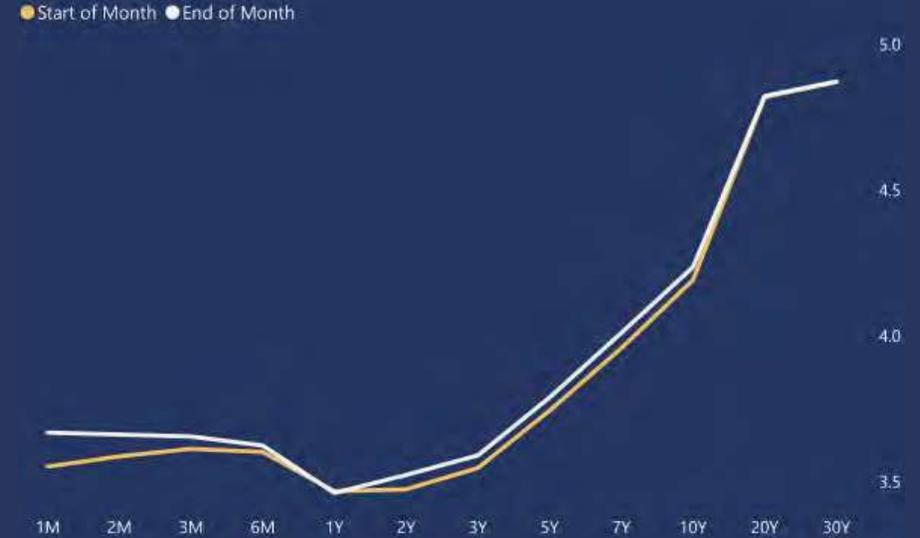
Category	Principal	WAM	YTM
Agency	8,667,754,527.79	2.21	3.87
CD	1,755,000,000.00	0.30	3.77
Corporate	230,830,760.28	1.27	4.11
CP	2,423,651,955.54	0.26	3.83
MM Fund	252,000,000.02	0.00	3.54
Muni	99,295,846.67	0.56	4.32
Mutual Fund	313,000,000.00	0.00	3.84
Non-US Gov	137,740,410.25	1.51	4.65
Repo	950,000,000.00	0.01	3.66
US Gov	1,167,646,103.31	0.83	3.20
Total	15,996,919,603.86	1.37	3.80



Treasury Rates



US Treasury Yield Curve



Implied Fed Funds Rate and Rate Change



ECONOMICS

U.S. Unemployment Rates (%)

November

2024

Year

4.20

United States

5.50

California

5.30

Riverside County

November

2025

Year

4.60

United States

5.60

California

5.40

Riverside County

Riverside MSA Nonfarm Payroll (%Change)



U.S. Initial Jobless Claims by Month-Year



COMPLIANCE STATEMENT

The Treasurer's Pooled Investment Fund was in full compliance with the County of Riverside Treasurer's Statement of Investment Policy. The County's Statement of Investment Policy is more restrictive than California State Government Code 53646. The County's Investment Policy is reviewed annually by the County of Riverside's Oversight Committee and approved by the Board of Supervisors.

Since its inception, the Treasurer's Pooled Investment Fund has been in full compliance with the Treasurer's Statement of Investment Policy.

Investment Category	Gov. Authorized % Limit	Gov. Code Maximum Maturity	Gov. Ratings	Co. Authorized % Limit	Co. Maximum Maturity	Co. Ratings	Pool Principal %
U.S. TREASURIES	NO LIMIT	5 YEARS	NA	100%	5 YEARS	NA	7.30%
REVERSE REPOS	20%	92 DAYS	NA	10%	60 DAYS	NA	
REPURCHASE AGREEMENTS (REPO)	NO LIMIT	1 YEARS	NA	40% max, 25% in term repo over 7 days	45 DAYS	NA	5.94%
NEGOTIABLE CERTIFICATE OF DEPOSITS & COLLATERALIZED TIME DEPOSITS (NCD & TCD)	30%	5 YEARS	NA	20%	2 YEAR	A1/P1/F1	10.97%
MUNICIPAL BONDS (MUNI)	NO LIMIT	5 YEARS	NA	15%	5 YEARS	AA-/Aa3/AA-	0.62%
MONEY MARKET MUTUAL FUNDS (MMF)	20%	60 DAYS (1)	AAA/Aaa (2)	20%	DAILY LIQUIDITY	AAA by 2 OF 3 RATINGS AGC.	1.58%
MEDIUM TERM NOTES (MTNO) CORPORATE NOTES	30%	5 YEARS	A	20%	4 YEARS	A/A2/A	1.44%
LOCAL AGENCY OBLIGATIONS (LAO)	NO LIMIT	5 YEARS	NA	2.5%	3 YEARS	INVESTMENT GRADE	
LOCAL AGENCY INVESTMENT FUND (LAIF)	NA	NA	NA	Max \$50 million	DAILY LIQUIDITY	NA	
JOINT POWERS AUTHORITY POOL, CLTR, CAMP	NA	NA	NA	2%	DAILY LIQUIDITY	NA	1.96%
INT'L BANK FOR RECONSTRUCTION AND DEVELOPMENT, INT'L FINANCE CORPORATION, AND INTER-AMERICAN DEVELOPMENT BANK	NA	NA	NA	20%	5 YEARS	AA/Aa/AA	0.86%
FEDERAL AGENCIES	NO LIMIT	5 YEARS	AAA	100%	5 YEARS	NA	54.18%
COMMERCIAL PAPER (CP)	40%	397 DAYS	A1/P1	40%	397 DAYS	A1/P1/F1	15.15%
CASH/DEPOSIT ACCOUNT	NA	NA	NA	20%	NA	NA	
Total							100.00%





INVESTMENT TEAM

The sound investment of public funds, fair, efficient tax collection, and exceptional public service

Matthew Jennings
Treasurer-Tax Collector

Giovane Pizano

Assistant Treasurer-Tax Collector

John Byerly

Chief Investment Officer

Steve Faeth

Senior Investment Officer

Isela Licea

Investment Officer



The sound investment of public funds, fair, efficient tax collection, and exceptional public service

COUNTY OF RIVERSIDE
TREASURER-TAX COLLECTOR
CAPITAL MARKETS
COUNTY ADMINISTRATIVE CENTER

4080 LEMON STREET, 4TH FLOOR,
RIVERSIDE, CA 92501



<https://countytreasurer.org/>



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<https://instagram.com/rivcottc>



rcttc@rivco.org



SCAN QR CODE TO
Explore our Website



Jessica Roberson

Content Creator



Paola Vertiz

Managing Editor



Agency
AGCY BOND

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
3136GC4L6	FEDERAL NATIONAL MORTGAGE ASSOCIATION	4.240	99.9003	11/13/2030	25,000,000.00	25,000,000.00	24,975,075.00	25,000,000.00	(24,925.00)
3130B8BF8	FEDERAL HOME LOAN BANKS	4.045	99.3135	11/06/2030	25,000,000.00	24,898,812.29	24,828,375.00	24,893,750.00	(65,375.00)
3130B8JU7	FEDERAL HOME LOAN BANKS	4.410	100.0041	11/04/2030	20,000,000.00	20,000,000.00	20,000,820.00	20,000,000.00	820.00
3130B7SY1	FEDERAL HOME LOAN BANKS	3.750	98.9252	09/30/2030	25,000,000.00	25,000,000.00	24,731,300.00	25,000,000.00	(268,700.00)
3133ETLF2	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.390	100.6444	06/17/2030	25,000,000.00	25,000,000.00	25,161,100.00	25,000,000.00	161,100.00
3130B6SF4	FEDERAL HOME LOAN BANKS	4.125	100.4369	06/14/2030	10,000,000.00	10,000,000.00	10,043,690.00	10,000,000.00	43,690.00
3133ETDZ7	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.590	100.2068	04/22/2030	10,000,000.00	10,000,000.00	10,020,680.00	10,000,000.00	20,680.00
3130B85U2	FEDERAL HOME LOAN BANKS	4.000	99.8071	04/16/2030	15,000,000.00	15,000,000.00	14,971,065.00	15,000,000.00	(28,935.00)
3133ET7M3	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.892	99.5965	01/14/2030	10,000,000.00	9,992,093.15	9,959,650.00	9,992,000.00	(32,350.00)
3134HCMH9	FEDERAL HOME LOAN MORTGAGE CORP	4.014	99.8610	01/07/2030	10,000,000.00	9,995,058.50	9,986,100.00	9,995,000.00	(8,900.00)
3134HCDS5	FEDERAL HOME LOAN MORTGAGE CORP	4.000	99.7930	12/04/2029	10,000,000.00	10,000,000.00	9,979,300.00	10,000,000.00	(20,700.00)
31424WRN4	FEDERAL AGRICULTURAL MORTGAGE CORP	4.653	100.7484	11/27/2029	15,000,000.00	14,993,468.10	15,112,260.00	14,991,450.00	120,810.00
31424WRG9	FEDERAL AGRICULTURAL MORTGAGE CORP	4.550	101.3795	11/26/2029	20,000,000.00	20,000,000.00	20,275,900.00	20,000,000.00	275,900.00
3133ETY50	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.213	100.0016	11/26/2029	20,000,000.00	19,990,319.44	20,000,320.00	19,990,000.00	10,320.00
3130B3LE1	FEDERAL HOME LOAN BANKS	4.420	100.8407	11/05/2029	15,000,000.00	15,000,000.00	15,126,105.00	15,000,000.00	126,105.00
3133EK4C7	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.347	94.3558	10/29/2029	15,000,000.00	13,911,665.77	14,153,370.00	13,549,950.00	603,420.00
3130B7RM8	FEDERAL HOME LOAN BANKS	4.100	99.9486	09/26/2029	15,000,000.00	15,000,000.00	14,992,290.00	15,000,000.00	(7,710.00)
3133ETZB6	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.010	99.8529	09/24/2029	50,000,000.00	50,000,000.00	49,926,450.00	50,000,000.00	(73,550.00)
3134HCAM1	FEDERAL HOME LOAN MORTGAGE CORP	4.152	100.0262	08/24/2029	20,000,000.00	20,000,000.00	20,005,240.00	20,000,000.00	5,240.00
3133ERPS4	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.732	100.0797	08/15/2029	10,000,000.00	10,005,726.78	10,007,970.00	10,008,100.00	(130.00)
3130B2HC2	FEDERAL HOME LOAN BANKS	4.200	100.1002	08/13/2029	20,000,000.00	20,000,000.00	20,020,040.00	20,000,000.00	20,040.00
3130B25S0	FEDERAL HOME LOAN BANKS	4.710	100.5178	07/30/2029	15,000,000.00	15,000,000.00	15,077,670.00	15,000,000.00	77,670.00
3133ET2L0	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.875	99.7899	06/01/2029	10,000,000.00	10,000,000.00	9,978,990.00	10,000,000.00	(21,010.00)
3130B6J49	FEDERAL HOME LOAN BANKS	4.150	100.5057	05/21/2029	15,000,000.00	15,000,000.00	15,075,855.00	15,000,000.00	75,855.00
3133ETEX1	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.440	100.1931	04/30/2029	10,000,000.00	10,000,000.00	10,019,310.00	10,000,000.00	19,310.00
3136GAZA0	FEDERAL NATIONAL MORTGAGE ASSOCIATION	4.000	99.9654	04/24/2029	25,000,000.00	25,000,000.00	24,991,350.00	25,000,000.00	(8,650.00)
3130B0TF6	FEDERAL HOME LOAN BANKS	4.750	101.3471	04/09/2029	10,000,000.00	10,000,000.00	10,134,710.00	10,000,000.00	134,710.00
3133ETBK2	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.580	100.1570	04/02/2029	25,000,000.00	25,000,000.00	25,039,250.00	25,000,000.00	39,250.00
3133ETBK2	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.501	100.1570	04/02/2029	16,000,000.00	16,001,983.47	16,025,120.00	16,012,000.00	13,120.00
3133ER6T3	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.535	100.1114	03/12/2029	25,000,000.00	24,989,318.10	25,027,850.00	24,986,250.00	41,600.00
3130B7QH0	FEDERAL HOME LOAN BANKS	4.000	100.0095	03/12/2029	25,000,000.00	25,000,000.00	25,002,375.00	25,000,000.00	2,375.00
3133ER5D9	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.490	100.8731	03/05/2029	10,000,000.00	10,000,000.00	10,087,310.00	10,000,000.00	87,310.00
3133ER5H0	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.700	100.1116	03/05/2029	10,000,000.00	10,000,000.00	10,011,160.00	10,000,000.00	11,160.00
3133ER3L3	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.731	100.0299	02/13/2029	10,000,000.00	9,988,530.02	10,002,990.00	9,985,000.00	17,990.00
3133ETP92	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.031	99.9298	02/05/2029	20,000,000.00	19,972,010.18	19,985,960.00	19,970,000.00	15,960.00
3130AYRY4	FEDERAL HOME LOAN BANKS	4.625	99.9945	02/02/2029	10,000,000.00	10,000,000.00	9,999,450.00	10,000,000.00	(550.00)
3130B4ND9	FEDERAL HOME LOAN BANKS	5.000	100.0144	01/30/2029	24,780,000.00	24,780,000.00	24,783,568.32	24,780,000.00	3,568.32
3134HCNV7	FEDERAL HOME LOAN MORTGAGE CORP	4.000	99.9747	01/09/2029	50,000,000.00	50,000,000.00	49,987,350.00	50,000,000.00	(12,650.00)
3133ET4K0	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.800	99.8263	12/18/2028	10,000,000.00	10,000,000.00	9,982,630.00	10,000,000.00	(17,370.00)
3133ET4K0	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.800	99.8263	12/18/2028	10,000,000.00	10,000,000.00	9,982,630.00	10,000,000.00	(17,370.00)
3134HCHN2	FEDERAL HOME LOAN MORTGAGE CORP	4.000	99.9905	12/18/2028	20,000,000.00	20,000,000.00	19,998,100.00	20,000,000.00	(1,900.00)
3136GCB38	FEDERAL NATIONAL MORTGAGE ASSOCIATION	3.780	99.7986	12/18/2028	10,000,000.00	10,000,000.00	9,979,860.00	10,000,000.00	(20,140.00)
3134HCJW0	FEDERAL HOME LOAN MORTGAGE CORP	3.950	99.9707	12/18/2028	20,000,000.00	20,000,000.00	19,994,140.00	20,000,000.00	(5,860.00)
3133ET3P0	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.212	100.1334	12/04/2028	10,000,000.00	10,000,000.00	10,013,340.00	10,000,000.00	13,340.00
3130B8NM0	FEDERAL HOME LOAN BANKS	3.875	99.9293	11/20/2028	15,000,000.00	15,000,000.00	14,989,395.00	15,000,000.00	(10,605.00)
3133ETR82	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.876	99.8667	11/10/2028	10,000,000.00	9,990,629.05	9,986,670.00	9,990,000.00	(3,330.00)
3130B3LA9	FEDERAL HOME LOAN BANKS	4.428	100.3909	11/06/2028	15,000,000.00	15,000,000.00	15,058,635.00	15,000,000.00	58,635.00
3130AXQCS	FEDERAL HOME LOAN BANKS	5.210	101.1840	11/03/2028	25,000,000.00	25,000,000.00	25,296,000.00	25,000,000.00	296,000.00
3133ETN29	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.468	100.2219	10/27/2028	25,000,000.00	25,000,000.00	25,055,475.00	25,000,000.00	55,475.00
3130AXL48	FEDERAL HOME LOAN BANKS	5.300	101.1923	10/20/2028	40,000,000.00	40,000,000.00	40,476,920.00	40,000,000.00	476,920.00
3133ETJ40	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.513	100.2199	10/20/2028	15,000,000.00	15,000,000.00	15,032,985.00	15,000,000.00	32,985.00
3134HBZ61	FEDERAL HOME LOAN MORTGAGE CORP	4.000	100.0783	10/20/2028	23,000,000.00	23,000,000.00	23,018,009.00	23,000,000.00	18,009.00
3134HBY39	FEDERAL HOME LOAN MORTGAGE CORP	4.000	100.0756	10/17/2028	25,000,000.00	25,000,000.00	25,018,900.00	25,000,000.00	18,900.00
3130B5VA3	FEDERAL HOME LOAN BANKS	4.000	100.1368	10/16/2028	10,000,000.00	10,000,000.00	10,013,680.00	10,000,000.00	13,680.00
3133ETH42	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.840	99.8683	10/16/2028	25,000,000.00	25,000,000.00	24,967,075.00	25,000,000.00	(32,925.00)

3133ETF28	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.360	100.2180	10/13/2028	25,000,000.00	25,000,000.00	25,054,500.00	25,000,000.00	54,500.00
3133ETF28	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.360	100.2180	10/13/2028	25,000,000.00	25,000,000.00	25,054,500.00	25,000,000.00	54,500.00
3133EPWM3	FEDERAL FARM CREDIT BANKS FUNDING CORP	5.040	100.8866	09/22/2028	25,000,000.00	25,000,000.00	25,221,650.00	25,000,000.00	221,650.00
3136GAT58	FEDERAL NATIONAL MORTGAGE ASSOCIATION	4.000	100.0548	09/12/2028	15,000,000.00	15,000,000.00	15,008,220.00	15,000,000.00	8,220.00
3133ETXG7	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.626	100.2353	09/11/2028	10,000,000.00	10,000,000.00	10,023,530.00	10,000,000.00	23,530.00
3130AWTR1	FEDERAL HOME LOAN BANKS	4.346	101.8452	09/08/2028	5,000,000.00	5,003,171.87	5,092,260.00	5,006,100.00	86,160.00
3133ETTD9	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.857	100.1445	08/18/2028	9,375,000.00	9,369,040.12	9,388,546.88	9,367,968.75	20,578.13
3133ETTC1	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.080	100.1151	08/14/2028	25,000,000.00	25,000,000.00	25,028,775.00	25,000,000.00	28,775.00
3133ETTC1	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.080	100.1151	08/14/2028	25,000,000.00	25,000,000.00	25,028,775.00	25,000,000.00	28,775.00
3133ETTC1	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.080	100.1151	08/14/2028	25,000,000.00	25,000,000.00	25,028,775.00	25,000,000.00	28,775.00
3134HA4S9	FEDERAL HOME LOAN MORTGAGE CORP	4.550	100.4302	07/28/2028	3,250,000.00	3,250,000.00	3,263,981.50	3,250,000.00	13,981.50
3133ETRC3	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.230	100.2532	07/28/2028	25,000,000.00	25,000,000.00	25,063,300.00	25,000,000.00	63,300.00
3133ETRC3	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.230	100.2532	07/28/2028	25,000,000.00	25,000,000.00	25,063,300.00	25,000,000.00	63,300.00
3130B23Z6	FEDERAL HOME LOAN BANKS	4.650	100.4714	07/24/2028	15,000,000.00	15,000,000.00	15,070,710.00	15,000,000.00	70,710.00
3133ETPR2	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.000	100.4561	07/14/2028	15,000,000.00	15,000,000.00	15,068,415.00	15,000,000.00	68,415.00
3133ET6X0	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.782	99.8225	07/13/2028	15,000,000.00	14,985,198.90	14,973,375.00	14,985,000.00	(11,625.00)
3134HCHS1	FEDERAL HOME LOAN MORTGAGE CORP	3.850	99.9542	06/16/2028	40,000,000.00	40,000,000.00	39,981,680.00	40,000,000.00	(18,320.00)
3134HCHS1	FEDERAL HOME LOAN MORTGAGE CORP	3.850	99.9542	06/16/2028	20,000,000.00	20,000,000.00	19,990,840.00	20,000,000.00	(9,160.00)
3130AWC24	FEDERAL HOME LOAN BANKS	3.987	100.8533	06/09/2028	10,000,000.00	10,002,582.68	10,085,330.00	10,005,460.00	79,870.00
3133ETJU2	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.079	100.5520	06/02/2028	25,000,000.00	25,000,000.00	25,138,000.00	25,000,000.00	138,000.00
3134HBUB5	FEDERAL HOME LOAN MORTGAGE CORP	4.400	100.2386	05/26/2028	20,000,000.00	20,000,000.00	20,047,720.00	20,000,000.00	47,720.00
3136GAHG7	FEDERAL NATIONAL MORTGAGE ASSOCIATION	4.440	100.2421	05/22/2028	20,000,000.00	20,000,000.00	20,048,420.00	20,000,000.00	48,420.00
3133EPGW9	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.784	100.5444	04/25/2028	10,000,000.00	10,018,356.21	10,054,440.00	10,041,200.00	13,240.00
3130B0PN3	FEDERAL HOME LOAN BANKS	4.780	100.2001	04/06/2028	20,000,000.00	20,000,000.00	20,040,020.00	20,000,000.00	40,020.00
3136GAC31	FEDERAL NATIONAL MORTGAGE ASSOCIATION	4.630	100.0577	02/25/2028	20,000,000.00	20,000,000.00	20,011,540.00	20,000,000.00	11,540.00
3130B6J64	FEDERAL HOME LOAN BANKS	4.302	100.0343	02/23/2028	10,000,000.00	10,000,000.00	10,003,430.00	10,000,000.00	3,430.00
3133ER3X7	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.530	100.0188	02/11/2028	10,000,000.00	10,000,000.00	10,001,880.00	10,000,000.00	1,880.00
3133ER3X7	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.530	100.0188	02/11/2028	25,000,000.00	25,000,000.00	25,004,700.00	25,000,000.00	4,700.00
3130B4TP6	FEDERAL HOME LOAN BANKS	4.550	100.0183	02/10/2028	10,000,000.00	10,000,000.00	10,001,830.00	10,000,000.00	1,830.00
3130AYVC7	FEDERAL HOME LOAN BANKS	4.625	100.0176	02/09/2028	10,000,000.00	10,000,000.00	10,001,760.00	10,000,000.00	1,760.00
3133ERW31	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.429	100.7765	01/27/2028	25,000,000.00	25,000,000.00	25,194,125.00	25,000,000.00	194,125.00
3133EWAT7	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.738	99.9987	01/26/2028	5,000,000.00	5,000,000.00	4,999,935.00	5,000,000.00	(65.00)
3133EWAT7	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.738	99.9987	01/26/2028	5,000,000.00	5,000,000.00	4,999,935.00	5,000,000.00	(65.00)
31424W6V9	FEDERAL AGRICULTURAL MORTGAGE CORP	3.770	100.0743	01/14/2028	10,000,000.00	10,000,000.00	10,007,430.00	10,000,000.00	7,430.00
3133ET4D6	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.800	99.9481	12/15/2027	16,875,000.00	16,875,000.00	16,866,241.88	16,875,000.00	(8,758.13)
3130ATUS4	FEDERAL HOME LOAN BANKS	3.796	101.1586	12/10/2027	25,000,000.00	25,189,385.55	25,289,650.00	25,510,250.00	(220,600.00)
3130ATUS4	FEDERAL HOME LOAN BANKS	4.002	101.1586	12/10/2027	50,000,000.00	50,205,214.46	50,579,300.00	50,548,350.00	30,950.00
3130ATUS4	FEDERAL HOME LOAN BANKS	4.036	101.1586	12/10/2027	15,000,000.00	15,053,010.45	15,173,790.00	15,141,570.00	32,220.00
3133ET3S4	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.730	99.9874	12/09/2027	20,000,000.00	20,000,000.00	19,997,480.00	20,000,000.00	(2,520.00)
31424W4F6	FEDERAL AGRICULTURAL MORTGAGE CORP	0.000	100.0789	12/09/2027	10,000,000.00	10,000,000.00	10,007,890.00	10,000,000.00	7,890.00
3133ET4B0	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.956	99.9980	12/09/2027	15,000,000.00	15,000,000.00	14,999,700.00	15,000,000.00	(300.00)
3134HCFJ3	FEDERAL HOME LOAN MORTGAGE CORP	3.900	99.9809	12/03/2027	10,000,000.00	10,000,000.00	9,998,090.00	10,000,000.00	(1,910.00)
3133ERE23	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.356	100.5598	12/02/2027	10,000,000.00	9,993,890.41	10,055,980.00	9,990,000.00	65,980.00
3133ETS40	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.054	100.0858	11/10/2027	15,000,000.00	15,000,000.00	15,012,870.00	15,000,000.00	12,870.00
3133ENW63	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.284	100.8809	10/27/2027	5,000,000.00	5,007,019.85	5,044,045.00	5,020,250.00	23,795.00
3133ENW63	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.195	100.8809	10/27/2027	3,715,000.00	3,725,359.90	3,747,725.44	3,744,868.60	2,856.84
3133ENW63	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.252	100.8809	10/27/2027	15,000,000.00	15,028,604.93	15,132,135.00	15,082,290.00	49,845.00
3133ERXY2	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.000	100.1491	10/21/2027	20,000,000.00	20,000,000.00	20,029,820.00	20,000,000.00	29,820.00
3133ERXY2	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.000	100.1491	10/21/2027	10,000,000.00	10,000,000.00	10,014,910.00	10,000,000.00	14,910.00
3133EPH81	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.500	101.4488	10/04/2027	25,000,000.00	25,000,653.57	25,362,200.00	25,001,500.00	360,700.00
3130AXEN4	FEDERAL HOME LOAN BANKS	4.779	101.9319	09/29/2027	15,000,000.00	15,004,658.62	15,289,785.00	15,011,250.00	278,535.00
3133ENL99	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.830	99.6670	09/15/2027	10,000,000.00	9,933,592.65	9,966,700.00	9,795,609.20	171,090.80
3130ATHW0	FEDERAL HOME LOAN BANKS	4.239	100.8295	09/10/2027	2,000,000.00	1,996,724.41	2,016,590.00	1,989,972.00	26,618.00
3130ATHW0	FEDERAL HOME LOAN BANKS	4.241	100.8295	09/10/2027	3,000,000.00	2,995,031.74	3,024,885.00	2,984,790.00	40,095.00
3133ER6M8	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.510	100.1331	09/07/2027	25,000,000.00	25,000,000.00	25,033,275.00	25,000,000.00	33,275.00
3134HBAR2	FEDERAL HOME LOAN MORTGAGE CORP	4.378	100.0320	08/25/2027	25,000,000.00	24,953,073.55	25,208,000.00	24,925,000.00	83,000.00
3134HBAR2	FEDERAL HOME LOAN MORTGAGE CORP	4.378	100.0320	08/25/2027	25,000,000.00	24,953,073.55	25,008,000.00	24,925,000.00	83,000.00
3133ETTP2	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.465	100.0895	08/18/2027	20,000,000.00	20,000,000.00	20,017,900.00	20,000,000.00	17,900.00
3133ERNP2	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.830	100.6022	08/06/2027	5,000,000.00	5,011,973.85	5,030,110.00	5,023,600.00	6,510.00

3130B7DP6	FEDERAL HOME LOAN BANKS	4.497	100.0738	08/04/2027	15,000,000.00	15,000,000.00	15,011,070.00	15,000,000.00	11,070.00
3134HBZV6	FEDERAL HOME LOAN MORTGAGE CORP	4.060	100.1542	07/23/2027	25,000,000.00	25,000,000.00	25,038,550.00	25,000,000.00	38,550.00
3133ENB33	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.075	99.2403	07/19/2027	10,000,000.00	9,996,643.21	9,924,030.00	9,988,500.00	(64,470.00)
3133ETPU5	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.120	100.1694	07/14/2027	25,000,000.00	25,000,000.00	25,042,350.00	25,000,000.00	42,350.00
3133ETNS2	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.506	100.0497	06/29/2027	10,000,000.00	10,000,000.00	10,004,970.00	10,000,000.00	4,970.00
3130ASDV8	FEDERAL HOME LOAN BANKS	3.300	99.6217	06/28/2027	10,000,000.00	10,000,000.00	9,962,170.00	10,000,000.00	(37,830.00)
3133ET5H6	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.715	99.9979	06/23/2027	10,000,000.00	10,000,000.00	9,999,790.00	10,000,000.00	(210.00)
3130ASGU7	FEDERAL HOME LOAN BANKS	3.095	99.8960	06/11/2027	10,000,000.00	10,050,548.50	9,989,600.00	10,183,200.00	(193,600.00)
3130AWBZ2	FEDERAL HOME LOAN BANKS	4.000	100.7169	06/11/2027	8,260,000.00	8,272,758.08	8,319,215.94	8,297,913.40	21,302.54
3130AWBZ2	FEDERAL HOME LOAN BANKS	4.055	100.7169	06/11/2027	10,000,000.00	10,008,661.65	10,071,690.00	10,025,600.00	46,090.00
3130AS3F4	FEDERAL HOME LOAN BANKS	3.770	100.0030	05/26/2027	10,000,000.00	10,000,000.00	10,000,300.00	10,000,000.00	300.00
3130B6JW7	FEDERAL HOME LOAN BANKS	4.369	100.0420	05/21/2027	20,000,000.00	20,000,000.00	20,008,400.00	20,000,000.00	8,400.00
3133ERDS7	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.583	101.4290	05/06/2027	10,000,000.00	10,019,275.36	10,142,900.00	10,043,800.00	99,100.00
3130ARSF9	FEDERAL HOME LOAN BANKS	3.000	99.2713	04/29/2027	10,000,000.00	10,000,000.00	9,927,130.00	10,000,000.00	(72,870.00)
3130ARPV7	FEDERAL HOME LOAN BANKS	3.500	99.8057	04/28/2027	10,000,000.00	10,000,000.00	9,980,570.00	10,000,000.00	(19,430.00)
3133ENV9D	FEDERAL FARM CREDIT BANKS FUNDING CORP	2.913	99.1267	04/26/2027	10,000,000.00	9,995,672.29	9,912,670.00	9,982,400.00	(69,730.00)
3133EN6V7	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.606	100.0228	04/26/2027	8,000,000.00	8,001,806.42	8,001,824.00	8,006,240.00	(4,416.00)
3133EN6V7	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.623	100.0228	04/26/2027	2,000,000.00	2,000,079.32	2,000,456.00	2,000,274.00	182.00
3133EN6V7	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.744	100.0228	04/26/2027	4,820,000.00	4,813,595.37	4,821,098.96	4,797,876.20	23,222.76
3130B5U71	FEDERAL HOME LOAN BANKS	4.035	100.0624	04/08/2027	10,000,000.00	10,000,000.00	10,006,240.00	10,000,000.00	6,240.00
3130ARHX2	FEDERAL HOME LOAN BANKS	3.000	99.3121	03/25/2027	10,000,000.00	10,000,000.00	9,931,210.00	10,000,000.00	(68,790.00)
3130ARHX2	FEDERAL HOME LOAN BANKS	3.000	99.3121	03/25/2027	10,000,000.00	10,000,000.00	9,931,210.00	10,000,000.00	(68,790.00)
3130ARHX2	FEDERAL HOME LOAN BANKS	3.000	99.3121	03/25/2027	10,000,000.00	10,000,000.00	9,931,210.00	10,000,000.00	(68,790.00)
3134HBF8D	FEDERAL HOME LOAN MORTGAGE CORP	4.280	100.0968	03/25/2027	25,000,000.00	25,000,000.00	25,024,200.00	25,000,000.00	24,200.00
3130AR6U0	FEDERAL HOME LOAN BANKS	2.500	98.7751	03/22/2027	5,000,000.00	5,000,000.00	4,938,755.00	5,000,000.00	(61,245.00)
3134HBN64	FEDERAL HOME LOAN MORTGAGE CORP	4.515	100.0640	03/16/2027	10,000,000.00	10,000,000.00	10,006,400.00	10,000,000.00	6,400.00
3130AQRQ8	FEDERAL HOME LOAN BANKS	2.000	98.3116	02/25/2027	10,000,000.00	10,000,000.00	9,831,160.00	10,000,000.00	(168,840.00)
3130AQRH8	FEDERAL HOME LOAN BANKS	2.000	98.3116	02/25/2027	5,000,000.00	5,000,000.00	4,915,580.00	5,000,000.00	(84,420.00)
3130AQRH8	FEDERAL HOME LOAN BANKS	2.000	98.3116	02/25/2027	5,000,000.00	5,000,000.00	4,915,580.00	5,000,000.00	(84,420.00)
3130ALED2	FEDERAL HOME LOAN BANKS	2.050	97.2951	02/24/2027	15,000,000.00	14,844,864.24	14,594,265.00	14,275,500.00	318,765.00
3130ALED2	FEDERAL HOME LOAN BANKS	3.001	97.2951	02/24/2027	20,000,000.00	19,609,910.23	19,459,020.00	18,320,000.00	1,139,020.00
3130AL2X1	FEDERAL HOME LOAN BANKS	3.001	97.1691	02/17/2027	10,000,000.00	9,792,551.99	9,716,910.00	9,057,500.00	659,410.00
3130AKYH3	FEDERAL HOME LOAN BANKS	1.746	97.1986	02/10/2027	10,000,000.00	9,910,550.38	9,719,860.00	9,563,275.40	156,584.60
3130B8VQ2	FEDERAL HOME LOAN BANKS	3.813	99.9855	02/10/2027	25,000,000.00	25,000,000.00	24,996,375.00	25,000,000.00	(3,625.00)
3130AQHS5	FEDERAL HOME LOAN BANKS	1.984	98.1392	01/28/2027	10,000,000.00	9,973,359.04	9,813,920.00	9,866,500.00	(52,580.00)
3130AQHS5	FEDERAL HOME LOAN BANKS	2.086	98.1392	01/28/2027	20,000,000.00	19,927,759.87	19,627,840.00	19,640,000.00	(12,160.00)
3130AQKM4	FEDERAL HOME LOAN BANKS	1.750	98.1873	01/28/2027	11,250,000.00	11,250,000.00	11,046,071.25	11,250,000.00	(203,928.75)
3133ENLZ1	FEDERAL FARM CREDIT BANKS FUNDING CORP	1.860	98.2341	01/26/2027	10,000,000.00	9,992,513.92	9,823,410.00	9,962,090.00	(138,680.00)
3130B8Q96	FEDERAL HOME LOAN BANKS	3.977	99.9838	01/25/2027	25,000,000.00	25,000,000.00	24,995,950.00	25,000,000.00	(4,050.00)
3130B8Q96	FEDERAL HOME LOAN BANKS	3.977	99.9838	01/25/2027	50,000,000.00	50,000,000.00	49,991,900.00	50,000,000.00	(8,100.00)
3133ETY35	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.976	100.0085	01/20/2027	50,000,000.00	50,000,000.00	50,004,250.00	50,000,000.00	4,250.00
3130B8PY2	FEDERAL HOME LOAN BANKS	3.954	100.0087	01/20/2027	25,000,000.00	25,000,000.00	25,002,175.00	25,000,000.00	2,175.00
3130B95Z9	FEDERAL HOME LOAN BANKS	3.683	99.9986	01/20/2027	50,000,000.00	50,000,000.00	49,999,300.00	50,000,000.00	(700.00)
3130B8L34	FEDERAL HOME LOAN BANKS	3.987	100.0069	01/12/2027	50,000,000.00	50,000,000.00	50,003,450.00	50,000,000.00	3,450.00
3133ENKG4	FEDERAL FARM CREDIT BANKS FUNDING CORP	1.908	98.0134	01/11/2027	10,000,000.00	9,960,778.64	9,801,340.00	9,795,000.00	6,340.00
3134HBXW6	FEDERAL HOME LOAN MORTGAGE CORP	4.428	100.0444	01/08/2027	10,000,000.00	10,000,000.00	10,004,440.00	10,000,000.00	4,440.00
3134HCEF2	FEDERAL HOME LOAN MORTGAGE CORP	3.611	99.8746	01/05/2027	25,000,000.00	24,986,770.20	24,968,650.00	24,984,500.00	(15,850.00)
3130B8Z88	FEDERAL HOME LOAN BANKS	3.788	99.9986	01/04/2027	50,000,000.00	50,000,000.00	49,999,300.00	50,000,000.00	(700.00)
3130AQAY9	FEDERAL HOME LOAN BANKS	1.500	98.1226	12/30/2026	25,000,000.00	25,000,000.00	24,530,650.00	25,000,000.00	(469,350.00)
3130AQF65	FEDERAL HOME LOAN BANKS	1.306	97.9738	12/21/2026	10,000,000.00	9,995,219.60	9,797,380.00	9,972,990.00	(175,610.00)
3133ERL66	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.775	100.0930	12/18/2026	15,000,000.00	15,000,000.00	15,013,950.00	15,000,000.00	13,950.00
3133ERK75	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.770	100.1010	12/16/2026	25,000,000.00	25,000,000.00	25,025,250.00	25,000,000.00	25,250.00
3130B46H9	FEDERAL HOME LOAN BANKS	4.759	100.0925	12/16/2026	25,000,000.00	25,000,000.00	25,023,125.00	25,000,000.00	23,125.00
3130B46H9	FEDERAL HOME LOAN BANKS	4.759	100.0925	12/16/2026	10,000,000.00	10,000,000.00	10,009,250.00	10,000,000.00	9,250.00
3133EN4G2	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.923	100.2829	12/15/2026	25,000,000.00	25,003,308.86	25,070,725.00	25,015,250.00	55,475.00
3130ATVE4	FEDERAL HOME LOAN BANKS	3.986	100.7478	12/11/2026	5,000,000.00	5,020,086.80	5,037,390.00	5,095,300.00	(57,910.00)
3130B3ZF3	FEDERAL HOME LOAN BANKS	4.764	100.0909	12/11/2026	25,000,000.00	25,000,000.00	25,022,725.00	25,000,000.00	22,725.00
3130B3ZF3	FEDERAL HOME LOAN BANKS	4.764	100.0909	12/11/2026	25,000,000.00	25,000,000.00	25,022,725.00	25,000,000.00	22,725.00
3135G1AB7	FEDERAL NATIONAL MORTGAGE ASSOCIATION	4.758	100.0951	12/11/2026	5,000,000.00	5,000,000.00	5,004,755.00	5,000,000.00	4,755.00

3130APWW1	FEDERAL HOME LOAN BANKS	1.503	98.3093	11/24/2026	20,000,000.00	19,999,511.82	19,661,860.00	19,997,000.00	(335,140.00)
3133ENEM8	FEDERAL FARM CREDIT BANKS FUNDING CORP	1.430	98.2667	11/23/2026	10,000,000.00	10,000,000.00	9,826,670.00	10,000,000.00	(173,330.00)
3133ERQ95	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.502	100.0612	11/02/2026	25,000,000.00	25,000,000.00	25,015,300.00	25,000,000.00	15,300.00
3130ARUF6	FEDERAL HOME LOAN BANKS	3.125	99.6356	10/29/2026	10,000,000.00	10,000,000.00	9,963,560.00	10,000,000.00	(36,440.00)
3134GW6C5	FEDERAL HOME LOAN MORTGAGE CORP	3.122	97.9294	10/28/2026	15,000,000.00	14,762,325.32	14,689,410.00	13,566,000.00	1,123,410.00
3134GW4C7	FEDERAL HOME LOAN MORTGAGE CORP	3.092	97.9365	10/27/2026	20,000,000.00	19,686,905.18	19,587,300.00	18,196,200.00	1,391,100.00
3134GW4C7	FEDERAL HOME LOAN MORTGAGE CORP	3.488	97.9365	10/27/2026	5,000,000.00	4,908,962.71	4,896,825.00	4,482,650.00	414,175.00
3134GW4C7	FEDERAL HOME LOAN MORTGAGE CORP	3.046	97.9365	10/27/2026	20,000,000.00	19,694,180.05	19,587,300.00	18,124,000.00	1,463,300.00
3133ETL62	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.603	99.9006	10/27/2026	25,000,000.00	24,981,643.84	24,975,150.00	24,975,000.00	150.00
3133EN7A2	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.827	99.7245	10/26/2026	4,300,000.00	4,294,171.44	4,288,153.50	4,270,115.00	18,038.50
3130B8BV3	FEDERAL HOME LOAN BANKS	3.800	100.0027	10/23/2026	25,000,000.00	25,000,000.00	25,000,675.00	25,000,000.00	675.00
3133ENBK5	FEDERAL FARM CREDIT BANKS FUNDING CORP	1.249	98.2382	10/20/2026	10,000,000.00	9,992,429.56	9,823,820.00	9,947,500.00	(123,680.00)
3133ENBK5	FEDERAL FARM CREDIT BANKS FUNDING CORP	1.340	98.2382	10/20/2026	10,000,000.00	9,986,202.00	9,823,820.00	9,905,000.00	(81,180.00)
3133ENT67	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.318	100.4336	10/19/2026	5,000,000.00	4,997,793.29	5,021,680.00	4,987,600.00	34,080.00
3133ENT67	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.318	100.4336	10/19/2026	5,000,000.00	4,997,793.29	5,021,680.00	4,987,600.00	34,080.00
3130B3A29	FEDERAL HOME LOAN BANKS	4.011	100.2493	10/09/2026	10,000,000.00	9,999,278.85	10,024,930.00	9,997,900.00	27,030.00
3133ERWD9	FEDERAL FARM CREDIT BANKS FUNDING CORP	5.113	100.0938	10/02/2026	10,000,000.00	10,000,000.00	10,009,380.00	10,000,000.00	9,380.00
3130ANYN4	FEDERAL HOME LOAN BANKS	1.000	98.2781	09/30/2026	10,000,000.00	10,000,000.00	9,827,810.00	10,000,000.00	(172,190.00)
3130AP5M3	FEDERAL HOME LOAN BANKS	1.040	98.3168	09/28/2026	15,000,000.00	15,000,000.00	14,747,520.00	15,000,000.00	(252,480.00)
3130APAD7	FEDERAL HOME LOAN BANKS	1.035	98.3228	09/28/2026	15,000,000.00	15,000,000.00	14,748,420.00	15,000,000.00	(251,580.00)
3130ATFH5	FEDERAL HOME LOAN BANKS	3.941	100.0555	09/11/2026	5,000,000.00	4,994,681.46	5,002,775.00	4,965,237.80	37,537.20
3130ATHV2	FEDERAL HOME LOAN BANKS	4.312	100.3532	09/11/2026	1,000,000.00	999,658.70	1,003,532.00	997,780.00	5,752.00
3133ET3Q8	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.953	100.0040	09/10/2026	50,000,000.00	50,000,000.00	50,002,000.00	50,000,000.00	2,000.00
3133ET3Q8	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.953	100.0040	09/10/2026	15,000,000.00	15,000,000.00	15,000,600.00	15,000,000.00	600.00
3130ANSC5	FEDERAL HOME LOAN BANKS	1.000	98.5108	08/26/2026	15,000,000.00	15,000,000.00	14,776,620.00	15,000,000.00	(223,380.00)
3130ANTS9	FEDERAL HOME LOAN BANKS	1.000	98.5108	08/26/2026	15,000,000.00	15,000,000.00	14,776,620.00	15,000,000.00	(223,380.00)
3130ANPF1	FEDERAL HOME LOAN BANKS	1.000	98.5174	08/25/2026	10,000,000.00	10,000,000.00	9,851,740.00	10,000,000.00	(148,260.00)
3133ENH45	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.137	99.7028	08/24/2026	5,000,000.00	4,999,692.74	4,985,140.00	4,997,799.50	(12,659.50)
3133ENH45	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.294	99.7028	08/24/2026	5,000,000.00	4,995,609.60	4,985,140.00	4,968,600.00	16,540.00
3130ANMH0	FEDERAL HOME LOAN BANKS	3.132	98.6042	08/20/2026	15,000,000.00	14,844,308.94	14,790,630.00	13,851,000.00	939,630.00
3130ANMH0	FEDERAL HOME LOAN BANKS	1.100	98.6042	08/20/2026	10,000,000.00	10,000,000.00	9,860,420.00	10,000,000.00	(139,580.00)
3130ANMH0	FEDERAL HOME LOAN BANKS	1.668	98.6042	08/20/2026	10,000,000.00	9,970,146.34	9,860,420.00	9,755,200.00	105,220.00
3130ANE48	FEDERAL HOME LOAN BANKS	1.000	98.5649	08/17/2026	10,000,000.00	10,000,000.00	9,856,490.00	10,000,000.00	(143,510.00)
3130ANFD7	FEDERAL HOME LOAN BANKS	1.000	98.6444	08/05/2026	10,000,000.00	10,000,000.00	9,864,440.00	10,000,000.00	(135,560.00)
3133END80	FEDERAL FARM CREDIT BANKS FUNDING CORP	2.873	99.6730	08/03/2026	10,000,000.00	10,005,962.22	9,967,300.00	10,047,600.00	(80,300.00)
3130ANAJ9	FEDERAL HOME LOAN BANKS	1.000	98.7236	07/27/2026	15,000,000.00	15,000,000.00	14,808,540.00	15,000,000.00	(191,460.00)
3130ANAJ9	FEDERAL HOME LOAN BANKS	1.000	98.7236	07/27/2026	10,000,000.00	10,000,000.00	9,872,360.00	10,000,000.00	(127,640.00)
3130ANBX7	FEDERAL HOME LOAN BANKS	1.000	98.7684	07/22/2026	15,000,000.00	15,000,000.00	14,815,260.00	15,000,000.00	(184,740.00)
3130AN5K2	FEDERAL HOME LOAN BANKS	4.366	99.0071	07/20/2026	2,375,000.00	2,346,201.86	2,351,418.63	2,143,081.25	208,337.38
3130AN3R9	FEDERAL HOME LOAN BANKS	1.130	98.8420	07/20/2026	10,000,000.00	10,000,000.00	9,884,200.00	10,000,000.00	(115,800.00)
3133ENB66	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.174	99.7633	07/20/2026	10,000,000.00	9,998,958.93	9,976,330.00	9,991,000.00	(14,670.00)
3130B83W0	FEDERAL HOME LOAN BANKS	4.145	100.0054	07/15/2026	25,000,000.00	25,000,000.00	25,001,350.00	25,000,000.00	1,350.00
3133EMQ62	FEDERAL FARM CREDIT BANKS FUNDING CORP	0.990	98.8238	07/13/2026	10,000,000.00	10,000,000.00	9,882,380.00	10,000,000.00	(117,620.00)
3133EMQ62	FEDERAL FARM CREDIT BANKS FUNDING CORP	0.990	98.8238	07/13/2026	10,000,000.00	10,000,000.00	9,882,380.00	10,000,000.00	(117,620.00)
3133ETPE1	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.367	100.0156	07/09/2026	25,000,000.00	25,000,000.00	25,003,900.00	25,000,000.00	3,900.00
3130AN3B4	FEDERAL HOME LOAN BANKS	1.020	98.8986	07/06/2026	15,000,000.00	15,000,000.00	14,834,790.00	15,000,000.00	(165,210.00)
3130ASDK2	FEDERAL HOME LOAN BANKS	3.250	99.8218	06/29/2026	5,250,000.00	5,250,000.00	5,240,644.50	5,250,000.00	(9,355.50)
3130AMWT5	FEDERAL HOME LOAN BANKS	1.050	98.9695	06/26/2026	15,000,000.00	15,000,000.00	14,845,425.00	15,000,000.00	(154,575.00)
3130AMT69	FEDERAL HOME LOAN BANKS	1.070	98.9774	06/26/2026	10,000,000.00	10,000,000.00	9,897,740.00	10,000,000.00	(102,260.00)
31424WXD9	FEDERAL AGRICULTURAL MORTGAGE CORP	4.354	100.0231	06/24/2026	15,000,000.00	15,000,000.00	15,003,465.00	15,000,000.00	3,465.00
3130AMM22	FEDERAL HOME LOAN BANKS	1.000	99.0543	06/10/2026	5,000,000.00	5,000,000.00	4,952,715.00	5,000,000.00	(47,285.00)
3130AMS52	FEDERAL HOME LOAN BANKS	1.000	99.0724	06/08/2026	15,000,000.00	15,000,000.00	14,860,860.00	15,000,000.00	(139,140.00)
3130AMJN3	FEDERAL HOME LOAN BANKS	1.030	99.1633	05/26/2026	5,000,000.00	5,000,000.00	4,958,165.00	5,000,000.00	(41,835.00)
3130AMKB7	FEDERAL HOME LOAN BANKS	1.050	99.1695	05/26/2026	15,000,000.00	15,000,000.00	14,875,425.00	15,000,000.00	(124,575.00)
3130AMME9	FEDERAL HOME LOAN BANKS	1.000	99.1540	05/26/2026	10,000,000.00	10,000,000.00	9,915,400.00	10,000,000.00	(84,600.00)
3130B7HM9	FEDERAL HOME LOAN BANKS	4.365	100.0122	05/20/2026	25,000,000.00	25,000,000.00	25,003,050.00	25,000,000.00	3,050.00
3133EMZS4	FEDERAL FARM CREDIT BANKS FUNDING CORP	0.990	99.1841	05/18/2026	5,000,000.00	5,000,000.00	4,959,205.00	5,000,000.00	(40,795.00)
3133ER3N9	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.403	100.0171	05/11/2026	25,000,000.00	25,000,000.00	25,004,275.00	25,000,000.00	4,275.00
3130B6Y26	FEDERAL HOME LOAN BANKS	4.349	99.9973	05/08/2026	15,000,000.00	15,000,000.00	14,999,595.00	15,000,000.00	(405.00)

3130B6Y26	FEDERAL HOME LOAN BANKS	4.349	99.9973	05/08/2026	25,000,000.00	25,000,000.00	24,999,325.00	25,000,000.00	(675.00)
3133ENUL2	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.110	99.8776	04/13/2026	10,000,000.00	10,000,000.00	9,987,760.00	10,000,000.00	(12,240.00)
3130ALKL7	FEDERAL HOME LOAN BANKS	0.850	99.5818	03/25/2026	10,000,000.00	10,000,000.00	9,958,180.00	10,000,000.00	(41,820.00)
3130ALGJ7	FEDERAL HOME LOAN BANKS	1.000	99.6296	03/23/2026	9,750,000.00	9,750,000.00	9,713,886.00	9,750,000.00	(36,114.00)
3130ALGJ7	FEDERAL HOME LOAN BANKS	1.000	99.6296	03/23/2026	14,625,000.00	14,625,000.00	14,570,829.00	14,625,000.00	(54,171.00)
3130ALGJ7	FEDERAL HOME LOAN BANKS	1.000	99.6296	03/23/2026	19,500,000.00	19,500,000.00	19,427,772.00	19,500,000.00	(72,228.00)
3130ALGJ7	FEDERAL HOME LOAN BANKS	1.000	99.6296	03/23/2026	9,750,000.00	9,750,000.00	9,713,886.00	9,750,000.00	(36,114.00)
3130ALGJ7	FEDERAL HOME LOAN BANKS	1.016	99.6296	03/23/2026	8,921,250.00	8,921,056.17	8,888,205.69	8,914,559.06	(26,353.37)
3130ALGJ7	FEDERAL HOME LOAN BANKS	1.000	99.6296	03/23/2026	9,750,000.00	9,750,000.00	9,713,886.00	9,750,000.00	(36,114.00)
3130ALGJ7	FEDERAL HOME LOAN BANKS	3.010	99.6296	03/23/2026	19,500,000.00	19,449,666.85	19,427,772.00	18,092,685.00	1,335,087.00
3130ALGJ7	FEDERAL HOME LOAN BANKS	1.000	99.6296	03/23/2026	19,500,000.00	19,500,000.00	19,427,772.00	19,500,000.00	(72,228.00)
3130ALGJ7	FEDERAL HOME LOAN BANKS	1.000	99.6296	03/23/2026	14,625,000.00	14,625,000.00	14,570,829.00	14,625,000.00	(54,171.00)
3130ALH56	FEDERAL HOME LOAN BANKS	0.750	99.6195	03/18/2026	10,000,000.00	10,000,000.00	9,961,950.00	10,000,000.00	(38,050.00)
3130ALH56	FEDERAL HOME LOAN BANKS	0.750	99.6195	03/18/2026	10,000,000.00	10,000,000.00	9,961,950.00	10,000,000.00	(38,050.00)
3130ALHG2	FEDERAL HOME LOAN BANKS	0.750	99.6195	03/18/2026	10,000,000.00	10,000,000.00	9,961,950.00	10,000,000.00	(38,050.00)
3130ALFW9	FEDERAL HOME LOAN BANKS	0.790	99.6245	03/18/2026	15,000,000.00	15,000,000.00	14,943,675.00	15,000,000.00	(56,325.00)
3130ALEH3	FEDERAL HOME LOAN BANKS	0.700	99.6300	03/16/2026	25,000,000.00	25,000,000.00	24,907,500.00	25,000,000.00	(92,500.00)
3130ALHH0	FEDERAL HOME LOAN BANKS	3.040	99.7663	03/05/2026	10,500,000.00	10,482,073.66	10,475,461.50	9,707,880.00	767,581.50
3130ALEY6	FEDERAL HOME LOAN BANKS	3.157	99.7392	03/04/2026	16,160,000.00	16,129,639.60	16,117,854.72	14,879,966.40	1,237,888.32
3130ALGR9	FEDERAL HOME LOAN BANKS	0.850	99.8061	02/26/2026	10,000,000.00	10,000,000.00	9,980,610.00	10,000,000.00	(19,390.00)
3130AL6K5	FEDERAL HOME LOAN BANKS	0.580	99.7973	02/25/2026	6,000,000.00	6,000,000.00	5,987,838.00	6,000,000.00	(12,162.00)
3130ALEM2	FEDERAL HOME LOAN BANKS	0.790	99.8104	02/25/2026	10,000,000.00	10,000,000.00	9,981,040.00	10,000,000.00	(18,960.00)
3130ALEM2	FEDERAL HOME LOAN BANKS	0.790	99.8104	02/25/2026	15,000,000.00	15,000,000.00	14,971,560.00	15,000,000.00	(28,440.00)
3130ALCV4	FEDERAL HOME LOAN BANKS	2.112	99.8162	02/24/2026	25,000,000.00	24,979,564.83	24,954,050.00	23,715,250.00	1,238,800.00
3130ALBX1	FEDERAL HOME LOAN BANKS	0.580	99.8148	02/23/2026	10,000,000.00	10,000,000.00	9,981,480.00	10,000,000.00	(18,520.00)
3130AL2G8	FEDERAL HOME LOAN BANKS	0.615	99.8597	02/18/2026	5,000,000.00	4,999,965.07	4,992,985.00	4,996,250.00	(3,265.00)
3130B6ZE9	FEDERAL HOME LOAN BANKS	4.324	99.9999	02/11/2026	50,000,000.00	50,000,000.00	49,999,950.00	50,000,000.00	(50.00)
3133ER2H3	FEDERAL FARM CREDIT BANKS FUNDING CORP	4.090	100.0008	02/03/2026	12,250,000.00	12,250,019.00	12,250,098.00	12,252,982.39	(2,884.39)
---	---	3.577	99.8472	10/06/2027	4,150,081,250.00	4,146,909,349.41	4,143,625,252.69	4,132,955,673.95	10,669,578.74

Agency
AGCY DISC

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
313385E36	FEDERAL HOME LOAN BANKS	3.625	97.9288	09/02/2026	50,000,000.00	48,964,583.34	48,964,400.00	48,634,027.78	330,372.22
313385ZB5	FEDERAL HOME LOAN BANKS	3.737	98.4535	07/08/2026	15,000,000.00	14,763,518.75	14,768,025.00	14,653,562.50	114,462.50
313385YZ3	FEDERAL HOME LOAN BANKS	3.737	98.4726	07/06/2026	15,000,000.00	14,766,531.25	14,770,890.00	14,656,575.00	114,315.00
313385YE0	FEDERAL HOME LOAN BANKS	3.708	98.6551	06/17/2026	50,000,000.00	49,321,888.89	49,327,550.00	48,987,819.44	339,730.56
313385XX9	FEDERAL HOME LOAN BANKS	3.793	98.7228	06/10/2026	25,000,000.00	24,671,229.17	24,680,700.00	24,477,534.72	203,165.28
313385XH4	FEDERAL HOME LOAN BANKS	3.693	98.8592	05/27/2026	47,175,000.00	46,632,487.50	46,636,827.60	46,623,052.50	13,775.10
313385WV4	FEDERAL HOME LOAN BANKS	3.687	98.9781	05/15/2026	50,000,000.00	49,489,291.67	49,489,050.00	48,983,541.67	505,508.33
313385WV4	FEDERAL HOME LOAN BANKS	3.687	98.9781	05/15/2026	50,000,000.00	49,489,291.67	49,489,050.00	48,983,541.67	505,508.33
313385WF9	FEDERAL HOME LOAN BANKS	3.887	99.1172	05/01/2026	25,000,000.00	24,767,920.14	24,779,300.00	24,376,774.31	402,525.69
313385WF9	FEDERAL HOME LOAN BANKS	3.689	99.1172	05/01/2026	36,000,000.00	35,679,155.00	35,682,192.00	35,671,945.00	10,247.00
313397WF4	FEDERAL HOME LOAN MORTGAGE CORP	3.653	99.1172	05/01/2026	50,000,000.00	49,558,708.34	49,558,600.00	49,548,791.67	9,808.33
313385TA4	FEDERAL HOME LOAN BANKS	4.148	99.8899	02/13/2026	5,000,000.00	4,993,325.00	4,994,495.00	4,877,625.00	116,870.00
313385ST4	FEDERAL HOME LOAN BANKS	3.691	99.9602	02/06/2026	50,000,000.00	49,974,861.11	49,980,100.00	49,718,444.45	261,655.55
313397SS1	FEDERAL HOME LOAN MORTGAGE CORP	3.672	99.9702	02/05/2026	50,000,000.00	49,979,888.89	49,985,100.00	49,969,833.34	15,266.66
313397SS1	FEDERAL HOME LOAN MORTGAGE CORP	3.672	99.9702	02/05/2026	42,500,000.00	42,482,905.55	42,487,335.00	42,474,358.33	12,976.67
313313SR0	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.690	99.9800	02/04/2026	14,000,000.00	13,995,776.67	13,997,200.00	13,923,980.00	73,220.00
313313SQ2	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.672	99.9900	02/03/2026	40,000,000.00	39,991,955.56	39,996,000.00	39,983,911.12	12,088.88
313313SQ2	FEDERAL FARM CREDIT BANKS FUNDING CORP	3.672	99.9900	02/03/2026	50,000,000.00	49,989,944.44	49,995,000.00	49,979,888.88	15,111.12
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Agency CMO
FHLMC CMO

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
3137HNZL5	FHR 5607 GJ	4.074	98.3187	05/15/2030	45,802,504.14	45,454,999.85	45,032,414.28	45,442,882.92	(410,468.65)
3137HNZL5	FHR 5607 GJ	4.074	98.3187	05/15/2030	45,802,504.14	45,454,999.85	45,032,414.28	45,442,882.92	(410,468.65)

Agency CMO

FNMA CMO

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
3136B2HA3	FNA 2018-M10 A2	5.208	99.0980	07/25/2028	9,113,958.39	8,863,515.27	9,031,754.04	8,663,956.73	367,797.31
3136AW7J0	FNA 2017-M8 A2	3.448	98.9049	05/25/2027	9,503,816.70	9,472,550.52	9,399,744.30	9,385,018.99	14,725.31
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Agency MBS

FHLMC

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
3132XFYS1	FH WN1620	3.906	99.0442	08/01/2030	25,580,000.00	25,544,127.01	25,335,509.43	25,542,029.69	(206,520.26)
3132XFZP6	FH WN1649	4.072	98.8205	08/01/2030	30,000,000.00	29,781,364.13	29,646,155.70	29,770,312.50	(124,156.80)
3132XFZP6	FH WN1649	3.919	98.8205	08/01/2030	15,210,000.00	15,145,885.58	15,030,600.94	15,144,050.39	(113,449.45)
3132XFXY9	FH WN1594	4.201	99.1902	07/01/2030	25,000,000.00	24,775,883.86	24,752,929.69	24,752,929.69	44,620.81
3132XFXY9	FH WN1594	4.075	99.1902	07/01/2030	25,000,000.00	24,898,154.68	24,797,550.50	24,888,671.88	(91,121.38)
3132XFXY9	FH WN1594	4.075	99.1902	07/01/2030	25,000,000.00	24,898,154.68	24,797,550.50	24,888,671.88	(91,121.38)
3132XFXY9	FH WN1594	4.069	99.1902	07/01/2030	29,955,000.00	29,840,201.31	29,712,425.01	29,829,797.46	(117,372.45)
3132XFYY8	FH WN1626	4.000	99.3471	07/01/2030	25,000,000.00	24,920,412.46	24,836,764.75	24,916,015.63	(79,250.88)
3132XK4S3	FH WNS332	4.130	99.4124	07/01/2030	33,050,000.00	33,037,501.04	32,855,811.09	33,037,089.84	(181,278.75)
3132XK2A4	FH WNS268	4.194	99.7841	06/01/2030	35,293,000.00	35,194,380.38	35,216,809.82	35,184,088.01	32,721.81
3132XKZ91	FH WNS267	4.195	99.7777	06/01/2030	28,034,000.00	27,954,672.69	27,971,675.37	27,946,393.75	25,281.62
3132XHSF2	FH WN3217	3.949	96.3471	06/01/2030	48,629,958.00	46,923,509.39	46,853,532.87	46,770,242.03	83,290.84
3132XHSF2	FH WN3217	3.933	96.3471	06/01/2030	29,177,974.80	28,170,962.01	28,112,119.72	28,079,241.68	32,878.04
3132XHSF2	FH WN3217	3.948	96.3471	06/01/2030	14,141,591.79	13,645,437.37	13,625,007.36	13,602,443.60	22,563.76
3132XFXA1	FH WN1572	4.119	99.3081	05/01/2030	23,506,000.00	23,373,376.60	23,343,364.57	23,359,087.50	(15,722.93)
3132XFWN4	FH WN1552	4.315	100.2760	04/01/2030	17,369,000.00	17,277,068.37	17,416,943.82	17,263,157.66	153,786.16
3132XKZH3	FH WNS243	4.362	99.3230	04/01/2030	15,000,000.00	14,785,145.03	14,898,453.60	14,753,906.25	144,547.35
3132XKZH3	FH WNS243	4.206	99.3230	04/01/2030	5,548,000.00	5,499,516.74	5,510,441.37	5,494,253.75	16,187.62
3142FEDK3	FH WR1005	4.277	100.3163	04/01/2030	10,000,000.00	9,978,769.79	10,031,632.90	9,976,171.88	55,461.02
3132XFWR5	FH WN1555	4.114	99.8520	04/01/2030	16,156,000.00	16,140,647.25	16,132,096.07	16,138,960.47	(6,864.40)
3132XKZQ3	FH WNS250	4.130	98.9356	04/01/2030	50,000,000.00	49,517,820.09	49,467,821.50	49,464,843.75	2,977.75
3132XKZQ3	FH WNS250	4.130	98.9356	04/01/2030	50,000,000.00	49,517,820.09	49,467,821.50	49,464,843.75	2,977.75
3132XKZQ3	FH WNS250	4.061	98.9356	04/01/2030	25,000,000.00	24,821,341.69	24,733,910.75	24,803,710.94	(69,800.19)
3132XKZQ3	FH WNS250	4.053	98.9356	04/01/2030	23,341,000.00	23,181,283.67	23,092,568.43	23,165,942.50	(73,374.07)
3132XDCY7	FH WA4486	4.082	99.1390	04/01/2030	14,695,165.89	14,579,996.77	14,568,644.18	14,570,601.39	(1,957.21)
3132XFWD6	FH WN1543	4.368	100.6733	03/01/2030	14,314,000.00	14,314,000.00	14,410,371.87	14,314,000.00	96,371.87
3132XKY84	FH WNS234	4.070	99.2769	03/01/2030	11,200,000.00	11,158,992.24	11,119,015.26	11,154,062.50	(35,047.24)
3132XK3D7	FH WNS295	3.966	99.4361	03/01/2030	21,840,000.00	21,840,000.00	21,716,833.76	21,840,000.00	(123,166.24)
3132XK3G0	FH WNS298	3.946	99.3296	03/01/2030	11,410,000.00	11,379,256.40	11,333,510.67	11,376,572.27	(43,061.60)
3132XFYA0	FH WN1604	4.013	99.1144	03/01/2030	28,850,000.00	28,636,980.64	28,594,491.13	28,619,384.01	(24,892.88)
3132XDCS0	FH WA4480	4.039	99.6517	03/01/2030	19,667,210.84	19,611,184.76	19,598,706.60	19,606,519.05	(7,812.45)
3132XKY35	FH WNS229	4.133	99.7208	02/01/2030	7,300,000.00	7,295,649.61	7,279,618.84	7,295,152.34	(15,533.50)
3132XK2Q9	FH WNS282	4.015	99.5625	02/01/2030	25,770,000.00	25,770,000.00	25,657,249.29	25,770,000.00	(112,750.71)
3132XK2K2	FH WNS277	3.972	99.3724	01/01/2030	33,000,000.00	32,925,379.51	32,792,892.66	32,917,500.00	(124,607.34)
3132XK2K2	FH WNS277	3.990	99.3724	01/01/2030	31,114,000.00	31,022,467.82	30,918,729.16	31,013,122.58	(94,393.42)
3132XFV29	FH WN1596	3.965	99.5310	01/01/2030	52,288,000.00	52,288,000.00	52,042,786.01	52,288,000.00	(245,213.99)
3132XK2S5	FH WNS284	3.943	99.4512	12/01/2029	10,875,000.00	10,863,786.76	10,815,315.39	10,862,680.66	(47,365.27)
3132XDCU5	FH WA4482	4.027	99.7115	12/01/2029	15,259,012.50	15,225,065.92	15,214,986.58	15,222,057.07	(7,070.49)
3132XKV38	FH WNS133	4.382	100.3852	11/01/2029	6,250,000.00	6,204,550.91	6,274,076.75	6,190,673.83	83,402.92
3132XFUU0	FH WN1494	4.669	99.6561	11/01/2029	11,000,000.00	10,747,364.04	10,962,175.18	10,679,453.13	282,722.05
3142FFGV3	FH WR2011	4.378	99.8282	11/01/2029	25,000,000.00	24,867,830.55	24,957,048.75	24,838,867.19	118,181.56

3142FFGV3	FH WR2011	4.218	99.8282	11/01/2029	15,000,000.00	15,000,000.00	14,974,229.25	15,000,000.00	(25,770.75)
3132XFJ58	FH WN1183	4.059	98.2576	10/01/2029	7,470,000.00	7,338,290.63	7,339,840.93	7,290,253.13	49,587.80
3132XFUA4	FH WN1476	4.332	99.8746	10/01/2029	25,000,000.00	24,811,446.80	24,968,662.25	24,777,343.75	191,318.50
3132XKV87	FH WNS138	4.719	99.3989	10/01/2029	15,000,000.00	14,640,175.99	14,909,841.30	14,541,210.94	368,630.36
3132XKV87	FH WNS138	4.239	99.3989	10/01/2029	23,833,000.00	23,617,732.91	23,689,749.85	23,584,429.26	105,320.59
3132XFRX8	FH WN1401	4.241	99.2252	09/01/2029	17,875,000.00	17,674,958.33	17,736,501.64	17,603,383.79	133,117.85
3132XFR91	FH WN1411	4.474	100.0340	09/01/2029	20,000,000.00	19,738,293.23	20,006,793.00	19,647,656.25	359,136.75
3132XFR91	FH WN1411	4.633	100.0340	09/01/2029	15,000,000.00	14,727,851.16	15,005,094.75	14,636,718.75	368,376.00
3132XFR91	FH WN1411	4.370	100.0340	09/01/2029	11,500,000.00	11,386,297.17	11,503,905.98	11,349,960.94	153,945.04
3132XKUQ8	FH WNS090	4.392	99.6018	09/01/2029	20,000,000.00	19,695,095.23	19,920,360.80	19,597,656.25	322,704.55
3132XKUQ8	FH WNS090	4.352	99.6018	09/01/2029	32,000,000.00	31,552,885.28	31,872,577.28	31,410,000.00	462,577.28
3132XKTE7	FH WNS048	4.513	99.3662	08/01/2029	11,495,000.00	11,305,605.53	11,422,141.93	11,266,896.09	155,245.84
3132XKSS7	FH WNS028	3.886	99.4623	07/01/2029	24,971,000.00	24,971,000.00	24,836,733.68	24,971,000.00	(134,266.32)
3132XKS65	FH WNS040	3.845	99.3583	07/01/2029	27,733,000.00	27,678,715.01	27,555,041.50	27,676,667.34	(121,625.84)
3132XKR25	FH WNS004	4.439	99.8434	06/01/2029	22,870,000.00	22,749,297.22	22,834,189.01	22,696,688.28	137,500.73
3132WW2J0	FH WA3276	4.668	101.5732	02/01/2029	14,594,843.63	14,571,025.96	14,824,453.50	14,558,356.53	266,096.98
3132XG2H8	FH WN2575	4.428	101.0151	02/01/2029	33,705,000.00	33,866,208.95	34,047,151.59	33,947,254.69	99,896.90
3132XGYU4	FH WN2522	4.779	100.8021	12/01/2028	10,000,000.00	9,931,447.10	10,080,212.10	9,884,375.00	195,837.10
3137FKSH0	FHMS K-086 A2	3.795	99.9970	11/25/2028	11,187,000.00	11,186,786.27	11,186,662.60	11,186,776.26	(113.66)
3137FJZ93	FHMS K-084 A2	3.770	99.8110	10/25/2028	16,255,000.00	16,232,051.13	16,224,280.00	16,230,942.60	(6,662.60)
3132XGX35	FH WN2497	4.611	101.0598	10/01/2028	28,340,000.00	28,255,494.31	28,640,338.53	28,187,229.69	453,108.84
3137FJYH6	FHMS K-W07 A2	5.264	99.1857	09/25/2028	16,627,402.00	16,020,713.53	16,492,002.90	15,471,927.46	1,020,075.44
3137FGZH1	FHMS K-W06 A2	5.290	99.2397	06/25/2028	23,781,401.25	23,072,091.81	23,600,591.02	22,361,948.86	1,238,642.16
3132XFLR7	FH WN1235	4.690	100.3240	01/01/2028	20,000,000.00	19,902,335.07	20,064,797.20	19,760,937.50	303,859.70
3132XFLR7	FH WN1235	4.333	100.3240	01/01/2028	10,000,000.00	9,980,612.06	10,032,398.60	9,953,125.00	79,273.60
3132XGRH1	FH WN2287	3.945	98.9808	11/01/2027	24,147,730.25	24,071,683.45	23,901,622.14	23,940,210.69	(38,588.56)
3132XGRH1	FH WN2287	4.073	98.9808	11/01/2027	24,147,730.25	24,042,956.33	23,901,622.14	23,878,898.10	22,724.04
3132XGQ74	FH WN2277	4.062	99.4032	11/01/2027	9,659,092.10	9,618,555.18	9,601,444.13	9,548,918.08	52,526.05
3137FBBX3	FHMS K-068 A2	4.548	99.1923	08/25/2027	9,525,000.00	9,350,136.37	9,448,065.05	9,120,187.50	327,877.55
3137F2LJ3	FHMS K-066 A2	3.111	99.1642	06/25/2027	11,095,000.00	11,092,138.54	11,002,272.32	11,084,598.44	(82,326.12)
3137BXQY1	FHMS K-064 A2	3.154	99.4040	03/25/2027	1,000,000.00	1,000,396.83	994,039.57	1,001,760.00	(7,720.43)
3137BXSX3	FHMS K-IR2 A2	4.545	99.1818	03/25/2027	15,000,000.00	14,784,028.00	14,877,266.40	14,389,453.20	487,813.20
3137BXSX3	FHMS K-IR2 A2	3.677	99.1818	03/25/2027	37,500,000.00	37,229,402.19	37,193,166.00	37,201,171.88	(8,005.88)
3137BYLD0	FHMS K-L01 A2E	4.184	99.2198	02/25/2027	15,000,000.00	14,877,349.80	14,882,976.75	14,494,950.00	388,026.75
3137BVZ82	FHMS K-063 A2	3.782	99.5775	01/25/2027	9,918,868.30	9,872,722.02	9,876,956.62	9,865,399.41	11,557.22
3137BTUM1	FHMS K-061 A2	4.501	99.5219	11/25/2026	8,556,653.43	8,489,593.83	8,515,746.64	8,203,178.08	312,568.56
3137BTUM1	FHMS K-061 A2	4.561	99.5219	11/25/2026	8,081,283.80	8,013,948.27	8,042,649.60	7,778,397.28	264,252.32
3132XDAU7	FH WA4418	4.107	98.5030	11/01/2026	13,913,130.90	13,692,294.68	13,704,846.60	13,424,540.87	280,305.73
3137FQXJ7	FHMS K-737 A2	4.358	99.1068	10/25/2026	2,035,000.00	2,010,774.01	2,016,824.34	1,986,748.23	30,076.11
3137FQXJ7	FHMS K-737 A2	4.358	99.1068	10/25/2026	50,000,000.00	49,404,766.92	49,553,423.50	48,814,453.13	738,970.37
3137FQXJ7	FHMS K-737 A2	4.358	99.1068	10/25/2026	50,000,000.00	49,404,766.92	49,553,423.50	48,814,453.13	738,970.37
3137FQXJ7	FHMS K-737 A2	4.358	99.1068	10/25/2026	50,000,000.00	49,404,766.92	49,553,423.50	48,814,453.13	738,970.37
3137BSRE5	FHMS K-059 A2	4.148	99.4278	09/25/2026	11,338,777.44	11,268,002.63	11,273,899.45	11,159,837.36	114,062.09
3137BSP72	FHMS K-058 A2	4.465	99.2434	08/25/2026	15,000,000.00	14,861,236.86	14,886,509.10	14,589,843.75	296,665.35
3137BSP72	FHMS K-058 A2	4.142	99.2434	08/25/2026	20,975,000.00	20,812,604.37	20,816,301.89	20,521,907.23	294,394.66
3137BSP72	FHMS K-058 A2	4.251	99.2434	08/25/2026	42,473,000.00	42,122,356.90	42,151,646.73	41,490,811.88	660,834.85
3137FQ3P6	FHMS K-C06 A2	4.291	99.1953	08/25/2026	10,602,268.68	10,510,446.15	10,516,956.25	10,415,072.46	101,883.79
3137BRQJ7	FHMS K-057 A2	4.657	99.3829	07/25/2026	13,679,919.30	13,572,706.33	13,595,505.85	13,059,513.58	535,992.27
3137FNWX4	FHMS K-736 A2	3.655	99.2997	07/25/2026	8,716,975.90	8,672,818.95	8,655,929.09	8,284,532.17	371,396.91
3137FNWX4	FHMS K-736 A2	4.170	99.2997	07/25/2026	41,963,521.98	41,668,057.09	41,669,642.63	41,016,064.55	653,578.08
3137BQYS0	FHMS K-056 A2	4.186	99.4994	05/25/2026	15,105,910.32	15,045,636.98	15,030,285.00	14,826,214.95	204,070.05
3137FMU67	FHMS K-735 A2	3.518	99.5607	05/25/2026	11,223,645.60	11,206,906.95	11,174,339.79	10,960,152.98	214,186.81
3137BPW21	FHMS K-055 A2	4.420	99.6971	03/25/2026	36,210,200.00	36,160,053.77	36,100,515.68	35,547,553.34	552,962.35
3137BPW21	FHMS K-055 A2	4.420	99.6971	03/25/2026	1,082,684.98	1,081,185.61	1,079,405.42	1,062,871.85	16,533.57
3137BPW21	FHMS K-055 A2	4.460	99.6971	03/25/2026	7,242,040.00	7,231,820.03	7,220,103.14	7,105,165.45	114,937.69
3137BP4K2	FHMS K-IR1 A2	4.641	99.6534	03/25/2026	22,370,000.00	22,336,817.03	22,292,460.66	21,817,740.62	474,720.04

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Agency MBS
FNMA

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
3140Q04W9	FN BZ5336	3.943	99.1675	12/01/2030	23,400,000.00	23,370,715.80	23,205,197.34	23,369,835.95	(164,638.61)
3140Q1CP3	FN BZ5477	4.055	99.1804	11/01/2030	8,909,000.00	8,860,216.47	8,835,982.46	8,858,190.86	(22,208.40)
3140Q1CN8	FN BZ5476	4.055	99.1804	11/01/2030	13,860,000.00	13,784,106.00	13,746,404.41	13,780,954.69	(34,550.28)
3140Q1GR5	FN BZ5607	3.972	98.7576	11/01/2030	38,220,000.00	37,990,011.52	37,981,125.00	37,981,125.00	(235,974.87)
3140Q1D72	FN BZ5525	3.987	98.8407	11/01/2030	24,750,000.00	24,611,306.26	24,463,062.61	24,605,947.27	(142,884.66)
3140Q06B3	FN BZ5365	3.953	99.3463	11/01/2030	34,527,000.00	34,448,212.86	34,301,288.71	34,446,077.34	(144,788.63)
3140Q1C40	FN BZ5490	3.955	99.0410	11/01/2030	25,000,000.00	24,924,276.83	24,760,257.75	24,921,875.00	(161,617.25)
3140Q1JH4	FN BZ5663	4.094	98.6486	11/01/2030	28,849,000.00	28,493,315.53	28,459,126.54	28,483,879.84	(24,753.30)
3140Q0U42	FN BZ5102	4.031	99.0258	10/01/2030	47,851,000.00	47,527,759.83	47,384,838.43	47,507,070.94	(122,232.51)
3140Q03R1	FN BZ5307	3.870	99.0044	10/01/2030	25,000,000.00	24,935,288.49	24,751,089.00	24,931,640.63	(180,551.63)
3140Q0UZ3	FN BZ5099	3.848	99.1760	10/01/2030	32,630,000.00	32,630,000.00	32,361,114.44	32,630,000.00	(268,885.56)
3140Q0XF4	FN BZ5177	3.987	99.7766	10/01/2030	6,580,000.00	6,580,000.00	6,565,297.58	6,580,000.00	(14,702.42)
3140Q0L91	FN BZ4851	3.978	99.5389	09/01/2030	25,000,000.00	25,000,000.00	24,884,718.50	25,000,000.00	(115,281.50)
3140Q0MF6	FN BZ4857	3.996	99.6022	09/01/2030	10,526,000.00	10,524,478.12	10,484,128.31	10,524,355.31	(40,227.00)
3140Q0P30	FN BZ4941	3.972	99.5600	09/01/2030	7,485,000.00	7,470,621.02	7,452,064.88	7,469,503.71	(17,438.83)
3140Q0FN7	FN BZ4672	3.975	99.7711	09/01/2030	32,175,000.00	32,175,000.00	32,101,349.82	32,175,000.00	(73,650.18)
3140Q0FZ0	FN BZ4683	4.107	100.0455	09/01/2030	13,509,000.00	13,503,592.86	13,515,151.86	13,503,195.32	11,956.54
3140Q0HM7	FN BZ4735	4.062	99.8978	09/01/2030	16,530,000.00	16,529,386.91	16,529,354.30	16,529,354.30	(16,254.41)
3140Q0SN3	FN BZ5024	4.052	99.8555	09/01/2030	6,050,000.00	6,050,000.00	6,041,260.11	6,050,000.00	(8,739.89)
3140Q0CZ3	FN BZ4587	4.250	100.5874	08/01/2030	9,750,000.00	9,720,138.70	9,807,272.48	9,716,865.23	90,407.25
3140Q0AY8	FN BZ4522	4.192	100.2138	08/01/2030	20,933,850.00	20,892,981.67	20,978,613.27	20,888,874.93	89,738.34
3140NYUL3	FN BZ4186	4.200	100.3461	08/01/2030	10,601,000.00	10,593,474.22	10,637,688.58	10,592,717.97	44,970.61
3140NY4W8	FN BZ4436	3.922	99.5289	08/01/2030	8,283,000.00	8,283,000.00	8,243,981.93	8,283,000.00	(39,018.07)
3140NYN64	FN BZ4012	4.074	99.6620	07/01/2030	8,345,000.00	8,306,273.98	8,316,796.65	8,301,971.09	14,825.56
3140NY3N9	FN BZ4404	4.069	100.0081	07/01/2030	7,048,000.00	7,041,455.32	7,048,572.51	7,040,841.88	7,730.63
3140NYN49	FN BZ4010	4.104	99.6620	07/01/2030	12,805,000.00	12,758,090.90	12,761,723.33	12,754,480.27	7,243.06
3140NYNY3	FN BZ4006	4.104	99.6620	07/01/2030	18,760,000.00	18,691,275.71	18,696,597.39	18,685,985.94	10,611.45
3140NYMU2	FN BZ3970	4.106	99.9218	05/01/2030	18,485,000.00	18,423,727.06	18,470,549.17	18,417,125.39	53,423.78
3140NYKT7	FN BZ3905	4.067	99.9400	05/01/2030	10,000,000.00	9,981,663.15	9,993,998.70	9,979,687.50	14,311.20
3140NXY72	FN BZ3433	4.213	100.4220	04/01/2030	12,855,000.00	12,855,000.00	12,909,252.34	12,855,000.00	54,252.34
3140NX7M9	FN BZ3599	4.344	100.3000	04/01/2030	35,880,000.00	35,572,121.90	35,987,625.65	35,514,192.21	473,433.44
3140NXWN9	FN BZ3352	4.382	101.2251	03/01/2030	41,362,000.00	41,315,194.89	41,868,706.01	41,305,450.37	563,255.64
3140HXL65	FN BL5748	3.918	94.3968	02/01/2030	12,835,443.14	12,249,978.13	12,116,246.56	12,198,684.83	(82,438.27)
3140NWVP7	FN BZ2421	1.440	101.2715	12/01/2029	31,354,000.00	31,354,000.00	31,752,657.33	31,354,000.00	398,657.33
3140NWVP7	FN BZ2421	4.498	101.2715	12/01/2029	20,000,000.00	19,914,110.92	20,254,294.40	19,889,062.50	365,231.90
3140NW2N4	FN BZ2580	4.589	101.3073	12/01/2029	30,144,000.00	29,932,149.21	30,538,082.46	29,870,820.00	667,262.46
3140NWPY5	FN BZ2238	4.376	101.0275	11/01/2029	9,870,000.00	9,848,733.87	9,971,409.81	9,842,240.63	129,169.18
3140NWHV0	FN BZ2043	4.334	98.9643	11/01/2029	20,000,000.00	19,628,309.43	19,792,865.20	19,566,406.25	226,458.95
3140LHHC7	FN BS6526	3.976	97.9560	10/01/2029	25,000,000.00	24,599,858.48	24,489,009.00	24,573,242.19	(84,233.19)
3140NWG41	FN BZ2018	3.891	98.9955	10/01/2029	57,415,000.00	57,058,547.72	56,838,274.94	57,029,242.97	(190,968.03)
3140NWG90	FN BZ2023	4.497	99.7873	10/01/2029	15,000,000.00	14,731,080.22	14,968,092.15	14,640,234.38	327,857.77
3140NWEX9	FN BZ1949	4.468	99.8290	10/01/2029	3,444,000.00	3,395,309.04	3,438,110.62	3,380,097.66	58,012.96
3140NWKR5	FN BZ2103	4.517	100.1660	10/01/2029	15,000,000.00	14,771,704.49	15,024,892.80	14,711,132.81	313,759.99
3140HVB60	FN BL3660	4.458	95.6648	08/01/2029	24,312,927.25	23,030,390.90	23,258,907.64	22,479,010.74	779,896.89
3140HUNU6	FN BL3102	4.474	95.5065	08/01/2029	21,662,356.00	20,471,477.46	20,688,967.13	19,953,906.91	735,060.22
3140HUNU6	FN BL3102	4.139	95.5065	08/01/2029	4,723,260.11	4,506,884.03	4,511,022.40	4,416,063.69	94,958.70
3140HUNU6	FN BL3102	4.396	95.5065	08/01/2029	24,088,539.87	22,812,412.55	23,006,131.45	22,267,785.00	738,346.45
3140LGYA4	FN BS6104	3.874	99.2366	08/01/2029	21,190,000.00	21,153,275.85	21,028,245.71	21,151,924.22	(123,678.51)
3138LSYU8	FN AM5222	4.323	100.4018	07/01/2029	27,947,630.40	27,947,630.40	28,059,915.59	27,947,630.40	112,285.19
3140NVFJ1	FN BZ1068	4.555	101.8608	06/01/2029	10,000,000.00	10,000,000.00	10,186,080.40	10,000,000.00	186,080.40
3140NVFJ1	FN BZ1068	4.555	101.8608	06/01/2029	15,000,000.00	15,000,000.00	15,279,120.60	15,000,000.00	279,120.60
3140NVE37	FN BZ1053	4.596	101.9475	06/01/2029	15,770,000.00	15,770,000.00	16,077,125.48	15,770,000.00	307,125.48
3140NU4W6	FN BZ0836	4.606	101.9462	05/01/2029	16,365,000.00	16,365,000.00	16,683,493.67	16,365,000.00	318,493.67
3140NU6F1	FN BZ0869	4.623	101.9296	04/01/2029	32,230,000.00	32,204,105.70	32,851,896.54	32,189,712.50	662,184.04
3140NUPT0	FN BZ0433	4.580	100.7493	03/01/2029	25,000,000.00	24,757,021.31	25,187,335.75	24,609,375.00	577,960.75

3140NUPT0	FN BZ0433	4.612	100.7493	03/01/2029	25,681,000.00	25,401,320.56	25,873,438.78	25,236,598.32	636,840.46
3140NURK7	FN BZ0489	4.552	101.7736	02/01/2029	25,000,000.00	25,000,000.00	25,443,398.75	25,000,000.00	443,398.75
3140NURK7	FN BZ0489	4.636	101.7736	02/01/2029	16,000,000.00	15,962,710.06	16,283,775.20	15,942,500.00	341,275.20
3140NUNR6	FN BZ0399	4.670	101.7804	02/01/2029	15,000,000.00	14,961,596.76	15,267,056.55	14,936,718.75	330,337.80
3140LLKK6	FN BS9297	5.110	101.3361	10/01/2028	21,050,000.00	20,701,684.65	21,331,239.79	20,402,054.69	929,185.10
3140LLZT1	FN BS9753	5.092	102.9747	10/01/2028	20,000,000.00	19,971,251.04	20,594,934.80	19,946,875.00	648,059.80
3136B3XY1	FNA 2019-M1 A2	4.441	99.3935	09/25/2028	10,589,140.05	10,445,500.64	10,524,914.27	10,403,002.87	121,911.40
3140LLB83	FN BS9062	5.049	101.5585	09/01/2028	20,000,000.00	19,727,323.72	20,311,693.00	19,481,250.00	830,443.00
3140LLMH1	FN BS9359	5.051	102.2409	08/01/2028	15,874,000.00	15,784,221.10	16,229,713.48	15,699,758.05	529,955.43
3136BQDE6	FNA 2023-M6 A2	4.724	100.3231	07/25/2028	23,861,368.50	23,600,312.52	23,938,463.15	23,368,295.69	570,167.46
3140LLKKW2	FN BS8408	4.658	101.3132	06/01/2028	12,003,000.00	11,935,045.90	12,160,618.71	11,878,750.20	281,868.51
3140LKYQ0	FN BS8818	4.526	100.0922	06/01/2028	25,000,000.00	24,699,140.67	25,023,061.25	24,363,281.25	659,780.00
3140LKU84	FN BS8706	4.510	100.4756	06/01/2028	25,000,000.00	24,752,353.13	25,118,909.25	24,478,515.63	640,393.62
3140LKJP9	FN BS8369	4.649	99.8609	05/01/2028	16,850,000.00	16,751,129.14	16,826,559.29	16,657,804.69	168,754.60
3140LKJM6	FN BS8367	4.651	100.8277	05/01/2028	14,563,000.00	14,424,583.09	14,683,533.15	14,304,734.30	378,798.85
3140LKJC8	FN BS8358	4.074	100.5756	04/01/2028	24,459,000.00	24,459,000.00	24,599,790.16	24,459,000.00	140,790.16
3140LBU27	FN BS1500	4.591	94.5160	03/01/2028	29,612,500.00	27,647,624.85	27,988,541.62	26,109,896.48	1,878,645.14
3140LBU27	FN BS1500	3.741	94.5160	03/01/2028	20,000,000.00	18,973,653.93	18,903,194.00	18,286,718.75	616,475.25
3140LBP64	FN BS1344	4.165	94.4836	03/01/2028	20,000,000.00	18,832,923.41	18,896,717.60	18,017,968.75	878,748.85
3140LHSB7	FN BS6813	4.363	100.6424	02/01/2028	19,478,000.00	19,470,610.72	19,603,134.46	19,459,739.38	143,395.08
3140LJS23	FN BS7736	4.416	100.6297	02/01/2028	20,000,000.00	19,890,946.36	20,125,946.60	19,731,250.00	394,696.60
3140LJS23	FN BS7736	4.071	100.6297	02/01/2028	15,000,000.00	15,000,000.00	15,094,459.95	15,000,000.00	94,459.95
3140LJS23	FN BS7736	4.078	100.6297	02/01/2028	10,000,000.00	10,000,000.00	10,062,973.30	10,000,000.00	62,973.30
3140LHVX5	FN BS6929	4.280	100.6420	11/01/2027	31,100,000.00	31,063,379.11	31,299,665.42	30,996,738.28	302,927.14
3136BML55	FNA 2022-M11 A2	4.554	98.3999	10/25/2027	20,627,645.70	20,291,380.13	20,297,572.84	19,653,195.72	644,377.12
3138LKZ34	FN AN7061	6.197	97.9221	10/01/2027	12,800,000.00	12,445,801.97	12,534,029.31	12,028,000.00	506,029.31
3136AY6X6	FNA 2017-M15 A2	4.609	98.8721	09/25/2027	12,814,424.77	12,624,020.93	12,669,886.78	12,296,341.52	373,545.26
3138LHUZ5	FN AN5099	3.076	99.1018	04/01/2027	22,979,662.50	22,974,295.63	22,773,258.71	22,958,119.05	(184,860.34)
3138LHDY7	FN AN4618	3.829	98.9964	04/01/2027	9,879,912.90	9,789,003.98	9,780,756.91	9,779,570.04	1,186.87
3138LG4R4	FN AN4431	3.647	99.3695	01/01/2027	42,620,000.00	42,360,411.78	42,351,289.00	42,315,333.59	35,955.41
3138LGMP8	FN AN3965	3.805	99.1384	01/01/2027	15,192,019.87	15,071,941.24	15,061,120.71	15,056,122.50	4,998.22
3140HV2G8	FN BL4374	4.291	98.5539	10/01/2026	21,300,000.00	20,972,929.43	20,991,974.10	19,947,117.19	1,044,856.91
3136AS4R4	FNA 2016-M7 A2	4.574	99.3251	09/25/2026	13,319,049.58	13,207,040.05	13,229,158.25	13,032,157.25	197,001.00
3138LEVL2	FN AN2418	5.290	98.7983	09/01/2026	15,000,000.00	14,787,449.89	14,819,746.95	14,354,328.92	465,418.03
3138LETC5	FN AN2346	4.438	99.0742	08/01/2026	8,128,998.20	8,061,204.63	8,053,743.35	7,949,588.71	104,154.64
3138LENE7	FN AN2188	3.543	99.1967	07/01/2026	9,519,712.80	9,501,281.94	9,443,238.85	9,336,755.82	106,483.04
3138LECC3	FEDERAL NATIONAL MORTGAGE ASSOCIATION	3.902	99.1611	07/01/2026	4,000,000.00	3,971,488.40	3,966,442.76	3,963,125.00	3,317.76
3138LD5W9	FN AN1760	4.176	99.3348	06/01/2026	15,000,000.00	14,965,450.31	14,900,218.20	14,582,812.50	317,405.70
3136AR5S3	FNA 2016-M5 A2	4.816	99.5840	04/25/2026	8,253,912.24	8,228,819.63	8,219,572.91	8,104,632.48	114,940.43
3138LCW35	FN AN0665	5.458	99.7475	02/01/2026	14,260,163.09	14,260,163.09	14,224,160.03	13,766,070.65	458,089.38

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Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
PPGYBN2W3RC	Altura Credit Union	4.020	100.0000	09/04/2026	25,000,000.00	25,000,000.00	25,000,000.00	25,000,000.00	0.00
95001KUF9	Wells Fargo Bank, National Association	3.800	100.0000	08/31/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
95001KUF9	Wells Fargo Bank, National Association	3.800	100.0000	08/31/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
95001KUF9	Wells Fargo Bank, National Association	3.800	100.0000	08/31/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
95001KUF9	Wells Fargo Bank, National Association	3.800	100.0000	08/31/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
95001KUJ1	Wells Fargo Bank, National Association	3.800	100.0000	08/31/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
95001KUJ1	Wells Fargo Bank, National Association	3.800	100.0000	08/31/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
46651VGW0	J.P. Morgan Securities LLC	0.000	100.0000	07/07/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
21684X6A9	Coöperatieve Rabobank U.A., New York Branch	3.800	100.0000	06/12/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115DH90	Toronto-Dominion Bank - New York Branch	3.880	100.0000	06/03/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115DH90	Toronto-Dominion Bank - New York Branch	3.880	100.0000	06/03/2026	10,000,000.00	10,000,000.00	10,000,000.00	10,000,000.00	0.00
78015JUQ8	Royal Bank of Canada New York Branch	3.850	100.0000	06/03/2026	40,000,000.00	40,000,000.00	40,000,000.00	40,000,000.00	0.00

78015JUQ8	Royal Bank of Canada New York Branch	3.850	100.0000	06/03/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
21684X5Q5	Coöperatieve Rabobank U.A., New York Branch	3.850	100.0000	06/02/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
21684X5Q5	Coöperatieve Rabobank U.A., New York Branch	3.850	100.0000	06/02/2026	25,000,000.00	25,000,000.00	25,000,000.00	25,000,000.00	0.00
21684X5Q5	Coöperatieve Rabobank U.A., New York Branch	3.850	100.0000	06/02/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115DGH3	Toronto-Dominion Bank - New York Branch	3.920	100.0000	05/29/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115DHD1	Toronto-Dominion Bank - New York Branch	3.900	100.0000	05/20/2026	30,000,000.00	30,000,000.00	30,000,000.00	30,000,000.00	0.00
89115DPR1	Toronto-Dominion Bank - New York Branch	3.760	100.0000	05/20/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
78015JNU7	Royal Bank of Canada New York Branch	3.920	100.0000	05/19/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
06051WWL4	Bank of America, National Association	3.950	100.0000	05/15/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
86959TTC0	Svenska Handelsbanken AB (publ)	3.670	100.0000	05/15/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
86959TTE6	Svenska Handelsbanken AB (publ)	3.650	100.0000	05/15/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
86959TTQ9	Svenska Handelsbanken AB (publ)	3.690	100.0000	05/15/2026	100,000,000.00	100,000,000.00	100,000,000.00	100,000,000.00	0.00
89115DDH6	Toronto-Dominion Bank - New York Branch	3.980	100.0000	05/13/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115DCV6	Toronto-Dominion Bank - New York Branch	3.980	100.0000	05/12/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115DCD6	Toronto-Dominion Bank - New York Branch	3.950	100.0000	05/11/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115DBH8	Toronto-Dominion Bank - New York Branch	3.950	100.0000	05/06/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
78015JEG8	Royal Bank of Canada New York Branch	4.310	100.0000	03/19/2026	25,000,000.00	25,000,000.00	25,000,000.00	25,000,000.00	0.00
86959TSN7	Svenska Handelsbanken AB (publ)	3.800	100.0000	03/04/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115DAZ9	Toronto-Dominion Bank - New York Branch	4.010	100.0000	02/25/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115D7H3	Toronto-Dominion Bank - New York Branch	3.990	100.0000	02/18/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
21684X4Q6	Coöperatieve Rabobank U.A., New York Branch	4.020	100.0000	02/13/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115DDM5	Toronto-Dominion Bank - New York Branch	4.060	100.0000	02/13/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115DAV8	Toronto-Dominion Bank - New York Branch	4.010	100.0000	02/11/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
78015JKY2	Royal Bank of Canada New York Branch	4.180	100.0000	02/09/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89115D6Z4	Toronto-Dominion Bank - New York Branch	3.990	100.0000	02/04/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
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CP	Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
	7426M5KW3	Private Export Funding Corporation	3.648	97.3427	10/30/2026	25,000,000.00	24,335,673.61	24,335,673.61	24,193,493.06	142,180.55
	7426M5KE3	Private Export Funding Corporation	3.574	97.5421	10/14/2026	25,000,000.00	24,385,520.83	24,385,520.83	24,272,263.89	113,256.94
	7426M3JW0	Private Export Funding Corporation	3.591	97.6569	09/30/2026	50,000,000.00	48,828,472.22	48,828,472.22	48,736,111.11	92,361.11
	46656HKP6	J.P. Morgan Securities LLC	4.257	100.0000	08/31/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
	46656HKP6	J.P. Morgan Securities LLC	4.257	100.0000	08/31/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
	46656HKE1	J.P. Morgan Securities LLC	4.254	100.0000	08/10/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
	46656HKE1	J.P. Morgan Securities LLC	4.254	100.0000	08/10/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
	7426M3GX1	Private Export Funding Corporation	3.791	98.1550	07/31/2026	50,000,000.00	49,077,500.00	49,077,500.00	48,667,500.00	410,000.00
	7426M3GV5	Private Export Funding Corporation	3.787	98.1755	07/29/2026	30,000,000.00	29,452,650.00	29,452,650.00	29,228,175.00	224,475.00
	7426M3GN3	Private Export Funding Corporation	3.693	98.2852	07/22/2026	25,000,000.00	24,571,312.50	24,571,312.50	24,438,444.44	132,868.06
	7426M3G86	Private Export Funding Corporation	3.591	98.4649	07/08/2026	50,000,000.00	49,232,444.45	49,232,444.45	49,007,555.56	224,888.89
	46651VHA7	J.P. Morgan Securities LLC	3.890	100.0000	07/06/2026	20,000,000.00	20,000,000.22	19,999,999.91	20,000,000.30	(0.39)
	46651VHA7	J.P. Morgan Securities LLC	3.890	100.0000	07/06/2026	50,000,000.00	49,999,999.78	49,999,999.78	49,999,999.70	0.08
	7426M3G29	Private Export Funding Corporation	3.772	98.4606	07/02/2026	50,000,000.00	49,230,319.45	49,230,319.45	48,644,138.89	586,180.56
	78015DFV7	Royal Bank of Canada New York Branch	3.726	98.4953	06/29/2026	50,000,000.00	49,247,666.66	49,247,666.66	49,120,583.33	127,083.33
	78015DF88	Royal Bank of Canada New York Branch	3.863	98.6630	06/08/2026	50,000,000.00	49,331,486.11	49,331,486.11	49,052,500.00	278,986.11
	78015DF88	Royal Bank of Canada New York Branch	3.863	98.6630	06/08/2026	50,000,000.00	49,331,486.11	49,331,486.11	49,052,500.00	278,986.11
	78015DF88	Royal Bank of Canada New York Branch	3.863	98.6630	06/08/2026	50,000,000.00	49,331,486.11	49,331,486.11	49,052,500.00	278,986.11
	7426M3EV7	Private Export Funding Corporation	3.812	98.7943	05/29/2026	25,000,000.00	24,698,562.50	24,698,562.50	24,332,715.28	365,847.22
	7426M5EV2	Private Export Funding Corporation	3.799	98.7942	05/29/2026	25,000,000.00	24,698,562.50	24,698,562.50	24,415,159.72	283,402.78
	21687BEJ6	Coöperatieve Rabobank U.A., New York Branch	3.937	98.8634	05/18/2026	25,000,000.00	24,715,861.11	24,715,861.11	24,512,138.89	203,722.22
	7426M3ED7	Private Export Funding Corporation	3.687	98.9816	05/13/2026	25,000,000.00	24,745,395.84	24,745,395.84	24,611,791.67	133,604.17
	47816GED7	Johnson & Johnson	3.625	98.9984	05/13/2026	50,000,000.00	49,499,208.33	49,499,208.33	49,246,333.33	252,875.00
	46651VGV2	J.P. Morgan Securities LLC	4.016	100.0000	05/11/2026	25,000,000.00	25,000,000.00	25,000,000.00	25,000,000.00	0.00
	46651VGV2	J.P. Morgan Securities LLC	4.016	100.0000	05/11/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
	46651VGV2	J.P. Morgan Securities LLC	4.016	100.0000	05/11/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
	46651VGV2	J.P. Morgan Securities LLC	4.016	100.0000	05/11/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00

46651VGV2	J.P. Morgan Securities LLC	4.016	100.0000	05/11/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
89233HEB6	Toyota Motor Credit Corporation	3.780	98.9715	05/11/2026	50,000,000.00	49,485,750.00	49,485,750.00	49,475,361.11	10,388.89
7426M3E88	Private Export Funding Corporation	4.091	98.9413	05/08/2026	50,000,000.00	49,470,666.67	49,470,666.67	48,516,763.89	953,902.78
63763QE60	National Securities Clearing Corporation	3.743	99.0469	05/06/2026	50,000,000.00	49,523,472.23	49,523,472.22	49,437,291.67	86,180.55
63763QE60	National Securities Clearing Corporation	3.743	99.0469	05/06/2026	25,000,000.00	24,761,736.11	24,761,736.11	24,718,645.83	43,090.28
47816GE54	Johnson & Johnson	3.624	99.0726	05/05/2026	50,000,000.00	49,536,291.66	49,536,291.66	49,526,319.44	9,972.22
47816GE54	Johnson & Johnson	3.624	99.0726	05/05/2026	50,000,000.00	49,536,291.66	49,536,291.66	49,526,319.44	9,972.22
74271UDW7	The Procter & Gamble Company	3.663	99.1127	04/30/2026	50,000,000.00	49,556,333.33	49,556,333.33	49,546,250.00	10,083.33
74271UDW7	The Procter & Gamble Company	3.663	99.1127	04/30/2026	50,000,000.00	49,556,333.33	49,556,333.33	49,546,250.00	10,083.33
7426M3DH9	Private Export Funding Corporation	4.218	99.1479	04/17/2026	25,000,000.00	24,786,979.17	24,786,979.17	24,238,805.56	548,173.61
71344UDA4	PepsiCo, Inc.	3.582	99.3313	04/10/2026	50,000,000.00	49,665,666.67	49,665,666.67	49,414,916.67	250,750.00
7426M5CX0	Private Export Funding Corporation	4.063	99.3620	03/31/2026	50,000,000.00	49,681,000.00	49,681,000.00	48,735,000.00	946,000.00
63763QCK1	National Securities Clearing Corporation	3.915	99.5055	03/19/2026	50,000,000.00	49,752,750.00	49,752,750.00	49,430,250.00	322,500.00
63763QCK1	National Securities Clearing Corporation	3.915	99.5055	03/19/2026	10,000,000.00	9,950,550.00	9,950,550.00	9,886,050.00	64,500.00
21687BCG4	Coöperatieve Rabobank U.A., New York Branch	3.903	99.5413	03/16/2026	50,000,000.00	49,770,666.66	49,770,666.67	49,194,666.66	576,000.01
21687BCG4	Coöperatieve Rabobank U.A., New York Branch	3.903	99.5413	03/16/2026	50,000,000.00	49,770,666.67	49,770,666.67	49,194,666.67	576,000.00
47816GBL2	Johnson & Johnson	3.709	99.8058	02/20/2026	25,000,000.00	24,951,444.45	24,951,444.44	24,803,222.23	148,222.21
47816GBL2	Johnson & Johnson	3.709	99.8058	02/20/2026	50,000,000.00	49,902,888.89	49,902,888.89	49,606,444.44	296,444.45
71344UBK4	PepsiCo, Inc.	3.676	99.8175	02/19/2026	25,000,000.00	24,954,375.00	24,954,375.00	24,822,569.44	131,805.56
71344UBJ7	PepsiCo, Inc.	3.676	99.8276	02/18/2026	50,000,000.00	49,913,819.44	49,913,819.44	49,645,138.89	268,680.55
71344UBJ7	PepsiCo, Inc.	3.676	99.8276	02/18/2026	50,000,000.00	49,913,819.44	49,913,819.44	49,650,208.33	263,611.11
71344UBH1	PepsiCo, Inc.	3.708	99.8364	02/17/2026	25,000,000.00	24,959,111.11	24,959,111.11	24,808,333.33	150,777.78
47816GBD0	Johnson & Johnson	3.717	99.8770	02/13/2026	50,000,000.00	49,938,500.00	49,938,500.00	49,636,125.00	302,375.00
47816GBD0	Johnson & Johnson	3.717	99.8770	02/13/2026	15,000,000.00	14,981,550.00	14,981,550.00	14,890,837.50	90,712.50
47816GBD0	Johnson & Johnson	3.717	99.8770	02/13/2026	50,000,000.00	49,938,500.00	49,938,500.00	49,636,125.00	302,375.00
71344UBD0	PepsiCo, Inc.	3.747	99.8767	02/13/2026	50,000,000.00	49,938,000.00	49,938,333.33	49,638,333.33	300,000.00
71344UBD0	PepsiCo, Inc.	3.725	99.8767	02/13/2026	50,000,000.00	49,938,333.33	49,938,333.33	49,660,833.33	277,500.00
71344UBD0	PepsiCo, Inc.	3.725	99.8767	02/13/2026	25,000,000.00	24,969,166.67	24,969,166.67	24,832,986.11	136,180.56
63763QB48	National Securities Clearing Corporation	3.893	99.9679	02/04/2026	27,000,000.00	26,991,337.50	26,991,337.50	26,702,587.50	288,750.00
89233HB29	Toyota Motor Credit Corporation	3.989	99.9890	02/02/2026	50,000,000.00	49,994,513.89	49,994,513.89	49,517,222.22	477,291.67
93114FB29	Walmart Inc.	3.616	99.9900	02/02/2026	50,000,000.00	49,994,986.11	49,994,986.11	49,914,763.89	80,222.22
93114FB29	Walmart Inc.	3.616	99.9900	02/02/2026	50,000,000.00	49,994,986.11	49,994,986.11	49,914,763.89	80,222.22

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**Corporate
CORP**

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
037833DK3	APPLE INC	4.252	99.0358	11/13/2027	11,148,000.00	10,916,961.74	11,040,510.98	10,755,590.40	284,920.58
037833DK3	APPLE INC	4.070	99.0358	11/13/2027	8,275,000.00	8,126,887.04	8,195,212.45	8,057,615.75	137,596.70
037833DB3	APPLE INC	4.444	98.9012	09/12/2027	4,296,000.00	4,197,306.86	4,248,795.55	4,104,656.16	144,139.39
037833DB3	APPLE INC	3.620	98.9012	09/12/2027	25,000,000.00	24,727,426.20	24,725,300.00	24,497,500.00	227,800.00
037833DB3	APPLE INC	3.618	98.9012	09/12/2027	10,000,000.00	9,891,198.14	9,890,120.00	9,800,900.00	89,220.00
037833DB3	APPLE INC	4.322	98.9012	09/12/2027	8,635,000.00	8,450,554.41	8,540,118.62	8,308,769.70	231,348.92
931142EX7	WALMART INC	4.404	100.4924	09/09/2027	20,000,000.00	19,865,079.23	20,098,480.00	19,738,000.00	360,480.00
931142EX7	WALMART INC	4.326	100.4924	09/09/2027	3,770,000.00	3,748,898.47	3,788,563.48	3,729,095.50	59,467.98
594918CQ5	MICROSOFT CORP	3.994	99.7404	06/15/2027	6,441,000.00	6,391,873.03	6,424,279.16	6,339,103.38	85,175.78
594918CQ5	MICROSOFT CORP	3.718	99.7404	06/15/2027	5,000,000.00	4,979,402.03	4,987,020.00	4,958,350.00	28,670.00
037833CR9	APPLE INC	3.677	99.4890	05/11/2027	20,000,000.00	19,884,939.56	19,897,800.00	19,761,200.00	136,600.00
037833CR9	APPLE INC	3.647	99.4890	05/11/2027	10,411,000.00	10,354,870.37	10,357,799.79	10,295,958.45	61,841.34
931142CH4	WALMART INC	3.581	102.6194	04/05/2027	3,351,000.00	3,436,467.65	3,438,776.09	3,536,712.42	(97,936.33)
771196BV3	ROCHE HOLDINGS INC	4.559	98.3936	03/10/2027	5,000,000.00	4,884,514.83	4,919,680.00	4,726,800.00	192,880.00
771196BV3	ROCHE HOLDINGS INC	4.326	98.3936	03/10/2027	25,000,000.00	24,480,573.68	24,598,400.00	23,772,500.00	825,900.00
771196BV3	ROCHE HOLDINGS INC	4.213	98.3936	03/10/2027	20,000,000.00	19,606,933.33	19,678,720.00	19,084,800.00	593,920.00
771196BV3	ROCHE HOLDINGS INC	4.128	98.3936	03/10/2027	5,710,000.00	5,602,666.26	5,618,274.56	5,461,957.60	156,316.96
771196BV3	ROCHE HOLDINGS INC	3.870	98.3936	03/10/2027	6,000,000.00	5,902,563.94	5,903,616.00	5,785,980.00	117,636.00
594918CG7	MICROSOFT CORP	4.560	99.8024	09/15/2026	14,108,000.00	14,013,764.13	14,080,122.59	13,685,606.48	394,516.11
037833DN7	APPLE INC	4.211	98.9442	09/11/2026	15,000,000.00	14,811,361.33	14,841,630.00	14,538,600.00	303,030.00

037833DN7	APPLE INC	5.003	98.9442	09/11/2026	10,557,000.00	10,380,160.65	10,445,539.19	9,891,064.44	554,474.75
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**MM Fund
MMFUND**

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
949921126	ALLSPRING:GOVT MM SEL	3.620	1.0000	01/31/2026	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00	0.00
949921126	ALLSPRING:GOVT MM SEL	3.620	1.0000	01/31/2026	75,000,000.00	75,000,000.00	75,000,000.00	75,000,000.00	0.00
665278404	NORTHERN INST:US GVT SHS	3.500	1.0000	01/31/2026	0.01	0.01	0.01	0.01	0.00
665278404	NORTHERN INST:US GVT SHS	3.500	1.0000	01/31/2026	0.01	0.01	0.01	0.01	0.00
69347S	PNC BANK DEPOSIT	3.500	1.0000	01/31/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
69347S	PNC BANK DEPOSIT	3.500	1.0000	01/31/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
69347S	PNC BANK DEPOSIT	3.500	1.0000	01/31/2026	50,000,000.00	50,000,000.00	50,000,000.00	50,000,000.00	0.00
4812CA538	JPMORGAN:US GVT MM EMPWR	3.590	1.0000	01/31/2026	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00	0.00
262006208	DREYFUS GVT CM INST	3.580	1.0000	01/31/2026	25,000,000.00	25,000,000.00	25,000,000.00	25,000,000.00	0.00
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Muni

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
60412AR54	MINNESOTA ST	4.051	100.8622	08/01/2028	1,250,000.00	1,250,000.00	1,260,777.58	1,250,000.00	10,777.58
419792M29	HAWAII ST	4.513	102.0268	10/01/2027	5,000,000.00	5,036,960.24	5,101,338.98	5,084,150.00	17,188.98
13063D3N6	CALIFORNIA STATE	4.847	101.2711	03/01/2027	9,300,000.00	9,300,000.00	9,418,214.67	9,300,000.00	118,214.67
13063DRD2	CALIFORNIA STATE	4.259	99.0590	10/01/2026	5,500,000.00	5,434,135.40	5,448,246.85	5,336,155.00	112,091.85
13063EBN5	CALIFORNIA STATE	5.096	100.9445	09/01/2026	30,000,000.00	30,065,876.67	30,283,352.62	30,269,100.00	14,252.62
93974EY C4	WASHINGTON STATE	3.370	99.9228	08/01/2026	20,825,000.00	20,825,000.00	20,808,930.97	20,825,000.00	(16,069.03)
13063DMA3	CALIFORNIA STATE	4.011	99.7695	04/01/2026	13,500,000.00	13,471,112.01	13,468,888.04	13,335,975.00	132,913.04
91411UBB0	UNIVERSITY CALIF REVS 0% CP 02-11-2026	4.007	99.8640	02/11/2026	14,000,000.00	13,985,066.67	13,980,958.60	13,895,466.67	85,491.93
---	---	4.322	100.4003	08/24/2026	99,375,000.00	99,368,150.99	99,770,708.32	99,295,846.67	474,861.65

Mutual Fund

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
900999101	CalTRUST Liquidity Fund	3.840	1.0000	---	93,865,661.30	93,865,661.30	93,865,661.30	93,865,661.30	0.00
900999101	CalTRUST Liquidity Fund	3.840	1.0000	---	9,134,338.70	9,134,338.70	9,134,338.70	9,134,338.70	0.00
900999101	CalTRUST Liquidity Fund	3.840	1.0000	---	40,000,000.00	40,000,000.00	40,000,000.00	40,000,000.00	0.00
900999101	CalTRUST Liquidity Fund	3.840	1.0000	---	20,000,000.00	20,000,000.00	20,000,000.00	20,000,000.00	0.00
900999101	CalTRUST Liquidity Fund	3.840	1.0000	---	150,000,000.00	150,000,000.00	150,000,000.00	150,000,000.00	0.00
900999101	CalTRUST Liquidity Fund	3.840	1.0000	---	313,000,000.00	313,000,000.00	313,000,000.00	313,000,000.00	0.00

**Non-US Gov
SUPRANATIONAL**

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
459058LY7	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVE	3.609	98.6404	10/28/2030	8,500,000.00	8,460,056.52	8,384,434.00	8,457,840.00	(73,406.00)
459058KD4	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVE	4.630	100.0990	11/22/2028	10,000,000.00	10,000,000.00	10,009,900.00	10,000,000.00	9,900.00
459058LG6	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVE	5.590	100.1494	05/15/2028	10,000,000.00	10,010,348.91	10,014,940.00	10,017,000.00	(2,060.00)
459058LG6	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVE	5.584	100.1494	05/15/2028	10,000,000.00	10,009,876.32	10,014,940.00	10,016,200.00	(1,260.00)
459058LG6	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVE	5.601	100.1494	05/15/2028	10,000,000.00	10,008,672.12	10,014,940.00	10,014,100.00	840.00
459058LG6	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVE	5.096	100.1494	05/15/2028	5,000,000.00	5,003,768.07	5,007,470.00	5,006,000.00	1,470.00
459058LG6	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVE	4.919	100.1494	05/15/2028	10,000,000.00	10,004,403.52	10,014,940.00	10,006,600.00	8,340.00
459050VK2	INTERNATIONAL FINANCE CORP	4.841	101.1556	03/23/2027	15,000,000.00	15,000,000.00	15,173,338.20	15,000,000.00	173,338.20

459058KN2	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVE	4.222	100.1889	01/12/2027	9,665,000.00	9,688,877.16	9,683,257.19	9,692,545.25	(9,288.07)
459053XX7	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVE	3.697	98.7029	06/10/2026	25,000,000.00	24,679,291.67	24,675,725.00	24,530,125.00	145,600.00
45950VSY3	INTERNATIONAL FINANCE CORPORATION	4.644	100.0397	02/26/2026	25,000,000.00	25,000,000.00	25,009,932.00	25,000,000.00	9,932.00
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Repo
REPO

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
RP02022026366	Reference Number: L26013000005A0	3.660	100.0000	02/02/2026	950,000,000.00	950,000,000.00	950,000,000.00	950,000,000.00	0.00
RP02022026366	Reference Number: L26013000005A0	3.660	100.0000	02/02/2026	950,000,000.00	950,000,000.00	950,000,000.00	950,000,000.00	0.00

US Gov
T-BILL

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
912797SK4	UNITED STATES TREASURY	3.617	97.4370	10/29/2026	50,000,000.00	48,694,156.25	48,718,514.00	48,428,151.04	290,362.96
912797SA6	UNITED STATES TREASURY	3.603	97.6971	10/01/2026	50,000,000.00	48,831,677.78	48,848,555.50	48,566,150.00	282,405.50
912797PV3	UNITED STATES TREASURY	4.135	99.5463	03/19/2026	10,000,000.00	9,949,451.11	9,954,625.00	9,600,004.45	354,620.55
---	UNITED STATES TREASURY	3.659	97.7505	09/26/2026	110,000,000.00	107,475,285.14	107,521,694.50	106,594,305.49	927,389.01

US Gov
US GOV

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
91282CKX8	UNITED STATES TREASURY	4.045	101.8750	06/30/2029	25,000,000.00	25,159,371.05	25,468,750.00	25,189,453.13	279,296.87
91282CKT7	UNITED STATES TREASURY	3.980	102.6328	05/31/2029	20,000,000.00	20,316,839.09	20,526,562.40	20,381,250.00	145,312.40
91282CJF9	UNITED STATES TREASURY	4.010	103.3008	10/31/2028	10,000,000.00	10,219,043.20	10,330,078.10	10,282,812.50	47,265.60
91282CCY5	UNITED STATES TREASURY	3.548	94.1055	09/30/2028	7,000,000.00	6,604,147.84	6,587,382.83	6,405,000.00	182,382.83
912810FB9	UNITED STATES TREASURY	4.003	104.2070	11/15/2027	15,000,000.00	15,510,494.51	15,631,054.65	16,425,000.00	(793,945.35)
91282CFH9	UNITED STATES TREASURY	3.269	99.3750	08/31/2027	5,000,000.00	4,989,587.90	4,968,750.00	4,966,992.19	1,757.81
912810FA1	UNITED STATES TREASURY	3.247	103.9883	08/15/2027	15,000,000.00	15,659,509.52	15,598,242.15	17,133,984.38	(1,535,742.23)
912810FA1	UNITED STATES TREASURY	3.483	103.9883	08/15/2027	15,000,000.00	15,606,160.12	15,598,242.15	16,957,031.25	(1,358,789.10)
91282CEW7	UNITED STATES TREASURY	3.109	99.6172	06/30/2027	15,000,000.00	15,027,348.38	14,942,578.05	15,094,335.94	(151,757.89)
91282CEW7	UNITED STATES TREASURY	3.213	99.6172	06/30/2027	15,000,000.00	15,007,146.45	14,942,578.05	15,024,609.38	(82,031.33)
91282ZS2	UNITED STATES TREASURY	2.845	96.1055	05/31/2027	20,000,000.00	19,424,529.37	19,221,093.80	17,828,906.25	1,392,187.55
91282CEF4	UNITED STATES TREASURY	2.502	98.7930	03/31/2027	25,000,000.00	24,999,547.55	24,698,242.25	24,998,046.88	(299,804.63)
91282CEF4	UNITED STATES TREASURY	2.503	98.7930	03/31/2027	25,000,000.00	24,999,095.10	24,698,242.25	24,996,093.75	(297,851.50)
912810EZ7	UNITED STATES TREASURY	3.048	103.0313	02/15/2027	15,000,000.00	15,515,923.64	15,454,687.50	17,248,828.13	(1,794,140.63)
91282CJT9	UNITED STATES TREASURY	3.530	100.4063	01/15/2027	50,000,000.00	50,217,943.27	50,203,125.00	50,230,468.75	(27,343.75)
91282CDQ1	UNITED STATES TREASURY	3.624	97.9414	12/31/2026	50,000,000.00	48,946,906.38	48,970,703.00	48,779,296.88	191,406.12
91282CDQ1	UNITED STATES TREASURY	3.630	97.9414	12/31/2026	50,000,000.00	48,944,585.76	48,970,703.00	48,773,437.50	197,265.50
91282CJP7	UNITED STATES TREASURY	3.616	100.6680	12/15/2026	50,000,000.00	50,320,417.79	50,333,984.50	50,375,000.00	(41,015.50)
91282CLY5	UNITED STATES TREASURY	3.668	100.5273	11/30/2026	50,000,000.00	50,233,741.28	50,263,672.00	50,291,015.63	(27,343.63)
912810EY0	UNITED STATES TREASURY	4.205	102.0742	11/15/2026	25,000,000.00	25,409,918.64	25,518,554.75	27,136,718.75	(1,618,164.00)
91282CDG3	UNITED STATES TREASURY	2.884	98.1680	10/31/2026	10,000,000.00	9,878,085.35	9,816,796.90	9,258,203.13	558,593.77
91282CJC6	UNITED STATES TREASURY	3.602	100.6641	10/15/2026	50,000,000.00	50,349,162.01	50,332,031.00	50,488,281.25	(156,250.25)
91282CJC6	UNITED STATES TREASURY	3.698	100.6641	10/15/2026	50,000,000.00	50,315,942.03	50,332,031.00	50,425,781.25	(93,750.25)
91282CCZ2	UNITED STATES TREASURY	2.540	98.2266	09/30/2026	15,000,000.00	14,845,225.95	14,733,984.30	13,943,554.69	790,429.61
91282CCZ2	UNITED STATES TREASURY	0.982	98.2266	09/30/2026	20,000,000.00	19,986,251.86	19,645,312.40	19,895,833.60	(250,521.20)
91282CCW9	UNITED STATES TREASURY	0.902	98.3711	08/31/2026	25,000,000.00	24,978,616.97	24,592,773.50	24,817,382.81	(224,609.31)
91282CCW9	UNITED STATES TREASURY	0.832	98.3711	08/31/2026	25,000,000.00	24,988,492.79	24,592,773.50	24,900,416.25	(307,642.75)
912828Y95	UNITED STATES TREASURY	3.911	99.1445	07/31/2026	50,000,000.00	49,511,607.78	49,572,265.50	49,044,921.88	527,343.62
91282CCJ8	UNITED STATES TREASURY	0.882	98.8711	06/30/2026	20,000,000.00	19,999,442.11	19,774,218.80	19,993,166.80	(218,948.00)
91282CCJ8	UNITED STATES TREASURY	0.906	98.8711	06/30/2026	35,000,000.00	34,995,646.72	34,604,882.90	34,946,679.69	(341,796.79)
91282CCJ8	UNITED STATES TREASURY	3.757	98.8711	06/30/2026	15,000,000.00	14,826,170.13	14,830,664.10	14,738,671.88	91,992.22

91282CKY6	UNITED STATES TREASURY	4.101	100.3828	06/30/2026	50,000,000.00	50,103,704.47	50,191,406.00	50,251,953.13	(60,547.13)
91282CBT7	UNITED STATES TREASURY	0.715	99.5391	03/31/2026	25,000,000.00	25,001,367.31	24,884,765.50	25,039,062.50	(154,297.00)
91282CKH3	UNITED STATES TREASURY	4.125	100.1133	03/31/2026	10,000,000.00	10,005,755.91	10,011,328.10	10,036,718.75	(25,390.65)
91282CKH3	UNITED STATES TREASURY	4.107	100.1133	03/31/2026	10,000,000.00	10,006,029.49	10,011,328.10	10,038,671.88	(27,343.78)
91282CBQ3	UNITED STATES TREASURY	0.591	99.7461	02/28/2026	20,000,000.00	19,998,675.24	19,949,218.80	19,910,508.60	38,710.20
91282CKB6	UNITED STATES TREASURY	4.212	100.0391	02/28/2026	50,000,000.00	50,014,800.11	50,019,531.00	50,201,171.87	(181,640.87)
91282CKB6	UNITED STATES TREASURY	4.212	100.0391	02/28/2026	5,000,000.00	5,001,480.01	5,001,953.10	5,020,117.19	(18,164.09)
912828P46	UNITED STATES TREASURY	0.799	99.8867	02/15/2026	10,000,000.00	10,003,099.27	9,988,671.90	10,401,560.00	(412,888.10)
912828P46	UNITED STATES TREASURY	0.670	99.8867	02/15/2026	10,000,000.00	10,003,596.74	9,988,671.90	10,466,015.63	(477,343.73)
912828P46	UNITED STATES TREASURY	4.307	99.8867	02/15/2026	50,000,000.00	49,950,160.15	49,943,359.50	48,714,843.75	1,228,515.75
---	UNITED STATES TREASURY	3.151	99.9026	12/04/2026	1,057,000,000.00	1,057,875,569.21	1,055,745,194.23	1,061,051,797.82	(5,306,603.59)

Summary

Cusip	Description	Yield	Market Price	Final Maturity	Par Value	Book Value	Market Value	Principal	Net Unrealized Gain/Loss
---	---	3.800	96.1794	06/23/2027	16,116,171,040.14	16,051,931,417.49	16,060,814,010.69	15,996,919,603.84	63,894,406.85

AGENDA ITEM 6H

WESTERN RIVERSIDE COUNTY REGIONAL CONSERVATION AUTHORITY	
DATE:	April 6, 2026
TO:	Western Riverside County Regional Conservation Authority
FROM:	Leslie Levy, Senior Management Analyst
THROUGH:	Aaron Hake, Executive Director
SUBJECT:	Consultant Reports – Fiscal Year 2026 Second Quarter

STAFF RECOMMENDATION:

This item is for the Board of Directors to receive and file the consultant reports for Fiscal Year 2026, Second Quarter.

BACKGROUND INFORMATION:

The RCA receives quarterly reports from three consultants that support the RCA in its project reviews, species monitoring, and land management roles as required by the Western Riverside County Multiple Species Habitat Conservation Plan. The consultants are Dudek, Santa Ana Watershed Association, and Riverside County Regional Parks and Open-Space District, respectively.

Attached to this staff report are the most current quarterly reports (October 1, 2025, to December 31, 2025).

FISCAL IMPACT:

This item is for informational purposes only. There is no fiscal impact.

Attachments:

- 1) Dudek
- 2) Santa Ana Watershed Association
- 3) Riverside County Regional Parks and Open-Space District

**CONSULTANT REPORT
DUDEK
FISCAL YEAR 2025/2026 SECOND QUARTER REPORT**

Report Covers Period: October 1, 2025 to December 31, 2025

Services Provided During Current Work Period:

Joint Project Reviews

As part of our ongoing duties related to Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) implementation for the Western Riverside County Regional Conservation Authority (RCA), Dudek continued to provide review of biological reports, analysis, and submittals related to Joint Project Reviews (JPRs) by Permittees (e.g., cities, County, etc.). Dudek reviewed, provided comments, and completed JPRs for Permittees during this reporting period.

During the second quarter, the following number of JPRs were completed by Dudek: four in October, one in November, and one in December. Dudek staff provided support for the following number of JPRs completed by RCA staff during the second quarter: two in October and three in December. This number only reflects those that were completed and finalized. There are many JPRs that are in process across any given quarter with all responses to Permittees occurring within 14 days.

Permittee Support

Dudek assists the RCA in providing training and support to Permittees on MSHCP implementation; however, no training sessions were conducted this quarter. MSHCP implementation training for Permittees is ongoing and being performed by the RCA.

Monthly meetings with the Riverside County Environmental Programs Department (EPD) are ongoing. These meetings are a forum to discuss upcoming or ongoing County Habitat Acquisition and Negotiation Strategy (HANS)/JPRs, conservation criteria, and other Permittee requirements to facilitate MSHCP consistency. Dudek attended two RCA and EPD meetings this quarter on October 1, 2025, and December 3, 2025. The November monthly meeting this quarter was cancelled.

Additional separate meetings or conference calls were held with RCA, Dudek, Wildlife Agencies, Permittees and/or applicants and their consultants including, but not limited to, pending JPR for City of Hemet Warren Road Improvements, HANS 25-01 Quick Quack Car Wash at the Shoppes, LR21-1000/MS Mountain View JPR, HANS 2400010 Randhawa Ranch JPR, Amended HANS1058 Dutch Village Crossing JPR, Amended Perris Valley Storm Drain Channel Trail Phase II JPR, HAN210116 Storge Facility JPR, Amended City of Riverside - Riverside Transmission Reliability Project Public JPR, City of Jurupa Valley SR-60 Pyrite Street Interchange Public Project JPR, City of Lake Elsinore Auto Center Drive Bridge Seismic Retrofit JPR, HANS230004 Non-development HANS/JPR, HANS230008 Non-development HANS/JPR, and HANS250026 Non-development HANS/JPR.

Dudek also has calls with applicants and/or their consulting biologists for projects regarding MSHCP implementation and compliance questions. Dudek fields questions on an ongoing basis related to new projects, ongoing projects, and/or past projects, both inside and out of the criteria area. Dudek

also provides assistance regarding how the MSHCP review process works in coordination with the CEQA process.

Pre-Application Meetings

Dudek attended Pre-Application Meetings with the RCA, U.S. Army Corps of Engineers, Regional Water Quality Control Board, California Department of Fish and Wildlife (CDFW) and U.S. Fish and Wildlife Service (USFWS) staff during the second quarter on October 8, November 12, and December 10, 2025.

Additionally, in this reporting period, Dudek provided documentation and support to CDFW and USFWS related to ongoing projects and questions on MSHCP implementation.

Wildlife Agency Coordination and Meetings

Dudek attended the monthly meeting with the RCA, USFWS and CDFW on November 20 and December 18, 2025. The October monthly meeting this quarter was cancelled.

Additionally, in this reporting period, Dudek provided documentation and support to CDFW and USFWS related to ongoing projects and questions on MSHCP implementation.

Participating Special Entities

Dudek staff provided support and coordination during this quarter related to pending and existing Participating Special Entities (PSEs) that included the following: Southern California Edison's (SCE) Canal 33kV Project, SCE Alberhill System Project, San Diego Gas and Electric Moreno Compressor Station Modernization Project, and Rancho California Water District Vail Lake Dam Project. This included additional separate meetings or conference calls that were held with RCA, Dudek, Wildlife Agencies, PSE applicants and their consultants.

Criteria Refinements

Dudek staff did not provide support or coordination during this quarter related to pending and existing Criteria Refinements (CRs). Riverside County Department of Waste Resources Lamb Canyon Landfill CR remains on hold and there was no activity on this CR during the second quarter.

RCA and Management Support

Dudek staff provided various forms of analysis and provided staff support by attending meetings, conference calls, and conducting research related to ongoing and past projects. During this reporting period, Dudek was involved in discussions on various projects, particularly those with substantial issues. Dudek works closely with Harry Sandavol (Regional Conservation Deputy Director) and other RCA staff to assist with past and ongoing JPRs, PSEs, and CRs, as well as develop report templates and checklists, and ensure consistency with MSHCP implementation procedures, including Reserve Assembly (Cell/Cell Group/Subunit) analysis standards. In addition to all the aforementioned coordination, RCA and Dudek hold regular monthly meetings.

**CONSULTANT REPORT
SANTA ANA WATERSHED ASSOCIATION (SAWA)
MSHCP BIOLOGICAL MONITORING PROGRAM (BMP)
FISCAL YEAR 2025/2026 SECOND QUARTER REPORT**

Report Covers Period: October 1, 2025 to December 31, 2025

Services Provided During Current Work Period:

Administrative Summary

- The new MSHCP BMP Program Administrator, Tesa Madsen-Hepp, was hired and began on 20 October 2025.
- Supervisor and Program Manager compiled and submitted October, November, and December RCA monthly summaries and second 2025-26 Quarterly Report.
- MSHCP Monthly Monitoring and Management Meetings:
 - Bob Lovich (Department of Defense) gave presentation on 8 October titled *“Department of Defense Partners in Amphibian and Reptile Conservation Overview.”*
 - Brooke Rose (San Diego State University) gave presentation on 13 November titled *“Synthesizing Documented Threats to California’s Threatened and Endangered Flora”*
 - Bill Hayes (Loma Linda University) gave presentation on 11 December titled *“The kiss of death: How venomous animals use their venom.”*
- BMP Leads meetings held on 16 October, 3 November, 18 November, 2 December, and 16 December.
- BMP All Hands meeting held on 20 October.

Biological Monitoring

Avian

- **2024 Reports**
 - **2024 California Gnatcatcher Nesting Survey Report:** Submitted to RCA on 29 October and finalized on 29 December.
 - **2024 Grasshopper Sparrow Survey Report:** Finalized on 28 October.
- **2025-2026 Avian Projects**
 - **White-tailed Kite Surveys**
 - Several access agreement applications have been submitted, and two have been signed by Reserve Managers.
 - Biologists attended a pre-survey training to discuss survey methods and have been preparing for surveys with species identifications.
 - Protocol draft was submitted to Biologist Supervisor.
 - **Loggerhead Shrike Surveys**
 - Several access agreement applications have been submitted and some have been approved.

- Biologists attended a pre-survey training to discuss survey methods and have been preparing for surveys with species identifications.
- Protocol draft was submitted to Biologist Supervisor and Monitoring Program Administrator and returned with edits to the Avian Lead.
- **Tricolored Blackbird Surveys**
 - Avian Lead monitoring Tricolored Blackbirds at San Jacinto Wildlife Area as part of a State Wildlife Grant project being led by the San Diego Natural History Museum.

Herpetofauna (Reptile and Amphibian)

- **2024 Reports**
 - 2024 reports complete and submitted to RCA for review.
- **2025 Reports**
 - **2025 Arroyo Toad Summary Report:** First draft completed.
 - **2025 Western Spadefoot Summary Report:** First draft completed.
 - **2025 Artificial Cover Summary Report:** First draft completed
- **2025 Herpetofauna Projects**
 - **Drift Fence Camera Traps (DFCT):**
Non-RCA Properties
Multi-species Reserve (MSR): Checked/exchanged SD card at MSR on 10 September. Covered Species detected: Dulzura Kangaroo Rat, Northwestern San Diego Pocket Mouse, and Orange-throated Whiptail. Other species detected: Great Basin Fence Lizard, California Kingsnake, and Ticul's Desert Shrew.
Checked/exchanged SD card at MSR on 8 October. Covered Species detected: Dulzura Kangaroo Rat and Orange-throated Whiptail. Other species detected: Great Basin Fence Lizard, Western Spotted Skunk, and Deer Mouse spp.
Checked/removed at MSR on 4 December. Covered Species detected: Dulzura Kangaroo Rat and Northwestern San Diego Pocket Mouse. Other species detected: Deer Mouse.
Banning Bench: Checked/exchanged SD card at BABE1 on 22 September. Covered Species detected: Coastal Whiptail and Northwestern San Diego Pocket Mouse. Other species detected: Western Side-blotched Lizard, California Ground Squirrel, Deer Mouse spp., Bewick's Wren, and California Towhee.
Checked/exchanged SD card at BABE1 on 23 October. Covered Species detected: Coastal Whiptail. Other species detected: Deer Mouse spp.
Checked/exchanged SD card at BABE1 on 12 December. Covered Species detected: None. Other species detected: California Towhee, Western Side-blotched Lizard, and Deer Mouse spp.

Other

- Installed new artificial cover site at Lake Mathews/Estelle Mountain Core Area with assistance from James Gannon (BLM) and removed old artificial cover site on 11 December.
- Scouting locations via ArcGIS Pro and Google Earth for new DFCT sites.

Vernal Pools (VP)

- **2024 Reports** – none.
- **2025 Surveys**
 - Conducted meter calibration and vernal pool surveys/assessments on 4, 5, 29, 30, and 31 December.

- RCA Properties (No Covered Species detected): Emerald Aliso, French Valley Donation, Benton/Yoo, El Sol Vineyard Hill Donation, Shiang Property, Anheuser Busch, Lake Skinner Investors, McElhinney/Stimmel.
- Non-RCA Properties: Lake Mathews/Estelle Mountain Reserve (Western Spadefoot detected), Multi-Species Reserve.
- **Other**
 - Began reviewing/editing the VP Protocol.

Mammals

- **2024 Reports**
 - All 2024 reports complete and submitted to RCA for review.
- **2025 Mammal Projects**
 - **San Bernardino Kangaroo Rat (SBKR):**
 - SBKR captured on 6 grids in Sept, 2 grids in October. Other Covered Species captured: Los Angeles Pocket Mouse, Bryant's Woodrat, Dulzura Kangaroo Rat, and Northwestern San Diego Pocket Mouse.
 - **SR 60 – Moreno Valley (MV) Wildlife Undercrossing:**
 - October 2025
 - **MV East (E) Undercrossing Species Detected:** Human, Raccoon, Coyote, Say's Phoebe, and Black Phoebe.
 - **MV West (W) Undercrossing Species Detected:** Coyote, a few birds that could not be identified.
 - November 2025
 - **MV E Undercrossing Species Detected:** Human (civilian), Dog, and Coyote.
 - **MV W Undercrossing Species Detected:** Coyote, unidentified bird
 - December 2025
 - **MV E Undercrossing Species Detected:** Human (civilian), Raccoon, Mourning Dove, and Coyote.
 - **MV W Undercrossing Species Detected:** Coyote, House Finch. Eastern UC December species detected: Human (civilian), Raccoon, Mourning Dove, and Coyote.
 - **Anza Knolls Guzzler**
 - Surveys began on 1 January and will continue through the year.
 - October 2025
Northern Flicker, White-crowned Sparrow, California Towhee, House Finch, California Scrub Jay, Bobcat, Coyote, Gray fox, and workers while uploading the data photos.
 - November 2025
Northern flicker, White-crowned sparrow, California Towhee, House Finch, Coyote, Gray Fox, Common Raven, Great Horned Owl, and Cooper's Hawk.
 - December 2025
Species detected: Bobcat, Dark-eyed Junco, Domestic Dog, Kangaroo rat (a first for this camera and likely a Dulzura), Unidentified Bird, Woodrat, Northern flicker, White-crowned Sparrow, California Towhee, House Finch, Coyote, Gray Fox, and Common Raven.

Rare Plants

- **2024 Reports**
 - **2024 Rare Plants Survey Report:** Finalized on 18 November.

- **2025 Surveys**

- **Engelmann Oak**

- October:

- Surveyed 116 plots within the Santa Rosa Plateau Ecological Reserve and adjacent Tenaja corridor in November.
 - RCA properties: Kelly, Biggerstaff, TNC Stevenson, TNC/Monte Cristo
 - Other Conserved lands: Santa Rosa Plateau Ecological Reserve, Cleveland National Forest, Riverside County Parks and Open Space (Tenaja Corridor).

- November:

- Through 29 October we have surveyed 166 plots within the Santa Rosa Plateau Ecological Reserve and adjacent Tenaja corridor. Total completed surveys at 258 plots out of 430 Engelmann Oak plots.
 - RCA properties: Murrieta, Austin.
 - Other Conserved lands: Santa Rosa Plateau Ecological Reserve, Cleveland National Forest, Riverside County Parks and Open Space (Tenaja Corridor).

- December:

- We surveyed 59 Engelmann Oak plots in five locations: Santa Rosa Plateau Ecological Reserve (14), Southwestern Riverside County Multi-Species Reserve (10), Wilson Valley (3), Bautista Canyon (7) and Santa Margarita Ecological Reserve (25).
 - Completed all Engelmann Oak surveys for the current five-year monitoring interval. In total we surveyed 436 plots at five locations within western Riverside County between 5 September and 30 December 2025.
 - RCA properties: Bautista Canyon, Wilson Creek/JST; Mulder.
 - Other Conserved lands: Santa Margarita Ecological Reserve, Southwestern Riverside County Multi-Species Reserve, Santa Rosa Plateau Ecological Reserve, Cleveland National Forest, Riverside County Parks and Open Space (Tenaja Corridor).

Invertebrates

Quino Checkerspot Butterfly (QCB)

- **Reports**

- 2024 QCB final report submitted to RCA on 17 November and finalized on 29 December.
 - 2025 QCB draft submitted to supervisor.

- **2025 QCB Surveys**

- None during this period.

- **Other:**

- Downloaded HOBO data at Anheuser Busch Phase 1 RCA Property and MSR on 2 October, 12 November and 11 December.
 - UCR Entomology Museum visit on 9 December to study for QCB exam and review for surveys.
 - Organized HOBO data.

Delhi Sands Flower-loving Fly (DSF)

- **2024 Report** – none.

- **2025 DSF Surveys:**

- None this quarter.

Data/GIS

Database Manager

- **2024 Datasets:**
 - 2024 Draft Managers' Dataset completed.
 - Public, commercial, and government datasets for BIOS completed.
- **2025 Datasets:**
 - 8 datasets certified: Vernal pools, Artificial cover, Quino Checkerspot Butterfly, Rare Plants, Lincoln Sparrow, Northern Harrier, Burrowing Owl Pair Counts, SBKR trapping.
 - 7 datasets being entered and QCed: Burrowing Owl burrow assessments, Drift fence cameras, DSF, Carnivore cameras, SBKR Habitat assessments, Engelmann Oaks, Arroyo Toad, and Incidentals.

Collaborations

- Avian Lead led a monthly SJWA coordination call on 2 October.
- Avian Lead attended an all-CDFW-staff Burrowing Owls call on 2 October.
- Avian Lead attended a call on 7 October to discuss the status of the Tricolored Blackbird State Wildlife Grant awarded to the San Diego Natural History Museum.
- Avian Lead attended a CDFW staff meeting in Ontario on 13 October.
- Avian Lead attended the CDFW Habitat Conservation Fest meeting on Ontario on 15 October.
- Avian Lead attended a San Jacinto Wildlife Area restoration call on 22 October.
- BMP Staff collaborated with RivCo Open Spaces to remove invasive species at Warm Springs on 1 October. Species removed: Green Sunfish, Bass, Bullfrogs, Crayfish, and Fat Head Minnows.
- BMP Staff collaborated with RivCo Open Spaces to remove invasive species in French Valley on 7 October. Species removed: Crayfish, Bullfrogs, Green Sunfish, and Mosquito Fish.
- BMP Staff collaborated with RivCo Open Spaces to remove Green Sunfish at Long Canyon on 22 October. Removed 133 Green Sunfish via electroshocking.
- Quino Survey Lead II communicated via e-mail with Kalee Koeslag (MSR) about HOB check.
- Quino Survey Lead II sent Kalee Koeslag the Research Use Application for surveys at MSR on 17 October and received the approved and signed copy back on 21 October.
- Botany Lead coordinated with Kalee Koeslag about BMP participation in the GSOB bio-blitz on 5 November at the Valley Hi Oak Reserve.
- Botany Lead coordinated with Rob Hicks (SRP Park Interpreter) about presenting on the MSHCP and BMP at their fall docent training on 22 November.
- Mammal Lead spoke with Rachel Chock (SDZWA) regarding getting more tissue samples for the SDZWA.
- BMP staff participated in the GSOB bio-blitz organized by RivCo Parks and CALFIRE on 5 November at the Valley Hi Oak Reserve.
- Field Biologist Nathan Pinckard and Botany Lead Gabe Elliott presented on MSHCP Covered Species of the Santa Rosa Plateau at their volunteer docent training on 22 November.

- Herp Lead participated in non-native aquatic species removal with OCWD at Sunnyslope Channel on 10 November.
- Manager met with UCR faculty director of the Center for Conservation Biology on 2 December to discuss a sustainability assessment collaboration to identify research needs for the Inland Empire.
- Avian Lead monitoring Tricolored Blackbirds at San Jacinto Wildlife Area as part of a State Wildlife Grant project being led by the San Diego Natural History Museum.
- BMP Staff participated in the Christmas Bird Count at MSR on 15 December and at SJWA on 18 December.
- Herp Lead and Supervisor assisted Kalee Koeslag with installing their own DFCT at MSR on 10 December.
- Submitted SBKR tissue samples and plot soil samples at the San Bernardino Valley Water District office in Redlands on 9 December.
- BMP Staff visited the UCR Entomology lab to study for DSF and QCB surveys/exams.
- Quino Survey Lead II communicated via e-mail with Kalee Koeslag about HOB0 check.
- Manager met with UCR Biology professor about the BMP mentoring capstone projects.

Training/Workshops

- U.S. Fish and Wildlife Service QCB exam to obtain a Section 10(a)(1)(A) Recovery Permit is scheduled for two field biologists on 27 January.
- Biologists working on QCB have scheduled a UCR Entomology Museum visit for QCB review/study on 9 December.
- Biologists have been provided with practice identification quizzes to study for birds likely to be detected during Loggerhead Shrike Surveys.
- Biologists registered to attend Santa Ana River Symposium 19-20 February.
- Manager and Supervisor are scheduling wilderness first aid training to be held in April.

Status of Deliverables

- **2024 Reports:**
 - Section 8.0
 - Final Draft with Appendices – submitted to RCA
 - Survey Reports:
 - GRSP – finalized
 - Clinton Keith – submitted to RCA
 - QCB – submitted to RCA
 - Rare Plants – finalized
 - CAGN – submitted to RCA
- **Quarterly Reports:**
 - 1st quarter – Submitted on 10 October 2025
 - 2nd quarter – Submitted on 7 January 2026
 - 3rd quarter – Due 17 April 2026
 - 4th quarter – Due 17 July 2026

**CONSULTANT REPORT
RIVERSIDE COUNTY REGIONAL PARKS AND OPEN-SPACE DISTRICT
MSHCP LAND MANAGEMENT UNIT
FISCAL YEAR 2025/2026 SECOND QUARTER REPORT**

Report Covers Period: October 1, 2025, to December 31, 2025

Services Provided During Current Work Period:

General Administration

Riverside County Regional Parks and Open-Space District MSHCP Land Management Unit (hereinafter referred to as 'Parks' or 'District' and 'Unit,' respectively) staff summarized and established a timeline of an egregious encroachment at the Girdhari property and submitted the information to the California Department of Fish and Wildlife (CDFW). CDFW was interested in opening a case against the neighbor suspected of being responsible for the encroachment.

The Unit participated in a video shoot at the Olsen Canyon property with RCA staff and Chairperson Kevin Bash.

Range staff completed "Ask a Ranger" questionnaires for the RCA's external affairs team.

The Unit participated in a meeting with the RCA and the Rivers and Lands Conservancy (RLC) to plan for the group's next joint volunteer outreach event.

Natural resource specialist staff developed a cost estimate for a 1-acre San Bernardino Kangaroo Rat (*Dipodomys merriami parvus*) SCE-funded mitigation project on the EMWD San Jacinto River Conservation Easement.

Natural resource specialist staff completed a Post-Nixon Fire Habitat Restoration Monitoring report.

First round interviews to fill a vacant natural resource specialist position were conducted.

The Unit attended nearly weekly land management update meetings with the RCA.

Natural resource specialist staff attended the California Invasive Plant Council Symposium.

Staff attended one monthly San Diego Management and Monitoring Program monthly meeting for collaboration purposes with other Habitat Conservation Plan implementors.

The monthly MSHCP Managers and Monitoring meeting, monthly Parks Managers and Supervisors meeting, and MSHCP Management and Monitoring Coordination meeting were all regularly attended.

Monthly MSHCP Land Management Unit staff meetings were held.

Most staff attended an annual in-house herbicide safety training.

Patrol/Enforcement

Badlands Habitat Management Unit (HMU)

The Calmat property continued to experience an increase in cut fences and off-highway vehicle (OHV) activity, and as a result, was patrolled at least weekly. Fence cuts at the property were located and repaired by staff on 11 occasions, while the property's gate was resecured five times after being found breached. Fences were reinforced and extended at the property by maintenance staff (See Maintenance/Fencing, Badlands HMU section below for more details). While on routine patrol, ranger staff discovered a newer vehicle dumped off the side of Jackrabbit Trail onto the property. The vehicle was reported to the Riverside County Sheriff's Department (RSO), where it was learned that it had been reported stolen. Rangers oversaw the recovery of the vehicle.

Staff located and repaired four cuts along Gilman Springs Road at the Wolfskill/Driscoll property.

At the Wolfskill property, rangers attempted to contact a group of off highway vehicle (OHV) riders but were unsuccessful when the riders fled the area.

Cactus Valley HMU

At the SSR Inv Co property, rangers discovered an encroachment consisting of a dog kennel, miscellaneous building material, and weed abatement which appeared to be emanating from a neighboring private property. Rangers contacted the owner of the property, who admitted to being responsible for the encroachment. The neighbor was advised that they must remove their belongings from the RCA property and cease the weed abatement activity occurring beyond their property. Throughout the quarter the neighboring private property owner removed nearly all of their belongings from the RCA property. In a separate incident rangers responded to reports that Coastal Live Oaks (*Quercus agrifolia*) had been removed from the interior of the property. Rangers discovered that an unknown individual had removed signage from the property's gate, installed a lock on the property's gate, and removed eight medium sized, fire-damaged oak trees from the interior of the property. Rangers installed two motion activated trail cameras along the property's access road, replaced the missing signage, removed the unknown lock, and increased patrols of the property. After nearly a month, the cameras were removed without any evidence that the wood harvesters had returned.

Ranger and maintenance staff deployed to the Bautista Canyon property after staff noted an uptick in dirt bike activity at the site. Staff repaired a non-operatable internal gate, installed 50 feet of fencing to block a remote OHV access point along the property's southern boundary, and installed ample signage along the remote eastern and southern boundaries of property. Prior to the work commencing, maintenance staff cleared vehicle access into the interior of the property (See Maintenance/Fencing, Cactus Valley HMU section below for more details).

Staff removed nine nonnative pine tree saplings that had been planted and were being cared for by unknown individuals in Blackburn Canyon at the Tax Sale Parcels 2012 Detail 1 property.

Gavilan HMU

The Lakeside property continued to experience occasional breached access, predominantly by fishermen at the adjacent Lee Lake. During one patrol, rangers discovered a stolen small track loader tractor that was illegally dumped within the interior of the property. Rangers called the rental company for whom the piece of equipment was stolen from. The company was able to recover the equipment. Throughout the quarter two cuts to the property's fencing along Temescal Canyon Road were located and repaired, and the property's gate was resecured shut on two occasions after its locks were cut. Two individuals that had accessed the lake through the property were contacted and issued warning citations for trespassing by ranger staff.

Rangers contacted a neighbor of the Chun property who had created an unauthorized secondary access route passing through the RCA property. The neighbor was notified that they did not have an easement to use the access route and were told about fencing plans the Unit had initiated to block the access.

At the Reynolds Phase 2 property, rangers cleaned up two large garbage bags worth of trash from an abandoned homeless encampment and repaired damage to an internal OHV barricade.

Rangers cleared one small homeless encampment from the southeastern corner of the Circle K Donation property and repaired one cut fence along the property's southern boundary.

Rangers located and repaired two fence cuts at the Burek and Adams properties, and a single fence cut at the North Peak 4 property.

A cut lock on the Olsen Canyon property gate was replaced by rangers.

Rangers picked up two large garbage bags worth of trash dumped along Lindell Road at the Hariton property.

Meniffee HMU

Rangers checked on work being completed by Southern California Edison (SCE) contractors for the emergency road grading at the Anheuser Busch property. SCE access roads at the property were repaired without impacts outside of the existing road footprints.

River HMU

At the B Canyon properties, rangers replaced cut locks or reincorporated RCA locks on the cul-de-sac gate on three occasions, canyon gate on three occasions, and tunnel gate on two occasions. A fence cut by pedestrians at the tunnel gate was repaired on one occasion.

Two fence cuts were repaired, and internal gates were secured closed three times at the Teledyne property.

Sage HMU

At the JPR Inc (6) property, staff discovered damage to habitat where it appeared a large tractor had entered, traversed, and exited the northern portion of the property. Rangers hiked in and posted signage along the property's northern boundary to dissuade any future intrusions. In the process, rangers discovered exposed drip line, a tent hidden in brush, and multiple large garbage bags of cannabis stored inside a rock crevasse inside RCA boundaries. The items appeared old and likely were associated with a grow on adjacent private property in 2022. The items associated with the cannabis grow were scheduled for cleanup.

At the Mustang Lane property, rangers discovered an encroachment consisting of a motorhome, camper trailer, storage shed, building material, and weed abatement, which appeared to be emanating from neighboring private property. Rangers contacted the owner of the property, who admitted to being responsible for the encroachment. The neighbor was advised that they must remove their belongings and cease their weed abatement activity. Throughout the quarter, the neighboring private property owner removed nearly all of their belongings from the RCA property.

Staff completed three OHV related fence repairs along the RH Acquisition property's eastern fence line.

Vehicle accident-related fence damage along Wilson Valley Road was completed by ranger staff at the Cordova property.

Rangers completed installation of a single fence along the western boundary of the Bush property and resecured the Winchester 700 Anza property gate after finding it open.

San Jacinto HMU

The Eastern Municipal Water District (EMWD) properties were patrolled weekly to address ongoing homeless and trespass issues. After several consecutive quarters of elevated homeless encampment issues, the property witnessed a lull in the activity as no encampments were found in the area in the second quarter. However, the property was not without issue. Early in the quarter rangers discovered a vehicle parked within the property. The vehicle was reported to RSO who stated that the vehicle was of interest in a recent crime. RSO recovered the vehicle. Shortly after, rangers discovered and removed unknown locks on the back-to-back gates at the Bethlam Avenue entrance to the property. Finally, an OHV trail leading into the property at its far southeastern corner, and another OHV trail on the neighboring Wilder property were blocked by rangers with T-posts and signage. The signs were found removed on a subsequent visit and were replaced, and a lone dirt bike rider in the property fled the area upon seeing a ranger approaching.

Ranger staff contacted an individual with a parked vehicle and a camp set up within the SSR 153 property. The individual was notified that they were not allowed to camp on the RCA property and they packed up their belongings and left the property. On a separate patrol of the property, rangers discovered an abandoned van. The van was reported to California Highway patrol who promptly removed the vehicle.

Rangers contacted a group of eight dirt bike riders on one occasion and two dirt bike riders on a second occasion at the SSR 39 property. The riders were educated about the conserved lands and were escorted off property.

Rangers continued conversations with a neighboring private property owner adjacent to the Valley Wide Recreation property concerning motorhomes and a solar array that had been in place on the RCA property since before its acquisition by the RCA. The private property owner finally agreed to the Unit's assessment of the encroached items and agreed to have the items removed by mid-third quarter. In a separate area of the property, rangers cleared a new homeless encampment and cleaned up seven large garbage bags worth of refuse left behind and installed a short fence extension to block an OHV fence go-around.

Ranger staff checked on SCE's work on a powerline upgrade at the Meadows at Lone Cone (SJRR) property. Rangers confirmed that work was being conducted within the predetermined impact footprints and reiterated the need to keep impacts to a minimum on the RCA property.

San Timoteo HMU

At the Oak Valley Partners property, rangers contacted the occupant of a new homeless encampment. The individual immediately packed up their belongings and departed the property. Rangers also escorted Riverside County Code Enforcement officers through the rugged northern portion of the property so that they could reinspect unpermitted structures off property. Rangers believed the individual responsible for the unauthorized structures had repeatedly accessed the area via vehicle trespassing through the RCA property. The property continued to be targeted by OHV riders and was patrolled approximately weekly to address the issue. Throughout the quarter rangers repaired damage to the property's western cable fenceline on three occasions and secured the property's western gate along San Timoteo Road on one occasion.

A dirt bike access route into the Spring Mountain Donations PA3 property was blocked with a T-post and signage by ranger staff.

Ranger staff repaired a down chain-link fence at the Cuccia/Vogel property.

Maintenance/ Fencing

Badlands HMU

At the Calmat property, maintenance staff installed 300 feet of cable reinforcements to fencing on either side of the property's gate along Jackrabbit Trail. On the western boundary of the property, staff extended a short cable fence segment by 250 feet to block a vehicle go-around.

Cactus Valley HMU

At the Goodhart property, maintenance staff graded the dirt access road and improved drainage points along it.

Maintenance staff removed and chipped two large fallen sycamore trees obstructing the interior dirt road at the Bautista Canyon property. This reestablished vehicle access to the interior of the property.

Gavilan HMU

Staff utilized the Unit's track loader tractor to place boulders to block the entrances of four old mines at the Johnson property and one mine at the Ordonez property. All the mines had been previously blocked, but individuals had dug around existing access controls at all five of the mines.

At RCA properties along El Torro Cut Off Road, staff installed several fence segments and extensions to block OHV routes and fence go-arounds. These included three new fencing segments and extensions totaling 260 feet at the Andrade property, one new 60-foot fence segment at the North Peak El Toro Road property, and one new 60-foot fence segment at the Adams property.

Staff and one volunteer continued trash cleanup and demolished the large billboard at Lakeside property. Two loads of refuse, totaling 2.11 tons, were taken to the landfill. Two gallons of used oil were also removed from the site.

Staff installed a 150-foot fence extension adjacent to the gate of the Olsen Canyon property to block dirt bike fence go-arounds.

Meniffee HMU

Maintenance staff completed the post-acquisition cleanup of the Bundy Canyon property. About 8.28 tons of large, dumped refuse piles were removed from the site and taken to the landfill, while eight large garbage bags of scattered litter were cleaned up and disposed of in District dumpsters.

Rangers and maintenance staff removed 2.78 tons of illegally dumped trash from the Flemming French Valley properties and installed 500 feet of new fencing to block vehicle access to the dump site.

At the Schleuniger property, staff removed 220 feet of recently, but incorrectly placed fencing near the property's southern boundary and then installed 530 feet of fencing on the property's boundary along La Estrella Street.

Staff cleaned up a large garbage bag of trash, a toilet, and a pile of cardboard that had been dumped at the Rindahl property. A bathtub and several bags of trash dumped at the Delgado property were also cleaned up by staff.

Responding to requests from neighbors, staff cleared a patch of shrubs at the northwest corner of Chappell property to improve line of sight for residents pulling out of Clearview Street onto Whitewood Avenue.

Staff constructed a wooden backing for a Wildlife Conservation Board sign and installed it at the White Rocks 2 property.

River HMU

Staff loaded up a stolen van from the B Canyon 1 property onto a trailer and moved it to a paved road so that it could be removed with a tow truck. The van had illegally parked on a dirt road at the property since before the property had been acquired.

Sage HMU

Maintenance staff installed 500 feet of fencing to surround and protect a newly created ephemeral pool at the Winchester 700 (Reed Valley/ Anza) property (See Habitat/Species Management, Sage HMU section below for more details).

Maintenance staff spent several additional days removing graffiti from boulders and cliffs around the waterfall at the Mustang Lane property. By quarter's end, no traces of graffiti remained in the area for this reoccurring illegal activity.

Staff demolished an unauthorized small dirt bike track at the RH Acquisition property with a track loader tractor.

San Jacinto HMU

In preparation for contracted weed abatement, staff cleaned up 2.1 tons of dumped trash and 30 gallons of dumped motor oil from the SSR 153 and SSR 39 properties.

San Timoteo HMU

A truck bed worth of illegally dumped insulation was cleaned up from the Lin property along Conduit Avenue.

Weed Abatement

All forms of weed abatement listed below were completed by maintenance staff except where otherwise noted. All tractor mowing weed abatement was completed with an additional staff member in a water truck providing fire watch.

Large crews of staff spent two days removing several giant Salt Cedar (*Tamarix ramosissima*) trees and a palm tree from the Bush property to mitigate fire hazards for the adjacent Rancho RV Resort. The trees' stumps were treated with herbicide to prevent regrowth, and the 4.43 tons of cleared vegetation was disposed of offsite.

Staff completed string trimmer, chainsaw, and hedge trimmer structure weed abatement at the Kalmia property. The group cleared dense chaparral and coastal sage scrub, limbed up large scrub oaks, and mulched the material onsite.

Roadside and structure tractor mowing and chainsaw weed abatement was completed at the Goodhart Ranch property, including the removal of three trees that had fallen onto the property's shop.

Roadside string trimmer weed abatement was completed at the Tax Sale Parcels 2015 Detail 1 property.

Contracted roadside tractor mowing weed abatement was completed at the SSR 153 and SSR 39 properties.

Habitat/Species Management

Badlands HMU

The wildlife water guzzler at the Wolfskill/Driscoll property was cleaned and refilled.

Gavilan HMU

The wildlife water guzzler at the Reynolds property was cleaned and refilled.

Menifee HMU

Staff, with help from MSHCP Biological Monitoring staff, spent several days conducting electrofishing aquatic nonnative predator removal for the benefit of Southwestern Pond Turtles (*Actinemys pallida*). Focusing on French Valley, Warm Springs, and Tualata Creeks at the Winchester 700 Murrieta, Spencer's Crossing, Cornerstone, and Murrieta Marketplace properties, teams removed thousands of invasive fish, Bullfrogs (*Lithobates catesbeianus*), and Red Swamp Crayfish (*Procambarus clarkii*) from the systems.

Staff cut, treated with herbicide, and removed 1.4 tons of Salt Cedar trees of varying ages from the Spencer's Crossing property. The team also removed a large chain-link gate that was lying in a deep pool in the creek at the property.

Natural resource staff visited an SCE restoration area at the Calvary Chappel of Murrieta property after receiving notice from SCE that the site had met all success criteria. The restored temporary access road was observed having healthy and diverse shrub cover and no novel weeds. The area still had 25 large metal plant cages on site as well as synthetic netting straw waddles. SCE was notified and returned to the site to remove the items.

River HMU

The Unit participated in a joint volunteer restoration event at the Teledyne property with the RCA and RLC for the benefit of Delhi Sands Flower Loving Fly (*Rhaphiomidas terminatus abdominalis*). The event included 32 volunteers who completed work on the Teledyne property and adjacent RLC Mary Vogel Reserve. On the RCA managed side, volunteers and staff thinned California Buckwheat (*Eriogonum fasciculatum*) from about 80% cover to about 50% across 0.15 acres. A total of 1.0 ton of buckwheat was removed from the RCA managed site and taken to a green waste facility. Staff returned to the property to complete early season weeding. Weeds were minimal across the restored area of the site except for a dense patch of Sahara Mustard (*Brassica tournefortii*) in the southwest corner of the upper dunes, which were hand pulled. Several large seeding Golden Crownbeards (*Verbesina encelioides*) were pulled and removed from the upper dunes as well.

Sage HMU

All staff assisted with the installation of a 40-foot by 50-foot pond liner at the western Winchester 700 (Reed Valley/Anza) property to provide a breeding site for the property's Western Spadefoots (*Spea hammondi*) frogs. Since the early 2000s, the frogs have bred in a nearby old tarpaper lined pool that has experienced unsuccessful hatching of their egg masses.

Natural resource staff assisted MSHCP Biological Monitoring Program staff with invasive Green Sunfish (*Lepomis cyanellus*) removal via electrofishing in Long Creek within Cleveland National Forest. There were 133 Green Sunfish removed from two isolated pools just upstream from the Boonklun property, which were the only two pools in the area occupied by the invasive fish.

Maintenance staff tractor mowed the internal dirt road at the JPR Inc (6) property, then completed the 4-acre Stephen's Kangaroo Rat (*Dipodomys stephensi*) mowing treatment area.

The wildlife water guzzlers at the Anza Knolls, Winchester 700 (Reed Valley/Anza), and Cordova Phase 2 properties were cleaned and refilled.

San Jacinto HMU

Staff tractor mowed the northern half of the Nuevo Donation property for the benefit of its Burrowing Owl (*Athene cunicularia*) colony. Later, a large crew of staff returned and replaced two Burrowing Owl artificial burrow nest boxes that had collapsed and installed three additional new artificial burrows.

Natural resource specialist staff planted hundreds of seeds of the rare Parish's Brittle scale (*Atriplex perishii*) at the Wilhelm Ranch, RCTC Dilworth #2 Donation, and Warren Road Partners properties. The seeds had been in storage after being collected from the McElhinney/Stimmel property in 2021. Prior to the planting, staff tractor mowed the access road and planting area of the Wilhelm Ranch property and coordinated with two separate restoration contractors at the Warren Road property to plant the seeds within their active mitigation sites.

Staff continued experimental mowing treatments at the RCTC Dilworth #2 Donation property to investigate thatch reduction effects on native plants in the area. Several locations, totaling 12.5 acres, were mowed at the property. A three-acre area with abundant Russian Thistle (*Salsoa targus*) was also hand weeded to reduce the invasive species at the property.

Staff attended a meeting with a cattle rancher at the Sey, Wilhelm Ranch, and RCTC Dilworth #2 property to discuss logistics of utilizing cattle grazing methods at the properties for invasive weed control. Staff returned to the Sey and Wilhelm Ranch property and began treating scattered but numerous Stinknet patches with backpack-applied herbicide at the properties in anticipation of future cattle grazing activities.

Staff continued Stinknet (*Oncosiphon piluliferum*) and nonnative grass broadcast herbicide treatments and tractor mowing at the Kaelin #2 property. The access road inside the property was tractor mowed, as well as a six-acre area within the property. Two acres within the mowed area were then treated with herbicides that specifically target grass and aster (the plant family for which Stinknet belongs to) plants.

Acquisitions

Initial Site Inspections:

The following properties were inspected by natural resource specialist staff prior to acquisition. All MSHCP covered species were reported to the MSHCP Biological Monitoring Program. All outstanding issues were mapped and submitted to the RCA's acquisition team so that any issues

could be addressed during the acquisition process, if appropriate. A detailed summary and photos of the properties were also submitted to the acquisition team.

Ambriz - The 80-acre parcel in the Vail Lake area was characterized by mixed desert transition scrublands. Evidence of Covered Species utilizing the property included signs of Bobcat (*Lynx rufus*) and Coyote (*Canis latrans*). An active homeless encampment and ample illegal dumping were noted on the property, as were signs of frequent and widespread dirt bike use.

Gilman Springs Mine Donation - The large and complex 430.01-acre property located in the Badlands was comprised of rugged, steep slopes and drainages with some large rock outcrops. The property contained a diverse mix of habitats including coastal sage scrub, mixed chaparral, and ephemeral washes with alluvial scrub. Covered species observed utilizing the property during the inspection included Belding's Orange-Throated Whiptail (*Aspidoscelis hyperythra*), Coastal Western Whiptail (*Cnemidophorus tigris*), Coastal California Gnatcatcher (*Polioptila californica californica*), Southern California Rufous-Crowned Sparrow (*Aimophila ruficeps canescens*), Loggerhead Shrike (*Lanius ludovicianus*), Turkey Vulture (*Cathartes aura*), Sage Sparrow (*Artemisiospiza nevadensis*), Coyote, and Bobcat. Several issues were documented at the property, most of which appeared to be associated with the adjacent quarry property. These included a groundwater well and an associated old piping system, several recently graded wide dirt roads, recent ground disturbances, a runoff retention basin, and scattered trash.

Gilmore Family Donation - The 8.74-acre parcel in the Jurupa Hills was found to have been recently burned during the Pyrite Fire. Prior to the fire, the property contained Riversidean sage scrub. Although the property was charred, covered Coastal Western Whiptail, Cooper's Hawk (*Accipiter cooperii*), and Southern California Rufous-Crowned Sparrow were still observed at the site. No outstanding issues were observed within the property.

Caltrans Huang - The 163.9-acre property supported mature Coast Live Oak Woodland and diverse chaparral habitats, and was bisected by Arroyo Seco Creek. Although San Diego Horned Lizard (*Phrynosoma coronatum blainvillei*), Turkey Vulture, Sage Sparrow, and Coyote were the only Covered Species observed at the property, it was likely inhabited by many more Covered Species. The property had numerous and widespread areas of concern. The property housed at least two occupied permanent residences with extensive associated materials (storage areas, an elevated water tank, animal enclosures, improvised structures, travel trailers, refuse piles, etc.), as well as a metal shipping container, culvert pipe segments, solar panels, small outbuildings, and building material scattered across the property.

O'Reilly - The 5-acre property situated in the foothills of Red Mountain was comprised of south and southwest facing hillsides, an ephemeral canyon bottom bisecting its southern portion, and a small portion of a north facing slope. The property's habitats consisted of chaparral interspersed with patches of coastal sage scrub with the canyon bottom being dominated by Coast Live Oak Woodland. Bobcat tracks were the only sign of Covered Species observed at the site, although the inspection was cut short when hostile neighbors were encountered. In the northeastern corner of the property, a small encroachment consisting of a portion of a hoop house, a small, graded area, and scattered trash were observed.

AGENDA ITEM 6I

WESTERN RIVERSIDE COUNTY REGIONAL CONSERVATION AUTHORITY	
DATE:	April 6, 2026
TO:	Western Riverside County Regional Conservation Authority
FROM:	Tyler Madary, Legislative Affairs Manager Jeanette Flores, External Affairs Director
THROUGH:	Aaron Hake, Executive Director
SUBJECT:	State and Federal Legislative Update

STAFF RECOMMENDATION:

This item is for the Board of Directors to receive and file an update on state and federal legislative affairs.

BACKGROUND INFORMATION:

State Update

For Fiscal Year (FY) 2026-27, Governor Gavin Newsom proposes the permanent elimination of approximately 1,000 vacant state employee positions, including 164 positions at the California Department of Fish and Wildlife (CDFW). While the Joint Legislative Budget Committee issued a letter earlier this year disagreeing with the elimination of 77 of those positions, they remain at risk. Since the vacant positions identified for potential elimination have not been identified yet, RCA staff must monitor and evaluate if the proposed eliminations could adversely cap the State’s capacity to support permitting activities vital to the Multiple Species Habitat Conservation Plan (MSHCP) and its Permittees, such as:

- 1) Permitting take of candidate species such as Crotch’s Bumblebee;
- 2) Guiding projects through the Joint Project Review process; or
- 3) Processing any future Major Amendments to the MSHCP.

RCA staff, in coordination with the California Habitat Conservation Planning Coalition, are monitoring developments and expect these positions to be reviewed by the Assembly Budget Subcommittee on Climate Crisis, Resources, Energy, and Transportation on April 8. If proposed eliminations are identified that could adversely affect implementation of the MSHCP or other Natural Community Conservation Plans (NCCP) as previously described, RCA staff will advocate for the preservation and funding of those vacant positions at upcoming budget hearings.

These efforts are consistent with the Board’s 2026 State and Federal Legislative Platform to support sufficient resources for state field offices to advance implementation of the MSHCP. Staff will keep the Board informed of efforts to protect any positions vital to the implementation of NCCPs in the annual budget process progress.

Federal Update

Fiscal Year 2027 Appropriations

Staff developed and submitted two programmatic requests for consideration by Members of Congress in FY 2027 to increase funding for the Cooperative Endangered Species Conservation Fund (also known as Section 6 grants), from which RCA competes for land acquisition funding.

The first is for the Section 6 Habitat Conservation Plan (HCP) Land Acquisition Program to be funded at \$100 million, up from the FY 2026 level of \$26 million. This request is consistent with previous requests submitted by RCA and supported by the National HCP Coalition, recognizing that funding for the HCP Land Acquisition Program has diminished over time and is oversubscribed. Indeed, over \$58 million in eligible applications went unfunded in the FY 2024 grant cycle.

RCA's second request is for \$10 million in discretionary funds to be allocated to the HCP Land Acquisition Program above FY 2026 levels, with accompanying report language to direct this allocation only to HCPs with federal commitments. The strategy of this request is to provide a funding level that may be more appealing to congressional appropriators, while maximizing RCA's competitiveness for those funds since the MSHCP has a commitment from the state and federal governments to fund the acquisition of 56,000 acres of ARL. Should the request and accompanying report language be fulfilled, this would set a positive precedent by expanding the type of federal funds plans that the MSHCP may access. Since passage of the Great American Outdoors Act in 2020, Section 6 grants have been funded exclusively through the Land and Water Conservation Fund's mandatory \$900 million annual appropriation. Expanding Section 6 grant program funding sources to include discretionary funding would increase future federal investment, enabling the federal government to meet its commitments to fund local land acquisition for plans like the MSHCP.

This request builds on previous work of the RCA to secure language in FY 2026 Appropriations legislation directing U.S. Fish and Wildlife Service (USFWS) to fulfill its commitments to large-scale, programmatic HCPs, such as the MSHCP.

RCA has submitted the above requests to Riverside County's Congressional delegation as well as Senators Alex Padilla and Adam Schiff. Staff will keep the Board apprised of the progress of these funding requests.

March 24-26 National HCP Coalition Washington, D.C. Trip

On March 24, RCA staff traveled to Washington, D.C. with the National Habitat Conservation Plan Coalition to meet with Representative Mark Takano, U.S. Fish and Wildlife Service Director Brian Nesvik, U.S. Department of Interior Associate Deputy Secretary Karen Budd-Falen, professional staff from the offices of Senator Alex Padilla, Senator Adam Schiff, Representative Ken Calvert, Representative Young Kim, and professional staff from the House and Senate

appropriations and policy committees. During the meetings, RCA staff and Coalition members advocated in support of increasing Section 6 HCP Land Acquisition Program funding.

FISCAL IMPACT:

This is a policy and information item. There is no fiscal impact.

Attachment: Legislative Matrix – April 2026

WESTERN RIVERSIDE COUNTY REGIONAL CONSERVATION AUTHORITY – POSITIONS ON STATE AND FEDERAL LEGISLATION – APRIL 2026

Legislation/ Author	Description	Bill Status	Position	Date of Board Adoption
SB 427 (Blakespear)	Extends the Habitat Conservation Fund until July 1, 2035, ensuring the program continues to allocate \$30 million annually to support the acquisition, enhancement, and restoration of wildlife habitat in California.	Signed by the Governor on 10/3/25.	<i>Support via Platform</i>	3/26/25

AGENDA ITEM 7

WESTERN RIVERSIDE COUNTY REGIONAL CONSERVATION AUTHORITY	
DATE:	April 6, 2026
TO:	Western Riverside County Regional Conservation Authority
FROM:	Genivive Schwarzkopf, Accounting Supervisor Daniel Hernandez, Financial Administration Manager Jennifer Fuller, Deputy Director of Finance
THROUGH:	Aaron Hake, Executive Director
SUBJECT:	Quarterly Financial Statements

STAFF RECOMMENDATION:

This item is for the Board of Directors to:

- 1) Receive and file the Quarterly Financial Statements for the six months ended December 31, 2025, and
- 2) Approve the Fiscal Year 2025/26 budget adjustments in Attachment 2.

BACKGROUND INFORMATION:

Staff have monitored the revenues and expenditures for RCA for the period ended December 31, 2025, and the attached financial statements present the revenues and expenditures through the second quarter. As a result of the analysis, staff are recommending the budget adjustments described below.

Revenues

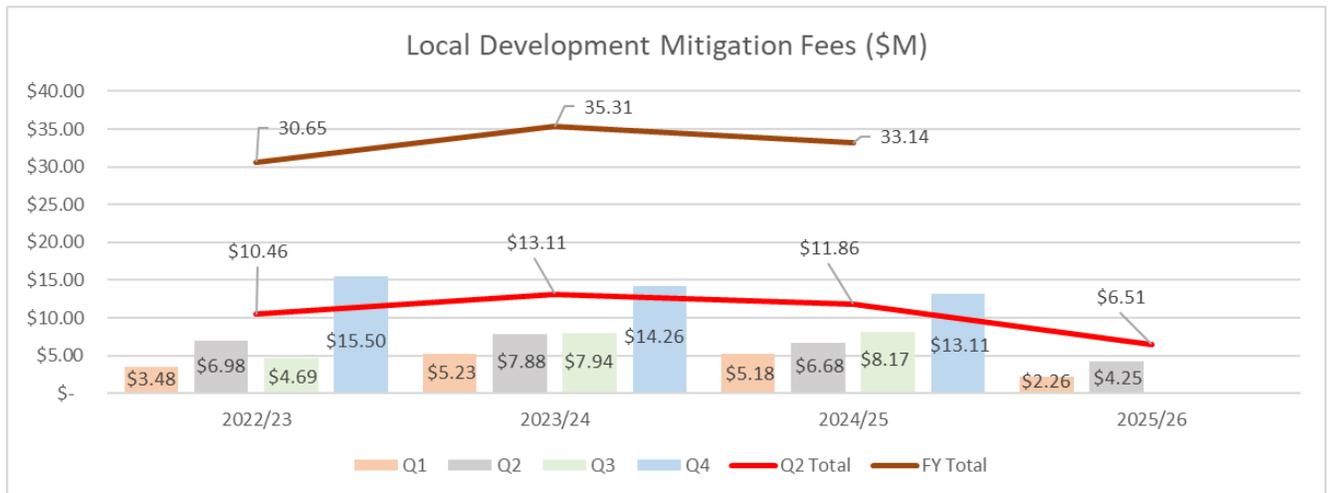
Local Development Mitigation Fee Revenues

The operating statement shows the Local Development Mitigation Fee (LDMF) revenues for the second quarter at 25 percent of the budget. LDMF revenues are collected by member agencies then remitted to the RCA. Payments to the RCA shall be made no later than 90 days after the LDMFs were collected. This creates a lag in the receipt of revenues by RCA. However, LDMF revenues are lower than anticipated primarily due to an apparent slowdown in development activity in Western Riverside County. This trend is in alignment with the reductions in the development driven Transportation Uniform Mitigation Fee (TUMF) revenues described below. FY 2025/26 projected LDMF revenues collected through Q2 of \$6.51 million, are approximately \$5.35 million or 45% less than the \$11.86 million collected through the same period in the prior fiscal year. While this revenue source is difficult to predict, staff recommends a revision to FY 2025/26 LDMF revenues from \$25,600,000 to \$18,000,000 based on the slowdown in

development activity in Western Riverside County reflected in fiscal year to date collections for both LDMF and TUMF revenues.

The following graph summarizes quarterly LDMF collections from FY 2022/23 through Q2 FY 2025/26. The red trend line summarizes midyear collections over this time horizon with a decline in FY 2025/26. The brown trendline provides fiscal year end totals for FY 2022/23 through FY 2024/25.

Graph 1: LDMF revenues FY 2022/23 through FY 2025/26



Federal and State Revenues

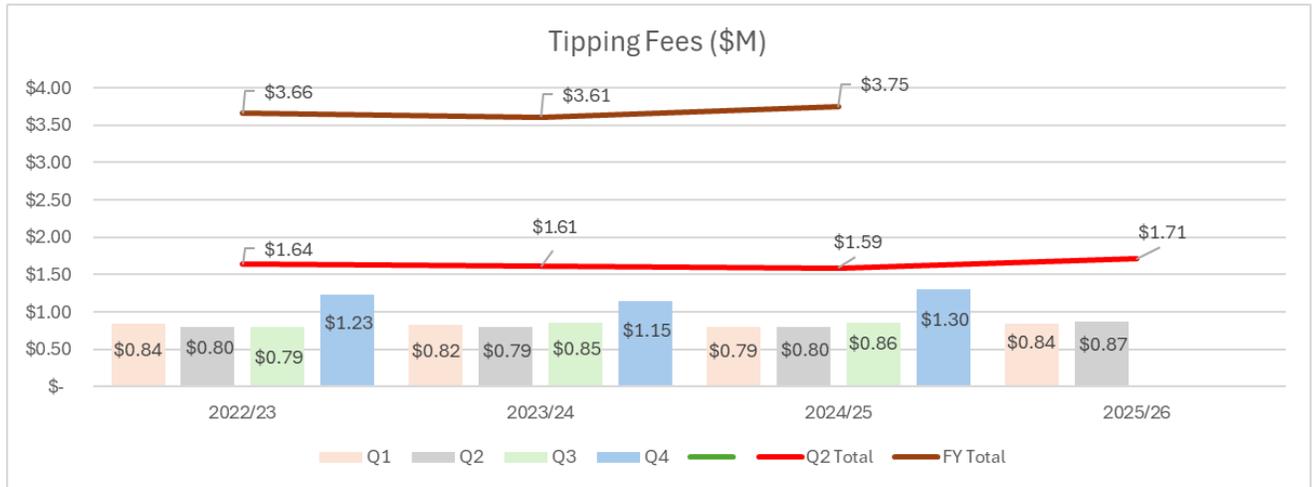
Federal and state revenues are only recognized when a grant property is purchased. As of the second quarter, no purchase has been completed. A grant funded property was purchased in the third quarter.

Tipping Fee Revenues

Tipping fees are remitted to the RCA by the County of Riverside (County). The operating statement includes tipping fee revenue of \$843K, reflecting one quarter of tipping fee collections for the period ended December 31, 2025. Second quarter tipping revenues of \$874K was received in the third quarter. Tipping fee collections for the first and second quarters totaling \$1.71M represent an approximate \$125k or 8% increase in tipping fee revenue when compared to the prior fiscal year’s collections of approximately \$1.59M for the first two quarters.

The following graph summarizes quarterly tipping fee revenue from FY 2022/23 through Q2 FY 2025/26. The red trend line summarizes stable midyear collections over this time horizon. The brown trendline provides fiscal year end totals for FY 2022/23 through FY 2024/25.

Graph 2: Tipping Fees revenues FY 2022/23 through FY 2025/26

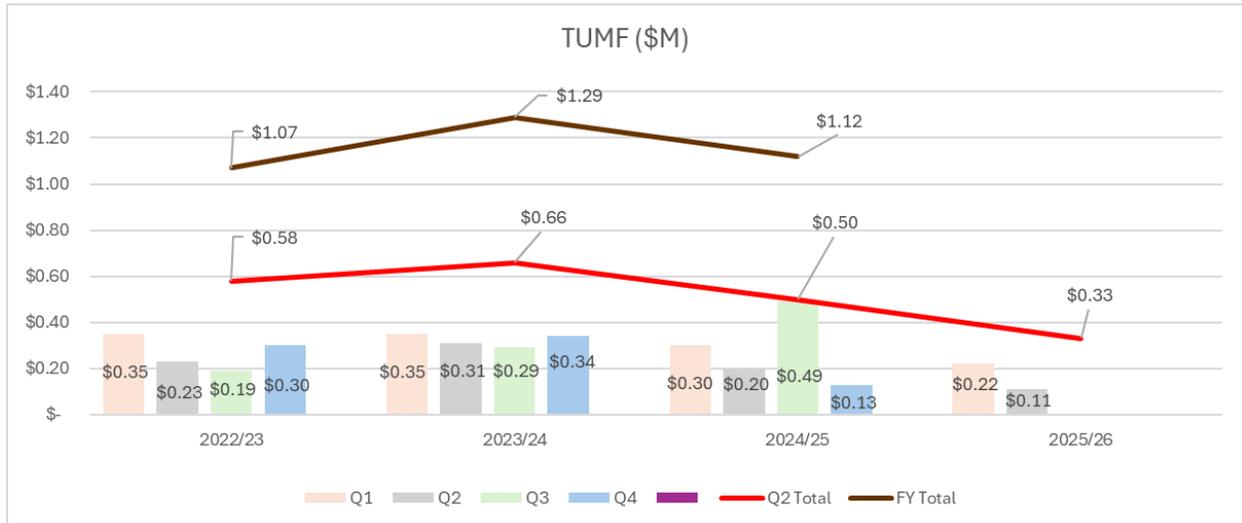


Transportation Uniform Mitigation Fee Revenues

The operating statement includes TUMF revenue of \$224k, reflecting one quarter of TUMF collections for the period ended December 31, 2025. Second quarter collections of \$105k will be recognized as part of the third quarter operating statement. TUMF collections for the first and second quarters totaling \$330k represent an approximate \$160k or 32% decline in TUMF revenue when compared to the prior fiscal year’s TUMF collections of approximately \$490k for the first two quarters. In line with LDMF, the TUMF revenue is lower than anticipated primarily due to slowdown in development activity in Western Riverside County. After coordinating with the Western Riverside Council of Governments (WRCOG), staff recommends a downward adjustment to the projected FY 2025/26 TUMF revenues from \$1,100,000 to \$700,000.

The following graph summarizes quarterly TUMF collections from FY 2022/23 through Q2 FY 2025/26. The red trend line summarizes midyear collections over this time horizon with a decline in FY 2025/26. The brown trendline provides fiscal year end totals for FY 2022/23 through FY 2024/25.

Graph 3: TUMF revenues FY 2022/23 through FY 2025/26



Other Fee Revenues

Other fee revenue includes infrastructure, civic, and flood contributions from Member Agencies and the Riverside County Flood Control and Water Conservation District (District). Other fee revenue reported in the operating statement of \$3.29M exceeds the budget of \$1.07M by approximately \$2.22M. Collections through the second quarter are comprised predominantly of revenue from a participating special entity project. Staff recommend an upward adjustment of \$332,900 to FY 2025/26 Other Fee Revenues from \$1,075,000 to \$1,407,900 to offset general fund expenditure adjustments described below.

Contributions and Donations

Revenue is recognized on donated properties at the time of donation and at appraised value. Staff are working diligently on many land donations. Four donations for over 102 acres of Additional Reserve Lands (ARL) closed through the second quarter. One of the donations was recognized in the second quarter; the remaining three donations will be recognized as revenue in a future quarter of this fiscal year as the appraisal becomes available.

Interest

During the FY 2025/26 budget process, the RCA estimated interest income at \$2.75M. RCA received approximately \$1.13M in interest for the first quarter through the period ended

December 31, 2025. RCA does not receive the information for the second quarter's earned interest income from the Riverside County Treasurer's Pool Investment Fund until the third quarter.

Expenditures

General Administration includes insurance costs and reflects the insurance payment for the complete fiscal year.

Contracts include expenditures paid for by the Riverside County Transportation Commission and reimbursed by RCA, such as salaries and benefits, species monitoring services performed by Santa Ana Watershed Association (SAWA), and environmental consulting services (Dudek). Contract expenditures also include amounts paid to Riverside County Regional Park and Open-Space District (Parks) for land management services. The following expenditure budget adjustments are proposed following staff review of contract expenditures for the six-month period ended December 31, 2025:

- **Expenditure Adjustment 1 – \$83,400**

On January 29, 2026, RCTC's Executive Committee reviewed and approved organizational and staffing recommendations for the Regional Conservation department following the recommendation by RCA's Executive Committee. Additional staffing was recommended to implement the RCA Board's direction on Strategic Improvement Assessment and Action Plan (SIAAP) initiatives and ensure staffing levels match workload demands. The two new positions added were MSHCP Compliance Manager and Senior Management Analyst. The personnel additions will result in an approximate \$83,400 increase in total salaries for the current fiscal year (approximately two months).

- **Expenditure Adjustment 2 – \$65,000**

SAWA is the species monitoring administrator for the RCA's Multiple Species Habitat Conservation Plan (MSHCP). The FY 2025/26 budget for services rendered by SAWA requires an increase of \$65,000 from \$2,215,800 to \$2,280,800 for SAWA's reclassification of its Monitoring and Program Administrator position from part-time to full-time.

- **Expenditure Adjustment 3 – \$70,000**

Dudek is an environmental consultant and assists the RCA with implementation of the MSHCP. The FY 2025/26 budget for services rendered by Dudek requires an increase of \$70,000 from \$430,000 to \$500,000 to complete anticipated services through fiscal year end.

Legal Services includes five months of billings and represents 27% of the budget. **Expenditure Adjustment 4** is proposed by staff to transfer budget authority of \$151,300 from the Habitat Acquisitions department (Capital Projects Fund) and \$58,700 from the Reserve

Management and Monitoring department (General Fund) toward the Program Administration department (General Fund) for anticipated legal services through fiscal year end. The proposed budget transfer of \$210,000 would not change the total FY 2025/26 legal services budget of \$750,000.

Assessment and Fees are predominantly paid on an annual basis and are not due until the later quarters. **Expenditure Adjustment 5** of \$20,000 is proposed by staff to account for unanticipated assessments incurred through the second quarter, increasing the budget for assessment and fees from \$90,000 to \$110,000.

Debt service represents RCA’s second of four annual payments associated with the \$24.1M notes payable issued for FY 2023/24 Toscana Marketplace acquisition.

Habitat acquisition and maintenance reflects 13% of budget relating to five properties which closed by the second quarter using RCA funds resulting in over 251 acres of ARL. Also included is the value of one donation (i.e. conservation easement), which is offset by contributions and donations revenue.

FISCAL IMPACT:

The proposed revenue adjustments and revised projections for LDMF, TUMF, and Other Fee Revenue are as follows.

<u>Revenues</u>	<u>FY2024/25 Actuals</u>	<u>FY2025/26 Budget</u>	<u>FY2025/26 Projection</u>	<u>FY2025/26 Adjustment</u>
LDMF	33,138,259	25,600,000	18,000,000	(7,600,000)
TUMF	1,122,759	1,100,000	700,000	(400,000)
Other Fee Revenue	1,532,049	1,075,000	1,407,900	332,900

Below is a summary of the proposed revenue adjustments (net decrease of \$7,667,100) and expenditure adjustments (net increase of \$187,600) by fund.

<u>Expenditures</u>	<u>Funds</u>			<u>Total</u>
	<u>General</u>	<u>Capital Projects</u>	<u>Endowments</u>	
Contracts	161,600	6,000	-	167,600
Legal Services	151,300	(151,300)	-	-
Assessments and Fees	20,000	-	-	20,000
	332,900	(145,300)	-	187,600
<u>Revenues</u>				
LDMF	-	(6,460,000)	(1,140,000)	(7,600,000)
TUMF	-	(400,000)	-	(400,000)
Other Fee Revenue	332,900	-	-	332,900
	332,900	(6,860,000)	(1,140,000)	(7,667,100)

Financial Information					
In Fiscal Year Budget:	No	Year:	FY 2025/26	Amount:	(\$7,667,100) – Revenue \$187,600 – Expenditures (\$7,854,700) – Fund Balance
Source of Funds:	General Fund, Capital Projects Fund, Endowments Fund		Budget Adjustment:	Yes	
GL/Project Accounting No.:	51630 935201 777170 Developer Mitigation \$6,460,000 Decrease 52000 935300 777170 Developer Mitigation \$1,140,000 Decrease 51630 935201 777600 TUMF Revenue Dev Fees \$400,000 Decrease 51630 935100 722002 Participating Spec Entity Fee \$332,900 Increase 51630 935100 525020 Legal Services \$210,000 Increase 51630 935100 527980 Contracts \$122,900 Increase 51630 935201 525020 Legal Services \$151,300 Decrease 51630 935201 527980 Contracts \$6,000 Increase 51630 935300 525020 Legal Services \$58,700 Decrease 51630 935300 527980 Contracts \$38,700 Increase 51630 935300 535220 Taxes and Assessments \$20,000 Increase 51630 935201 322300 Restricted for Capital Outlay Fund Balance \$6,714,700 Decrease 52000 935300 321101 Restricted Program Money Fund Balance \$1,140,000 Decrease				
Fiscal Procedures Approved:				Date:	3/30/2026

Attachments:

- 1) Quarterly Financial Statements – period ended December 31, 2025
- 2) Fiscal Year 2026 Budget Adjustments
- 3) MSHCP Fee Collection Reports

WESTERN RIVERSIDE COUNTY REGIONAL CONSERVATION AUTHORITY
QUARTERLY BUDGET TO ACTUAL
PRELIMINARY 2ND QUARTER
FOR THE YEAR ENDED JUNE 30, 2026

Amounts are subject to rounding

	FY 2025/26 BUDGET	SECOND QUARTER ACTUAL	REMAINING BALANCE	PERCENT UTILIZATION
Revenues				
Local Development Mitigation Fee	\$ 25,600,000	\$ 6,506,428	\$ (19,093,572)	25%
State and federal grants	6,788,000	-	(6,788,000)	0%
Tipping fees	3,600,000	843,531	(2,756,469)	23%
Transportation Uniform Mitigation Fee	1,100,000	224,716	(875,284)	20%
Other fee revenue	1,075,000	3,296,900	2,221,900	307%
Reimbursement for services	197,100	22,426	(174,674)	11%
Contributions & donations	10,856,500	500,000	(10,356,500)	5%
Other revenue	181,300	77,358	(103,942)	43%
Interest	2,750,600	1,135,132	(1,615,468)	41%
Total Revenues	52,148,500	12,606,492	(39,542,008)	24%
Expenditures				
Professional and support				
General administration	570,700	427,924	142,776	75%
Contracts	14,167,800	4,320,009	9,847,791	30%
Legal services	650,000	172,268	477,732	27%
Assessments and fees	90,000	8,501	81,499	9%
Total Professional and support	15,478,500	4,928,702	10,549,798	32%
Debt service				
Principal payment	5,956,500	5,956,498	2	100%
Interest payment	411,200	411,178	22	100%
Total debt service	6,367,700	6,367,676	24	200%
Capital acquisition				
Habitat acquisition and maintenance	52,758,500	7,083,746	45,674,754	13%
Total capital acquisition	52,758,500	7,083,746	45,674,754	13%
Total Expenditures	74,604,700	18,380,124	56,224,577	25%
Excess revenues over (under) expenditures	(22,456,200)	(5,773,632)	16,682,568	
Other financing sources (uses)				
Transfer in	1,503,200	-	1,503,200	0%
Transfer out	(1,503,200)	-	(1,503,200)	0%
Total other financing sources(uses)	-	-	-	0%
Net change in fund balance	(22,456,200)	(5,773,632)	16,682,568	100%
Fund balance July 1, 2025	104,982,798	111,894,977	6,912,179	107%
Fund balance December 31, 2025	\$ 82,526,598	\$ 106,121,345	\$ 23,594,747	129%

WESTERN RIVERSIDE COUNTY REGIONAL CONSERVATION AUTHORITY
QUARTERLY ACTUALS BY FUND
PRELIMINARY 2ND QUARTER
FOR THE YEAR ENDED JUNE 30, 2026
Amounts are subject to rounding

	Permanent Funds					Combined Total
	General Fund	Capital Projects Fund	RCA Endowment	RCA LDMF Endowment	Donor Endowments	
Revenues						
Local Development Mitigation Fee	\$ -	\$ 5,520,720	\$ -	\$ 985,708	\$ -	\$ 6,506,428
State and federal grants	-	-	-	-	-	-
Tipping fees	843,531	-	-	-	-	843,531
Transportation Uniform Mitigation Fee	-	224,716	-	-	-	224,716
Other fee revenue	3,055,400	1,460	240,040	-	-	3,296,900
Reimbursement for services	22,426	-	-	-	-	22,426
Contributions & donations	-	500,000	-	-	-	500,000
Other revenue	57,585	19,773	-	-	-	77,358
Interest	224,881	616,703	29,503	192,402	71,643	1,135,132
Total Revenues	4,203,823	6,883,372	269,543	1,178,110	71,643	12,606,492
Expenditures						
Professional and support						
General administration	37,936	389,989	-	-	-	427,924
Contracts	3,425,384	894,625	-	-	-	4,320,009
Legal services	104,146	68,121	-	-	-	172,268
Rental/lease building	-	1	-	-	-	1
Assessments and fees	8,501	-	-	-	-	8,501
Total Professional and support	3,575,967	1,352,735	-	-	-	4,928,702
Debt service						
Principal payment	-	5,956,498	-	-	-	5,956,498
Interest payment	-	411,178	-	-	-	411,178
Total debt service	-	6,367,676	-	-	-	6,367,676
Capital acquisition						
Habitat acquisition and maintenance	-	7,083,746	-	-	-	7,083,746
Other capital charges	-	-	-	-	-	-
Total capital acquisition	-	7,083,746	-	-	-	7,083,746
Total Expenditures	3,575,967	14,804,157	-	-	-	18,380,124
Excess revenues over (under) expenditures	627,857	(7,920,785)	269,543	1,178,110	71,643	(5,773,632)
Other financing sources (uses)						
Transfer In	-	-	-	-	-	-
Transfer Out	-	-	-	-	-	-
Total other financing sources (uses)	-	-	-	-	-	-
Net change in fund balance	627,857	(7,920,785)	269,543	1,178,110	71,643	(5,773,632)
Fund balance July 1, 2025	25,107,886	57,073,442	2,972,635	19,522,379	7,218,635	111,894,977
Fund balance December 31, 2025	\$ 25,735,743	\$ 49,152,657	\$ 3,242,178	\$ 20,700,489	\$ 7,290,278	\$ 106,121,345

DATE	April 6, 2026
TO	Auditor-Controller
FROM	Jennifer Fuller, Deputy Director of Finance
SUBJECT	FISCAL YEAR 2026 BUDGET ADJUSTMENT (FUND 51630 AND 52000)

Background:

On April 6, 2026, the RCA Board of Directors approved the Fiscal Year 2026 budget adjustment contained herein.

Requested Action:

That the Auditor-Controller make the following budget adjustments:

RCA Land Acquisitions (935201)		
<u>Decrease Estimated Revenue</u>		
51630-935201-777170	Developer Mitigation	\$6,460,000
51630-935201-777600	TUMF Revenue-Developer Fees	<u>\$400,000</u>
	Total Decrease in Estimated Revenue	<u>\$6,860,000</u>
 <u>Decrease Appropriations</u>		
51630-935201-525020	Legal Services	\$151,300
	Total Decrease in Appropriations	<u>\$151,300</u>
 <u>Increase Appropriations</u>		
51630-935201-527980	Contracts	\$6,000
	Total Increase in Appropriations	<u>\$6,000</u>
 <u>Decrease in Restricted for Capital Outlay Fund Balance</u>		
51630-935201-322300	Restricted for Capital Outlay	\$6,714,700
	Total Decrease in Restricted for Capital Outlay Fund Balance	<u>\$6,714,700</u>



RCA Donor Endowments (935300)

Decrease Estimated Revenue

52000-935300-777170	Developer Mitigation	\$1,140,000
	Total Decrease in Estimated Revenue	<u>\$1,140,000</u>

Decrease in Restricted Program Money Fund Balance

52000-935300-321101	Restricted Program Money	\$1,140,000
	Total Decrease in Restricted Program Money Fund Balance	<u>\$1,140,000</u>

RCA Reserve Management (935300)

Increase Appropriations

51630-935300-527980	Contracts	\$38,700
51630-935300-535220	Taxes and Assessments	<u>20,000</u>
	Total Increase in Appropriations	<u>\$58,700</u>

Decrease Appropriations

51630-935300-525020	Legal Services	\$58,700
	Total Decrease in Appropriations	<u>\$58,700</u>

RCA Operations (935100)

Increase Estimated Revenue

51630-935100-722002	Participating Special Entity Fees	\$332,900
	Total Increase in Estimated Revenue	<u>\$332,900</u>

Increase Appropriations

51630-935100-525020	Legal Services	\$210,000
51630-935100-527980	Contracts	<u>\$122,900</u>
	Total Increase in Appropriations	<u>\$332,900</u>

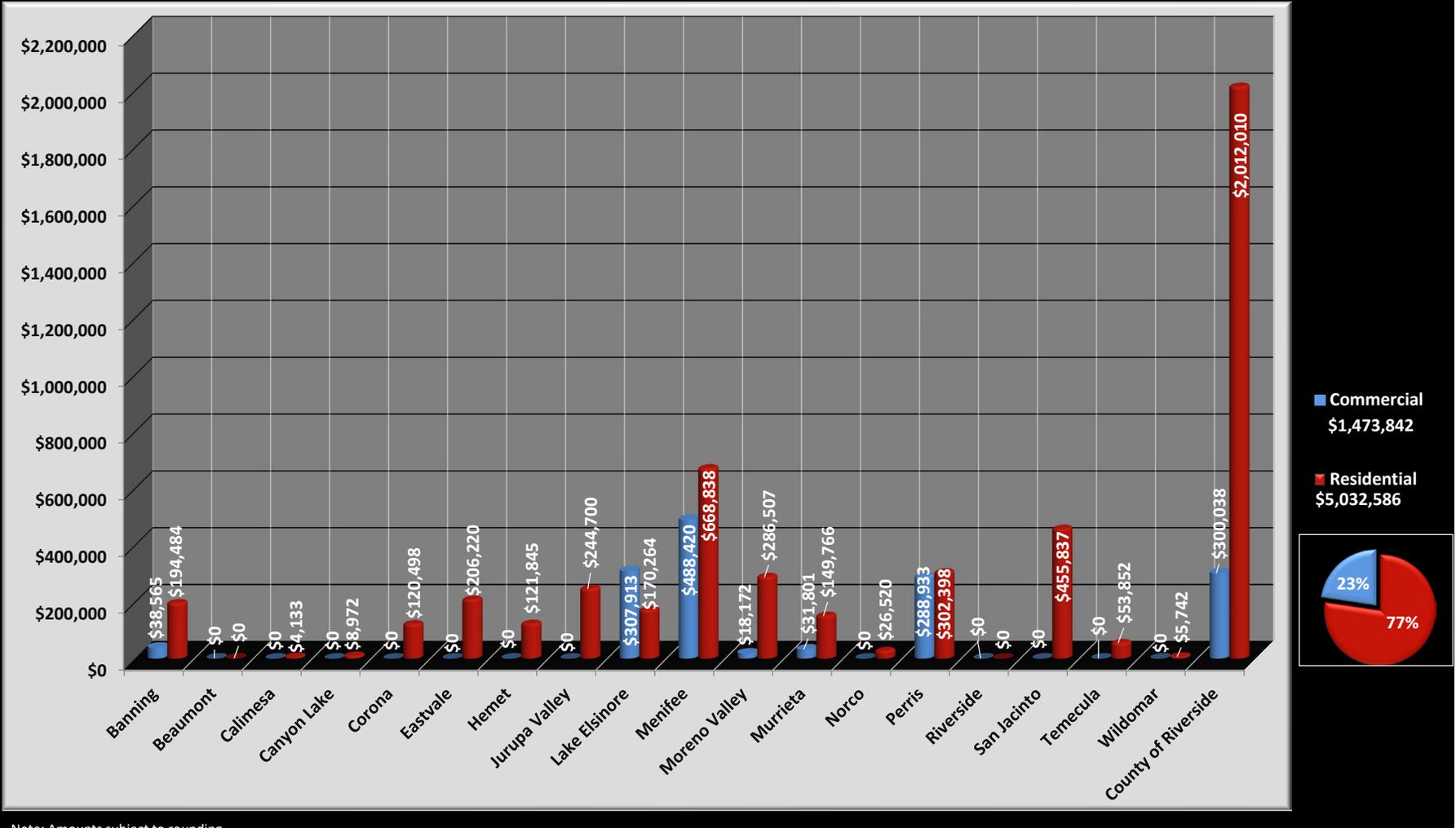
APPROVED BY: _____ **DATE:** _____
 Kevin Bash, Chair
 RCA Board of Directors

REGIONAL CONSERVATION AUTHORITY
NET MSHCP MITIGATION FEE COLLECTIONS BY MEMBER AGENCY
FISCAL YEAR 2026

BASED ON MONTHLY COLLECTION (Month reported by City)

COUNTY AND CITIES:	JULY 2025	AUGUST 2025	SEPTEMBER 2025	OCTOBER 2025	NOVEMBER 2025	DECEMBER 2025	FY 2026 YTD TOTALS	PERCENT OF TOTAL
CITY OF BANNING	\$ 1,586			\$ 162,847		\$ 68,615	233,049	3.58%
CITY OF BEAUMONT							-	0.00%
CITY OF CALIMESA			1,813			2,320	4,133	0.06%
CITY OF CANYON LAKE		8,972					8,972	0.14%
CITY OF CORONA			69,837	3,810	40,539	6,312	120,498	1.85%
CITY OF EASTVALE		21,384		31,372		153,463	206,220	3.17%
CITY OF HEMET		107,664	6,617		4,486	3,077	121,845	1.87%
CITY OF JURUPA VALLEY			100,362	116,031	28,307		244,700	3.76%
CITY OF LAKE ELSINORE		151,251	234,341	42,164	10,671	39,750	478,177	7.35%
CITY OF MENIFEE			18,112	641,079	(2,153)	500,220	1,157,259	17.79%
CITY OF MORENO VALLEY				176,212	128,467		304,679	4.68%
CITY OF MURRIETA					158,340	23,227	181,567	2.79%
CITY OF NORCO		1,959	8,507		12,209	3,845	26,520	0.41%
CITY OF PERRIS			103,178	266,339	67,290	154,525	591,332	9.09%
CITY OF RIVERSIDE							-	0.00%
CITY OF SAN JACINTO		44,860	152,524	31,402	161,496	65,555	455,837	7.01%
CITY OF TEMECULA		29,920		8,972		14,960	53,852	0.83%
CITY OF WILDOMAR			1,256		4,486		5,742	0.09%
COUNTY OF RIVERSIDE (LMS)	279,447	569,972	380,094	236,077	365,370	481,088	2,312,048	35.53%
TOTAL COUNTY AND CITIES	281,033	935,982	1,076,642	1,716,306	979,509	1,516,957	6,506,428	100.00%

**Fiscal Year 2026
MSHCP Development Mitigation Fee Revenues
July 1, 2025 through December 31, 2025**



Notes: Amounts subject to rounding.

AGENDA ITEM 8

WESTERN RIVERSIDE COUNTY REGIONAL CONSERVATION AUTHORITY	
DATE:	April 6, 2026
TO:	Western Riverside County Regional Conservation Authority
FROM:	Aaron Gabbe, Regional Conservation Director
THROUGH:	Aaron Hake, Executive Director
SUBJECT:	Western Riverside County Multiple Species Habitat Conservation Plan 2024 Annual Report

STAFF RECOMMENDATION:

This item is for the Board of Directors to receive and file the Western Riverside County Multiple Species Habitat Conservation Plan 2024 Annual Report.

BACKGROUND INFORMATION:

RCA prepares an annual report as part of the requirements of the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP or the Plan). The annual report provides a formal opportunity to assess the progress of the Plan and to address potential problems. This annual report, once received and filed by the Board, will be available to all MSHCP Permittees, Wildlife Agencies, and interested public on the RCA website (<https://www.wrc-rca.org/document-library/annual-reports/>).

The MSHCP Plan Area is approximately 1.26 million acres. Within the Plan area, the MSHCP calls for a 500,000-acre reserve system to protect the 146 species covered by the Plan, of which 35 species are listed as endangered or threatened, or candidates for listing, under the federal and/or state Endangered Species Acts. When the MSHCP was permitted in 2004, 347,000 acres were classified as Public/Quasi-Public (PQP) lands in the MSHCP reserve system. These lands are owned and managed by public entities including Riverside County Parks and Open Space, Bureau of Land Management, State Parks, California Department of Fish and Wildlife, Metropolitan Water District (e.g., Lake Mathews Multiple Species Habitat Conservation Plan, Multi-Species Reserve), and United States Forest Service. The additional 153,000 acres needed to complete the 500,000-acre reserve are in the process of being acquired through a combination of local, state, and federal mechanisms. The RCA and other local Permittees of the MSHCP are responsible for acquiring 97,000 acres via the Habitat Acquisition Negotiation Strategy (HANS) and willing seller transactions, both funded by the Local Development Mitigation Fee (LDMF) imposed by RCA Member Agencies. Federal and state governments are responsible for acquiring a combined 56,000 acres.

A primary purpose of the MSHCP and associated permits is to streamline the environmental permitting and review process for public infrastructure and private development (e.g., commercial, industrial, and residential). Project consistency with the MSHCP provides

“incidental take” under the Endangered Species Acts (state and federal) and biological resources mitigation under the California Environmental Quality Act (CEQA).

A foundational element of the MSHCP is to maintain a balance between habitat losses (project development) and habitat gains (lands incorporated into the MSHCP reserve) within nine identified regions (Rough Step Units) of the Plan Area. This balance is measured with the Rough Step Analysis, whereby Permittees submit their annual losses (project approvals) to the RCA and the RCA calculates Rough Step balance, using an equation provided by the MSHCP, to determine the rate of losses to gains in habitat. When a vegetation community tracked by Rough Step is out of balance, the Permittees must conserve lands supporting this vegetation to get back into Rough Step balance prior to authorizing additional loss of the vegetation type within cells of that Rough Step unit.

Producing the annual report takes approximately one year following the end of each calendar year. RCA staff collects land use permit data from all Permittees and property acquisition information from the RCTC Right of Way department. Staff calculate habitat gains and losses and RCA financials associated with implementation of the MSHCP. Further, staff collect data from the management and monitoring programs to assess the condition of the MSHCP reserve and the 146 covered species.

Below is a summary of the results presented in the 2024 Annual Report.

- In 2024, a total of 2,409 acres were acquired for the MSHCP reserve through the local process (e.g., donation, willing sellers, development) and state and federal grant funding. The total of Additional Reserve Lands (ARL) acquired for conservation under the Plan through 2024 is 70,502 acres. An additional 82,498 acres are needed to complete the 500,000-acre reserve.
- Through 2024, local, state, and federal government agencies have spent approximately \$692,298,992 on land acquisition, including \$46,952,000 in 2024. Through 2024, local agencies, primarily from Local Development Mitigation Fees, contributed approximately \$485,192,286, including \$18,288,055 in 2024; and, state and federal agencies, primarily through grants awarded to the RCA, contributed approximately \$207,106,706, including \$28,663,945 in 2024.
- The RCA processed Joint Project Reviews (JPR) for land use projects being processed by Permittees within the Criteria Area in 2024. JPRs are part of the HANS process. The RCA received 23 new JPRs and completed 27 JPRs in 2024, resulting in an additional 309 acres of future Proposed MSHCP Conservation Lands.
- The RCA updated its GIS database in 2024, identifying 13,000 acres that have been designated as dedications for future ARL (MSHCP reserve lands) through the HANS/JPR process since the inception of the MSHCP in 2004. These lands have not been incorporated into the MSHCP reserve primarily because the development projects have not progressed to the stage where the land must be transferred into the MSHCP reserve.
- Rough Step Unit 8 remains out of balance. Rough Step Unit 8 is out of balance by 105 acres for Grasslands and by 18 acres for Riversidean Alluvial Fan Sage Scrub.

RCA notified affected Permittees of the implications these imbalances have on development until Rough Step is back in balance. Following the Board of Directors filing of the annual report, updated information will be provided to affected Permittees.

- The RCA, through a contract with the Riverside County Regional Park and Open-Space District (Parks), is managing over 51,899 acres of conservation lands, an increase of 4,899 acres from 2023. Trespassing, illegal dumping (an estimated 33 tons removed in 2024, an increase of 9 tons from 2023), and homeless encampments (37 encampments removed in 2024, an increase of 25 from 2023) continue to be issues within the reserve system. An increase in habitat damage caused by unauthorized recreation (e.g., mountain bike use) continued.
- In summer 2024, the Alamos Fire burned 12 acres of RCA-owned reserve lands. Parks salvaged remaining Cholla cacti after the fire and re-established these plants in the burn scar caused by the 2023 Highland Fire in the Aguanga area to provide habitat for Cactus Wren. Efforts continued to enhance disturbed habitats at other RCA reserve lands, including ongoing restoration projects and research experiments (e.g., alkali playa invasive stinknet plant experiment and eradication) that directly benefit the MSHCP's Covered Species.
- The RCA, through a contract with the Santa Ana Watershed Association (SAWA), implements the Biological Monitoring Program. SAWA recorded 102 of the 146 covered species in 2024. Since inception of the Plan, 142 of the 146 covered species have been detected in the MSHCP reserve.

RCA staff are currently preparing the 2025 annual report, with completion anticipated by the end of the calendar year.

FISCAL IMPACT:

This is an information item. There is no fiscal impact.

Attachment: 2024 Annual Report

Western Riverside County

Regional Conservation Authority

MULTIPLE SPECIES HABITAT CONSERVATION PLAN

Annual Report 2024



Cover Picture

RCA's B Canyon 2 property, acquired in February of 2024, is located just South of State Route 91, at the border of Orange and Riverside County.

**Western Riverside County
MULTIPLE SPECIES HABITAT
CONSERVATION PLAN**

ANNUAL REPORT

For the Period

January 1, 2024 through December 31, 2024



Submitted by the

Western Riverside County Regional Conservation Authority

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APN – Assessor’s Parcel Number

ARL – Additional Reserve Lands; 153,000 acres needed to complete the MSHCP reserve

BLM – Bureau of Land Management

Board – Board of Directors for the Western Riverside County Regional Conservation Authority

CDFW – California Department of Fish and Wildlife

CEQA – California Environmental Quality Act

COI – Certificates of Inclusion

CNLM – Center for Natural Lands Management

County – County of Riverside

Criteria Area – Areas within western Riverside County in which land can be acquired for the MSHCP. The Criteria Area is divided into **Criteria Cells**, which are units within the Criteria Area that are generally 160 acres in size.

CWA – Clean Water Act

Development HANS – Habitat Evaluation and Acquisition Negotiation Strategy for properties for which a development application is intended to be filed

ERP - Expedited Review Process

ESA - Endangered Species Act

GIS – Geographic Information System

HANS – Habitat Evaluation and Acquisition Negotiation Strategy

HMU – Habitat Management Units

IA – Implementing Agreement for the Western Riverside County Multiple Species Habitat Conservation Plan/Natural Community Conservation Plan

IERCD – Inland Empire Resource Conservation District

JPA – Joint Powers Agreement/Authority

JPR – Joint Project Review

LDMF – Local Development Mitigation Fee

LTMP – Long Term Management Plan

MADS – Management Activity Data Sheets



Member Agency – 18 cities in western Riverside County and Riverside County that a part of the JPA

MOU – Memorandum of Understanding

MSHCP/Plan – Multiple Species Habitat Conservation Plan

Non-Development HANS – Habitat Evaluation and Acquisition Negotiation Strategy for properties for which a development application is not intended to be filed

OHV – Off-highway vehicles

Parks/Parks District – Riverside County Regional Park and Open-Space District

PQP – Public/Quasi-Public

PSE – Participating Special Entities

RCA – Western Riverside County Regional Conservation Authority

RCHCA – Riverside County Habitat Conservation Agency

RCRCD – Riverside Corona Resource Conservation District

RCTC – Riverside County Transportation Commission, the managing agency for RCA

RCTD – Riverside County Transportation Department

REMAP - Riverside Extended Mountain Area Plan

RLC – Rivers & Lands Conservancy

RMOC – the Reserve Management Oversight Committee

Rough Step – Methodology used by the MSHCP to ensure that conservation occurs roughly in step with development

SAWA – Santa Ana Watershed Association

State – State of California

TEAM RCD – Temecula-Elsinore-Anza-Murrieta Resource Conservation District

TUMF – Transportation Uniform Mitigation Fee

USFWS – United States Fish and Wildlife Service

WRCOG – Western Riverside Council of Governments



EXECUTIVE SUMMARY

The Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP or Plan) is a comprehensive, multi-jurisdictional plan that conserves vulnerable plant and animal species and their habitats in western Riverside County. The Plan was approved in 2003, and the permits were issued on June 22, 2004, by the U.S. Fish and Wildlife Service (USFWS) and California Department of Fish and Wildlife (CDFW).

The MSHCP Planning Area encompasses approximately 1.26 million acres in western Riverside County. The Plan calls for the conservation and management of approximately 500,000 acres within the Plan Area. Of the 500,000 acres, approximately 347,000 acres of land within Public/Quasi-Public (PQP) ownership came into the Reserve at inception of the MSHCP in 2004. Achievement of the 500,000-acre goal depends on conservation of 153,000 acres of Additional Reserve Lands (ARL) within the Plan Area that would occur through local, state, and federally funded acquisitions.

The Western Riverside County Regional Conservation Authority (RCA) was formed in January 2004 and assumed administration and implementation responsibility for the MSHCP in March 2004. The MSHCP requires that the RCA prepare and submit a report of its annual activities. This report provides a summary of activities for the reporting period of January 1, 2024, through December 31, 2024. This is the 20th annual report that covers a full calendar year of Plan implementation.

The 2024 Annual Report provides a means to evaluate the effectiveness of MSHCP implementation and the success of the RCA during the year.

Reporting Requirements

In addition to reporting the amount of habitat conserved and impacted during the reporting period, this report includes other information that measures MSHCP progress. At a minimum, the MSHCP specifies that the Annual Report include:

- Documentation of revenue generated from mitigation fees.
- Status of Reserve Assembly progress as measured by the Rough Step formulas presented in *Section 6.7* of the MSHCP (Volume 1) and in accordance with Species-Specific Objective 1B of the Delhi sands flower-loving fly.
- Acres authorized for disturbance within the Plan Area during the reporting period.



- Single-family and mobile home development applications within the Criteria Area for the year, and cumulatively since inception of the Plan, processed by the County and cities under the Expedited Review Process (ERP) in *Section 6.1.1* of the MSHCP (Volume 1).
- New or expanded agricultural operations within the Criteria Area for the preceding year, and cumulatively since inception of the Plan, occurring under the processes identified in *Section 6.2* of the MSHCP (Volume 1).
- Minor administrative/clerical amendments approved during the reporting period in accordance with the procedures described in *Section 6.10.2* of the MSHCP (Volume 1).
- Ongoing management and monitoring activities highlighting issues of concern and proposed remedies/actions.

Funding Summary

Table ES-1 RCA Revenue and Expenditures

	Cumulative (2004-2023)	2024	Total (2004-2024)
Revenue	\$596,561,954	\$41,776,852	\$638,338,806
Expenditures*	\$780,980,525	\$68,484,246	\$849,464,771

*Includes costs incurred before Plan inception and state and federal cost of acquisition which are not RCA direct costs.

Table ES-2 Land Acquisition Funding Expended*

	Cumulative (2004-2023)	2024	Total (2004-2024)
Local Permittees+	\$466,904,231	\$18,288,055	\$485,192,286
State	\$109,594,699	\$25,107,389	\$134,702,088
Federal	\$68,848,062	\$3,556,556	\$72,404,618

*Includes costs incurred before Plan inception and state and federal cost of acquisition which are not RCA direct costs.

+Only includes land acquisition costs. Other costs related to the acquisition including appraisals are not included.

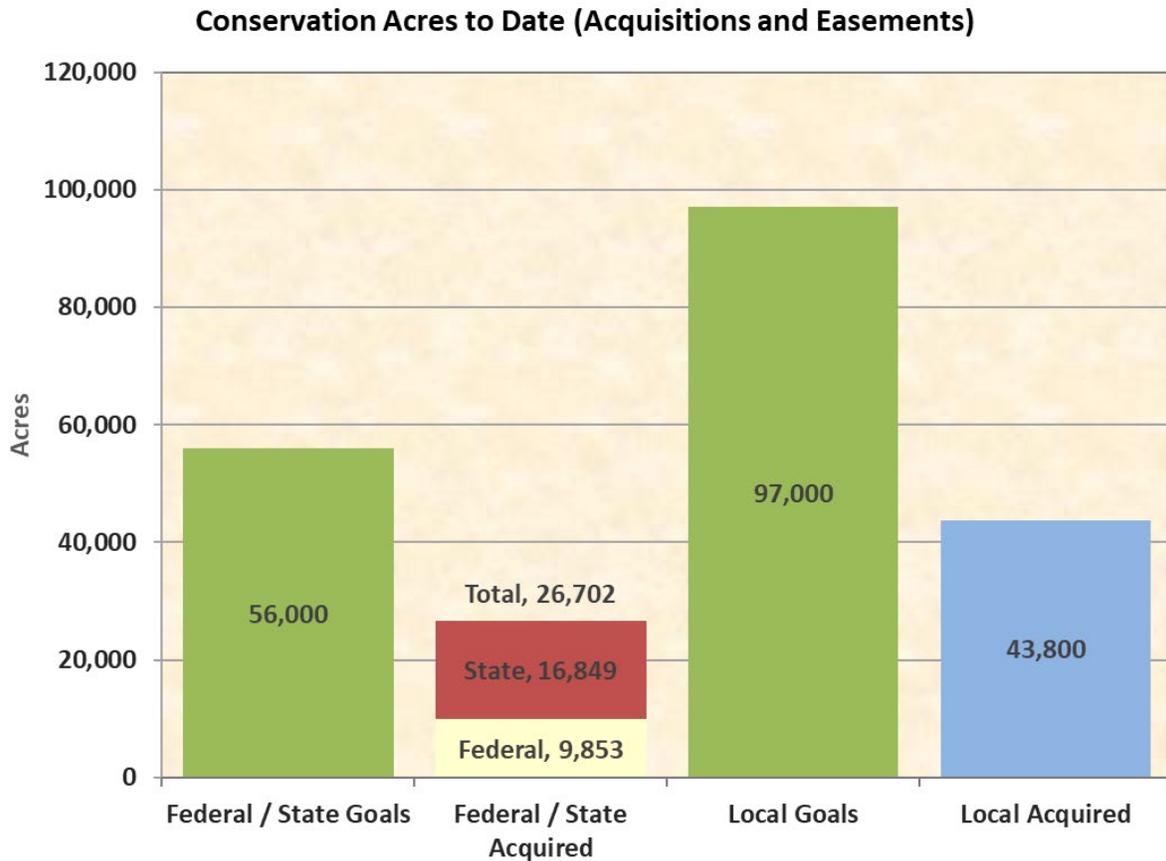
Table ES-1 revenues include development fees, landfill revenue, and infrastructure mitigation fees. Expenditures include costs for land acquisition, land management, species monitoring, and program administration. Expenditures reported in Table ES-1 far exceed revenue for two reasons. First, while expenditures for state and federal properties are included in the total expenditures, the revenues only represent local funding sources. As such, the state and federal grants, which offset the state and federal expenditures, are not included in revenues. Second, RCA acquired one property in 2024 using a combination of cash and notes payable. The full cost of this property is included in expenditures even though a portion will be paid for over the next four years, exacerbating the difference between revenues and expenditures. Table ES-2 shows the land



acquisition expenditures by local permittees, the state, and the federal government. For details, please see Section 6 of this report.

Reserve Assembly Summary

Figure ES-1 Conservation Acres to Date



In 2024, a total of 2,409 acres of ARL was purchased, received through donation, or obtained through the local development process. Cumulatively, as of December 31, 2024, a total of 70,502 acres of ARL have been conserved for purposes of habitat and species conservation.

In 2024, 321 acres of habitat were lost to development within the Criteria Area. This amounts to 14% of all reported MSHCP permittee land development within Western Riverside County. Most of the development losses (2,040 or 86%) happened outside the Criteria Area.

Rough Step Summary

Rough Step is a MSHCP performance measure used to monitor the pace of conservation of key vegetation communities against the pace of losses of key vegetation communities within discrete geographic units of the Criteria Area. The purpose of Rough Step is to help prioritize conservation of vegetation communities to ensure that they are protected in a timely manner in proportion to the permitted losses within the Criteria Area. The Rough Step analysis identifies where development is outpacing conservation and where conservation efforts therefore need to be focused. All Rough Step analyses are based on the 1994 baseline vegetation mapping used to develop the MSHCP and take allowances for species.

Table ES-3 Rough Step Summary

	Rough Step Status	Out of Rough Step Vegetation Categories	Acres Out of Rough Step
Rough Step Unit 1	In Rough Step	-	-
Rough Step Unit 2	In Rough Step	-	-
Rough Step Unit 3	In Rough Step	-	-
Rough Step Unit 4	In Rough Step	-	-
Rough Step Unit 5	In Rough Step	-	-
Rough Step Unit 6	In Rough Step	-	-
Rough Step Unit 7	In Rough Step	-	-
Rough Step Unit 8	Out of Rough Step	Grasslands	-105
	Out of Rough Step	Riversidean Alluvial Fan Sage Scrub	-18

Reserve Management

In 2024, the RCA continued its security, protection, and enhancement of existing and new RCA lands brought into the MSHCP Reserve. At the end of 2024, the RCA was managing 51,899 acres of conservation lands. The RCA contracts the Riverside County Regional Park and Open-Space District (Parks District) to manage the RCA properties. Activities during the reporting period focused on access controls in high trespass areas, enforcement of policies prohibiting unauthorized activities such as off-road vehicle uses and illegal refuse dumping, removal of non-native invasive species, restoration of natural habitat, property assessments of potential future conservation lands, and fire abatement in compliance with County Ordinance 695 or other ordinances and policies of other jurisdictions as applicable to the location of the land.

Biological Monitoring Program

The overall goals of the Biological Monitoring Program (Monitoring Program) are to collect data on the 146 Covered Species and associated vegetation communities across the Conservation Area to assess the MSHCP’s effectiveness at meeting conservation objectives and to provide useful information to Reserve Managers in an adaptive management context. The MSHCP (Volume 2, Species Accounts) includes species-specific objectives that are intended to provide for the long-term conservation of all Covered Species. Species objectives direct the type and intensity of monitoring that is conducted by the Monitoring Program on an annual basis. Management decisions or actions are triggered if species objectives or MSHCP conservation goals are not met. The RCA contracts the Santa Ana Watershed Association to monitor the Conservation Area.

In 2024, the Monitoring Program recorded, either through focused surveys or incidental detections, 102 of 146 Covered Species. Since June 2004, a total of 142 of 146 Covered Species have been detected in the Conservation Area.

1. INTRODUCTION

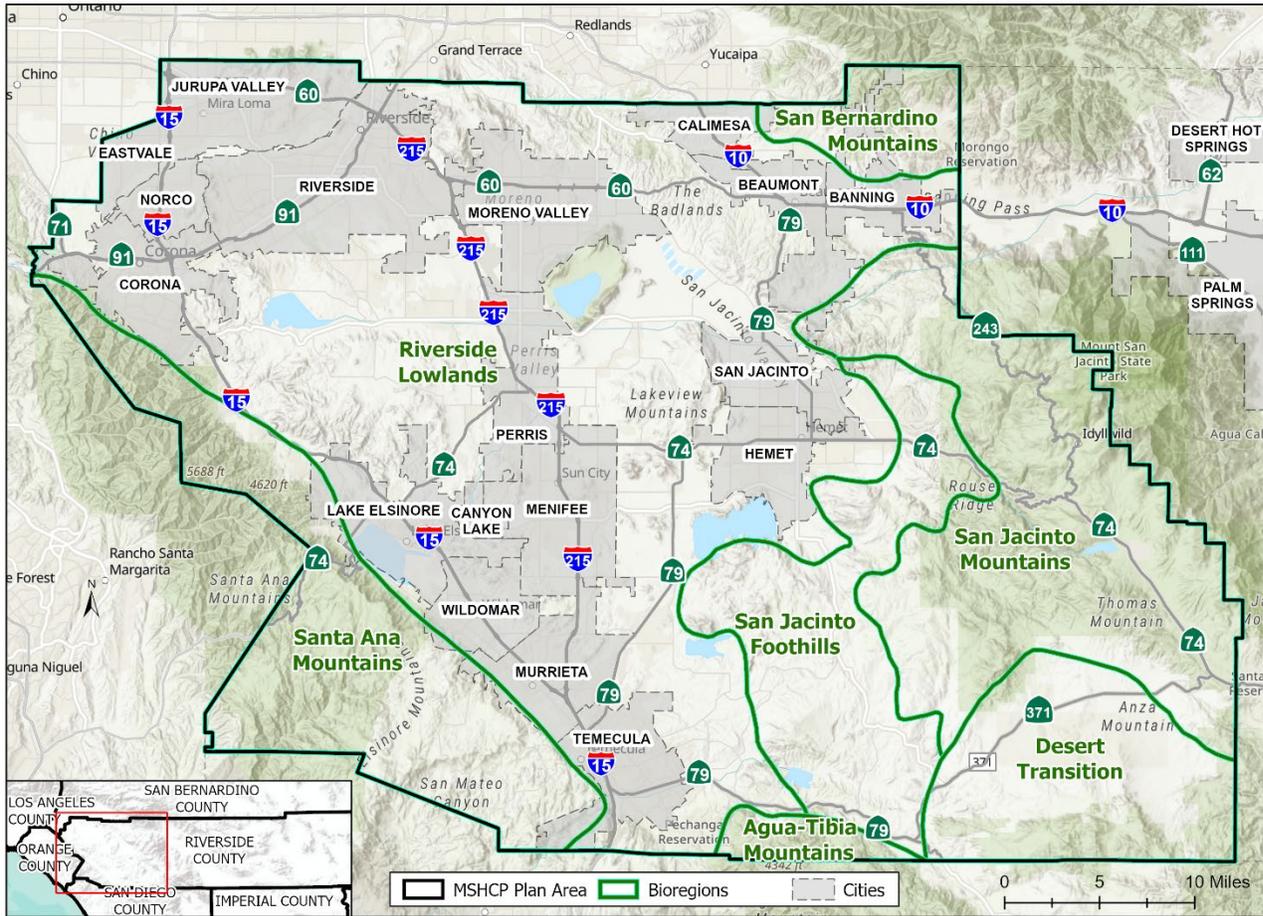
1.1. Overview of the Plan

The Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP, the Plan) is a comprehensive, multi-jurisdictional conservation plan that protects threatened, endangered, and sensitive species and their habitats. Concurrently, the MSHCP streamlines the environmental permitting process for needed infrastructure like transportation and housing projects, resulting in improved efficiency and certainty, cost savings, and support for the local economy. Transportation infrastructure, for example, has been an important beneficiary of the MSHCP, which has expedited the processing of freeway and road projects by as many as five years. The Plan provides for mitigation under the federal and state Endangered Species Acts (ESA) as well as the California Environmental Quality Act (CEQA). From Burrowing Owl (*Athene cunicularia*) to the Western Pond Turtle (*Clemmys marmorata pallida*), the MSHCP protects 146 animal and plant species including 35 that are threatened or endangered, or candidate for listing as endangered or threatened, making it one of the largest habitat conservation plans in the United States. When the MSHCP reserve is completed, it will include 38 specially designated habitat linkages that will allow animals to safely move from one preserve to another, providing a critical lifeline between large blocks of core habitat.

The Plan was developed in partnership with the California Department of Fish and Wildlife (CDFW); the United States Fish and Wildlife Service (USFWS); multiple local jurisdictions; various other local, state, and federal agencies; and public interest groups/stakeholders. The Plan was approved, and permits were issued, on June 22, 2004, by the USFWS and CDFW. The MSHCP Plan Area encompasses approximately 1.3 million acres (approximately 1,967 square miles) in western Riverside County. The Plan Area includes all unincorporated County of Riverside within this geographic area, and the incorporated cities of Banning, Beaumont, Calimesa, Canyon Lake, Corona, Eastvale, Hemet, Jurupa Valley, Lake Elsinore, Menifee, Moreno Valley, Murrieta, Norco, Perris, Riverside, San Jacinto, Temecula, and Wildomar (Figure 1-1).

The Plan Area includes diverse landscapes from urban cities to undeveloped foothills and montane forests. Bioregions within the Plan Area include portions of the Santa Ana Mountains, Riverside Lowlands, San Jacinto Foothills, San Jacinto Mountains, Agua Tibia Mountains, Desert Transition, and San Bernardino Mountains (Figure 1-1).

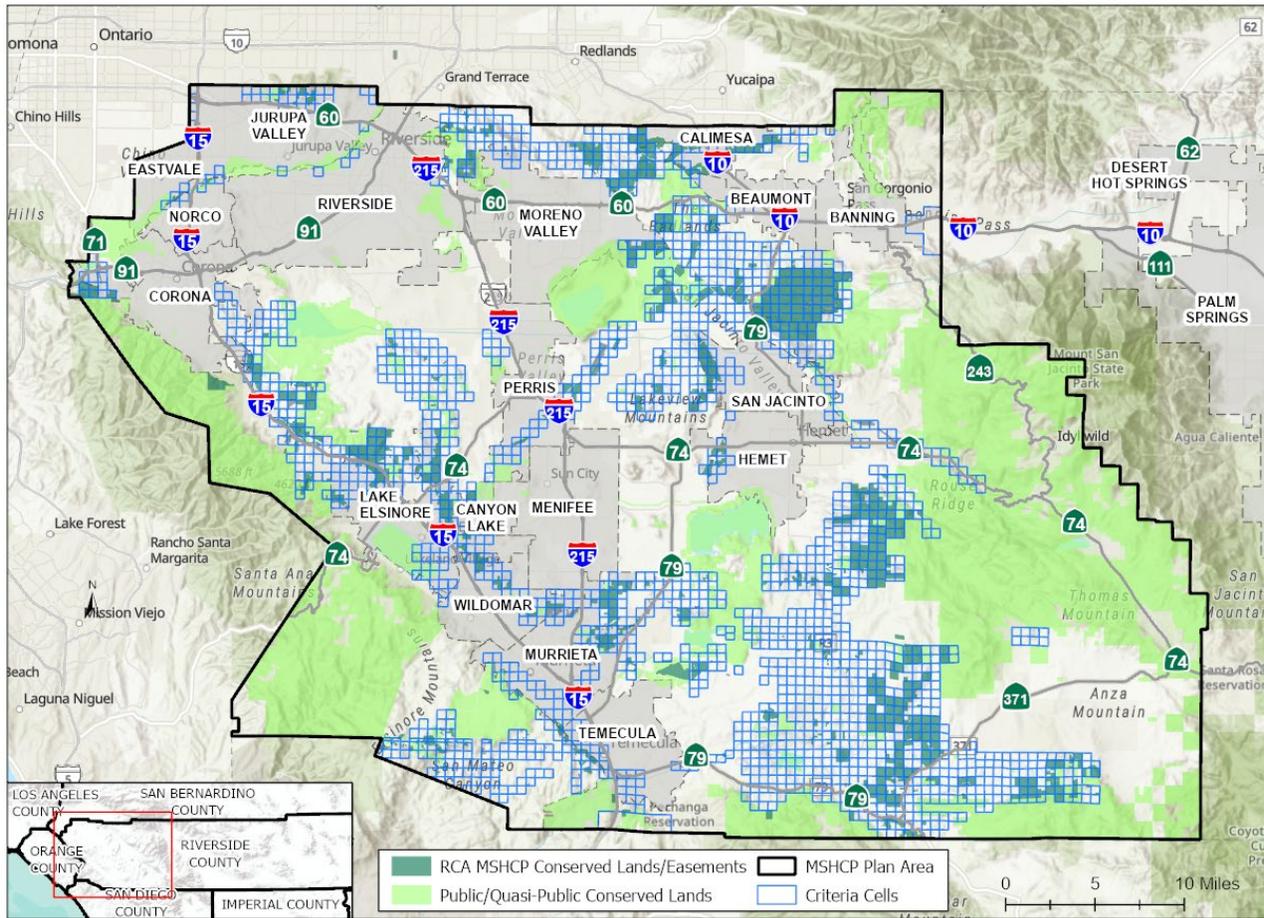
Figure 1-1. MSHCP Plan Area and Bioregions



Logan Linda University, County of Riverside, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, Esri, CGIAR, USGS, Sources: Esri, USGS, NOAA

The MSHCP calls for the conservation and management of approximately 500,000 acres of the 1.3-million-acre Plan Area. Of the 500,000 acres, 347,000 acres were in Public/Quasi-Public (PQP) ownership at the time the Plan was adopted (Figure 1-2). The 347,000 acres include national forests, state parks, county parks, nature reserves, and state wildlife areas. The remaining 153,000 acres of Additional Reserve Lands (ARL) are being acquired by the RCA and the Local Permittees (97,000 acres) (County of Riverside, 18 cities, Riverside County Flood Control and Water District, Riverside County Regional Parks and Open Space District, Riverside County Department of Waste Resources, Riverside County Transportation Commission [RCTC], and the Western Riverside County Regional Conservation Authority [RCA]), California Department of Transportation (3,000 acres), California Department of Parks and Recreation (3,000 acres), and CDFW and USFWS (50,000 acres combined). The acquisition of the 153,000 acres of ARL has been ongoing since 2000 (prior to Plan approval).

Figure 1-2. MSHCP Public/Quasi-Public Conserved Lands and Additional Reserve Lands



Esri, CGIAR, USGS, Sources: Esri, USGS, NOAA, County of Riverside, California State Parks, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, Bureau of Land Management, EPA, NPS,

The RCA administers the MSHCP along with the other Permittees (e.g., County of Riverside, 18 cities). The RCA is a Joint Powers Authority (JPA) responsible for acquiring ARL, monitoring the 500,000-acre Reserve, managing the RCA-owned ARL, overseeing Plan compliance, and assisting Permittees with MSHCP implementation.

1.2. Reporting Requirements

The MSHCP requires the RCA prepare and submit a report of its annual activities. **This report provides a summary of MSHCP implementation activities for the 20th full year of RCA operation: January 1, 2024 through December 31, 2024.**

Per the MSHCP, the annual report must include a description of:

- Reserve assembly activities and compliance with Rough Step as calculated using the formula presented in *Section 6.7* of the MSHCP (Volume 1) and as revised in Minor Amendment 2007-01. Rough Step is a tool to help direct conservation as development occurs. It is a tracking tool to ensure that development does not proceed at a pace that would preclude achieving the conservation goals for specific key vegetation communities within the Plan Area. Refer to Section 4.0 for more information.
- The number of acres authorized for disturbance and the number of acres conserved within the Criteria Area. This allows the RCA and Permittees to determine the rate of development and conservation occurring in the geographic areas described for conservation. Refer to Sections 2.0 and 3.0 for more information.
- New single-family and mobile home activity on existing parcels of land within the Criteria Area for the reporting year and cumulatively occurring under the Expedited Review Process (ERP) for these activities presented in *Section 6.1.1* of the MSHCP (Volume 1). Applications for a single-family home grading permit or for a mobile home site preparation permit on existing parcels of land within the Criteria Area are compared with the MSHCP conservation criteria to determine the least-sensitive location for the building pad and necessary access roadways. This review process is referred to as the ERP and, with approval under this process, applicable properties are referred to as “ERPs.” The MSHCP included ERP activity assumptions (i.e., number of permits and acres disturbed) (*Section 7.3.2* of the MSHCP, Volume 1). The annual reporting process is used to determine whether ERP activity is occurring in a manner that is consistent with the assumptions made during MSHCP development. Furthermore, an analysis of ERP activity allows the RCA to determine if Reserve Assembly within the Criteria Area is being adversely impacted by ERPs. Refer to Section 4.1 for more information.
- New or expanded commercial agricultural operations within the Criteria Area for the reporting year and cumulatively occurring under the processes identified in *Section 6.2* of the MSHCP (Volume 1). Existing agricultural uses and conversion of natural lands to agricultural use are allowed as Covered Activities within the Criteria Area in *Section 7.3.3* of the MSHCP (Volume 1). New conversions to agricultural use within the Criteria Area are covered up to an established threshold of 10,000 acres over the life of the Plan. The annual reporting process is used to periodically measure new commercial agricultural activities against the 10,000-acre threshold, and to analyze potential impacts to Reserve Assembly associated with these new agricultural activities. Refer to Section 3.0 for more information.

- Minor Administrative/Clerical Amendments approved in accordance with the procedures described in *Section 6.10.2* of the MSHCP (Volume 1). The annual report provides a method to officially document such amendments. Refer to Section 5.0 for more information.
- Ongoing management and monitoring activities highlighting issues of concern and proposed remedies/actions. Refer to Sections 7.0 and 8.0 for more information.

1.3. Methods

RCA staff work with each member agency (the 18 cities and County of Riverside) to build a Geographic Information System (GIS) database of relevant conservation and development activity, which is used to calculate performance measures. For annual reporting purposes, conservation is counted as a gain when acquired through transfer of title, recordation of conservation easement, or conservation through a Memorandum of Understanding (MOU) with an entity that will manage their property pursuant to the terms of the MSHCP. This annual report presents the year 2024 and cumulative gains in conservation between February 2000 and December 31, 2024.

Development losses are counted at the time of grading permit issuance. This annual report presents year 2024 and cumulative losses between June 22, 2004, and December 31, 2024. As stated above, losses are usually counted relatively early in the development process (at time of grading permit issuance), and gains may be counted at the end of the development process (generally at time of fee title transfer or conservation easement recordation at the County Recorder's Office; time of occupancy). Because of this, the amount of habitat losses may appear greater as they are reported before the habitat gains can be reported to offset those losses.

2.0 HABITAT GAINS

Habitat gains are permanently conserved lands pursuant to the Plan and specifically count toward the protection of 153,000 acres of ARL being assembled from a variety of sources including:

- Private land acquisitions through the Habitat Acquisition Negotiation Strategy (HANS) process;
- Acquisitions from willing sellers;
- Donations of fee title or conservation easements; and
- Entities with conservation lands managed pursuant to the MSHCP with a MOU between the entity and the RCA.

The 500,000-acre MSHCP reserve will be completed once 153,000 acres of ARL are protected, in addition to the 347,000 acres of PQP that became part of the MSHCP reserve at inception of the Plan. ARL is managed specifically for species and habitats while PQP lands can have multiple management foci, such as passive recreation and conservation. The MSHCP allows passive recreation on trails, but with the focus on species and habitat management in perpetuity.

Cumulative habitat gains (or conservation) are reported from the period February 2000 through December 31, 2024. February 2000 is used as the start of the gain reporting period because in anticipation of MSHCP permit issuance, the County, CDFW, California Department of Parks and Recreation, and the USFWS began an early, aggressive campaign to assemble ARL prior to Plan permit issuance.

Conservation occurs within the Criteria Area, comprised of Criteria Cells. The MSHCP provides conservation criteria to guide the reserve assembly process to ensure the ultimate reserve achieves the 146 species objectives required by the MSHCP. Each Criteria Cell is approximately 160 acres in size (one quarter section; a tract of land that is half a mile square and contains 160 acres in the U.S. government system of land surveying).

In 2012, the RCA in consultation with the Wildlife Agencies (CDFW, USFWS), developed a policy for determining when lands outside of Criteria Cells can count as ARL. The policy allows conserved lands outside Criteria Cells to be counted as ARL under certain circumstances with Wildlife Agency concurrence. In general, the lands must be biologically valuable and occur directly adjacent to existing ARL or PQP. This policy created a pathway for valuable habitat outside of the Criteria Area to contribute toward achieving MSHCP habitat protection goals.

2.1. Conservation Summary

In 2024, a total of 2,409 acres of ARL were acquired, donated, or obtained through the local development process and state and federal grant funding. Cumulatively, as of December 31, 2024, a total of 70,502 acres of ARL have been conserved for purposes of habitat and species conservation. *Table 2-1, MSHCP Conservation Summary by Year*, provides a snapshot of the annual conservation activity completed through December 31, 2024.

Table 2-1
MSHCP Conservation Summary by Year

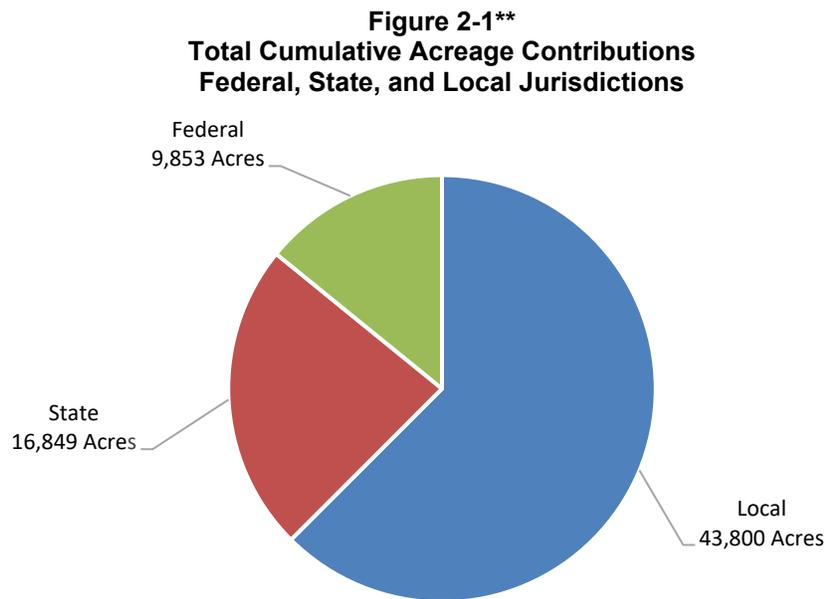
Time Period	ARL Acres Reported in Annual Reports	Reconciled ARL Acres Conserved by Year
February 2000 – June 22, 2004	17,901*	16,939
June 22, 2004 – December 31, 2004	1,370*	1,308
January 1, 2005 – December 31, 2005	4,112*	4,025
January 1, 2006 – December 31, 2006	9,873*	9,854
January 1, 2007 – December 31, 2007	3,687*	3,683
January 1, 2008 – December 31, 2008	4,077*	4,083
January 1, 2009 - December 31, 2009	1,712*	1,712
January 1, 2010 – December 31, 2010	1,431*	1,431
January 1, 2011 – December 31, 2011	1,664*	1,664
January 1, 2012 – December 31, 2012	1,075	1,073
January 1, 2013 – December 31, 2013	1,085	1,085
January 1, 2014 – December 31, 2014	1,842*	1,836
January 1, 2015 – December 31, 2015	1,186	1,186
January 1, 2016 – December 31, 2016	4,799	4,797
January 1, 2017 – December 31, 2017	3,586	3,591
January 1, 2018 – December 31, 2018	2,066	2,065
January 1, 2019 – December 31, 2019	1,481	1,481
January 1, 2020 – December 31, 2020	981	981
January 1, 2021 – December 31, 2021	1,325	1,320
January 1, 2022 – December 31, 2022	2,470	2,470
January 1, 2023 – December 31, 2023	1,508	1,508
January 1, 2024 – December 31, 2024	2,409	2,409
Adjusted Total**	71,640	70,502

* The acres reported as conserved have been refined, which resulted in minor changes from the reported totals in previous annual reports. The changes are mainly due to accounting for some lands that were acquired outside of Criteria Cells and corrections to acreage totals for selected acquisitions.

** Totals may not add up due to rounding.



As the MSHCP was being developed, it was understood that many of the MSHCP covered species and associated sensitive habitats occurred on federal and state lands (e.g., national forests, state parks). For these reasons, these lands were included in the 347,000 acres of PQP at the time of Plan inception. However, as described above, the Plan requires an additional 153,000 acres of ARL. These ARL gains are shared amongst the federal, state, and local permittees with the federal and state shared contribution being 56,000 acres and the local contribution being 97,000 acres. The contributions by federal, state, and local entities are shown in *Figure 2-1, Total Cumulative Acreage Contribution by Federal, State, and Local Jurisdictions*.



**Totals may not add up due to rounding.

As of December 31, 2024, the federal agencies contributed 9,853 acres and the state agencies contributed 16,849 acres toward the 153,000-acre ARL conservation goal. The state contribution includes 3,000-acres from the California Department of Transportation. Local permittees contributed 43,800 acres toward the ARL conservation goal.

2.2. Conservation by Jurisdiction

The MSHCP has metrics to measure Plan performance within local government jurisdictions (cities, unincorporated County of Riverside). *Table 2-2, Conservation Targets by Jurisdiction*, provides a conservation summary for 2024, as well as cumulative conservation by jurisdiction (from February 2000 through 2024). New cities and annexations do not have goals under *Section 3.3* of the MSHCP (Volume 1) and instead inherit the goals of individual criteria cells that fall within their City jurisdiction, if any.

Table 2-2
Conservation (ARL) Targets by Jurisdiction

Jurisdiction	Low End Acres of Goals	High End Acres of Goals	Total ARL Acres Conserved in 2024	Total ARL Acres Conserved between February 2000 and December 31, 2024*
Banning	50	90	0	0
Beaumont	5,440	9,060	0	8,123
Calimesa	1,240	2,240	0	2,336
Canyon Lake	30	50	0	0
Corona	330	610	0	367
Eastvale* (incorporated 2010)	--	--	0	100
Hemet	620	1,000	10	395
Jurupa Valley* (incorporated 2011)	--	--	73	586
Lake Elsinore	4,830	7,870	77	3,911
Menifee* (incorporated 2008)	--	--	0	<1
Moreno Valley	80	130	0	1,040
Murrieta	1,580	3,200	0	1,470
Norco	60	140	0	42
Perris	720	1,400	0	182
Riverside	55	125	0	132
San Jacinto	1,580	2,680	0	1,130
Temecula	600	1,380	0	144
Wildomar* (incorporated 2008)	--	--	0	862
Unincorporated, County of Riverside	107,265	159,800	2,249	49,683
Totals**	124,480	189,775	2,409	70,502

* Acquisition goals have not been calculated for cities incorporated since 2004 but remain in County of Riverside goals. Overall reserve assembly goals by Area Plan, Cell Group, and Cell remain and affect newly incorporated cities as applicable.

** Totals may not add up due to rounding.

2.3. Conservation by Area Plan

The MSHCP uses 16 Area Plans as a performance measure to monitor success of overall Plan implementation. Area Plans are County planning units that augment the Riverside County General Plan. *Table 2-3, ARL Conservation Goals by Area Plan*, provides a summary of ARL conservation achieved through 2024 (February 2000 to December 31, 2024) by Area Plan, and the target conservation acreages identified for each Area Plan in *Section 3.3* of the MSHCP (Volume 1). In this section of the MSHCP, the target conservation acreages included an overall target conservation acreage that included both PQP lands plus ARL. The low- and high-range targets included in *Table 2-3* reflect only the ARL targets, rather than the overall Area Plan targets. This distinction, for annual reporting purposes, is an additional check-and-balance mechanism for ARL assembly. As described earlier in this report, only ARL is being acquired for reserve assembly. PQP land was incorporated into the MSHCP reserve at the inception of the Plan and is not a measure of MSHCP performance.

Table 2-3
ARL Conservation Goals by Area Plan

Area Plan	Low End Acres of Goal	High End Acres of Goal	Total ARL Acres Conserved in 2024	Total ARL Acres Conserved between February 2000 and December 31, 2024
Eastvale	145	290	0	107
Elsinore	11,700	18,515	322	7,742
Harvest Valley/Winchester	430	605	0	286
Highgrove	345	675	0	474
Jurupa	890	1,870	73	636
Lake Mathews/Woodcrest	3,215	5,470	0	1,025
Lakeview/Nuevo	6,650	10,235	356	1,858
Mead Valley	1,885	3,635	0	225
Reche Canyon/Badlands	10,520	15,610	642	7,492
REMAP	41,400	58,470	80	21,219
Riverside/Norco	90	240	0	77
San Jacinto Valley	11,540	19,465	68	8,059
Sun City/Menifee Valley	1,120	1,585	0	528
Southwest	22,500	36,360	197	6,787
Temescal Canyon	3,485	5,800	670	2,799
The Pass	8,540	13,925	0	11,187
Total*	124,455	192,750	2,409	70,502

* Totals may not add up due to rounding.

2.4. Conservation and Acquisition Challenges

The RCA, in conjunction with the Permittees, continues to focus its acquisition and conservation efforts toward meeting Rough Step and ARL goals. The RCA and Member Agencies strive to gain ARL at the rate of development and to gain the ARL in-step with vegetation community losses as calculated by the Rough Step analysis. This can be a difficult balance given the nature of acquisition funding. For example, acquisitions triggered through the development HANS process are contingent upon a development project's timeline. The RCA's ability to acquire land also depends upon Local Development Mitigation Fee (LDMF) revenue, which is heavily influenced by the pace of development and economic conditions affecting housing and commercial development markets in the region. The RCA also works with non-development HANS applicants and willing sellers; acquisition through these pathways is similarly influenced by the LDMF revenue. Additionally, there is the need to assemble linkages and constrained linkages, which do not always improve the Rough Step balance but is a requirement of the MSHCP. The RCA continues to work with local Permittees on obtaining donations through the land development process. For details on Rough Step, refer to Section 4 of this report.

2.5. Development Projects and Future Conservation

The HANS process, described in *Section 6.1.1* of the MSHCP (Volume 1) and the Joint Project Review (JPR) process, described in *Section 6.6.2.E* of the MSHCP (Volume 1), provides for a review of development projects proposed in Criteria Cells for consistency with the MSHCP. The HANS and JPR performed by the Member Agencies and the RCA, respectively, for proposed development projects are used to determine the impacts to MSHCP covered resources and what land, if any, needs to be conserved as ARL. The HANS/JPR process is essentially the only process whereby projects are reviewed for reserve assembly (ARL contribution).

Every proposed project triggering a discretionary action under CEQA that occurs in a Criteria Cell that goes through the approval process at a Permittee (i.e., Member Agency) planning department must go through HANS. Once the Member Agency finds the project consistent with the MSHCP, the Member Agency sends the project's JPR application to the RCA. This triggers the JPR process that is performed by the RCA. Once the RCA completes its consistency findings, the RCA sends the JPR application and findings to the Wildlife Agencies (USFWS, CDFW) for their JPR. Once the Wildlife Agencies complete their consistency findings, the project has completed the MSHCP consistency process (Figure 2-2). Projects that need to support reserve assembly (conservation of lands) will be conditioned to do so by the Member Agency. Proposed projects outside of Criteria

Cells do not go through the HANS/JPR process; rather, the Member Agency, without RCA's involvement, performs the MSHCP consistency review (without reserve assembly).

The MSHCP envisioned a total of 41,000 acres to be conserved as ARL through dedications (via zero-cash transactions) from development projects. The MSHCP projected approximately 1,640 acres would be conserved via dedication through the development process, annually. In retrospect, this was an overestimate and did not account for the extended time between development project approvals and commencement of construction, or the use of fee credits. The 2020 Nexus Fee Study lowered the estimate and assumes an additional (i.e., in addition to the less than 1,000 acres dedicated to the MSHCP reserve at the time of the Nexus Fee Study) 10,000 acres of land will be dedicated to the MSHCP reserve.

During the HANS/JPR review process, a development footprint and proposed areas for conservation are designated within the project area for each project. These designated areas are documented in a JPR database as Proposed MSHCP Conservation Lands and Proposed MSHCP Conservation Easements. The JPR database also includes projects that were designated as 100% conservation.

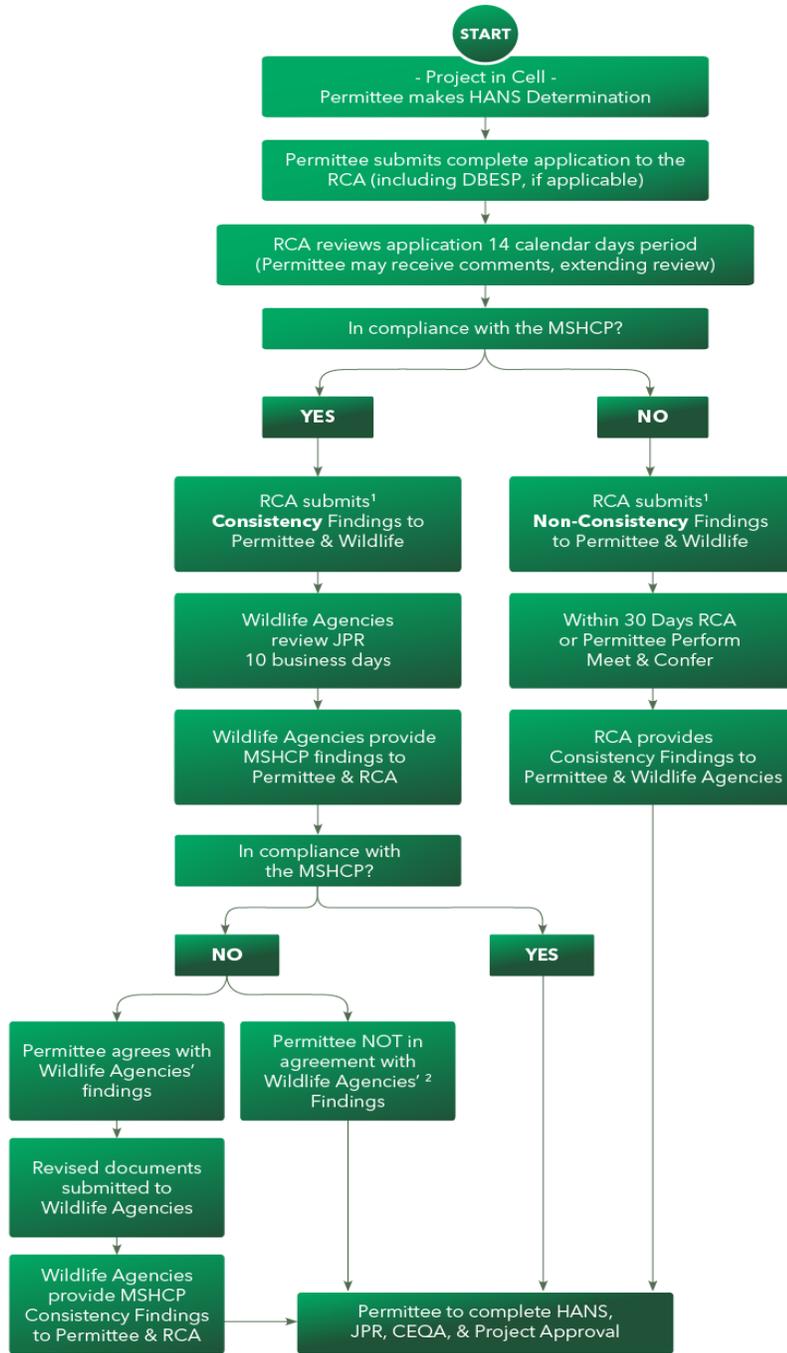
As of December 31, 2024, a total of 13,000 acres are currently designated through the HANS/JPR process as Proposed MSHCP Conservation Lands. In 2024, 23 JPRs were initiated with the RCA and the RCA completed 27 JPRs¹, resulting in 309 acres of Proposed MSHCP Conservation Lands. These future conservation lands will generally be conserved when project applicants are granted permits (e.g., grading, building) by the Member Agency with jurisdiction. Some projects that include areas of conservation may not be completed for a considerable amount of time.

¹ Completed JPRs may include those initiated in 2024 or prior to 2024.



Figure 2-2.

JOINT PROJECT REVIEW (JPR) PROCESS



¹=Findings include all project documentation including a DBESP (Determination of Biologically Equivalent or Superior Preservation) Report, if applicable. For the DBESP, the Wildlife Agencies have 60 calendar days to review and provide comments to the Permittee. The Permittee determines whether additional revisions to the project occurs in order to meet concurrence with the Wildlife Agencies on the DBESP.
²=Wildlife Agencies can request an Informal Meet and Confer with Permittee to address inconsistency finding.



3.0 HABITAT LOSSES

Habitat is lost to residential and commercial development, construction of infrastructure, and other activities that are reviewed by Permittees for MSHCP consistency. The tracking of habitat losses began on June 22, 2004, when MSHCP state and federal permits were issued.

3.1 Permittee Development Activities

The Plan Area is 1.3 million acres in size, with approximately 300,000 acres within the Criteria Area (where the 153,000-acre ARL is envisioned to be assembled). The MSHCP assumed a portion of the Criteria Area would be developed and that the remainder, 153,000 acres, would be conserved as ARL. Refer to Figure 1-2 in Section 1 for the distribution of Criteria Area (in the form of Cells) within the Plan Area. In 2024, a total of 2,361 acres were approved for development with 2,040 acres of habitat lost outside the Criteria Area and 321 acres of habitat lost within the Criteria Area (Criteria Cells). *Table 3-1, Habitat Loss by Jurisdiction (January 1, 2024 – December 31, 2024)*, and *Table 3-2, Cumulative Habitat Losses by Jurisdiction (June 22, 2004 – December 31, 2024)*, provide summaries of the habitat losses that occurred during 2024 and since Plan inception, respectively.

Table 3-1 shows the number of grading/building permits issued by Permittees between January 1 and December 31, 2024, that were analyzed as habitat losses. Multiple types of permits (e.g., building, grading) were issued by the Permittees for various types of land development activities in 2024 and previous years. For MSHCP annual reporting purposes, when multiple permits were issued on one parcel, they were treated as one permit per parcel and counted as one loss in Table 3-1 and Table 3-2. Parcellation of a single property generates a permit for each new parcel created which is reflected in the high number of permits per acre of development in Tables 3-1 and 3-2.

**Table 3-1
Habitat Loss by Jurisdiction
(New Losses between January 1, 2024 and December 31, 2024)**

Permittee	Grading/Building Permits Issued			
	Number of Records Representing Grading/Building Permits Issued	Total Development Acreage	Development Acreage Outside of Criteria Area	Development Acreage within Criteria Area
Banning	6	60	60	0
Beaumont	21	5	5	0
Calimesa	4	2	2	<1
Canyon Lake	6	1	1	0
Corona	89	51	51	<1
Unincorporated County of Riverside	344	1,059	764	294
Eastvale (incorporated 2010)	86	147	147	<1
Hemet	61	20	20	0
Jurupa Valley (incorporated 2011)	20	38	35	2
Lake Elsinore	13	8	8	0
Menifee (incorporated 2008)	111	265	265	0
Moreno Valley	147	366	366	0
Murrieta	12	28	12	15
Norco	25	20	19	1
Perris	25	90	90	0
Riverside	225	119	118	<1
San Jacinto	2	2	2	0
Temecula	17	48	43	6
Wildomar (incorporated 2008)	98	34	32	2
Total*	1,312	2,362	2,040	321
% Total Development Acreage		100%	86%	14%

* All numbers have been rounded to nearest integer. As a result, sum of columns may deviate from total.

Table 3-2
Cumulative Habitat Losses by Jurisdiction
(June 22, 2004 – December 31, 2024)

Permittee	Grading/Building Permits Issued			
	Number of Records Representing Grading/Building Permits Issued	Total Development Acreage	Development Acreage Outside Criteria Area	Development Acreage Inside Criteria Area
Banning	260	1,181	1,181	0
Beaumont	3,767	3,788	3,217	571
Calimesa	243	662	553	109
Canyon Lake	241	68	67	1
Corona	1,071	2,644	2,352	293
Unincorporated County of Riverside	16,412	51,053	37,254	13,799
Eastvale (incorporated 2010)	3,012	3,652	3,493	159
Hemet	1,162	3,381	3,260	121
Jurupa Valley (incorporated 2011)	2,218	3,411	2,969	442
Lake Elsinore	1,902	3,595	2,029	1,567
Menifee (incorporated 2008)	4,942	6,835	6,823	11
Moreno Valley	788	4,995	4,951	44
Murrieta	983	3,147	1,951	1,196
Norco	346	816	781	35
Perris	935	3,915	3,728	187
Riverside	3,096	3,786	3,761	25
San Jacinto	658	2,311	2,038	273
Temecula	1,978	2,539	2,115	424
Wildomar (incorporated 2008)	1,613	1,791	1,627	164
Total*	45,627	103,572	84,150	19,421
% Total Development Acreage		100%	81%	19%

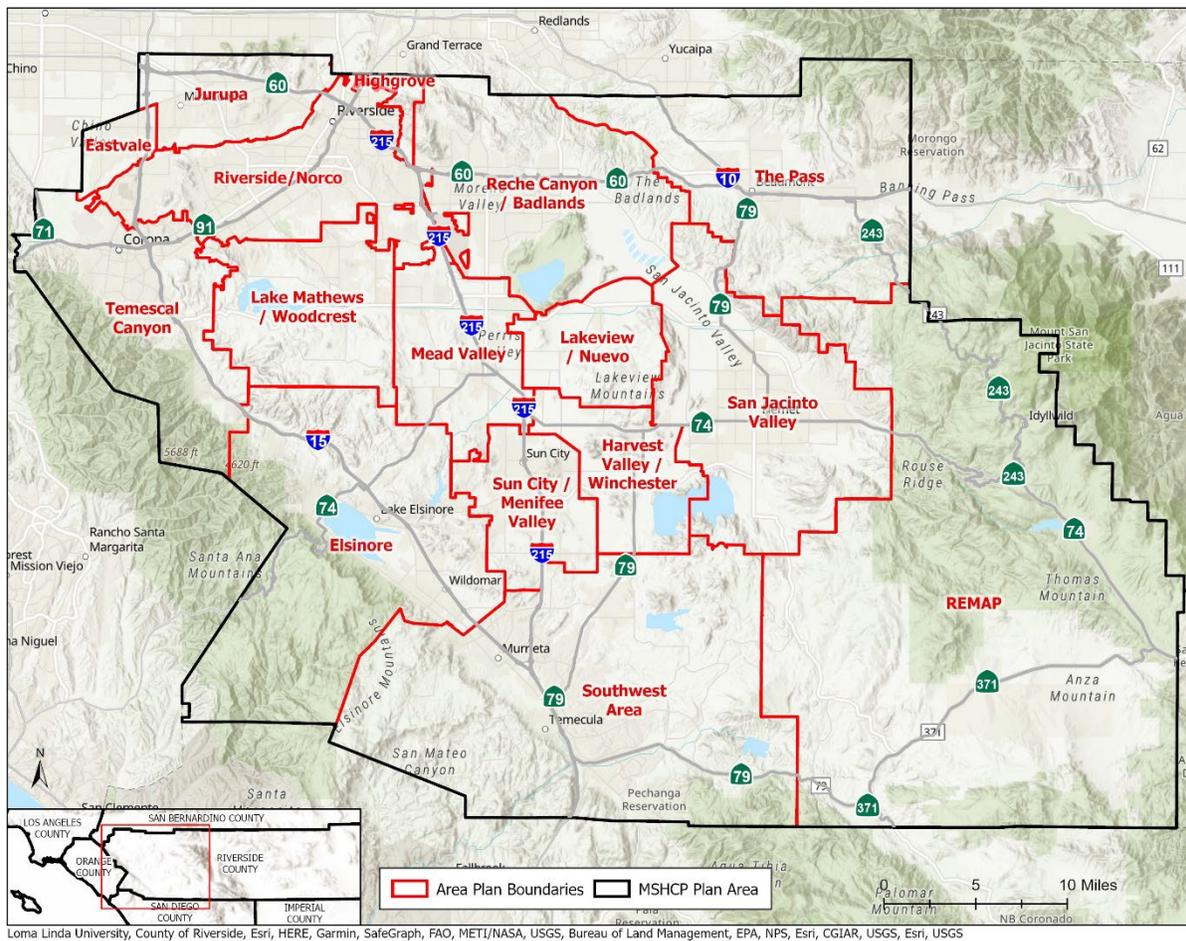
* All numbers have been rounded to nearest integer. As a result, sum of columns may deviate from total.

In 2024, 86% (Table 3-1) and cumulatively, 81% (Table 3-2) of the development occurred outside of the Criteria Area, which means most losses are not occurring within the area reviewed and considered for Conservation.

3.2 Development Activities by Area Plan

The MSHCP uses 16 Area Plans as a performance measure to monitor success of overall Plan implementation. The Area Plans are County planning units that augment the Riverside County General Plan (*Figure 3-1. Area Plan Boundaries within the MSHCP*). Losses from development within each Area Plan are summarized in *Table 3-3, Habitat Losses by Area Plan (New Losses between January 1, 2024 and December 31, 2024)* and *Table 3-4, Habitat Losses by Area Plan Cumulative (June 22, 2004 – December 31, 2024)*. Although development within each Area Plan has occurred mostly outside of the MSHCP Criteria Area, a substantial percent of development has occurred cumulatively in the Criteria Area within the boundaries of the Highgrove and REMAP (Riverside Extended Mountain Area Plan) Area Plans (*Table 3-4*).

Figure 3-1. Area Plan Boundaries within the MSHCP



**Table 3-3
Habitat Losses by Area Plan
(New Losses between January 1, 2024 and December 31, 2024)**

Area Plan	January 1, 2024 and December 31, 2024			
	Total Acres Approved for Development	Acres Approved for Development Outside Criteria Area	Approved for Development Inside Criteria Area	% Approved for Development Inside Criteria Area**
Eastvale	147	147	0	0
Elsinore	99	57	42	42%
Harvest Valley/Winchester	95	95	0	0%
Highgrove	21	21	0	0%
Jurupa	38	35	2	5%
Lake Mathews/Woodcrest	91	90	0	0%
Lakeview/Nuevo	132	99	33	25%
Mead Valley	159	137	22	14%
Reche Canyon/Badlands	370	366	4	1%
REMAP	167	70	97	58%
San Jacinto Valley	54	35	19	35%
Southwest	343	244	100	29%
Sun City/Menifee Valley	265	265	0	0%
Temescal Canyon	55	55	<1	<1%
The Pass	231	231	<1	<1%
Riverside/Norco	95	94	1	1%
Total*	2,361	2,040	321	14%***

* All numbers have been rounded to nearest integer. As a result, sum of columns may deviate from total.

** (%) equals the percentage of the total approved development that occurs within Criteria Areas by Area Plan.

*** (%) equals percentage of the total approved development within Criteria Area within the entire MSHCP Plan Area.

**Table 3-4
Habitat Losses by Area Plan Cumulative
(June 22, 2004 – December 31, 2024)**

Area Plan	June 22, 2004 – December 31, 2024			
	Total Acres Approved for Development	Acres Approved for Development Outside Criteria Area	Approved for Development Inside Criteria Area	% Approved for Development Inside Criteria Area**
Eastvale	3,719	3,670	49	1%
Elsinore	7,518	5,348	2,170	29%
Harvest Valley/Winchester	3,507	3,493	14	<1%
Highgrove	864	355	510	59%
Jurupa	3,392	2,837	554	16%
Lake Mathews/Woodcrest	4,972	4,745	226	5%
Lakeview/Nuevo	1,857	1,335	522	28%
Mead Valley	6,932	6,446	486	7%
Reche Canyon/Badlands	5,866	5,386	480	8%
REMAP	11,474	7,125	4,349	38%
San Jacinto Valley	7,493	6,221	1,272	17%
Southwest	23,035	16,499	6,535	28%
Sun City/Menifee Valley	6,951	6,925	26	<1%
Temescal Canyon	4,965	3,838	1,127	23%
The Pass	7,125	6,080	1,045	15%
Riverside/Norco	3,903	3,846	56	1%
Total*	103,571	84,150	19,421	19%***

* All numbers have been rounded to nearest integer. As a result, sum of columns may deviate from total.

** (%) equals the percentage of the total approved development that occurs within Criteria Areas by Area Plan.

*** (%) equals percentage of the total approved development within Criteria Area within the entire MSHCP Plan Area.

3.3 Agricultural Activities

Existing agricultural uses and conversion of natural lands to agricultural use are Covered Activities under the MSHCP. The MSHCP permits up to 10,000 acres of new agricultural uses within the Criteria Area over the life of the Plan.

The MSHCP defines agricultural operations as production of all plants (horticulture), fish farms, animals, and related production activities, including the planting, cultivation and tillage of the soil, dairying, and apiculture, and the production, plowing, seeding, cultivation, growing, harvesting, pasturing, and fallowing for the purpose of crop rotation of any agricultural commodity, including

viticulture, apiculture, horticulture, and the breeding, feeding, and raising of livestock, horses, fur-bearing animals, fish, or poultry and all uses conducted as a normal part of such operations, provided such actions are in compliance with all applicable laws and regulations. A Settlement Agreement in 2004 between the RCA, County of Riverside, Cities within the MSHCP boundary, and the Riverside County Farm Bureau (refer to Section 3.3.2 for details) clarified when agricultural activities trigger MSHCP compliance or are exempt from the Plan.

The RCA established the existing agricultural operations database and tracks annual losses occurring from new agricultural activities within the Plan Area, as discussed below.

3.3.1. Agricultural Grading Permits

Agricultural grading permits are issued by the Riverside County Building and Safety Department. These permits allow conversion of undeveloped land to agricultural uses, as well as additional or new agricultural activities on parcels that had already been in agricultural use. The MSHCP refers to the Agricultural Commissioner processing Certificates of Inclusion (COI) for agricultural activities; however, the County grading ordinance does not require COIs.

Utilizing information provided to the RCA by Permittees, the RCA verified the 14 agricultural grading permits processed in 2024 were within the Plan Area. The grading permits resulted in a combined loss of 254 acres. Cumulative losses since inception of the MSHCP total 148,444 acres (inside and outside Criteria Area), with 3,102 acres of new agriculture approved through either COIs or Agricultural Grading occurring within Criteria Area (Table 3-5) and 6,898 acres remaining of the 10,000-acre agriculture cap.

Further details on the process, procedures, and methods to update the Agricultural Operations Database with the COIs and Agricultural Grading permits for the MSHCP are described in the GIS metadata files. *Table 3-5, Agricultural Grading Summary* presents agricultural activities within the Plan Area. The map and GIS files for the database can be found within Appendix A of this annual report.

**Table 3-5
Agricultural Grading Summary**

	Agriculture Grading (Acres)	Count Towards 10,000-Acre MSHCP Agriculture Cap (Acres)
Since Plan Conception thru 2023	148,190	3,069
2024	254	33
Total*	148,444	3,102

* All numbers have been rounded to nearest integer. As a result, sum of columns may deviate from total.

3.3.2. Agriculture Compliance Process

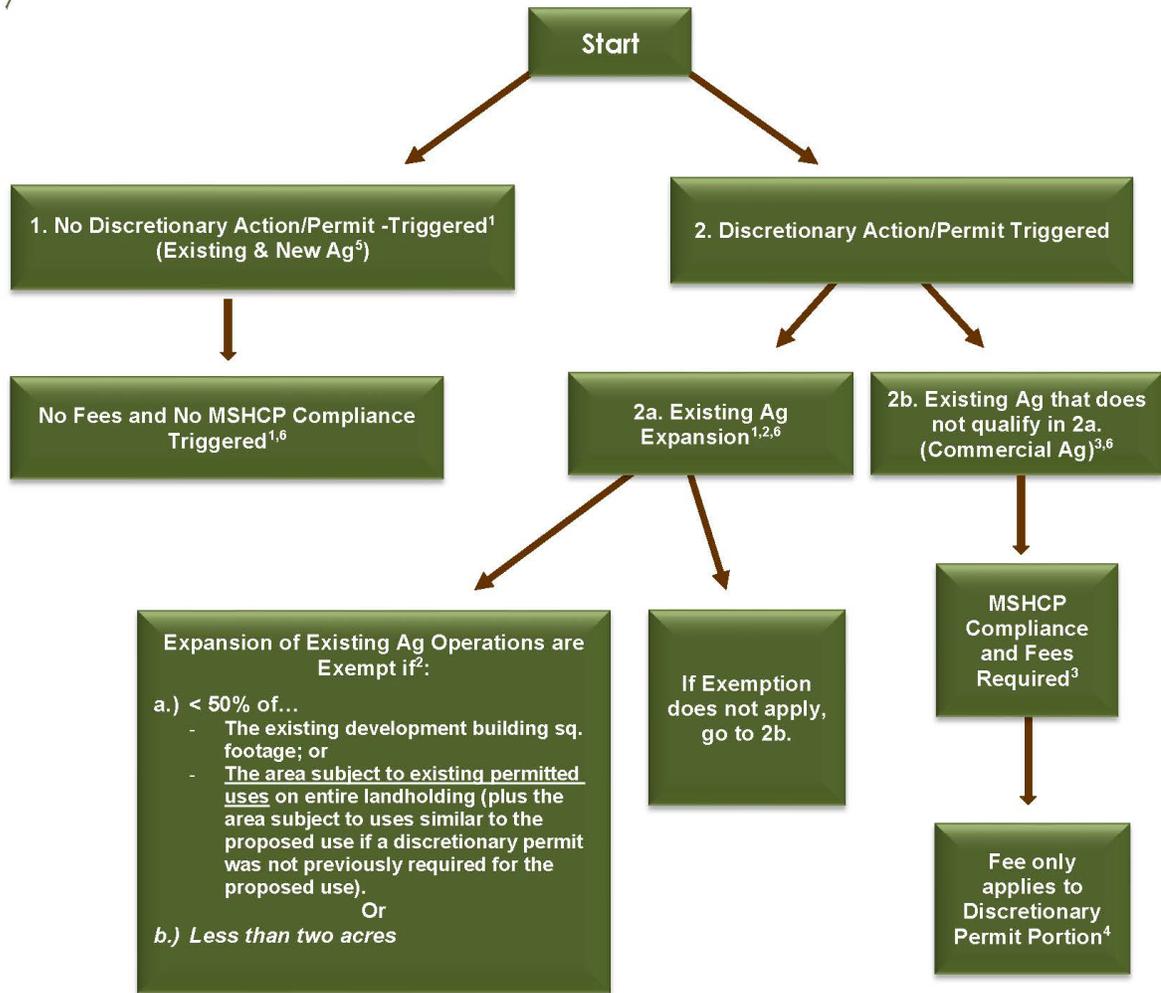
Agricultural activities not requiring discretionary action or permit from the local land use authority (i.e., city or County of Riverside) are exempt from demonstrating MSHCP compliance (Figure 3-2). This includes new agricultural activities that are not commercial and are proposed on lands zoned for agriculture. In addition, agricultural actions requiring a discretionary action or permit from a Member Agency are exempt from MSHCP compliance if expansion of an existing agricultural operation is either (1) less than 50 percent of the existing development building square footage, or (2) less than 50 percent of the area subject to existing permitted uses on entire landholding, or (3) the expansion is less than two acres (Figure 3-2). All other agricultural activities triggering a discretionary action/permit need to comply with the MSHCP.

Figure 3-2. Agriculture Compliance Process



AGRICULTURE COMPLIANCE PROCESS

Graphic summary of process described for agriculture compliance in the MSHCP and 2004 Settlement Agreement between RCA, County of Riverside, select Cities, and the Riverside County Farm Bureau. Please consult the source documents.



¹=2004 Settlement Agreement section 2.
²=2004 Settlement Agreement sections F.
³=2004 Settlement Agreement section G.
⁴=2004 Settlement Agreement exhibit A section F.
⁵=2004 Settlement Agreement exhibit A section D (secondary ag uses on parcels of 5 ac. or less on single-family home lots will not count towards cap).
⁶= 2004 Settlement Agreement exhibit A section A.



4.0 ROUGH STEP

This chapter summarizes all habitat conservation and losses within the Criteria Area by means of Rough Step analysis. Rough Step is a MSHCP performance measure used to monitor the pace of conservation of key vegetation communities against the pace of losses of key vegetation communities within the discrete geographic units of the Criteria Area. There are nine Rough Step Units in the MSHCP Plan Area (refer to *Figure 4-1, Western Riverside County MSHCP Rough Step Analysis Units*). Each Rough Step Unit is characterized by similar weather patterns, soils, and geologic conditions to ensure that key, narrowly distributed vegetation communities are representatively conserved throughout the Criteria Area. Each Rough Step Unit includes land within and outside of the Criteria Area. The Rough Step analysis functions as an early warning system to signal where development and loss of the key vegetation communities is outpacing conservation and where future efforts should be focused on conserving those key vegetation communities. Rough Step Units 1 through 8 have Additional Reserve Land conservation goals for key vegetation communities (not all vegetation communities within a Rough Step Unit are tracked in the Rough Step analysis), while Rough Step Unit 9 does not; hence, Rough Step analysis is not performed on Unit 9 and, as such, will not be discussed further.

Table 4-1, Key Vegetation Community Losses and Gains by Rough Step Unit in 2024, summarizes how much development (losses) and conservation (gains) has taken place inside the Criteria Area (i.e., areas potentially needed for reserve assembly) during the last year. Note that acreages only include losses and gains for those key vegetation communities tracked within the particular Rough Step Unit.

**Table 4-1
Habitat Losses and Gains by Rough Step Unit in 2024
(January 1, 2024 through December 31, 2024) (Values in Acres)**

Rough Step Unit	Size of Rough Step Unit	Total Criteria Area	Gains (Conservation)	Losses (Development)
1	93,945	9,905	741	3
2	177,606	63,251	684	5
3	150,086	32,892	383	33
4	212,630	108,955	100	137
5	91,734	27,874	20	15
6	101,542	25,954	157	63
7	130,824	28,056	1	22
8	50,408	22,690	315	41
Total*	1,008,775**	319,577	2,409	321

* All numbers have been rounded to the nearest integer. As a result, sum of columns may deviate from total.

** Rough Step Units 1-8 do not encompass the entire Plan Area.

This Annual Report uses the corrected Rough Step formula approved by the Wildlife Agencies (USFWS, CDFW), as well as the changes made to *Table 6-3* of the MSHCP (Volume 1).

The formula can be found in Minor Amendment 2007-01 (https://www.wrc-rca.org/Permit_Docs/MSHCP/RCA_2008_AR_Appendix_B_Minor_Amendment_2007-01.pdf).



Figure 4-1. Western Riverside County MSHCP Rough Step Analysis Units

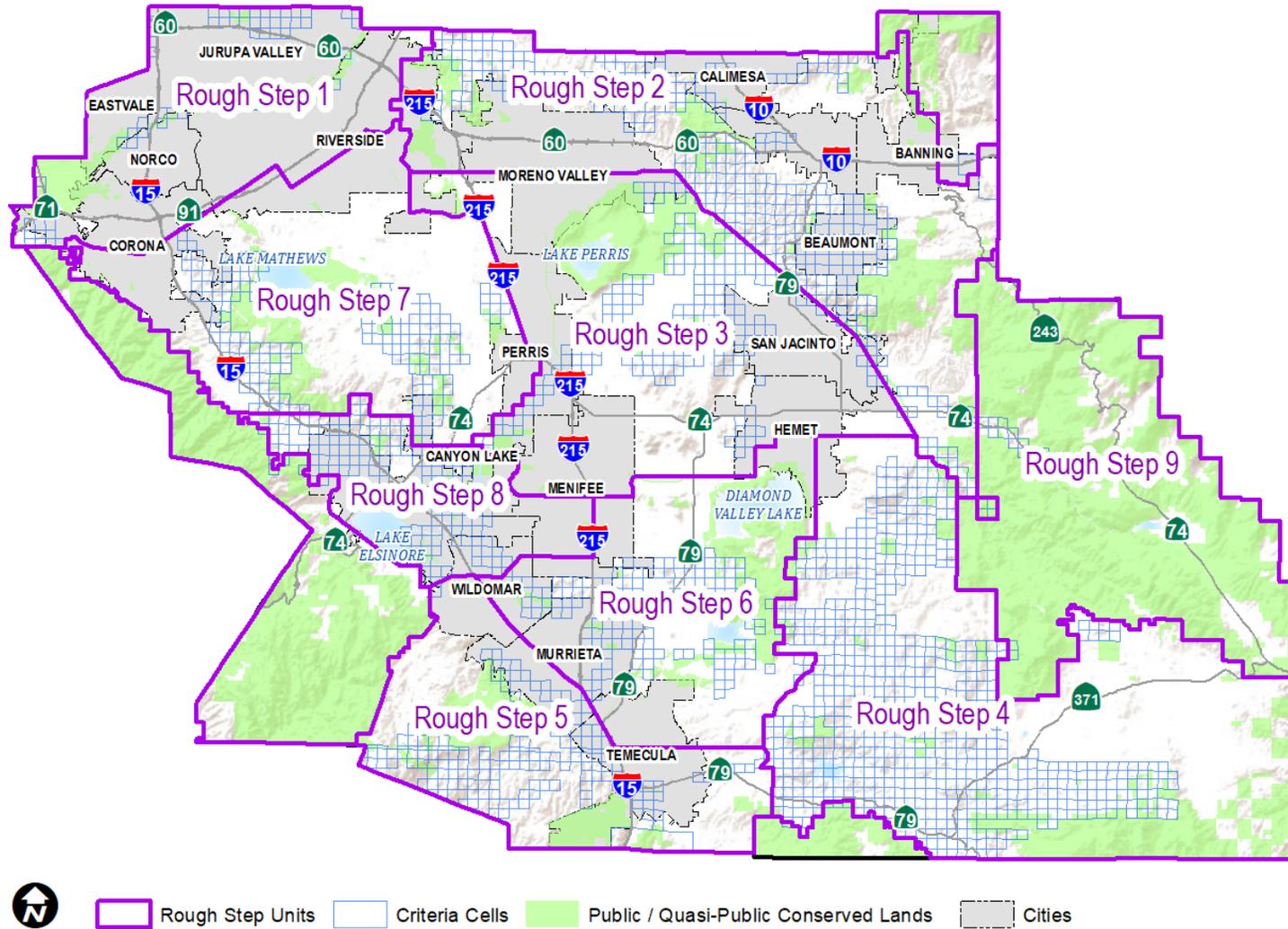


Table 4-2, Rough Step Acreage Summary, provides the amount of key vegetation types in the Criteria Area by Rough Step Unit (column 3 [from left to right]) and the Additional Reserve Land conservation goals set by the MSHCP (column 4). Also included are the total amount of each key vegetation community cumulatively conserved through December 31, 2024¹ (column 5) and the total amount of each key vegetation community authorized for development by Permittees (column 7) through HANS/JPR processes. The sixth column shows the amount of allowable development, by key vegetation community, for each Rough Step Unit set by the MSHCP, based on the amount of conservation that has occurred (column 5). Habitat Gains for conservation (column 5) are through December 31, 2024. Allowable development was calculated using losses (derived from grading or building permits) between June 22, 2004 and December 31, 2024. Allowable development, as calculated in Table 4-2, is the amount of allowable development remaining for a key vegetation community given the current (through December 31, 2024) amount of the key vegetation community that has not been permanently impacted. The amount of allowable development changes as additional land containing key vegetation communities are developed. Column 8 shows the difference between the amount of each key vegetation community authorized for development (column 7) and the allowable development calculated using the Rough Step formula (column 6). Where the difference is negative (**red**), the vegetation community would be considered out of Rough Step. Areas of development (losses) that contain tracked key vegetation communities for Rough Step Units 1 through 8 are depicted in Figures 4-2 through 4-9, respectively.

¹ Includes land conserved since February 2000.

Table 4-2
Rough Step Summary (Values in Acres)

Rough Step Unit	Vegetation Communities within Rough Step Unit	From Table 6-3 in the MSHCP**		Amount Conserved (between February 2000 and December 31, 2024)*	Amount of Allowable Development through December 31, 2024 *	Area Authorized for Development by Cities and the County (between June 22, 2004, and December 31, 2024)*	Area Remaining for Authorized Development (-red denotes out of Rough Step)*
		Vegetation Community within the Criteria Area	Additional Reserve Land Goal for the Vegetation Communities				
1	Coastal Sage Scrub	1,210	930	671	210	61	+149
	Grassland	820	180	75	303	94	+209
	Riparian Scrub, Woodland, Forest	680	550	153	46	16	+29
	Total*	2,710	1,660	899	558	171	387
2	Coastal Sage Scrub	14,969	10,359	5,384	2,617	336	+2,281
	Grassland	8,656	4,866	3,387	2,753	472	+2,282
	Riparian Scrub, Woodland, Forest	590	460	247	76	35	+41
	Riversidean Alluvial Fan Sage Scrub	1,190	1,110	633	49	9	+40
	Woodland and Forest	300	180	130	90	20	+70
	Total*	25,705	16,975	9,781	5,585	872	4,714
3	Coastal Sage Scrub	3,670	2,050	478	502	134	+368
	Grassland	4,690	900	211	1,180	350	+830
	Playa and Vernal Pool	4,340	3,830	1,870	275	15	+260
	Riparian Scrub, Woodland, Forest	220	110	12	22	8	+14
	Riversidean Alluvial Fan Sage Scrub	190	100	5	13	13	+<1
	Total*	13,110	6,990	2,577	1,993	520	1,472
4	Coastal Sage Scrub	21,828	17,948	4,285	1,222	1,212	+10
	Desert Scrub	4,340	3,680	1,918	376	159	+217
	Grasslands	10,991	5,961	1,038	1,291	1,153	+138
	Riparian Scrub, Woodland, Forest	1,420	1,322	159	20	10	+10
	Riversidean Alluvial Fan Sage Scrub	1,169	1,099	364	28	23	+5
	Woodland and Forest	1,562	872	225	229	89	+140
	Total*	41,310	30,882	7,989	3,166	2,646	519

Table 4-2
Rough Step Summary (Values in Acres)

Rough Step Unit	Vegetation Communities within Rough Step Unit	From Table 6-3 in the MSHCP**		Amount Conserved (between February 2000 and December 31, 2024)*	Amount of Allowable Development through December 31, 2024 *	Area Authorized for Development by Cities and the County (between June 22, 2004, and December 31, 2024)*	Area Remaining for Authorized Development (-red denotes out of Rough Step)*
		Vegetation Community within the Criteria Area	Additional Reserve Land Goal for the Vegetation Communities				
5	Coastal Sage Scrub	1,540	370	106	418	214	+204
	Grasslands	3,880	1,010	231	878	653	+225
	Riparian Scrub, Woodland, Forest	550	460	34	15	15	+<1
	Riversidean Alluvial Fan Sage Scrub	370	260	20	19	17	+2
	Woodlands and Forests	2,080	1,000	288	388	122	+266
	Total*	8,420	3,100	679	1,717	1,020	697
6	Coastal Sage Scrub	4,796	3,876	1,383	388	310	+78
	Grassland	6,188	3,688	1,267	1,023	749	+274
	Riparian Scrub, Woodland, Forest	268	208	53	20	14	+6
	Woodland and Forest	140	110	40	13	3	+10
	Total*	11,392	7,882	2,743	1,443	1,075	368
7	Coastal Sage Scrub	9,222	6,772	2,333	1,005	549	+456
	Grasslands	3,620	1,516	399	709	229	+480
	Riparian Scrub, Woodland, Forest	570	451	166	51	28	+23
	Riversidean Alluvial Fan Sage Scrub	400	339	131	27	23	+4
	Woodlands and Forest	493	333	41	34	<1	+33
	Total*	14,305	9,410	3,070	1,826	829	997
8	Coastal Sage Scrub	6,400	4,940	3,424	1,057	416	+641
	Grassland	3,690	1,840	359	510	615	-105
	Riparian Scrub, Woodland, Forest	280	250	100	14	<1	+13
	Riversidean Alluvial Fan Sage Scrub	190	130	23	16	34	-18
	Total*	10,560	7,160	3,906	1,596	1,065	531

* All numbers have been rounded to the nearest integer, except for Acres Remaining for Authorized Development that are values <1. As a result, sum of columns may deviate from total.

** This Table uses the Rough Step formula, land acres, and additional reserve lands goals as per Minor Amendment 2007-01.

All key vegetation communities remain in Rough Step in Rough Step Units 1, 2, 3, 4, 5, 6, and 7. The following key vegetation communities are behind in Rough Step:

- Rough Step Unit 8. Grassland (-105 acres)
- Rough Step Unit 8. Riversidean Alluvial Fan Sage Scrub (-18 acres)

The Riversidean alluvial fan sage scrub category deficiency in Rough Step Unit 8 was caused by the issuance of a grading permit for a project in 2024. Joint project review for this proposed project was initiated in 2005 and then amended in 2023. Riversidean alluvial fan sage scrub was in step for Rough Step Unit 8 at the time of this amended joint project review.

The grassland vegetation category has been out of Rough Step in Unit 8 since inception of the MSHCP due to pre-MSHCP developments and associated project mitigation that resulted in lands coming into the MSHCP Reserve under the PQP classification that do not count toward Rough Step gains. However, there are 169 acres of grassland pending conservation in this Rough Step Unit. The timing of conveyance of development-related conservation is unknown as it is based on the project proponents' timeframes.

The RCA is actively engaged in acquiring parcels that would bring Riversidean Alluvial Fan Sage Scrub and Grassland into Rough Step in Unit 8. Rough Step Unit 3 was brought back into balance for Riversidean Alluvial Fan Sage Scrub with limited losses in 2024 and the acquisition of one property [known as SSR Investment Company (SSR153) property].

Delhi Soils Rough Step

All suitable habitat for the Delhi Sands Flower-loving Fly within the MSHCP Plan Area is in Rough Step Unit 1. The Delhi Sands Flower-loving Fly is found within the fine, sandy Delhi series soils along the northern edge of Rough Step Unit 1. Unlike other covered species, the Permittees were given options for conservation of this species. These options are described in the Delhi Sands Flower-loving Fly species objectives located in Table 9-2 in the MSHCP (Volume I). As part of the MSHCP Implementing Agreement, the Wildlife Agencies and Riverside County jointly opted to follow Delhi Sands Flower-loving Fly Species Objective 1B in the MSHCP (Volume I). Objective 1B mandates that surveys are to be conducted in areas where suitable habitat exists within the mapped Delhi soils (with the exception of Cells 21, 22, and 55). When the species is present, 75 percent of mapped Delhi soils on-site must be conserved. Surveys continue to be required in these areas of the Rough Step Unit.

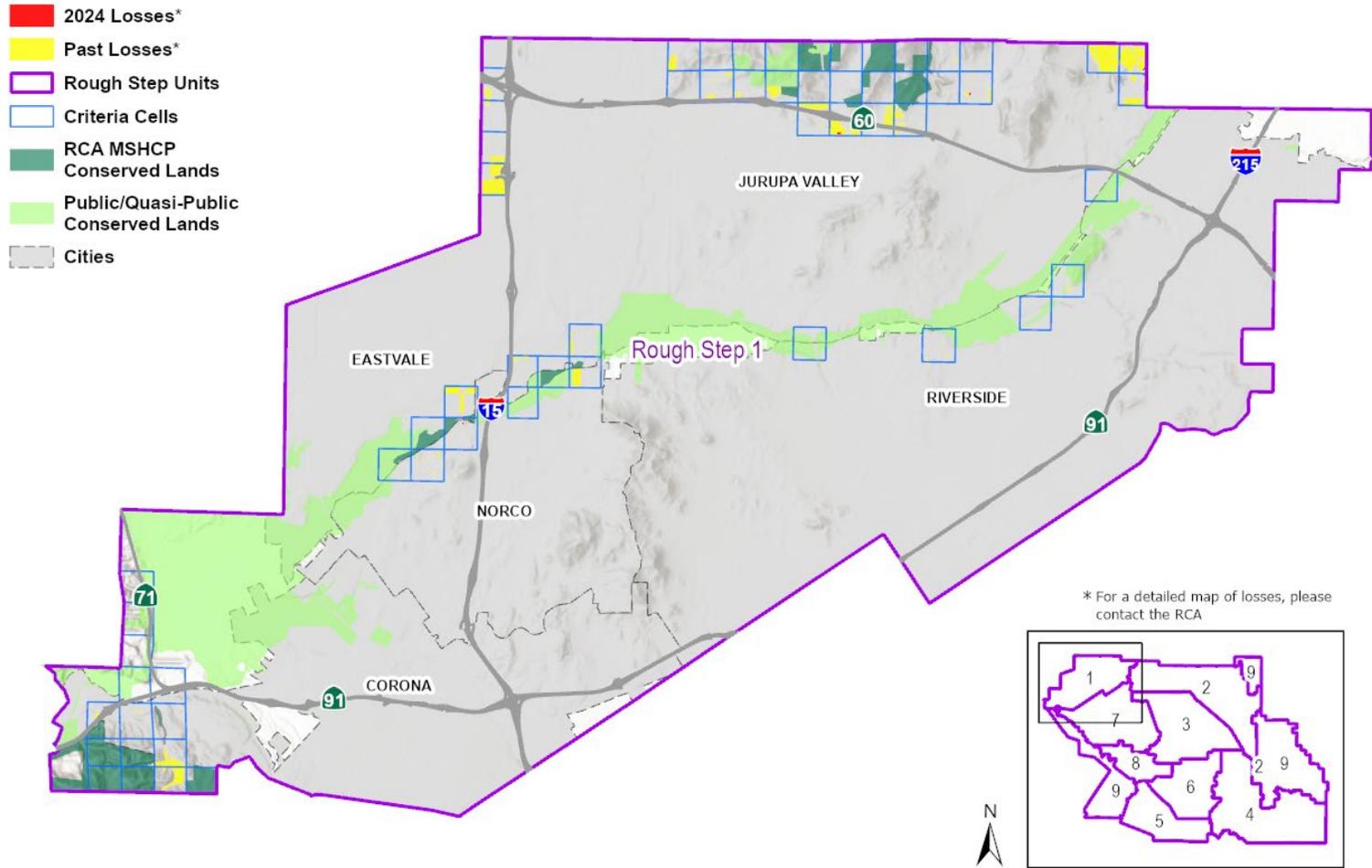
Surveys are not required within Cells 21, 22, and 55. Instead, 50 acres of Additional Reserve Lands with Delhi soils and suitable habitat for the Delhi Sands Flower-loving Fly shall be acquired within these three cells. The 50 acres were acquired in 2020, and the Additional Reserve Land Goal has been met for Delhi Soils for Cells 21, 22, and 55. *Table 4-3, Delhi Soils Conservation (Species Account Objective 1B)*, provides a summary of the Delhi sands Rough Step analysis.

Table 4-3
Delhi Soils Conservation (Species Account Objective 1B) (Values in Acres)

Delhi Soils within the Rough Step Unit	From Objective 1B in the MSHCP (Volume I)		Total Delhi Soils Conserved (between February 2000 and December 31, 2024)
	Delhi Soils within the Criteria Area in the Rough Step Unit	Delhi Soil Conservation Goal	
Outside Cells 21, 22, 55	270	170	7
Within Cells 21, 22, 55		50	50
Total*	270	220	57

* All numbers have been rounded to the nearest integer. As a result, sum of columns may deviate from total.

Figure 4-2. Rough Step Unit 1



Esri, NASA, NGA, USGS, FEMA

Figure 4-3. Rough Step Unit 2

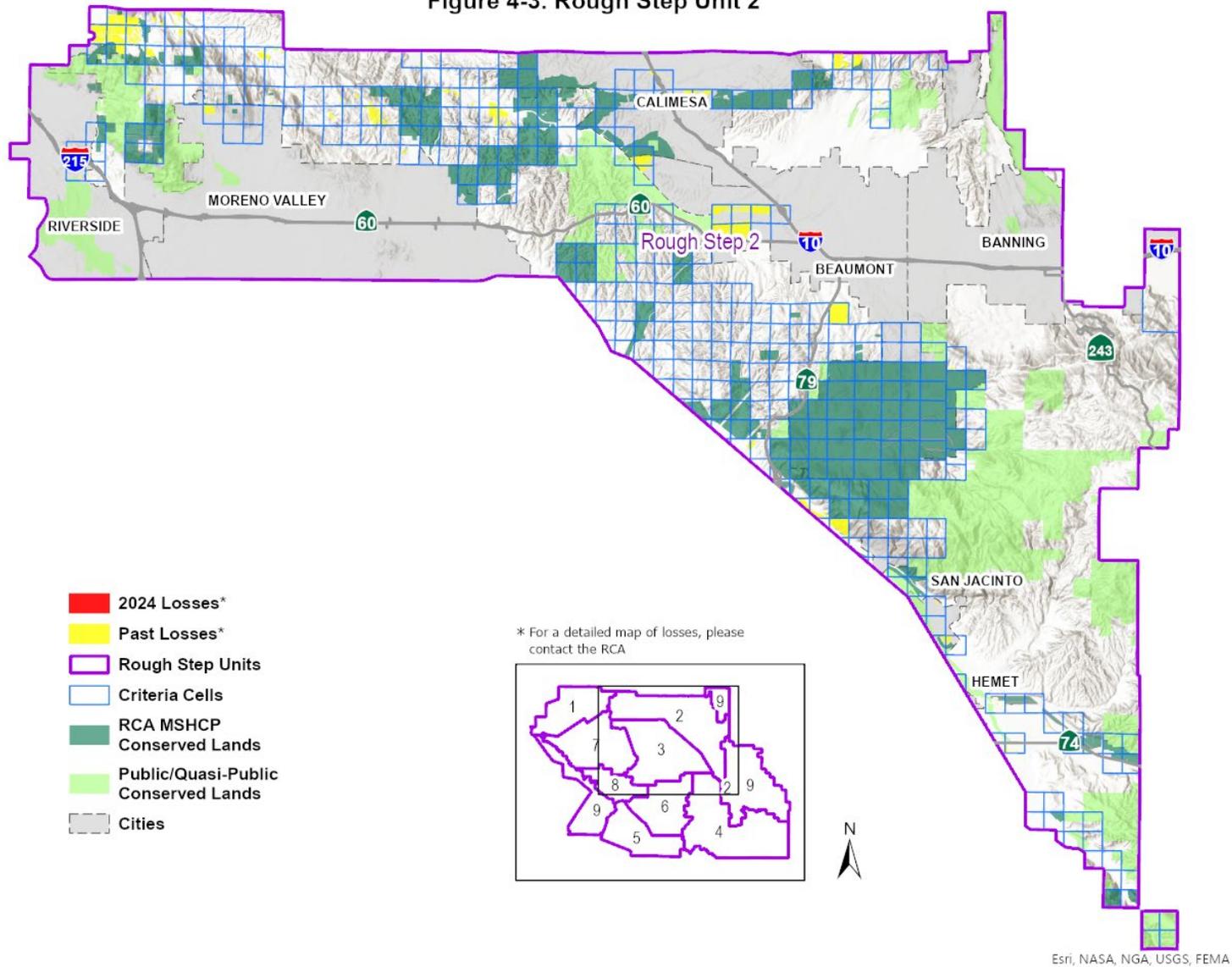
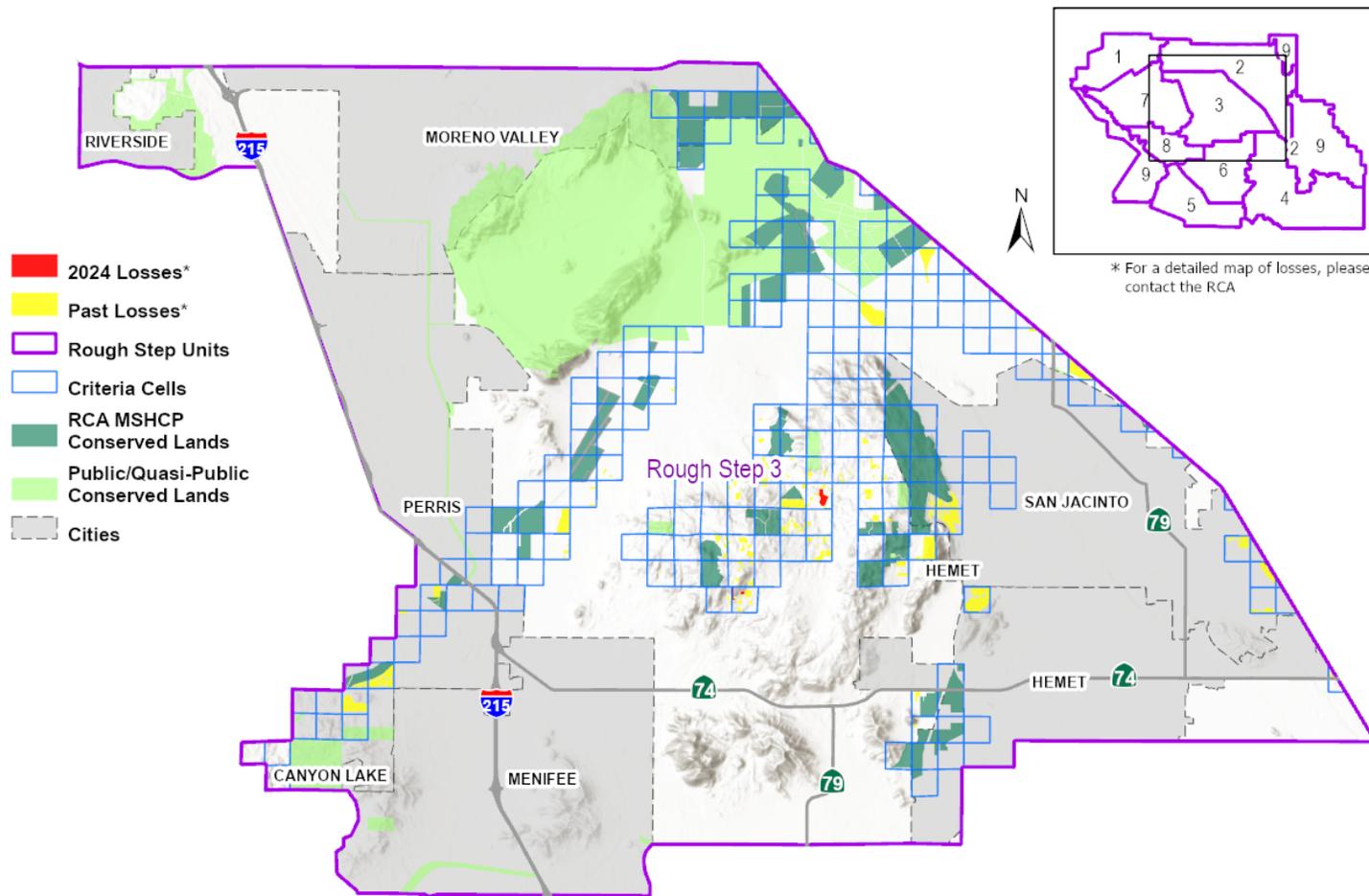
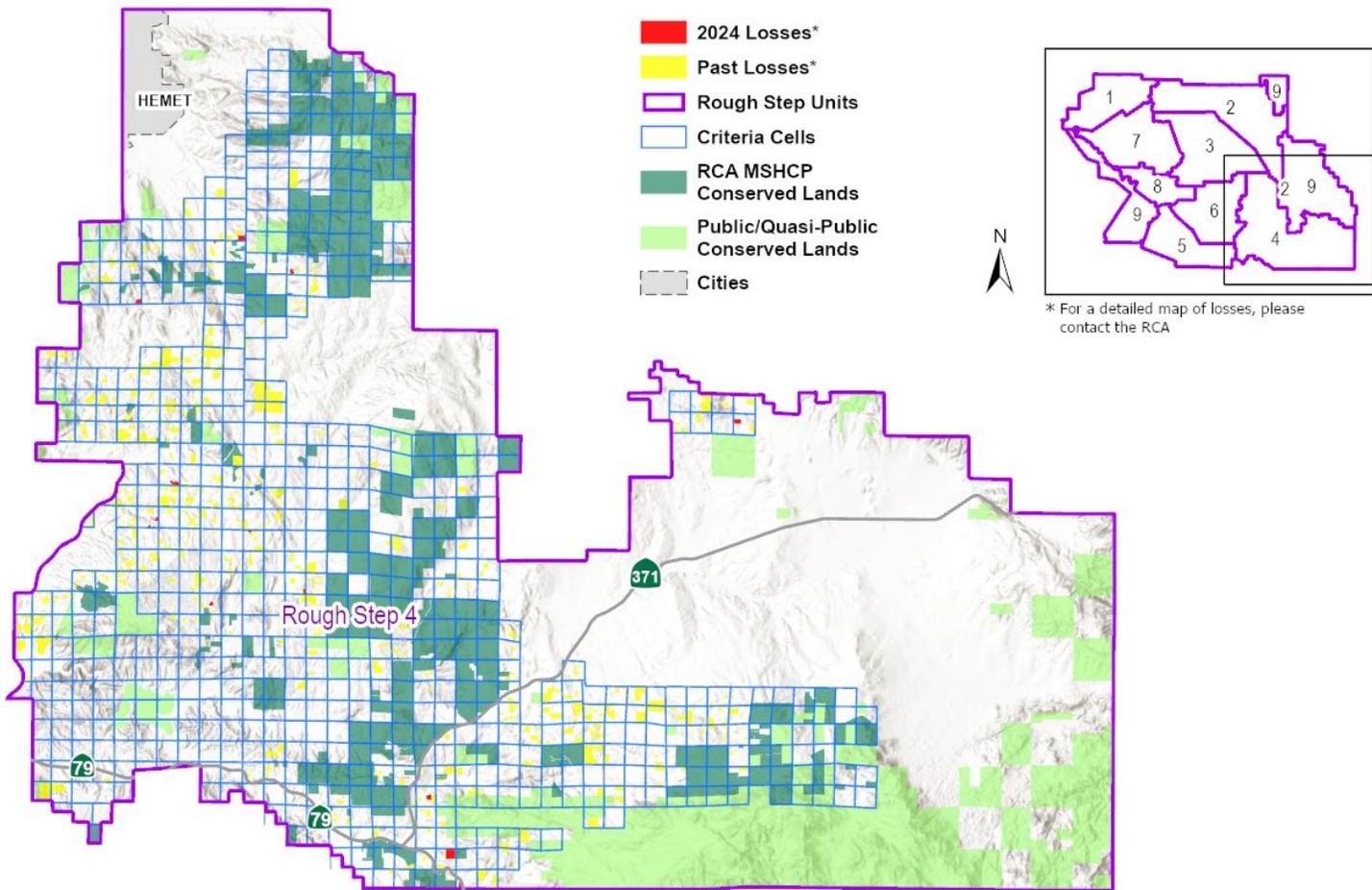


Figure 4-4. Rough Step Unit 3



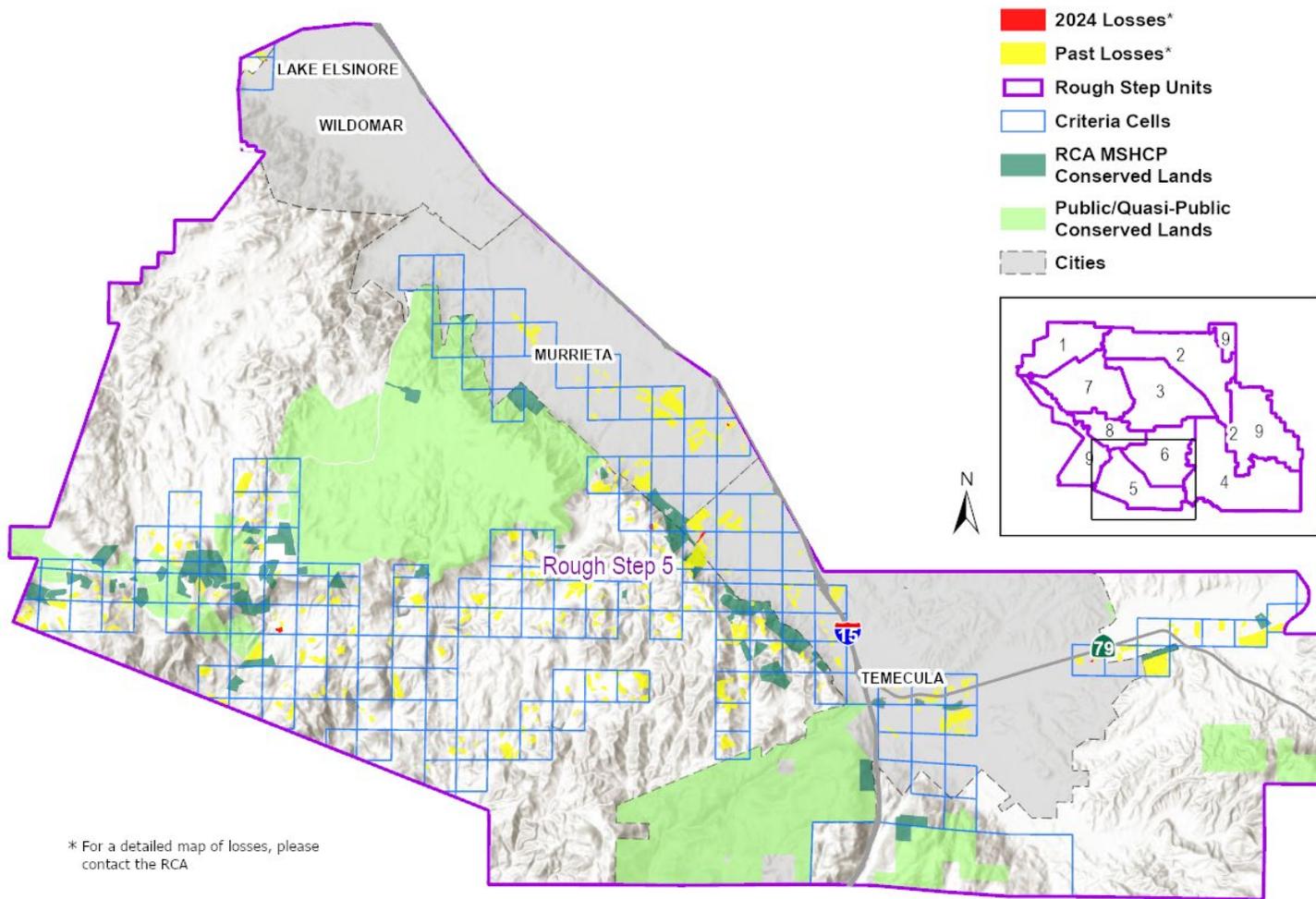
Esri, NASA, NGA, USGS, FEMA

Figure 4-5. Rough Step Unit 4



Esri, NASA, NGA, USGS, FEMA

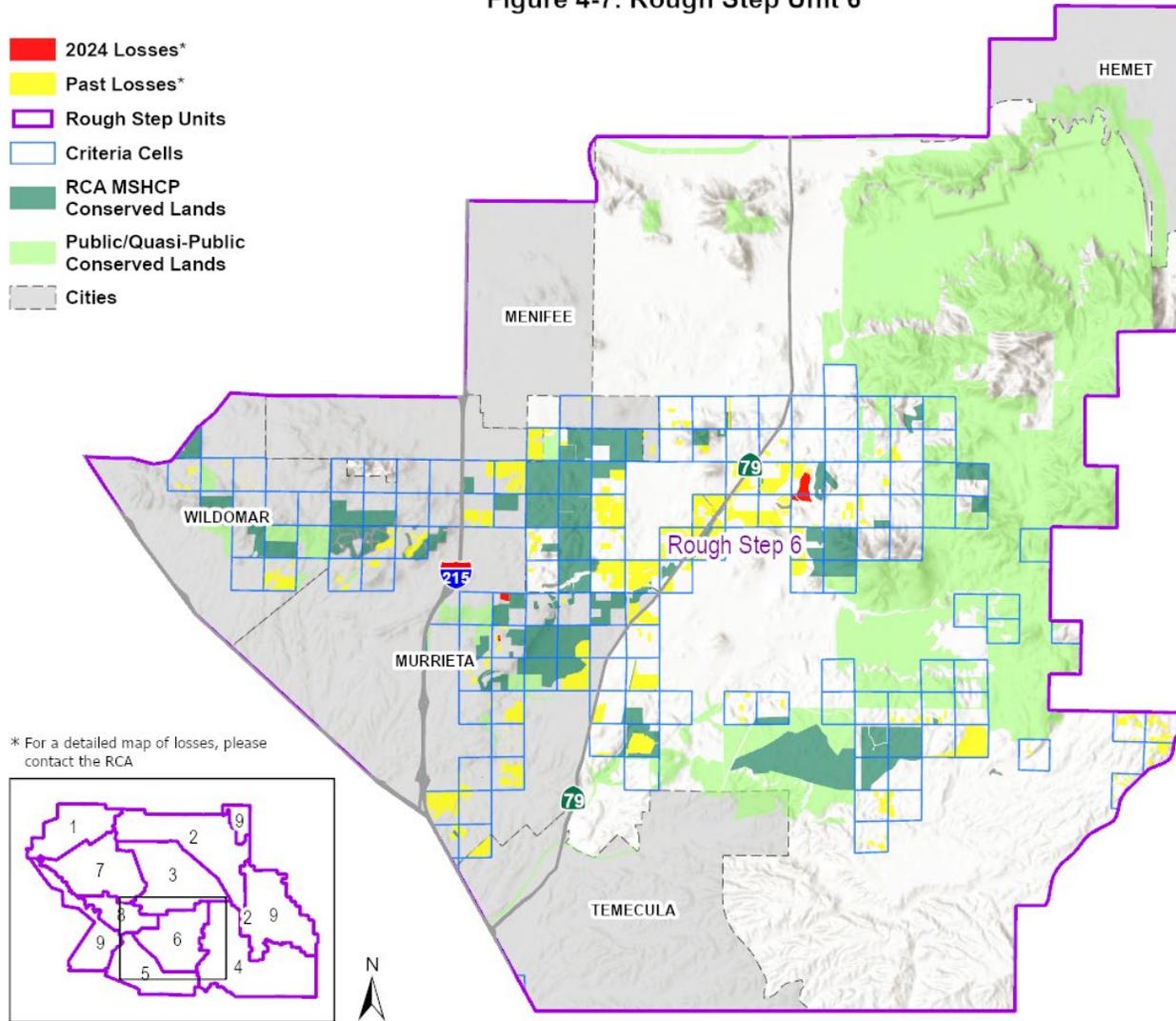
Figure 4-6. Rough Step Unit 5



* For a detailed map of losses, please contact the RCA

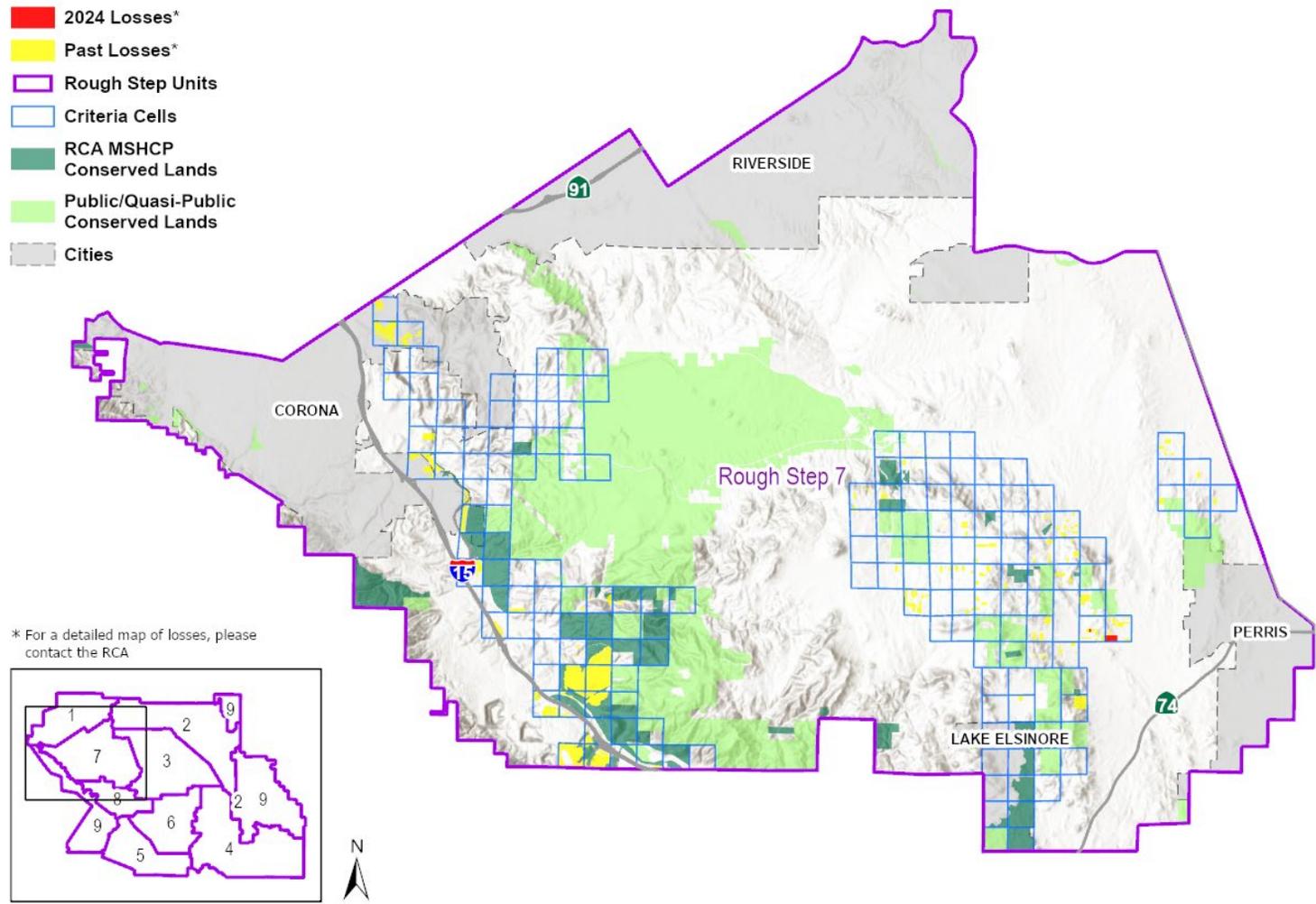
Esri, NASA, NGA, USGS, FEMA

Figure 4-7. Rough Step Unit 6



Esri, NASA, NGA, USGS, FEMA

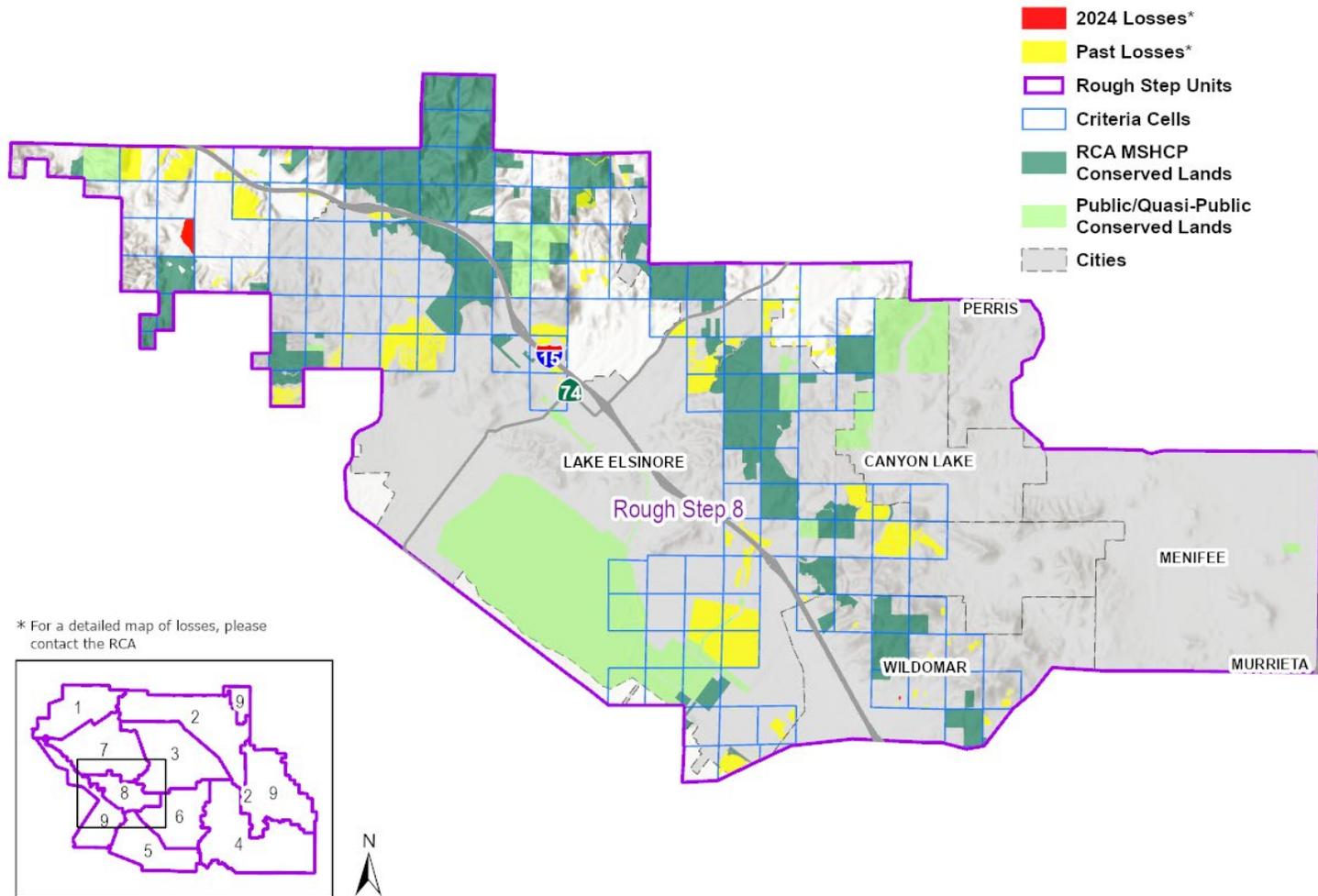
Figure 4-8. Rough Step Unit 7



Esri, NASA, NGA, USGS, FEMA



Figure 4-9. Rough Step Unit 8



Esri, NASA, NGA, USGS, FEMA

5.0 ACTIVITIES WITHIN PLAN AREA

5.1. Single-Family/Mobile Home Activity

5.1.1. Background

In accordance with existing land use regulations, development of a single-family home or mobile home on an existing legal parcel is a Covered Activity, per *Section 7.3.2* of the MSHCP (Volume 1). Single-family home grading/site preparation permits and mobile home site preparation permits on existing legal lots within the Criteria Area are reviewed against the MSHCP Conservation Criteria solely to determine the least sensitive portion of the lot for building pad location. These activities are covered by the Expedited Review Process (ERP) provision of the Property Owner Initiated Habitat Evaluation and Acquisitions Negotiation Process. *Section 7.3.2* of the MSHCP (Volume 1) lists several assumptions used by the MSCHP to predict the annual level of single-family/mobile home development within the Criteria Area. Based on key assumptions, the MSHCP estimated approximately 75 parcels would utilize the ERP provision within the Criteria Area annually. These parcels were estimated to impact approximately 675 acres of land annually. The MSHCP also assumed that, of these 675 acres, half (338 acres) would be within areas considered desirable for inclusion in the MSHCP Conservation Area (i.e., described for conservation). Finally, the MSHCP assumed that the Permittees would successfully negotiate conservation on 75% of the 338 acres, and 85 acres that the MSHCP describes for conservation would be developed with single-family/mobile homes. The annual reporting process is used to determine whether ERP activity is occurring in a manner that is consistent with the assumptions made during MSHCP development.

5.1.2. Effect on Reserve Assembly

Between January 1, 2024, and December 31, 2024, 7 single-family/mobile home permit applications utilized the ERP. These permits covered approximately 66 acres within the Criteria Area, with 35 acres described for conservation. This level of ERP development is below the estimated annual acreage described in Section 5.1.1. The ERP data the RCA receives from the county and cities are likely incomplete due to the lack of data submitted by most cities. In 2024, most of the ERP development occurred within Rough Step Unit 4. *Figure 5-1, 2024 ERPs Distribution* shows the locations of ERP development in 2024.

Since inception of the MSHCP, the ERP has permitted 4,073.¹ acres for development of single-family/mobile homes within the Criteria Area, with an annual average of 194 acres of ERP development within the Criteria Area. This is far less than the MSHCP estimate of 675 acres per year (refer to *Section 5.1.1*). As other forms of development impact critical vegetation categories, development of single-family and mobile homes permitted through the ERP may have an additive effect of unknown size on a region’s rough step balance due to the lack of ERP data.

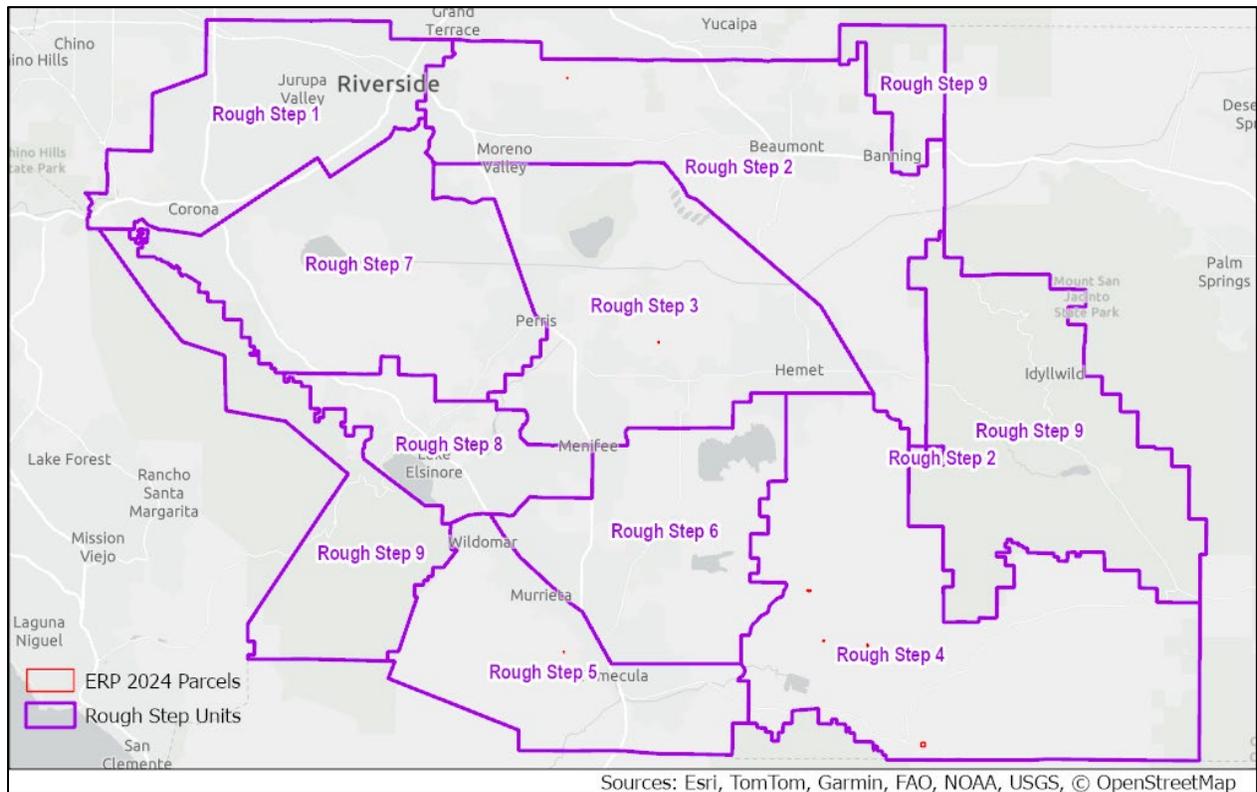


Figure 5-1. 2024 ERP Distribution

5.2 Public Works Projects

Public works projects, which may include maintenance of existing facilities, conducted by the Permittees receive coverage under the Plan and, when in a Criteria Cell, are subject to Joint Project Review (JPR). The Wildlife Agencies process JPRs for State Parks and Caltrans, while the RCA and the Wildlife Agencies process JPRs for public projects by Permittees. *Table 5-1, Public Works Projects (January 1 through December 31, 2024)* summarizes public works project activity during 2024 throughout the Plan Area.

¹Acres may differ per annual report due to parcel line shifts in the Riverside County Assessor Parcel data during each annual analysis.

**Table 5-1
Public Works Projects Throughout the Plan Area
(January 1, 2024 through December 31, 2024)**

Public Works Permittee	Activities Permittees Approved between January 1 and December 31, 2024
County of Riverside Transportation Department	<ul style="list-style-type: none"> • Gilman Springs Rd Phase 6 Safety Project • Pedley Rd emergency road and storm drain damage repair work • Good Hope community sidewalk improvement project • De Portola Rd Drainage Improvements Project • Slurry seal projects at various locations • Road resurfacing projects at various locations • Sidewalk projects at various locations
Riverside County Transportation Commission	<ul style="list-style-type: none"> • State Route (SR)-71/SR-91 Interchange Project • Interstate-15 Smart Freeway Pilot Project • Mid-County Parkway Phase 3/Ramona Expressway • Metrolink South Perris Station Expansion • State Route 60 Potrero Interchange
Riverside County Park and Open-Space District	<ul style="list-style-type: none"> • No major projects in 2024
Riverside Flood Control and Water Conservation District	<ul style="list-style-type: none"> • Wildomar MDP Lateral C, Stage 3 and Bundy Canyon Basin • Woodcrest – Rinehart Acres Drainage plan Improvements
California State Parks	<ul style="list-style-type: none"> • CA Citrus SHP Repaving and HVAC Projects • Lake Perris SRA Patrol Dock Contract
Caltrans	<ul style="list-style-type: none"> • Upgrade or install curve warning signs at various locations • Remove and replace asphalt concrete pavement at various locations • I-215 Pavement Rehab Project • Bridge preventative maintenance work on I-15, SR60, SR91 • Install CCTV on SR60 • Construct Northbound Auxiliary Lane on I-15 • Install, Operate & Maintain Systems To Collect Real-Time Traffic Data & Operate Active Traffic Management Devices, I-15, I-215
Waste Management	<ul style="list-style-type: none"> • On-Call site improvement project at Riverside County Sanitary Landfills

5.3 Participating Special Entity Permits

Per *Section 6.1.6* of the MSHCP (Volume 1), the RCA may grant MSHCP take authorization with approval from the Wildlife Agencies to non-signatory public agencies and other regional service providers under the Participating Special Entity (PSE) provision. The MSHCP defines “Participating Special Entity” as any regional public facility provider, such as a utility company or a public district or other agency that operates and/or owns land within the MSHCP Plan Area but who is not a MSHCP Permittee.

The RCA processed the following PSE projects in 2024:

- Rancho California Water District – Vail Lake Dam Seismic and Hydrologic Remediation Project (processing)
- Southern California Edison (SCE) – Canal 33kV Deteriorated Pole Replacement Project (processing)
- SCE – Saddleback 33kV Interset Pole Project (completed)

5.4 Criteria Refinement

As indicated in *Section 6.6.2F* of the MSHCP (Volume 1), Permittees are expected to implement the MSHCP consistent with Cell Criteria. In cases where a Permittee and/or landowner believes that conservation objectives could be achieved in an alternative location or alternative Reserve design scenario, the criteria can be refined to reflect such modification.

For the annual reporting year of 2024, the RCA met with several Permittees about Criteria Refinements as a potential option for proposed developments. The Criteria Refinement for the Lamb Canyon Landfill Project is on hold at the time of this report and the relocation of Proposed Constrained Linkage 1 (associated with the Green River Ranch Specific Plan) was completed.

5.5 Agency Cooperation

Many of the Covered Species and associated sensitive habitats are located on federal and state lands. For these reasons, existing federal and state lands were included in the existing 347,000 acres of Public/Quasi-Public lands. Assumption for conservation of these lands came with the goal that Memoranda of Understanding (MOU) between these state, federal, and other governmental/quasi-governmental agencies must be established to ensure that lands are managed in concert with Covered Species’ needs.



U.S. Forest Service. Under agreement with the San Bernardino and Cleveland National Forests (Forest), MSHCP Monitoring Program biologists have been conducting species surveys in Forest areas since 2005 and have completed the initial inventory for species presence (refer to Section 8.2 in this report for more details). Survey information is shared, and activities coordinated, with Forest and other Reserve Managers within the MSHCP at monthly Reserve Managers meetings hosted by the Biological Monitoring Program.

Bureau of Land Management (BLM). Lands owned by the Bureau of Land Management (BLM) in western Riverside County contribute to Reserve Assembly Public/Quasi-public lands. Most of the BLM lands within the MSHCP are associated with the Riverside County Stephens' Kangaroo Rat Habitat Conservation Plan (SKR-HCP). The BLM released the revision to their draft South Coast Resource Management Plan (SCRMP) in June 2011. The RCA entered into an MOU with the BLM (RCA Agreement No. 09002, BLM MOU No.CA-660-08-01) on June 6, 2008, as a cooperating agency on this Plan. Through this MOU, the RCA worked with the BLM to maximize coordination and achieve consistency, where practical, in the development of the revisions to the SCRMP. When completed and adopted, the revised SCRMP will be the basis for the BLM and RCA to enter into additional MOU discussions to allow Adaptive Management on BLM properties that would be necessary to meet the objectives of the MSHCP's species-specific management plans as they evolve following completion of the initial Monitoring Program species inventory. The SCRMP has not yet been adopted by the BLM.

Riverside County Habitat Conservation Agency (RCHCA). The RCHCA is the Joint Powers Authority responsible for implementation of the SKR-HCP in western Riverside County. The RCHCA owns approximately 6,700 acres of conservation land at Estelle Mountain and the Southwest Riverside County Multi-Species Reserve (Southwest MSR) surrounding Lake Skinner and Diamond Valley Lake and manages another 10,000 acres at Southwest MSR. As such, the RCHCA is an important conservation landowner in the MSHCP Plan Area and monitoring/management coordination between the RCHCA and RCA benefit MSHCP Covered Species. The RCHCA allows access for MSHCP biological monitoring purposes.

Riverside Corona Resource Conservation District (RCRCD). In 2010, the RCA and RCRCD entered into a management MOU for properties that RCRCD either holds in fee title or has a conservation easement over. RCRCD manages these lands in a cooperative manner with the RCA consistent with the goals and objectives of the MSHCP. The RCA and RCRCD also work collaboratively on In Lieu Fee Program-related mitigation opportunities on RCA-owned land and on potential acquisitions within RCRCD's service area.

Inland Empire Resource Conservation District (IERCD). In 2012, the RCA and IERCD entered into a management MOU for properties within the Plan Area that IERCD either holds in



fee title or has a conservation easement over. IERCD manages these lands in a cooperative manner consistent with the goals and objectives of the MSHCP. The RCA and IERCD also work collaboratively on In Lieu Fee Program-related mitigation opportunities on RCA-owned land.

Temecula-Elsinore-Anza-Murrieta Resource Conservation District (TEAM RCD). In 2019, the RCA and TEAM RCD executed a management MOU for properties within the Plan Area that TEAM RCD either holds in fee title or has a conservation easement over. TEAM RCD manages lands in a cooperative manner consistent with the goals and objectives of the MSHCP.

Rivers & Land Conservancy (RLC). In 2017, the RCA and RLC executed a management MOU for properties that RLC either holds in fee title or has a conservation easement over. RLC manages these lands in a cooperative manner consistent with the goals and objectives of the MSHCP. The RCA and RLC also work collaboratively on In Lieu Fee Program related mitigation opportunities on RCA-owned land.

5.6 Clerical/Minor Amendments to the MSHCP

5.1.1. Clerical Amendments

Section 6.10.1 of the MSHCP (Volume 1) outlines clerical amendments to the MSHCP. The MSHCP states that clerical amendments shall be made by the RCA on its own initiative or in response to a written request submitted by any Permittee or Wildlife Agency, which includes documentation supporting the proposed clerical change. Clerical changes shall not require any amendment to the MSHCP, the Permits, or the Implementing Agreement. Clerical changes include corrections of typographical, grammatical, and similar editing errors that do not change the intended meaning and corrections of any maps or exhibits to correct insignificant errors in mapping. It is assumed that most clerical changes to the MSHCP will occur during the first 10 years of MSHCP implementation. Clerical amendments are to be summarized in each annual report and are found in *Appendix A* of this report.

In 2024, the RCA did not process any clerical amendments.

5.1.2. Minor Amendments

Section 6.10.2 of the MSHCP (Volume 1) outlines minor amendments to the MSHCP and associated revision procedures. The following items are considered minor amendments to the MSHCP and shall be administratively implemented:

(1) Minor corrections to land ownership;



- (2) Minor revisions to survey, monitoring, reporting, and/or management protocols that clearly do not affect Covered Species or overall MSHCP Conservation Area functions and values;
- (3) Transfer of target Reserve Assembly acreages between identified Subunits within a single Area Plan and/or between Area Plans within a single Rough Step Analysis Unit consistent with the criteria;
- (4) Application of Take Authorization for development within Cities incorporated within the MSHCP boundaries after the effective date of the Implementing Agreement, assuming such inclusion does not preclude Reserve Assembly, significantly increase the cost of MSHCP Conservation Area management or assembly, or preclude achieving Covered Species conservation and goals;
- (5) Annexation or de-annexation of property within the Plan Area pursuant to *Section 11.5* of the Implementing Agreement, provided such inclusion does not preclude Reserve Assembly, significantly increase the cost of the MSHCP Conservation Area management or assembly, or preclude achieving Covered Species conservation and goals;
- (6) Minor extension of cut or fill slopes outside of the right-of-way limits analyzed in the MSHCP for covered roadways to accommodate construction in rolling or mountainous terrain; and
- (7) Updates/corrections to the vegetation map and/or species occurrence data.

There were two minor amendments to the MSHCP completed in 2024:

1. MA 2023-01 – Annexation of Beaumont Pointe Specific Plan property from Riverside County into the City of Beaumont jurisdiction
2. MA 2024-01 – Withdrawing MA 2022-02 and MSHCP road coverage shift

5.7 Fires, Floods, and Drought

Section 6.8.3 of the MSHCP (Volume 1) discusses Changed Circumstances potentially affecting the MSHCP Conservation Area that include short-interval return fire, floods, drought, and invasion by exotic species. This MSHCP section also describes planned responses to short-interval return fires. In 2012, RCA staff started reporting fire activity within the MSHCP Conservation Area. Information on actions performed in response to short-interval return fires during this reporting period is provided in Section 7 Management Activities of this Annual Report.

Short-Interval Return Fire

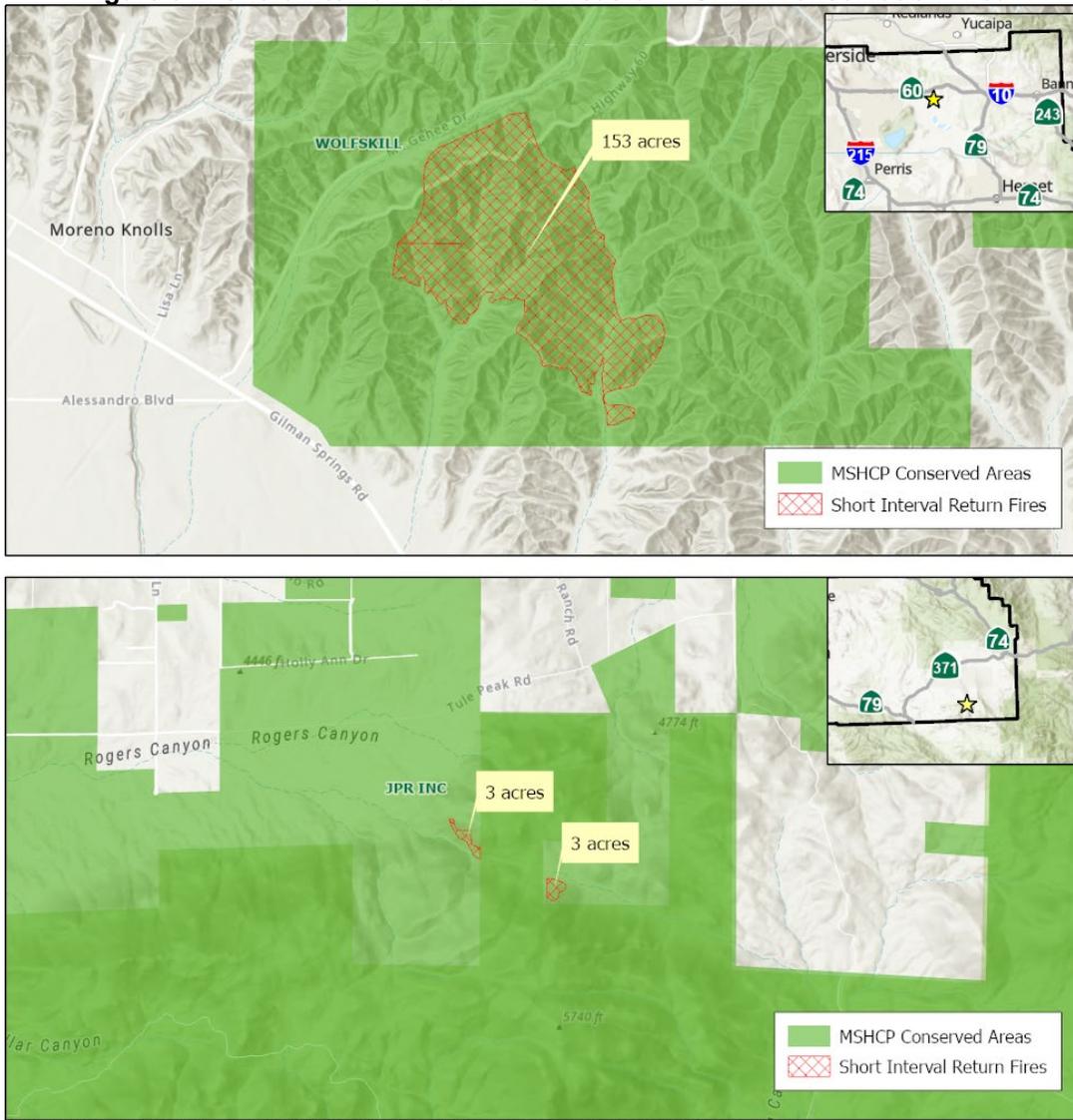
For the purpose of defining Changed Circumstances, short-interval return fire is defined as fire occurring in the same location as a previous fire within the same footprint more than once in a 5-

year period within the MSHCP Conservation Area. When fires return repeatedly to an area, native vegetation may not be able to regenerate sufficiently to limit non-native plant species from taking a stronghold and out competing the native vegetation, ultimately resulting in conversion of native habitat into non-native vegetation that provides lower quality habitat for MSHCP covered species. *Table 5-2, Short-Interval Return Fires on MSHCP Conserved Area* summarizes the short-interval return fires and *Figure 5-2, Short-Interval Return Fires on MSHCP Conserved Area* shows the locations of those short-interval return fires.

Table 5-2
Short-Interval Return Fires on MSHCP Conserved Area

MSHCP Reserve Property	Overlapping Acres Burned	Years	Fire Names (Respective of Years)
Wolfskill	153	2019, 2024	Jerry Fire, Round Fire
JPR Inc	6	2023, 2024	Bonny Fire, Nixon Fire

Figure 5-2. Short-Interval Return Fire Areas on MSHCP Conservation Area



5.8 Activities Affecting Reserve Assembly

In consultation with the Wildlife Agencies, this section is meant to provide documentation of actions that have influenced reserve design during the last year. The cost of land has been increasing since the inception of the MSHCP and 2024 was no exception. Through the HANS/JPR process, the RCA acquired the most expensive property to date. Although the project applicant was interested in pursuing a Criteria Refinement, the deficiency of Riversidean alluvial fan sage scrub in Rough Step Unit 7 made it infeasible. The RCA, with help from the County of Riverside, worked out a funding strategy. However, the trend of increasing land costs may affect the pace of reserve assembly in future years.

6.0 FUNDING SUMMARY

The Plan requires that the RCA provide an accounting of relevant financial information for each reporting period. *Table 6-1, RCA Program Operation Financial Summary*, reflects the specific categories, as detailed in *Appendix B-05* of the MSHCP (Volume 1). *Table 6-2, Permittee Revenue (January 1, 2024 through December 31, 2024)* summarizes monthly income for each Permittee for the reporting period.

As noted in the table below, expenditures for the calendar year 2024 were significantly larger than revenues received during the same period. This difference is primarily attributed to two factors. First, the table accounts only for local revenues but includes the amounts spent on land acquisitions purchased with federal and state grant funds. Therefore, these amounts are not offset by the state and federal grants received which match the amount spent. The other factor is that RCA purchased one property during calendar year 2024 using a combination of cash and notes payable. The full value of the acquisition is included in the table even though over half the value will be paid for over the next four years as the notes are paid off.

TABLE 6-1
RCA Program Operation Financial Summary

Operational Type	Targets/Assumptions	Prior to Plan Approval through December 31, 2023*	January 1 through December 31, 2024*
PROGRAM COSTS			
A. Acquisitions			
<i>Local Conservation: Land dedications through the HANS (Development) process 41,000 acres to be conserved</i>	Projected Progress Toward MSCHP Goal (Acres)	38,540	820
	Projected Progress Toward MSHCP Goal (Percent)	94%	2%
	Actual Progress Toward MSHCP Goal (Acres)	1,880	0
	Actual Progress Toward MSHCP Goal (Percent)	5%	0%
<i>Local Acquisitions (RCA) 56,000 acres to be conserved</i>	Projected Progress Toward MSCHP Goal (Acres)	53,760	560
	Projected Progress Toward MSHCP Goal (Percent)	96%	1%
	Actual Progress Toward MSHCP Goal (Acres)	40,957	859
	Actual Progress Toward MSHCP Goal (Percent)	73%	2%
	Actual Acquisition Cost ¹	\$466,904,231	\$18,288,055
	Actual Price per Acre	\$11,400	\$21,290

6.0 FUNDING SUMMARY

	Estimated Price per Acre	\$13,100	\$13,100
<i>Local Commitment Subtotal</i> <i>97,000 acres to be conserved</i>	<i>Total Acres Conservation²</i>	42,837	859
	<i>Actual Progress Toward MSCHP Goal (Percent)</i>	<u>44%</u>	<u>1%</u>
	<i>Actual Acquisition Cost^{1,3}</i>	<u>\$466,904,231</u>	<u>\$18,288,055</u>
<i>State Acquisitions</i>	Actual Conserved Acres	15,855	1,000
	Actual Acquisition Cost ³	\$109,594,699	\$25,107,389
	Actual Price per Acre	\$6,912	\$25,107
<i>Federal Acquisitions</i>	Actual Conserved Acres	9,424	428
	Actual Acquisition Cost ³	\$68,848,062	\$3,556,556
	Actual Price per Acre	\$7,306	\$8,310
<i>State & Federal Acquisitions Subtotal</i> <i>56,000 acres to be conserved</i>	<i>Actual Conserved Acres</i>	<u>25,279</u>	<u>1,428</u>
	<i>Actual Progress Toward MSHCP Goal (Percent)</i>	<u>45%</u>	<u>3%</u>
	<i>Actual Acquisition Cost</i>	<u>\$178,442,761</u>	<u>\$28,663,945</u>
Acquisitions Total 153,000 acres to be Conserved	Total Acres New Conservation	68,116	2,287
	Total Acquisition Cost	\$645,346,992	\$46,952,000
B. Program Management			
<i>Land Management</i>	Based on Actual	\$17,428,453	\$1,204,880
<i>Species Monitoring</i>	Based on Actual	\$27,543,126	\$3,130,762
<i>Administration</i>	Based on Actual	\$80,701,516	\$12,170,179
<i>Endowment</i>	Based on Actual ⁴	\$9,960,457	\$5,026,425
Program Management Total		\$135,633,553	\$21,532,246
TOTAL REPORTING PERIOD COSTS⁵		\$780,980,525	\$68,484,246
Operational Type	Targets/Assumptions	Prior to Plan Approval through December 31, 2023*	January 1 through December 31, 2024*
PROGRAM REVENUE			
A. Development Fees			
<i>Per unit Residential Fee \$4,358⁶</i>	Combined Residential, Commercial and Industrial Fees	\$331,340,436	\$35,362,897
<i>Per acre Com & Ind Fee \$19,615</i>			
<i>Density Bonus Fees</i>	Program in Development	\$0	\$0
<i>Units using density bonus</i>	Program in Development	\$0	\$0
<i>Per Unit Fee</i>	Program in Development	NA	NA
Development Fees Subtotal		\$331,340,436	\$35,362,897
B. Landfill Revenue			



6.0 FUNDING SUMMARY

	Landfill Revenue - Previous Years	\$6,000,000	NA
	El Sobrante Revenue	\$50,166,812	\$3,187,381
	Other Landfill Fees	\$5,906,464	\$400,000
	Landfill Revenue Subtotal	\$62,073,276	\$3,587,381
C. Infrastructure Mitigation			
	Measure "A" Revenue	\$152,009,708	\$0
	TUMF	\$13,790,815	\$1,113,064
	Flood Control	\$7,009,048	\$1,129,618
	Other Gov MSHCP Infrastructure	\$3,810,002	0
	Other Gov MSHCP Civic projects	\$3,088,016	\$554,420
	Misc. Participating Fees	23,440,653	\$29,472
	Infrastructure Revenue Subtotal	\$203,148,242	\$2,826,574
	TOTAL REVENUE IN REPORTING PERIOD	\$596,561,954	\$41,776,852

¹ Acquisition Costs include RCTC Measure "A" funds.

² There are approximately 13,000 acres identified to be conserved at some future date from the JPR (Joint Project Review) and HANS Review of developments from the inception of the Plan.

³ Only includes land acquisition costs. Other costs related to the acquisition including appraisals are not included.

⁴ Local Development Mitigation Fee Endowment created by the 2020 Nexus Study to be funded by 15 percent of all Local Development Mitigation Fees collected. Funding began in July 2021.

⁵ Includes costs incurred before Plan inception and state and federal cost of acquisition which are not RCA direct costs.

⁶ Residential fees have three rates depending on density. Low density (0-8 dwelling units per acre) \$4,358; Medium density (8.1-14 dwelling units per acre) \$1,817; High density (14 plus dwelling units per acre) \$803. These were the fees in effect as of December 31, 2024.

* Numbers have been rounded before calculations are performed. As a result, sum of columns may deviate from total. Acres from January 1, 2021 forward use exclusively recorded acres. In prior years a mix of recorded and GIS acres were used. This results in a slight discrepancy between sum total acres in this table and tables in other sections of this annual report.

TABLE 6-2
Permittee Revenue (January 1, 2024 through December 31, 2024)

Permittee	January-24	February-24	March-24	April-24	May-24	June-24	July-24
City Of Banning	\$112,528	\$15,894	\$44,482	\$0	\$4,236	\$37,724	\$294,147
City Of Beaumont	161,558	160,968	93,192	129,749	55,068	254,160	173,537
City Of Calimesa	0	0	2,746	0	0	0	0
City Of Canyon Lake	4,236	0	0	4,236	0	4,236	6,201
City Of Corona	34,398	147,945	31,074	128,713	42,596	3,875	6,987
City Of Eastvale	0	197,318	506,178	35,117	32,942	139,962	0
City Of Hemet	0	97,428	160,968	182,256	118,608	218,894	47,694
City Of Jurupa Valley	98,025	92,742	319,481	145,691	105,146	342,536	8,848
City Of Lake Elsinore	170,949	261,289	0	246,159	20,709	347,930	147,694
City Of Menifee	101,976	19,426	83,312	244,787	361,821	450,256	26,039
City Of Moreno Valley	122,840	191,068	158,202	99,957	255,556	217,175	144,701
City Of Murrieta	0	3,022	70,544	377,223	0	708,410	0
City Of Norco	2,039	8,310	8,277	0	6,932	2,495	6,049
City Of Perris	132,974	534,316	322,689	59,818	80,484	185,625	152,530
City Of Riverside	128,091	201,954	762,129	156,455	257,103	345,649	196,127
City Of San Jacinto	38,124	0	101,664	55,068	164,915	144,132	33,605
City Of Temecula	50	810	6,921	1,050	69,823	-213,672	8,594
City Of Wildomar	8,472	161,920	21,180	29,652	38,124	69,617	87,640
County Of Riverside	1,688,200	297,967	1,112,576	1,172,302	1,180,798	766,137	914,042
Totals	\$2,804,460	\$2,392,377	\$3,805,615	\$3,068,233	\$2,794,861	\$4,025,141	\$2,254,435

TABLE 6-2 (Continued)
Permittee Revenue (January 1, 2024 through December 31, 2024)

Permittee	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Totals 2024	% of TOTAL
City Of Banning	\$ 279,701	\$ 12,719	\$ 21,790	\$ 4,236	\$ 10,902	\$ 838,359	2.37%
City Of Beaumont	297,378	7,107	0	25,987	49,917	1,408,621	3.98%
City Of Calimesa	0	17,654	0	0	59	20,459	0.06%
City Of Canyon Lake	4,358	0	0	8,716	0	31,983	0.09%
City Of Corona	21,361	13,805	396,967	44,410	3,141	875,272	2.48%
City Of Eastvale	10,902	40,654	33,890	26,411	66,449	1,089,823	3.08%
City Of Hemet	100,315	1,030,268	7,802	36,798	8,661	2,009,692	5.68%
City Of Jurupa Valley	73,673	85,821	95,544	140,008	69,728	1,577,243	5.68%
City Of Lake Elsinore	127,665	21,577	4,358	102,937	8,716	1,459,983	4.46%
City Of Menifee	442,879	140,592	330,809	421,364	437,676	3,060,937	8.66%
City Of Moreno Valley	173,107	152,530	176,972	38,376	1,046,519	2,777,003	7.85%
City Of Murrieta	94,893	1,918	0	0	11,036	1,267,046	3.58%
City Of Norco	10,669	3,561	8,463	0	939	57,734	0.16%
City Of Perris	972,744	226,616	43,458	361,836	67,664	3,140,754	8.88%
City Of Riverside	152,984	133,931	158,097	224,096	166,118	2,882,734	8.15%
City Of San Jacinto	226,037	119,391	160,487	0	56,654	1,100,077	3.11%
City Of Temecula	23,455	63,602	39,906	29,072	128,607	158,218	.45%
City Of Wildomar	0	8,716	34,864	21,790	0	481,975	1.36%
County Of Riverside	843,762	612,681	824,144	1,003,380	708,995	11,124,984	31.46%
Totals	\$3,855,883	\$2,693,143	\$2,337,551	\$2,489,417	\$2,841,781	\$35,362,897	100.00%

7.0 MANAGEMENT ACTIVITIES

7.1. RCA Management Activities

In 2024, the RCA Reserve Management and Monitoring Manager established land management priorities in collaboration with MSHCP Reserve Management Unit staff. The following outlines the 2024 priority management activities:

- Controlling unauthorized public access (patrol, fences, gates, signage, trash removal, etc.).
- Maintaining acquired lands in conditions similar to or better than when acquired.
- Removing non-native invasive species and restoring natural habitat using chemical and mechanical weed control and seeding, planting, transplanting, and passive restoration.
- Conducting fire abatement activities in compliance with County Ordinance 695 or ordinances and policies of other jurisdictions as applicable to the location of the land.

7.2. Reserve Management Units

The MSHCP contemplated five conceptual management units (refer to *Figure 5-1* of the MSHCP [Volume 1]). After Plan adoption, the Reserve Managers created a more detailed breakdown of the management units depicted in the MSHCP. To manage the entire 500,000-acre Reserve in an effective and efficient manner once assembled, it was necessary to divide the MSHCP's five management units into more manageable sizes. The current nine Reserve Habitat Management Units (HMU) are shown in *Figure 7-1, Location and Distribution of the Nine Reserve Habitat Management Units*. Although the U.S. Forest Service (Forest Service) Units are part of the 500,000-acre Reserve, they are not assigned a MSHCP Habitat Management Unit because the management of Forest Service lands is dictated by their Land Management Plans.

The MSHCP Management Team has completed management plans for Cactus Valley, Gavilan, and Sage HMUs and the draft management plan for the Meniffee HMU which acts as the “blueprint” for management of the Meniffee HMU. The management plans identify habitat and vegetation management methodologies (e.g., burning, mowing, grazing, herbicides, hand clearing or thinning), and species-specific management needs.

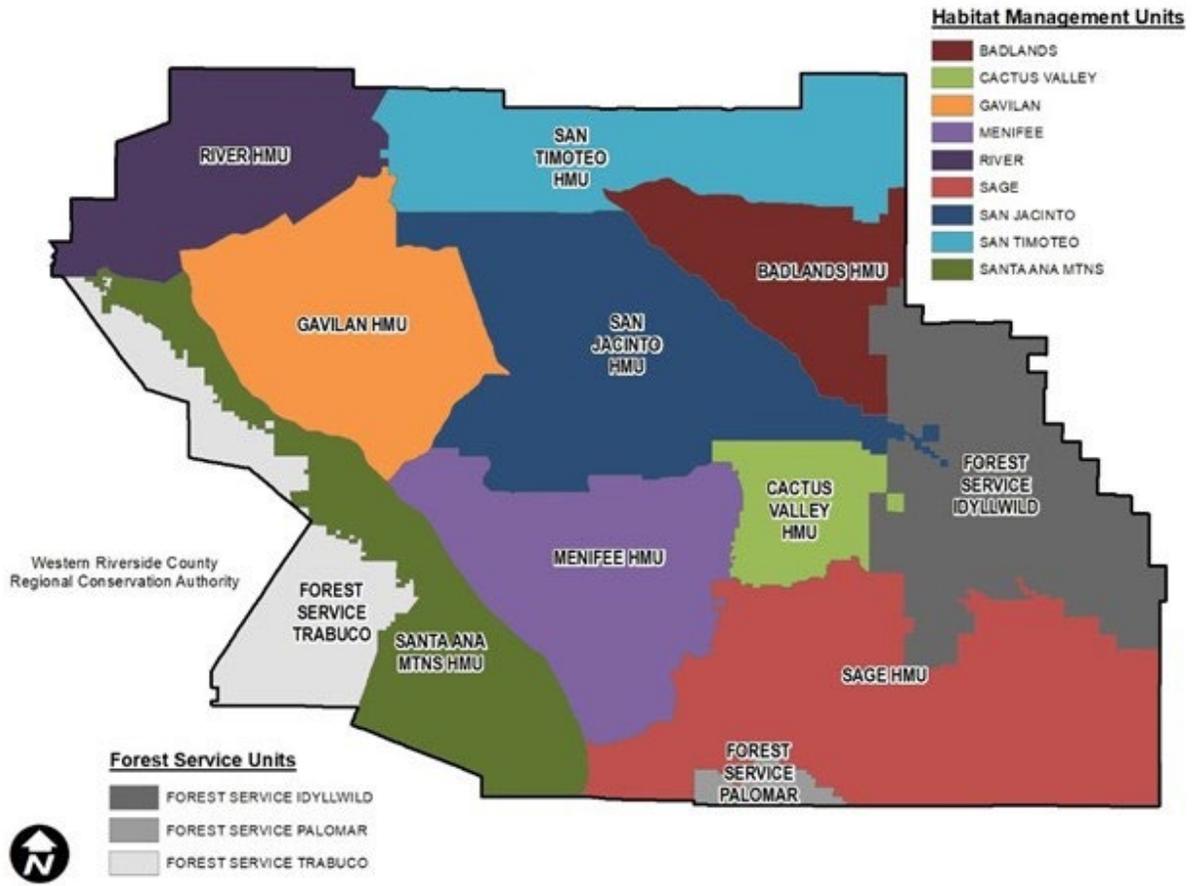


Figure 7-1. MSHCP Reserve Habitat Management Units.

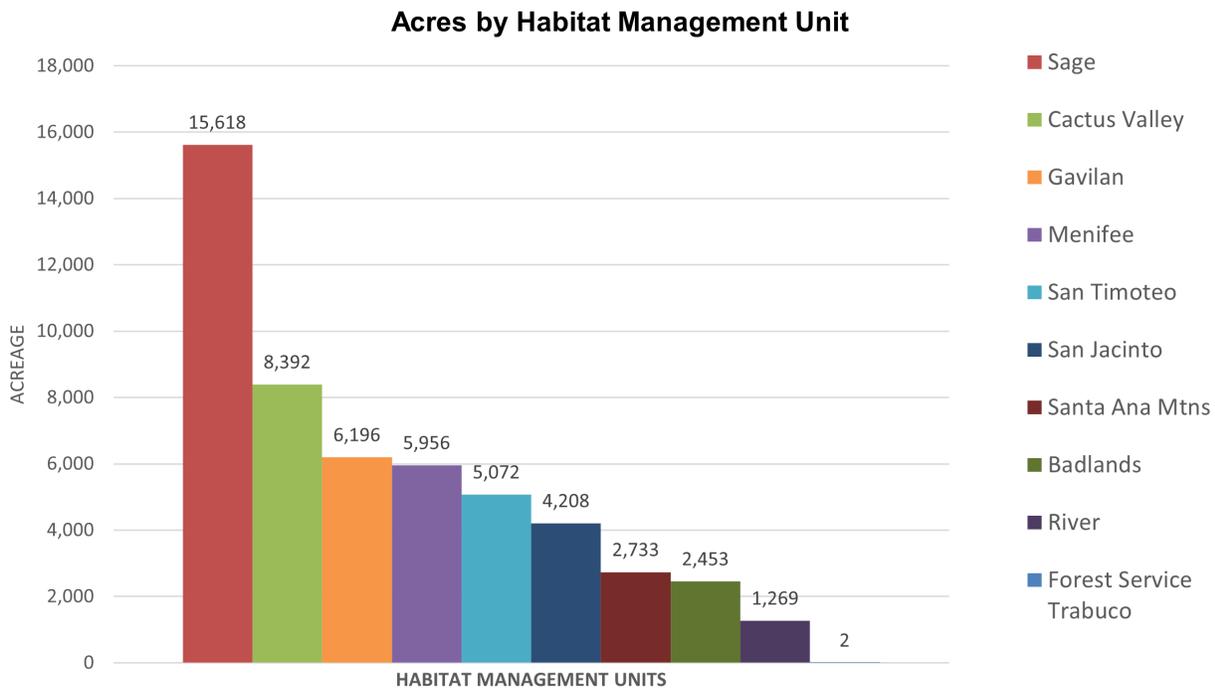


Figure 7-2. MSCHP Reserve Area Managed by the RCA by Habitat Management Unit through 2024.

Through 2024, the Reserve Management Unit oversaw approximately 1,266 individual parcels (524 properties) totaling approximately 51,899 acres (Figure 7-2). As the Reserve in each management unit is assembled and the Reserve becomes increasingly contiguous, management activities will become more cohesive and streamlined to implement.

7.3. Reserve Management Staffing

The RCA contracts with Riverside County Regional Park and Open-Space District (Parks District) for Reserve land management. The RCA Reserve Management and Monitoring Manager oversees the Parks District team (Reserve Management Unit) for the RCA. The Parks District Reserve Management Unit in 2024 had eleven full time personnel assigned to the RCA program. The Reserve Management Unit included a Natural Resources Manager who oversees all MSHCP land management services; two Natural Resource Specialists who perform a variety of resource-related tasks, including the evaluation or assessment of newly acquired MSHCP lands; one Parks Ranger Supervisor who oversees day-to-day field operations of Parks Rangers; one Parks Maintenance Supervisor who oversees day-to-day field operations of Parks Maintenance Workers; three Parks Rangers; and three Parks Maintenance Workers.



7.4. RCA Managed Properties

Twenty-four properties totaling approximately 2,397 acres were added to the RCA-managed Reserve in 2024 (Table 7-1; Figure 7-3). The Reserve Management Unit manages land that the RCA holds either in fee title or in a conservation easement and in most cases, these lands are classified as Additional Reserve Lands (ARL). Some ARL, however, are owned and managed by outside entities (e.g., Riverside-Corona Resource Conservation District). Through a Memorandum of Understanding, the RCA continues to work with these ARL-owning entities to ensure Reserve properties are managed in accordance with the MSHCP.

Table 7-1
RCA-Managed Properties Added to the Reserve in 2024

Closing Date	Property Name	Acres
1/3/2024	LAKEVIEW RANCH	165
1/12/2024	VALLEY WIDE RECREATION	46
1/11/2024	LA LAGUNA LAND SWAP	3
1/31/2024	JARPD (STATE JURUPA MOUNTAIN GRANT)	53
2/7/2024	JARPD (RCA)	20
2/7/2024	B CANYON 2	670
2/27/2024	CAL TRANS HWY 79	21
3/8/2024	WOLFSKILL	642
3/21/2024	DIAMANT VALLEY DONATION	39
4/4/2024	RANCHO CARDENAS NON DEV HANS	198
4/29/2024	SAMRITH	20
6/17/2024	SSR INVESTMENT COMPANY (SSR153)	152
6/21/2024	BAZAR (JPR 23-09-19-01)	41
7/31/2024	SSR 39	39
7/31/2024	JOHNSON ACQUISITION	10
9/16/2024	SCE ALBERHILL DONATION	47
8/26/2024	TSENG (BACK BASIN)	3
10/4/2024	PHYLISS (BACK BASIN)	22
10/16/2024	AMPARAN DONATION	20
11/15/2024	GURROLA	118
12/13/2024	NICHOLS RD ASSEMBLAGE	34
12/16/2024	ROME HILL (BACK BASIN)	12
12/24/2024	HALEY	19
12/31/2024	DARBY (BACK BASIN)	3
	Total*	2,397

* Total may not add up due to rounding.





Figure 7-3. *The Wolfskill property (left) and the B Canyon 2 property (right) were among the properties acquired in 2024.*

7.5. Property Assessments

The RCA conducts property assessments on all potential acquisitions. Following appraisals and negotiations, the RCA requests a site inspection by the Reserve Management Unit to identify potential issues that could prevent the RCA from taking fee title or managing the property consistent with the MSHCP. Such issues include significant trash, encroachments from neighboring parcels, hazardous materials or other health and safety issues, and threats to wildlife (Figure 7-4). The Reserve Management Unit also inspects the property to determine whether the property corners have been clearly staked and marked. When such issues are observed, the information is relayed to the RCA so the issues can be resolved prior to acquisition or during negotiation with the seller. If no issues are identified during the inspections, the RCA is informed, and the acquisition can be completed. Once an acquisition is finalized, the Reserve Management Unit assumes management of the property. In 2024, the Reserve Management Unit inspected 18 potential new properties totaling approximately 539 acres.



Figure 7-4. Typical issues discovered and remediated during a property's pre-acquisition phase; a private property encroachment at the Darby Back Basin property (left) and illegal dumping at the PLH property (right).

7.6. Habitat Protection and Site Security

The Reserve Management Unit commits significant resources to protecting Reserve Lands from human activities that degrade or destroy habitat. Measures to protect plants and wildlife and limit habitat degradation include fences, gates, fuels reduction, weed abatement, and increased Reserve Management Unit Ranger patrol during sensitive life cycle periods of certain species (e.g., Burrowing Owl [*Athene cunicularia*] during the breeding season; or wildflower blooming season). Most Reserve Management Unit efforts were spent on these endeavors during 2024.

In general, pursuant to the requirements of the MSHCP, passive public recreation such as hiking, running, birdwatching, and mountain biking is allowed on existing trails. Equestrian use of existing trails is also allowed on RCA lands that supported such activity at the time of acquisition. Motorized access or recreation (e.g., off-highway vehicles [OHV]), hunting, shooting, archery (unless authorized by the RCA), trail creation, camping, fires, and activities or use of devices with the potential to cause wildfire are not permitted.

A considerable portion of management efforts continued to be devoted to the establishment and maintenance of access controls in areas with significant unauthorized use. Such areas during 2024 included the Oak Valley Partners, Flemming French Valley, and Wilson Creek properties. In 2024, Reserve Management Unit staff fabricated and installed 0.65 miles of new fencing across 10 different properties. Seven gates were fabricated in-house and were installed by staff.

Enforcement during 2024 continued to focus on patrol for the interdiction of frequent unauthorized

uses such as OHV, illegal dumping, homeless encampments, and target shooting. A substantial amount of time was also devoted to patrolling unauthorized trail systems, often created by mountain bikers, and the interdiction of illegal marijuana grows on RCA-owned Reserve Lands.

The implementation of effective interdiction and gaining cooperation from OHV users continues to be difficult (Figure 7-5). In addition to establishing and maintaining OHV access controls and conducting regular patrols, Reserve Management Unit staff continued to coordinate assistance with external entities. With regards to OHV activity, Reserve Management Unit Ranger staff sought help from, and provided support to, Parks District Rangers (Open-Space Unit), the Riverside County Sheriff's Department, local law enforcement agencies, and Bureau of Land Management (BLM). These entities grappled with the same illicit activity within their own jurisdictional lands. In 2024, Reserve Management Unit Ranger staff contacted 327 OHV riders on or approaching RCA-owned Reserve Lands. In general, time was spent informing the riders of property boundaries, the MSHCP, and the prohibition of OHVs in western Riverside County (County Ord. 529), then escorting the riders out of the area. Contact was unsuccessful with 31 individual riders who evaded Reserve Management Unit Rangers when approached.



Figure 7-5. An OHV rider being contacted by an MSHCP Reserve Management Unit Ranger at the Wilson Creek property (left) and a fence extension being installed by Reserve Management Maintenance Workers to block an OHV gate go-around at the Lin property (right).

Illegal dumping continues to be a major issue on RCA-owned Reserve Lands and requires considerable resources to address (Figure 7-6). In 2024, an estimated 33.44 tons of trash was removed from RCA-owned Reserve Lands by staff and taken directly to County-managed waste facilities or deposited in Parks District dumpsters. Of this, 6.88 tons was associated with homeless encampments, 24.10 tons was associated with illegal dump sites and roadside litter, and 2.36 tons was associated with illegal Cannabis grow sites. The amount of refuse removed from RCA-owned Reserve Lands increased from 2023 by 9.19 tons, from a total of 24.26 tons of refuse removed in 2023. In addition to refuse hauled away for proper disposal, Reserve Management Unit staff removed or recovered three stolen or abandoned vehicles, four dumped watercraft, and 275 gallons of hazardous materials from RCA-owned Reserve Lands in 2024.



Figure 7-6. Homeless encampment refuse being removed from a remote location at the JARPD (State Jurupa Mountain Grant) property (left) and a trespass Cannabis grow cleanup at the Cordova Phase 2 property (right).

Homeless encampments on RCA-owned Reserve Lands are quickly addressed after discovery by the Reserve Management Unit to prevent them from becoming well established. These encampments were usually located in sensitive riparian habitat due to the natural cover that it provides. Negative impacts associated with these camps include massive amounts of trash, vegetation removal, water contamination, and increased risk of wildfire from cooking heating elements and campfires. In 2024, 37 active and abandoned homeless camps were located, cleared of occupants, and/or cleared of refuse. This was an increase from 25 encampments cleared by staff in 2023.

In July 2023, the RCA acquired the Lakeside property in Temescal Valley. The property surrounds Lee Lake and included infrastructure that supported recreational fishing, including four prefabricated buildings with additions, a tractor trailer, and a large accumulation of stored building materials and other refuse. The site appeared to be appealing to vagrants and the buildings were targeted for forced entry and copper salvaging not long after the former tenants left the property in early 2024. In late 2024, Reserve Management staff began demolishing the buildings and disposing of refuse at the site (Figure 7-7). Reserve Management Maintenance Worker staff used a large excavator to demolish the buildings on the property and filled two 40-yard containers with debris. The Reserve Management Unit took an additional 27 dump truck or dump trailer loads of refuse from the property to a nearby land fill. Although the work to clear debris from the site was ongoing at the end of 2024, the bulk of the demolition and subsequent cleanup had been completed, resulting in removal of 81.30 tons of refuse.



Figure 7-7. Building demolition (left) and cleanup (right) of the Lakeside property.

7.7. Management Activity Data Sheets (MADS)

In 2024, Reserve Management Unit staff continued to document remedial actions taken on RCA-owned Reserve Lands impacted by vandalism or unauthorized activity using Management Activity Data Sheets (MADS). Mapped results depicted known hotspots and allowed Reserve Management Unit Ranger and Maintenance staff to respond accordingly. Reserve Management Unit staff submitted 172 MADS in 2024. The following incidents were documented with MADS and in weekly reports and corrected or addressed: 34 dumping issues, 156 incidents of damaged fencing, 144 incidents of gate or lock damage, 38 target shooters, five RCA property encroachments (totaling 2.49 acres), and one trespass cannabis grow (1,600 plants across two acres).

Prohibited OHV activity has caused substantial negative impacts on RCA-owned Reserve Lands because of physical damage caused to habitat, fences, and gates. This disturbance dissuades wildlife use of Reserve Lands, including use by MSHCP Covered Species. Of the 172 MADS recorded, 64 were associated with OHV activity, such as gates and fencing that were destroyed for the unauthorized ingress and egress to the properties, and new trails and jumps that were illegally created. Direct contact and escorted egress of OHV users occurred regularly; however, Reserve Management Unit Rangers were not always able to make direct contact, either because the OHV user fled, or because the use occurred when Reserve Management Unit Rangers were not present.

7.8. Management Coordination

Successful management of the Reserve requires coordination among the multiple entities involved. The Santa Ana Watershed Association (SAWA)-lead monthly MSHCP Management and

Monitoring meetings continued to provide an important venue for communication and collaboration between non-RCA and RCA land management entities. These meetings covered topics regarding land management within the boundaries of the MSHCP Plan Area. The meetings also provided a platform for relevant research topics to be presented. Since inception of the Reserve Management and Monitoring group, the meetings have grown to include members from local to national land management agencies, including the USFWS, U.S. Forest Service, BLM, California Department of Fish and Wildlife, California Department of Forestry and Fire Protection, California Department of Parks and Recreation, Center for Natural Lands Management, other non-profit entities, and other relevant organizations (e.g., colleges and universities). Together, this group discussed a myriad of management and monitoring issues, and shared information on experiences resolving these issues.

Reserve Management Unit staff also attended monthly meetings with the RCA and Biological Monitoring Program staff to discuss monthly activities, seek input on management issues, and coordinate field evaluations for RCA acquisitions. Additionally, Reserve Management Unit staff meets internally monthly to discuss current projects, new acquisitions, safety, and to coordinate management activities.

Collaborative partnerships between the Reserve Management Unit and external organizations continued to be developed and fostered for the benefit of mutually important natural resources. In 2024, these partnerships included (1) collaborating with the City of Lake Elsinore and County of Riverside Emergency Management Department to address potential public safety and habitat damage concerns related to a possible California Poppy (*Eschscholzia californica*) super bloom in Lake Elsinore; (2) developing and executing a joint volunteer outreach event with the Rivers and Lands Conservancy to thin California Buckwheat (*Eriogonum fasciculatum*) in Delhi Sands Flower-loving Fly (*Rhaphiomidas terminatus abdominalis*) habitat; (3) collaborating with University of California Agriculture and Natural Resources staff to investigate tailored herbicide treatments for specific non-native weeds and habitat types; (4) collaborating with the San Diego Natural History Museum on their Burrowing Owl prey base study at the El Sol Vineyard Hill Donation and Nuevo Donation properties; (5) coordinating with the project team to continue to manage habitat for a Burrowing Owl translocation from an Ontario, California industrial project site to the Nuevo Donation property; (6) collaborating with the California Department of Fish and Wildlife Cannabis Enforcement Program to halt and remove a two-acre illegal cannabis grow site at the Cordova Phase 2 property; and (7) facilitating an ongoing San Bernardino Kangaroo Translocation study by the San Diego Zoo Wildlife Conservation Alliance at the RCA San Jacinto River Ranchos Meadows At Lone Cone property.

Reserve Management Unit staff attended several symposiums, conferences, and working groups to stay abreast of current knowledge of plants, animals, native ecology, and novel land management strategies. Professional conferences and working groups allow for the dissemination of, and collaboration on, the newest science and developments within their respective subjects. In 2024, staff attended and presented

at the San Jacinto Valley Region Alliance Symposium and National Habitat Conservation Planning Coalition conference, and attended the Western Section of the Wildlife Society Conference, California Native Plant Society Meeting, Santa Ana River Science Symposium, California Society for Ecological Restoration Conference, an annual Delhi Sands Flower-loving Fly Working Group meeting, a Quino Checkerspot Butterfly Workshop, San Bernardino Kangaroo Rat Working Group meeting, the Park Rangers Association of California Conference, Southern California Fire Resource Advisor (READ) Cohort Meetings, and the World Ag Expo.

7.9. Habitat Enhancement

In 2024, the Reserve Management Unit continued efforts to enhance disturbed habitats at RCA Reserve properties. Activities included new active restoration projects and research experiments, long-term management of existing restoration projects, and an assortment of other habitat management activities that directly benefit the MSHCP's Covered Species and habitats. In 2024, Reserve Management Unit staff conducted active invasive plant control on 130.3 acres of Reserve Lands in addition to other forms of active habitat management. Some highlighted projects are described below.

Post-fire Cholla Cactus Salvaging and Planting

In late 2023, the 2,487-acre Highland Fire affected several RCA properties in the Aguanga area. While surveying impacts of the fire shortly after it was contained, several Cholla (*Cylindropuntia sp.*) cacti were found to have been crushed during fire suppression activities. Since one of the chief concerns of the fire was its potential to negatively affect occupied Cactus Wren (*Campylorhynchus brunneicapillus*) habitat, an opportunity was seen to salvage the impacted cacti and use it to re-establish Cactus Wren habitat. Reserve Management staff assessed areas within the burn scar where Cactus Wren had been documented in the past, and one location in the eastern portion of the Wilson Creek property was identified as a good candidate to restore with cactus. This area previously contained a large stand of cactus, where Cactus Wren had been detected in 2011, and was found to have burned with high severity. All cacti in the area appeared to have been killed in the fire and only charred skeletons remained.

In late 2023, all Cholla that had been found impacted by suppression activities were gathered and stockpiled near the burnt stand of cactus, and in January of 2024 Reserve Management staff collected the salvaged cactus and hiked 0.5 miles into the burnt cactus stand. Using a gas-powered auger to drill holes in the soil for planting, the crew planted approximately 500 salvaged Cholla cuttings throughout the former cactus stand area (Figure 7-8).

In November 2024, the planted cuttings were checked. Survivorship of the planted cuttings was found to be low with an estimated survival of only about 20% of the cuttings. Surprisingly several of the

remaining burned cactus individuals amongst the cuttings, which had been assumed to have been killed by the fire, were found to be sprouting back from their roots. The combination of surviving and planted cacti will hopefully provide suitable Cactus Wren habitat as they mature in the years to come.



Figure 7-8. Reserve management staff planting salvaged Cholla cuttings into the Nixon Fire burn scar at the Wilson Creek property.

Non-native Animal Removals for the Benefit of Western Pond Turtle (*Clemmys marmorata*)

The Reserve Management Unit continued efforts to reduce the pressure of non-native aquatic animal predators on Western Pond Turtles in French Valley Creek, with additional evidence that the work has had its intended effect. Intensive monitoring of Pond Turtles by Reserve Management Natural Resource Specialist staff in the early 2010's found a moderate sized population of Pond Turtles within French Valley Creek. Unfortunately, no young Pond Turtles were detected, suggesting that the population was not successfully recruiting new individuals. The creek was home to several non-native aquatic animals that depredate young Pond Turtles, and it was postulated that they were consuming all young Pond Turtles before they had a chance to mature.

Beginning in the mid 2010's, the Unit began targeting non-native Red Swamp Crayfish (*Procambarus clarkii*), American Bullfrog (*Lithobates catesbeianus*), Green Sunfish (*Lepomis cyanellus*), Yellow Bullhead (*Ameiurus natalis*), and Large Mouth Bass (*Micropterus salmoides*) for removal from French Valley Creek at the Winchester 700 Murrieta, Murrieta Marketplace, Spencer's Crossing, and Richmond America properties. Utilizing electrofishing equipment and nets,

all portions of the creek with standing water were treated the majority of years, with the goal of reducing the density of non-native aquatic predators in the creek. The non-native animal removal was conducted late summer, as targeted species are concentrated in the remaining isolated pools.

In 2024, hundreds of Crayfish and Bullfrog tadpoles, and dozens of sunfish, bass, bullhead and bullfrog adults were removed from 0.64 miles of the creek on RCA properties (Figure 7-9). While conducting the work on the Murrieta Marketplace property, a young Western Pond Turtle was incidentally captured. This young Pond Turtle was estimated to be five years old. Along with another young Pond Turtle estimated to be five years old captured by the Unit at the Richmond America property in 2022, they represent the only young Pond Turtles captured in the creek in nearly two decades of species monitoring and reserve management under the MSHCP. Both Pond Turtles would have hatched shortly after efforts began to reduce non-native aquatic predators in the creek and their survival was likely facilitated by this work.



Figure 7-9. Non-native aquatic animal removals being conducted at the Spencer's Crossing property (left) and a young Pond Turtle incidentally captured at the Murrieta Marketplace property (right) during the efforts.

Alamos Fire Dozer Line Rehabilitation and Access Controls

On the afternoon of August 2, the Alamos Fire ignited in the interior of the Rafco property. The wind driven fire was contained within hours but not before consuming 72 acres of conserved land. While most of the fire impacted the Center for Natural Lands Management (CNLM) Lincoln Ranch Preserve, a total of 12 acres of RCA lands were also affected at the Rafco properties and the Calvary Chapple of Murrieta property. Immediately after the fire, Reserve Management staff worked to secure the RCA properties and assess the damage. Several fence cuts that were made during suppression activities were located and secured at the RCA properties, and staff identified a 0.32-mile-long dozer line that was created at the Calvary Chapel of Murrieta property and a new 0.16-

mile-long access road that was created at the Rafco properties. The dozer line was successful at containing the fire; however, no effort was made to rehabilitate impacted habitat by responding agencies after the fire had been suppressed.

Typically, in such instances RCA properties that are affected by wildfires are temporarily closed to the public to allow habitats to recover to prevent potential impacts caused by public access (e.g. introduction of nonnative seeds and new trail creation). The Alamos Fire presented a unique scenario, however that made closures infeasible. The area of the fire contained a popular trail network that crisscrossed RCA and neighboring CNLM properties, and CNLM could not legally close their preserve to the public after the fire. Due to this, and that most of the fire was not on RCA property, it was decided that the RCA properties would not be closed to public, and that any issues would be addressed as they arose. It quickly became apparent that both the new access road at the Rafco properties and the dozer line at the Calvary Chapel of Murrieta property, both of which crossed several established public trails, were being used as trails by both mountain bikers and hikers.

Reserve Management staff developed and implemented a plan to prevent the establishment of new trails on the two disturbances created during the fire. Specifically, in all locations where the access road or dozer line crossed an established trail, efforts were made to discourage the public from veering off the established trail and onto the new disturbance. For the dozer line at the Calvary Chapel of Murrieta property, which crossed established trails in four locations, a combination of logs, brush, and signage were used to discourage access (Figure 7-10). At each location that a trail crossed the dozer line, Reserve Management staff utilized a CAT skid steer tractor with a grapple bucket to place large eucalyptus logs on either side of the trail (the logs had been stockpiled at the property earlier during a Southern California Edison tree removal project). Beyond the logs, staff pulled dead brush back onto the dozer line. The brush not only created a physical inconvenience for anyone who wished to travel the dozer line but also acted to make the dozer line less visually apparent. Finally, Carsonite® “Closed Trail” signposts were also placed at each trail-dozzer line interface. An altered method was utilized at the Rafco properties as no dead brush or logs were readily available. Instead, staff utilized rocks and Carsonite® signs to block access onto the access road at two locations.

The access controls were periodically checked for the remainder of the year. They were found to be intact and serving their purpose as there were no signs of the public accessing the disturbed areas.



Figure 7-10. Dozer line before (left) and after (right) closure/rehabilitation at the Calvary Chapel of Murrieta property

7.10. Lands Received through Federal Clean Water Act Section 404 Permits and Federal Endangered Species Act Section 7 Consultations

The RCA has acquired properties, either in fee title or as the grantee of a conservation easement, that are subject to special reporting requirements under the provisions of federal Clean Water Act (CWA) Section 404 permits and federal Endangered Species Act (ESA) Section 7 consultations. The monitoring, maintenance, and management activities for these properties can include:

1. Annual biological monitoring.
2. Annual removal of trash or man-made debris.
3. Annual maintenance of signage and other notification features.
4. Installation and maintenance of fences and gates.
5. Restoration of the property damaged by historical uses or prohibited activities.

The following subsections summarize the biological monitoring and management activities performed on each of the RCA properties acquired through CWA and ESA consultations. Additional information can be found in the annual MSHCP Species Reports and RCA Quarterly Reports provided to the RCA Board of Directors or where noted.

7.10.1 BFW CORONA¹

Species Monitoring

The MSHCP Biological Monitoring Program did not perform focused surveys on the property in 2024.

Management

The BFW Corona property was patrolled periodically during 2024 with no major issues to report. The property, which straddles Temescal Creek, would benefit from the removal of dense gum trees (*Eucalyptus* spp.) that dominate the property, control of herbaceous non-native plants, and planting of native riparian plant species.

¹ RC21000025; Project ID 07-014; Acquired 3/07/2007

7.10.2 DR. Horton Holding Co²

Species Monitoring

The MSHCP Biological Monitoring Program did not perform focused surveys on the property in 2024.

Management

The Rivers & Lands Conservancy (RLC) entered into an oversight agreement over the 11.10-acre Conservation Easement on December 5, 2023. Pursuant to the agreement, RLC agreed to conduct/complete “Long-Term Weed Management, Field Surveys, Control of Invasive Plant Species, Removal of Accumulated Trash, Annual Report, Owner Contract, and Endowment Reporting...within a 4-acre portion of the Property identified in the Long Term Weed Management Plan (LTWMP)”

In 2024, RLC began surveying the property for habitat conditions, completing photo documentation, contracting pre-herbicide application nesting bird surveys, and contracting with Habitat Restoration Sciences, Inc. (HRS) for herbicide treatments of non-native annual vegetation. In March, HRS treated targeted non-native weeds across 0.50 acres of the oversight area. Additional information can be found in RLC’s Annual Monitoring Report on the property.

Reserve Management Rangers periodically checked the property from its perimeter without identifying any issues. Due to the double wrought-iron fences along the property’s border with the adjacent housing development and roadway, the property was accessed infrequently by the public.

7.10.3 Elsinore Lakeview Estates and Elsinore Lakeview Estates #2 Donation³

Species Monitoring

The MSHCP Biological Monitoring Program performed Coastal California Gnatcatcher (*Polioptila californica californica*) nest monitoring at the properties. One Gnatcatcher nest at the Elsinore Lakeview Estates was documented to have successfully fledged at least one chick. During the survey efforts one Belding's Orange-throated Whiptail (*Cnemidophorus hyperythrus beldingi*) was incidentally recorded at the Elsinore Lakeview Estates #2 Donation property.

² RC21100007; Project ID 06-R01; Acquired 3/21/2006

³ RC21000012 & 29; Project ID 06-005 & 06-41; Acquired 5/3/2005 & 12/29/2006

Management

Reserve Management Unit Rangers patrolled the properties on foot approximately quarterly. Throughout 2024, a washout of the dirt access road leading to the properties had continued to successfully prohibit full size vehicles from accessing the properties. Issues that had negatively affected the property in the past (i.e., homeless encampments and dumping) continued to be nonexistent at the properties in 2024, at least in part because of the lack of vehicular access.

Although occasional unauthorized dirt bike riding continued to occur, the activity has been greatly reduced at the properties since the time of their acquisition. This is most apparent at the Elsinore Lakeview Estates #2 Donation property which, at the time of the property's acquisition, was a popular riding area. The coastal sage scrub habitat has regrown and most of the former unauthorized trails have nearly vanished. As reserve assembly continues in the area, Reserve Management Unit staff will be afforded more locations to install practical and effective access controls, which will further restrict unauthorized access to the properties.

7.10.4 Emerald Meadows⁴

Species Monitoring

The MSHCP Biological Monitoring Program did not perform focused surveys on the property in 2024.

Management

In 2024, management activities on the Emerald Meadows property (APNs 186-250-007 and 186-250-013) included occasional patrols. The only issue encountered at the property during patrols was a breached gate, which was resecured by a Reserve Management Unit Ranger.

7.10.5 EMWD San Jacinto River Conservation Easement⁵

Species Monitoring

The MSHCP Biological Monitoring Program did not perform focused surveys on the property in

⁴ RC21000031; Acquired 3/15/2007

⁵ RC21000801; Project ID 12-E05; Acquired 5/31/2012

2024; however, three Coastal California Gnatcatchers were incidentally observed utilizing the property by MSHCP Reserve Management staff and MSHCP Biological Monitoring Program staff.

Management

MSHCP Reserve Lands in the San Jacinto River Wash had second consecutive year of elevated levels of homeless encampments in 2024. As a result, the property was patrolled one to several times per week. Throughout the year, Reserve Management Unit Rangers located, cleared, and removed six camps from within the property's boundaries. After notices were given to camp occupants to remove camp items and vacate the area with ample time, Reserve Management staff cleaned up each location. In total, an estimated 1.16 tons of camp items and refuse were removed from the property. Refuse from the camps were disposed of, while important or usable items (e.g. unsoiled clothing and camp supplies, legal documents, photos, etc.) were inventoried, collected, and stored for at least 90 days to allow people to reclaim their items if desired.

Reserve Management Unit Rangers also worked to address other unauthorized uses as they arose. The property continued to see moderate OHV use, with access for the unauthorized activity occasionally gained by vandalizing the property's access controls. Gates that directly access the property were found cut open and were secured shut on three occasions and cuts to the property's fencing were located and fixed on one occasion. While OHV activity at the property appeared to have decreased substantially since its acquisition, eliminating the activity on the property has proven difficult as the river bottom itself cannot be fenced and many access points into the river bottom are beyond control of the Reserve Management Unit.

Photo point monitoring stations across the property were visited on several occasions by Reserve Management Unit Natural Resource Specialist staff to document habitat conditions over time. A continued increase in Sahara Mustard (*Brassica tournefortii*) and Stinknet at the property from previous years was noted. In 2024, Reserve Management Staff began targeting Stinknet at the property, which had formed large stands in the western portion of the property but decreased to just scattered individual plants further east. Over the course of several days, Reserve Management staff spot sprayed two large stands, totaling 9.05 acres of Stinknet in the western portion of the property (Figure 7-11). Several days were then spent searching the remainder of the property for the weed and hand pulling, bagging, and removing it when encountered.



Figure 7-11. A large stand of Stinknet being treated at the EMWD San Jacinto River Conservation Easement

Southern California Edison (SCE) restoration crews continued to restore habitat at the property damaged by SCE contactors that was discovered by Reserve Management Unit Rangers in early 2021. SCE restoration crews continued to weed non-native vegetation from the impacted areas. These efforts, combined with ground surface recontouring and vertical mulching that had occurred in the areas in 2021, and natural regrowth of damaged native shrubs, have largely made the impacted areas indistinguishable from the surrounding habitat.

7.10.6 La Laguna Specific Plan Donation⁶

Species Monitoring

The MSHCP Biological Monitoring Program did not perform focused surveys on the property in 2024; however, they did incidentally observe Coastal Western Whiptail (*Cnemidophorus tigris*

⁶ RC21000026; Project ID 18-009; Acquired 3/15/2019

multiscutatus) and Coulter's Matilija Poppy (*Romneya coulteri*) at the property while passing through it.

Management

The property was occasionally patrolled in 2024. Reserve Management staff located and cleared one homeless encampment from the property. Prior to the individual vacating the property, Reserve Management Rangers assisted the individual by contacting the Riverside County Housing Authority who began the process to find the individual housing. Once the camp was cleared, staff cleaned up scattered trash left behind at the site and repaired one cut to the property's fencing that was being used by the individual for foot access to their camp.

7.10.7 Murrieta Marketplace Donation⁷

Species Monitoring

The MSHCP Biological Monitoring Program did not perform focused surveys on the property in 2024. One Western Pond Turtle was documented at the site incidentally by Reserve Management staff.

Management

Reserve Management staff conducted electrofishing non-native aquatic animal removals from the property for the benefit of Western Pond Turtle (See Section 7.9 Habitat Enhancement section above for background and additional information).

The property was also patrolled by Reserve Management Unit Rangers occasionally with no issues to report.

7.10.8 RCTC Conservation Easement⁸

Species Monitoring

The MSHCP Biological Monitoring Program did not perform focused surveys on the property in 2024.

⁷ RC21000091; Project ID 18-012; Acquired 4/12/2019

⁸ RC21000036; Project ID 13-E02; Acquired 5/23/2013

Management

The property was inspected occasionally in 2024 by MSHCP Reserve Management Unit staff with no issues to report. The property's alkali playa habitat continued to be actively managed by a third-party restoration group as part of ongoing Riverside County Transportation Commission (RCTC) mitigation requirements.

7.10.9 Richmond American Homes⁹

Species Monitoring

The MSHCP Biological Monitoring Program did not perform focused surveys on the property in 2024.

Management

Third-party Tamarisk (*Tamarix ramosissima*) eradication commenced at the property in 2024. The project was funded through the RCA who had acquired funding from the Altair Development to mitigate for jurisdictional waters impacts at their project site in Temecula. In 2023, the RCA contracted SAWA to clear the property of the invasive tree. Throughout 2024, SAWA staff cut, treated with herbicide, and masticated scattered Tamarisk, and then retreated resprouts of the tree. Cover of Tamarisk varied greatly across the site, but a total of 0.45 acres of Tamarisk were removed and treated at the property. Additional information can be found in SAWA's annual report on the project.

Management activities by Reserve Management Unit staff at the Richmond American Homes property in 2024 included one round of weed abatement using string trimmers adjacent to residential development along the western boundary of the property, as well as adjacent to the roadside along Date Palm Street and Blue Spruce Lane. Weed abatement was limited to the removal of annual vegetation growing between established shrubs. The property was also patrolled one to two times quarterly with no issues to report.

7.10.10 Riverpark Mitigation Bank - Phase 1¹⁰ (Conservation Easement)

Species Monitoring

The MSHCP Biological Monitoring Program did not perform focused surveys on the property in

⁹ RC21000023; Project ID 07-011; Conservation Easement 2003-552497; RCA acquired 3/7/2007

¹⁰ RC21000106; Project ID 20-E01; Conservation Easement 2020-0090736 RCA Acquired 2/27/2020



2024.

Management

Although the property is managed by Ecosystem Investment Partners, it was occasionally checked by MSHCP Reserve Management Rangers who noted that large scale habitat manipulations were ongoing.

7.10.11 Southshore TTM 32013 Donation.¹¹

Species Monitoring

The MSHCP Biological Monitoring Program did not perform focused surveys on the property in 2024.

Management

The property was patrolled periodically during 2024. Sporadic dirt bike tracks continued to be noted on existing dirt roads within the property; however, no major issues were found.

7.10.12 Spencer's Crossing Donation.¹²

Species Monitoring

The MSHCP Biological Monitoring Program did not perform focused surveys on the property in 2024.

Management

In addition to periodic patrols of the property, Reserve Management Unit staff continued long-term management of the property's former riparian restoration area. In 2024, the treated area was expanded beyond the former three-acre mitigation area to include a two-acre buffer area around it. Despite several years of treating non-native annual vegetation at the site by the Unit, weed coverage continued to persist with little change at the site. Two new weed species were found and targeted – likely because of a combination of new seeds being deposited at the site each year via storm surges in French Valley

¹¹ RC21000027; Project ID 06-040; Acquired 12/29/2006

¹² RC21000067; Project ID 20-002; Acquired 1/21/2020

Creek and the high densities of non-native vegetation that surround the site. Regardless, over the course of two visits in spring, Reserve Management Unit staff spent a total of eight staff workdays treating a non-native vegetation with Rodeo[®] herbicide, which was applied in the property's former restoration area and a 10- to 20-foot buffer around it. Targeted species included Black Mustard (*Brassica nigra*), Five-hook Bassia (*Bassia hyssopifolia*), Maltese Star Thistle (*Centaurea melitensis*), Bull Thistle (*Cirsium vulgare*), Perennial Pepperweed (*Lepidium latifolium*), Common Sow Thistle (*Sonchus oleraceus*), and Stinknet.

Reserve Management staff also conducted electrofishing to remove non-native aquatic animals from the property to benefit Western Pond Turtle (See Section 7.9 Habitat Enhancement section above for background and additional information).

7.10.13 Spring Mountain Ranch Donations PA5¹³

Species Monitoring

The MSHCP Biological Monitoring Program did not perform focused surveys on the property in 2024.

Management

Reserve Management Unit staff patrolled the property at least monthly during 2024 with little issues to report. Construction of the neighboring Spring Mountain Ranch housing development neared completion. The entire area, including the property itself, continued to be heavily impacted by large numbers of feral Donkeys (*Equus asinus*).

7.10.14 TET Sedco Hills Conservation Bank¹⁴

Species Monitoring

The MSHCP Biological Monitoring Program did not perform focused surveys on the property in 2024.

Management

In 2024, management activities at the TET Sedco Hills Conservation Bank property were limited to

¹³ RC21000021; Project ID 18-004; Acquired 1/26/2018

¹⁴ RC21000036; Project ID 09-001; Acquired 03/31/2009

one to two patrols quarterly. Three cuts to fencing blocking OHV access into the property at the neighboring RCA Nelson property were repaired.

Evidence of a history of heavy OHV use at the property continues to fade away in most areas as vegetation continues to grow back on old trails. Still, frequent unauthorized dirt bike activity persisted. The problematic nature of dirt bikes at the property stems from the rugged topography, local and entrenched OHV use in the area, and a lack of vehicular access into the most interior areas and distant boundaries of the property by Reserve Management Unit Rangers. Additional OHV access controls in remote areas abutting private property are being considered to further reduce the activity on the property.

Several abandoned cars and old household refuse remain in place at the old house site in the far southern portion of the property. Due to inaccessibility, the former house site cannot be cleaned because no legal access routes exist, and efforts to approach a neighboring private landowner for permission to access the area have been unsuccessful.

7.10.15 Teledyne/Mira Loma¹⁵

Species Monitoring

The MSHCP Biological Monitoring Program conducted Delhi Sands Flower-loving Fly (Delhi Fly) line-distance transect surveys at the property. Presence and reproduction of Delhi Fly at the site were confirmed in 2024. Although the Delhi Fly population density at the site had decreased from a record high in 2023, the species was found to be occupying the site at above average levels.

Several MSHCP Covered Species were incidentally documented using the property during monitoring and management activities. These included Coastal Western Whiptails (*Cnemidophorus tigris multiscutatus*), Northern Red-diamond Rattlesnakes (*Crotalus ruber ruber*), and a Peregrine Falcon (*Falco peregrinus*).

Management

Reserve Management Unit staff continued the Delhi Fly restoration and habitat improvement project at the property. Work completed on the site in 2024 was similar to recent year's efforts and included

¹⁵ RC22100001; Project ID 03-013; Conservation Easement 2007-0514161; Recorded 8/09/2007; Conservation Easement 2008-0056649; Recorded 2/05/2008

maintenance of open non-vegetated areas with a four-wheel all-terrain vehicle and harrow on two miles of paths created in previous years across the entire site; and hand tool weeding of eight acres of the upper dunes to remove selected non-native plants, mainly Short-pod Mustard (*Hirschfeldia incana*), Sahara Mustard, and Golden Crownbeard (*Verbesina encelioides*) prior to the production and setting of seeds, and young California Buckwheat that had begun to encroach on the open habitat in the upper dunes. Targeted non-native species continued to decrease in overall coverage at the upper dunes due to several years of being eradicated prior to seed setting and required less control effort than in previous years as a result of the reduced presence.

Reserve Management staff also focused their attention on shrub vegetation. In the northwestern section of the property, mature California Buckwheat had become so dense that an area that had formerly been a hot spot for the Delhi Fly was at risk of no longer supporting the species. As a result, the Reserve Management Unit began efforts to thin the shrubs in the area, aiming to reduce it to approximately 50% cover (Figure 7-12). Two days were spent at the site to accomplish this task, once in January with four Reserve Management staff members and another in October with three staff members, four Youth Conservation Core members, one volunteer, and one RCA staff member. The latter was part of a joint RCA and RLC volunteer outreach event. During both visits, crews thinned mature Buckwheat by pulling them from the ground with chains, hauling the shrubs and raked leaf litter to a trailer, and disposing of the vegetation offsite. In total, approximately 2.6 tons of Buckwheat were cleared within a quarter of an acre of the property.



Figure 7-12. Mature California Buckwheat being thinned (left) and hauled away (right) from the Teledyne property.

The property was patrolled approximately monthly by Reserve Management Unit Rangers. In May, Reserve Management staff found and worked to close a new, unauthorized 200-foot-long mountain bike connector trail that was under construction. On the new trail, and on the adjacent old trail, several new soil, rock, and sandbag features had been built. All features were torn down, 32 sandbags were removed, and the new trail was posted with “Closed Trail” signage. Throughout the year, Reserve Management Unit Rangers found and repaired cuts to locks and chains of the property’s gates on six occasions and repaired two fence cuts.

7.10.16 Toscana Donation Phase 1 and Phase 3¹⁶

Species Monitoring

The MSHCP Biological Monitoring Program did not perform focused surveys on the property in 2024.

Management

The properties were patrolled by Reserve Management Rangers approximately monthly with no issues to report. Riversidean alluvial fan sage scrub and riparian restoration that had occurred on the Toscana Phase 1 property as mitigation for the neighboring Terramor Development, which achieved its restoration success criteria goals and received Wildlife Agency concurrence in 2024. The restoration areas and existing neighboring habitats of the same types contained a healthy assortment of native shrub and tree species, which showed little to no sign of stress or adverse impacts.

¹⁶ RC21000094; Project ID 17-036 and 18-35; Acquired 12/20/2017 and 12/14/2018

7.11. Future Management Activities

Major goals and tasks for 2025 include:

- Plan and implement vegetation control measures, including prescriptive burns (if permitted), herbicide, grazing, and mechanical means to protect particularly sensitive habitats and species.
- Make concerted efforts to address encroachments onto RCA Reserve Lands.
- Maintain patrol and maintenance efforts.
- Purchase and install fencing and other access controls, such as k-rails and/or boulder fences.
- Perform necessary infrastructure improvements to reduce erosion, maintain access, etc.
- Continue to actively manage habitat at Burrowing Owl translocation sites.
- Continue and increase cooperation and coordination with local law enforcement entities.

8.0 BIOLOGICAL MONITORING ACTIVITIES

8.1 Goals and Objectives

The overall goals of the Biological Monitoring Program (Monitoring Program) are to collect data on the 146 Covered Species and associated vegetation communities over the 500,000-acre Conservation Area to assess the MSHCP's effectiveness at meeting conservation objectives and to provide useful information to Reserve Managers in an adaptive management context. The MSHCP (*Volume 2, Species Accounts*) includes species-specific objectives that are intended to provide for the long-term conservation of all Covered Species. Species objectives direct the type and intensity of monitoring that is conducted by the Monitoring Program on an annual basis. Management decisions or actions are triggered if species objectives or MSHCP conservation goals are not met.

8.2 Inventory Phase and Long-term Monitoring Phase

Because there was little existing science-based data for the majority of Covered Species when the MSHCP was permitted, the Monitoring Program is being implemented in two phases: an initial Inventory and Assessment Phase (Inventory Phase) and a Long-term Monitoring Phase. The purpose of the Inventory Phase is to determine where Covered Species occur within the Conservation Area, to gather more information on their habitat preferences and life history (e.g., seasonal activity, reproduction requirements), and to develop efficient survey protocols for species detection. The development of science-based survey protocols is necessary to standardize data collection, to test the reliability of survey methods, to determine feasible and useful monitoring metrics, and to provide a confidence level that unobserved species are truly absent at the survey location, rather than being overlooked.

The transition from Inventory Phase to Long-term Monitoring Phase has been gradual. For species with shorter survey intervals and reporting requirements, such as Quino Checkerspot Butterfly (*Euphydryas editha quino*; annual) or Coastal California Gnatcatcher (*Polioptila californica californica*; every three years), long-term monitoring is already in place. Multiple surveys for species with shorter survey intervals and reporting requirements have been conducted, providing the initial data for population trend assessment. For species with longer survey intervals and reporting requirements, such as Los Angeles Pocket Mouse (*Perognathus longimembris brevinasus*; every eight years), and with species-specific monitoring objectives requiring significant development and testing, the transition from Inventory Phase to Long-term Monitoring Phase is ongoing.

The transition to long-term monitoring involves developing monitoring metrics that are efficient to collect and are robust measures of species status and population trend. Along with the species-specific objectives related to monitoring, the baseline monitoring objective for most Covered Species requires at least 75% of listed Core Areas or known locations to be documented as occupied at least once every eight years. Monitoring protocols that provide additional information such as relative abundance of populations at occupied locations, reproductive success, or health of observed individuals will be employed whenever possible, to provide more detailed understanding of a species' status. Monitoring Program staff have worked in collaboration with University of California Riverside Center for Conservation Biology staff to develop conceptual models of Covered Species and their habitats to help identify key population drivers and environmental stressors upon which management can act.

One significant task included in the Inventory Phase was the development of a Long-term Monitoring Strategy document, as described in Section 5 of the MSHCP (*Volume 1*). This document explicitly describes the approach taken to meet the goals of the Monitoring Program. It does not include taxa-specific monitoring protocols, which are available from the Monitoring Program by request or can be found on the RCA website at https://www.wrc-rca.org/survey_protocols/. Monitoring Program staff completed and delivered the Long-term Monitoring Strategy to the RCA and the California Department of Fish and Wildlife (CDFW) as part of a State Wildlife Grant that expired on June 30, 2012.

The Long-term Monitoring Strategy describes a two-level design that gives priority to assessing the status of Covered Species as stated in the species-specific conservation objectives of the Plan, which emphasizes the continued occupancy of MSHCP-defined Core Areas or other areas of known occurrence. For some species, the objectives require that reproduction and/or minimum densities of individuals within species Core Areas be verified. The second level extends sampling for terrestrial vertebrates to the entire Conservation Area in a cost-efficient manner. The Long-term Monitoring Strategy describes monitoring goals and objectives, sample design considerations, protocol development, data and information management strategies, collaboration and communication with other organizations, and the organizational framework of the Monitoring Program.

One of the explicit goals of the Monitoring Program is to develop efficient long-term monitoring protocols that reduce redundancies by collecting information on multiple species where possible. For example, bird species co-occurring in similar habitat (e.g., willow riparian) during the breeding season can be detected using the same survey protocols. There will always be some Covered Species that occur in isolated pockets within the Conservation Area or that are difficult to detect using standard survey protocols; for these species, a focused survey effort will always be required.

8.3 Monitoring Program Operations

The Monitoring Program is implemented within the MSHCP Conservation Area on lands that are owned and managed by the various MSHCP participants and other entities and is comprised of PQP (347,000 acres) and ARL (70,502 acres). CDFW was responsible for implementing the Monitoring Program for the first eight years of the Permit (*MSHCP Volume 1, Section 6*). To ensure consistency in monitoring efforts throughout the Conservation Area, the Monitoring Program is overseen and implemented by a Monitoring Program Administrator. Effective July 1, 2012, when the State Wildlife Grant ended, the RCA assumed all funding responsibility for the Monitoring Program with the exception of one full time position provided by CDFW serving as the Avian Lead.

In the initial years of the Monitoring Program, extensive effort was devoted to setting up operating procedures, determining budgets, establishing contracts, purchasing supplies and equipment, hiring and training personnel, acquiring land access agreements, and coordinating with Reserve Managers within the Plan Area. These processes are now largely developed and only require updating (e.g., operating procedures), renewal (e.g., expiring right of entry agreements), or training when new personnel are involved (e.g., new Monitoring Program staff or Reserve Managers).

An integrated database to make information collected by the Monitoring Program manageable and accessible is now complete. Monitoring Program datasets that have been thoroughly proofed and certified as complete by the Data Manager are submitted to CDFW's Biogeographic Information and Observation System every year, as well as to local partnering agencies and entities. The structure needed to support a long-term Monitoring Program is in place.

8.3.1 Monitoring Program Personnel

The Monitoring Program Manager (Administrator) oversees staff funded by the RCA and provided by CDFW. RCA-funded staff are provided through a contract with the Santa Ana Watershed Association (SAWA). Monitoring Program staff work together as a team to coordinate, develop, and implement required monitoring activities for the MSHCP.

At the beginning of 2024, 16 positions were filled in the Monitoring Program, 15 of which were funded by the RCA, with one funded by CDFW. Nine of these positions consisted of Taxa Leads and office-based staff, and seven full-time field biologists.

Annual staffing levels, and therefore survey effort, reflect the budget available to the Monitoring Program. Although progress continues to be made toward documenting the current status of all



146 Covered Species, the availability of resources generally determines the amount of monitoring efforts conducted annually.

8.3.2 Training

All Monitoring Program field biologists are trained on local species identification, handling, and data collection methods. Field staff are trained in identification and survey techniques for multiple taxa to provide scheduling flexibility and increase staff efficiency. Specific training provided in any given year depends on the survey activities planned; however, safety training (e.g., wilderness first aid and CPR) is provided to all staff as necessary to keep certifications current. The Monitoring Program is required to use training programs approved by the Wildlife Agencies to ensure consistent data collection, uniform implementation of protocols, safe handling procedures, and appropriate experience with Covered Species (*MSHCP Volume 1, Section 7*). Training is provided both by experienced Monitoring Program biologists and by qualified outside entities (e.g., U.S. Geological Survey, U.S. Fish and Wildlife Service). More information on species training received is presented in Appendix C – *Staff Training*.

8.3.3 Land Access Agreements and Coordination with Reserve Managers

The Monitoring Program only conducts surveys within the Conservation Area, which is composed of PQP lands and ARL. Before surveys are conducted by the Monitoring Program, permission is obtained from the appropriate landowners or managing entities to access the survey areas. Land access agreements for 2024 for Monitoring Program activities are listed in Appendix B, Table B-1, *Access Agreements and RCA Lands Surveyed in 2024*.

To facilitate land access and to better coordinate monitoring activities with management activities, Monitoring Program staff meets monthly with Reserve Managers (Reserve examples listed in Appendix B, Table B-1). At these meetings, Monitoring Program staff provide a description of current activities, including protocols and maps when relevant, and present species occurrence data and current monitoring results to the Reserve Managers. Management/Monitoring coordination meetings also feature a short presentation on a relevant topic. Speakers range from researchers at local universities, local biologists conducting similar monitoring or land management work, regulatory officials, as well as MSHCP staff presenting monitoring results. All meetings were conducted virtually on a Zoom platform. In 2024, the following presentations were hosted:

- Properly Using Artificial Cover, Placement Strategies to Increase Success Rates.
- Investigating Spatial Spread and Revegetation Strategies for Invasive Annual Grasses After Fire.



- 2023 MSHCP Project Updates.
- Clinton Keith Under - Overpasses.
- Rattling Perceptions: Exploring the Social Lives of Rattlesnakes.
- Monitoring a Vernal Pool in Southern California: Implications of Changing Weather Patterns Across Years.
- Science to Inform Efficacy of Road Crossing and Barrier Systems for Reptiles and Amphibians.
- Disentangling the Drivers of Plant Community Structure Across a Southern California Elevation Gradient.
- For the Pines They Are A-Changin': Forest Dynamics of a Montane Hardwood-Conifer Forest
- Impacts of Effluent and Invasion in the Santa Ana River.

8.4 Summary of 2024 Monitoring Activities and Evaluation of Progress Toward Achieving Measurable Objectives

The activities of the Monitoring Program are largely based on requirements of the MSHCP species-specific monitoring objectives outlined in *Section 5 and Table 9-2* of the MSHCP (*Volume I*), as well as *Volume II-B Species Accounts*. Species objectives specify time intervals for detecting and reporting on each of the Covered Species in the Conservation Area. When species objectives do not specify a time interval, the status of the Covered Species must be reported at least once every eight years. In addition to species objectives, survey priorities are influenced by the quantity and quality of information available for each species (e.g., little or poor information means greater survey effort and/or more frequently), whether another agency is already conducting surveys (less effort required by the Monitoring Program), relative ease of gathering information (e.g., Yellow Warbler detections during Least Bell's Vireo surveys), and priority of the species to the RCA, Permittees, and Wildlife Agencies (e.g., Burrowing Owl is high priority).

The Monitoring Program only addresses species objectives that must be evaluated using biological surveys. Those species objectives, along with the frequency of the reporting requirement, whether the species was detected in the past or in the current reporting year, and whether the stated objectives are met are provided in Appendix B, Table B-2, *Details of Covered Species Monitoring*. The majority (121 of 146) of the Covered Species must be reported on at least once every eight years. The remaining 25 species have reporting requirements that vary between one and five years.

The Monitoring Program has developed a timeline for the survey of Covered Species. The scheduling of surveys is approximate due to the prioritization process described above and because

survey protocols can take more than one year to complete. Modifications to the timeline are expected to occur based on the results of each year's monitoring efforts and available budget.

The 2024 reporting period represents the twentieth full survey season for the Monitoring Program. The following survey activities were carried out in 2024 by the Monitoring Program:

- Burrowing Owl Monitoring
- Coastal California Gnatcatcher Nest Monitoring
- Grasshopper Sparrow Surveys
- Arroyo Toad Surveys
- Artificial Cover Surveys
- Drift-Fence Camera Surveys
- Western Pond Turtle Surveys
- Carnivore Surveys (Moreno Valley Wildlife Undercrossing /Anza Knolls)
- Clinton Keith Overcrossing and Undercrossing Surveys (ended in June)
- Vernal Pool Surveys (Fairy Shrimp and Western Spadefoot)
- Delhi Sands Flower-Loving Fly Surveys
- Quino Checkerspot Butterfly Surveys
- Rare Plant Surveys
- Incidental Species Sightings

Detailed survey reports, including the rationale for survey protocols, a description of methods, targeted species, and survey results for Coastal California Gnatcatcher Nest Monitoring, Grasshopper Sparrow, Clinton Keith Overcrossing and Undercrossing, Quino Checkerspot Butterfly and Rare Plants are available on the RCA website at <https://www.wrc-rca.org/species-surveys>. The Delhi Sands Flower-Loving Fly survey report will now be presented every two years. Detailed reports for Western Pond Turtle and Vernal Pool surveys will now be presented upon completion of the survey period; every three and eight years, respectively. A summary is presented below for each of the remaining survey activities carried out in 2024.

Evaluation of MSHCP monitoring objectives for Covered Species occurs annually. In 2024, Monitoring Program biologists conducted focused surveys for 65 of the 146 Covered Species in the Conservation Area. Fifty-five targeted MSHCP Covered Species were detected and an

additional 47 MSHCP Covered Species were incidentally observed (Appendix B, Table B-2, *Details of Covered Species Monitoring*). In total, 102 of the 146 Covered Species were detected within the Conservation Area in 2024. These numbers are calculated based on a 30-meter buffer around the Conservation Areas that is used in creating the Species Occurrence Dataset. Since June 2004, a total of 143 of the 146 Covered Species have been detected in the Conservation Area. A map of the Conservation Area is found in Section 1.1 of this report (refer to Exhibit 1-2).

Species-specific monitoring objectives, described in the Species Accounts from Volume 2 of the MSHCP, are evaluated at the interval indicated in the “Frequency” column of Appendix B, Table B-2, *Details of Covered Species Monitoring*. Objectives that have been met previously are subject to expiration based on the date the observations were last documented relative to the required monitoring frequency. When data collected by the Monitoring Program are determined to be sufficient to meet the species-specific monitoring objectives a “YES” appears in the “Objective Currently Met” column. When data collected by the Monitoring Program indicate that the expected conservation identified in the species accounts has not been achieved, a “NO” appears in the “Objective Currently Met” column. When data collected by the Monitoring Program indicate that the expected conservation identified in the species accounts has only partially been achieved (e.g., one of two objectives), a “Partial” appears in the “Objective Currently Met” column and additional information with regards to which objectives have been met is provided. The Monitoring Program has collected sufficient data to confirm that species-specific monitoring objectives for eight MSHCP Covered Species are currently met. There are five monitoring objectives that have been partially met for Covered Species. In addition, there are 44 Covered Species meeting the MSHCP Table 5-8 objective requiring a minimum level of occupation of known locations (Appendix B, Table B-2).

According to *Section 2.1.4* of the MSHCP (*Volume I*), 118 of the 146 Covered Species were considered to be adequately conserved at inception of the Plan. The remaining 28 Covered Species will be considered to be adequately conserved when certain conservation requirements are met as identified in the species-specific conservation objectives for those species. For 16 of the 28 species, particular species-specific conservation objectives, which are identified in *Table 9-3* of the MSHCP (*Volume I*), must be satisfied to shift those particular species to the list of Covered Species Adequately Conserved. For the remaining 12 species, a Memorandum of Understanding must be executed with the Forest Service that addresses management for these species on Forest Service Land to shift these species to the list of Covered Species Adequately Conserved.

When data collected by the Monitoring Program are determined to be sufficient to meet the species-specific objectives described in *Table 9-3* of the MSHCP (*Volume I*) a “YES” appears in the “Table 9-3 Requirement Met?” column of Appendix B, Table B-3, *Status of Covered Species*



Not Adequately Conserved. When data collected by the Monitoring Program indicate that the expected conservation identified in *Table 9-3* of the MSHCP (*Volume I*) has not been achieved a “NO” appears in the “Table 9-3 Requirement Met?” column. When data collected by the Monitoring Program indicate that the expected conservation identified in *Table 9-3* has only partially been achieved (e.g., one of two objectives), a “Partial” appears in the “Table 9-3 Requirement Met?” column. The Monitoring Program has collected sufficient data to confirm that requirements listed in *Table 9-3* of the MSHCP (*Volume I*) for nine Covered Species Not Adequately Conserved have currently been met and one has been partially met (Appendix B, Table B-3). In this report, the species names used are those referenced in the MSHCP. See Appendix B, Table B-4 for updated classification of species names that have changed since Plan adoption.

8.4.1 Burrowing Owl Pair Count Monitoring

The species objectives for Burrowing Owl (*Athene cunicularia hypugaea*) require the conservation of five Core Areas, plus interconnecting linkages, containing a breeding population of 120 Burrowing Owls with no fewer than five pairs in any one Core Area. Core Areas listed in the MSHCP include Lake Skinner/Diamond Valley Lake, playa west of Hemet, San Jacinto Wildlife Area/Mystic Lake area including Lake Perris, Lake Mathews, and along the Santa Ana River. MSHCP Core Area descriptions can be found in Section 3.2.3 *Cores and Linkages within the MSHCP Conservation Area* of the MSHCP (*Volume I*).

Several Land Managers within the Conservation Area have installed artificial burrows and are managing vegetation to facilitate Burrowing Owl use of Core Areas. Reserve Managers or Biological Monitoring Program biologists check all artificial and previously occupied natural burrows at least three times each year (April, August, and December) to determine whether they are being used by Burrowing Owls, if there is burrow maintenance needed to make them hospitable, and whether nearby habitat needs to be modified or managed to further encourage use by Burrowing Owls.

During the 2024 breeding season, two Burrowing Owl pairs distributed across five monitored burrows within the Lake Skinner/Diamond Valley Lake Core Area were monitored (*Figure 8-1, Burrowing Owl Burrows Monitored in the Lake Skinner/Diamond Valley Lake Core Area During the 2024 Pair Count Surveys*). Both of these pairs showed evidence of nesting, with one pair producing at least five fledglings and the other producing at least four fledglings. Two Burrowing Owl pairs distributed across six monitored burrows within the San Jacinto Wildlife Area/Mystic Lake Core Area were also monitored in 2024 (*Figure 8-2, Burrowing Owl Burrows Monitored in the San Jacinto Wildlife Area/Mystic Lake Core Area During the 2024 Pair Count Surveys*). Both of these pairs showed evidence of nesting, with one pair producing at least four fledglings and the other producing at least two fledglings.

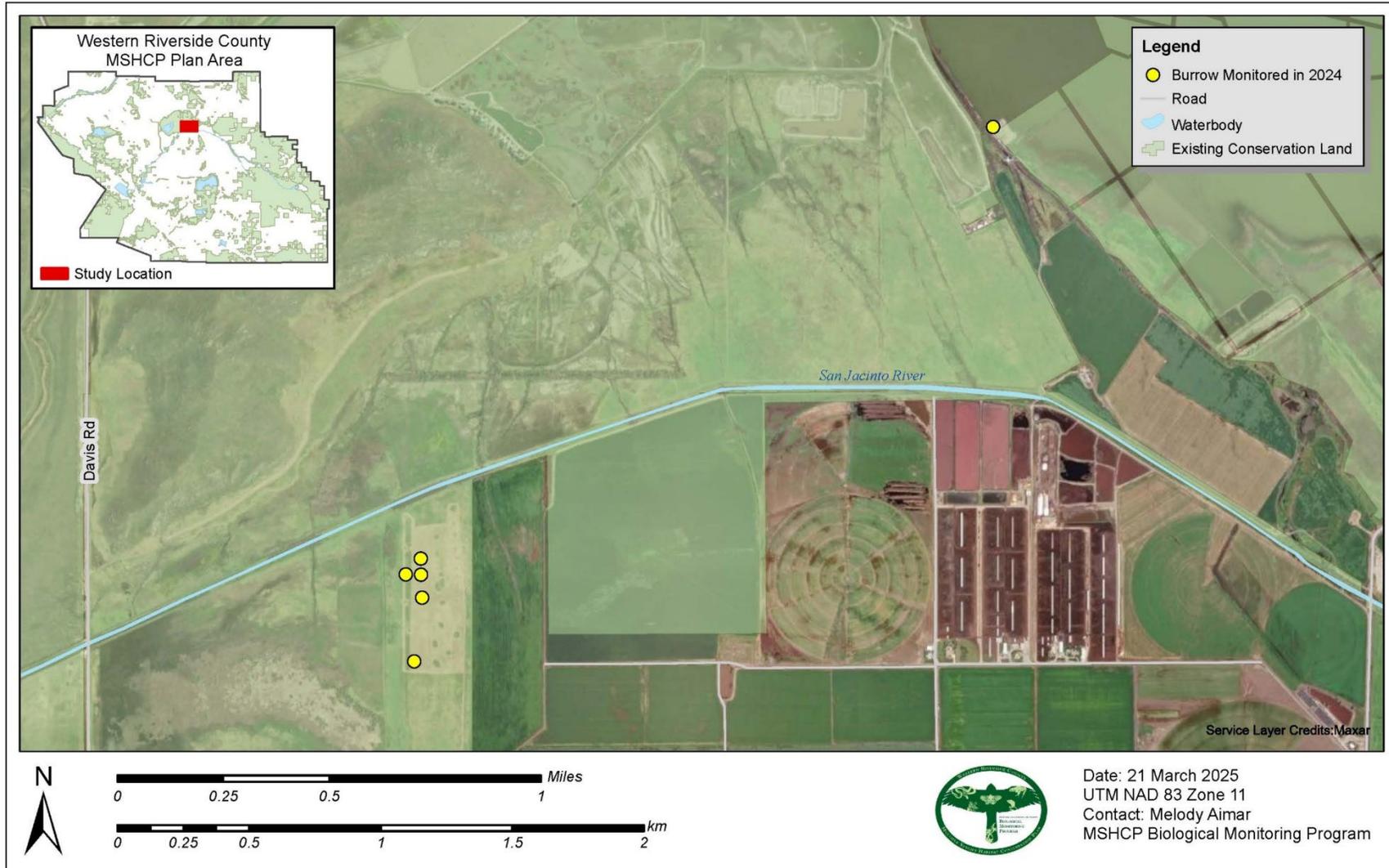
Finally, biologists with the Riverside County Regional Park and Open-Space District monitored additional burrows within the Lake Skinner/Diamond Valley Lake Core Area, specifically on the RCA's El Sol Vineyard Hill Donation property. They also monitored burrows at the RCA's McElhinney/Stimmel property, which is not within any of the MSHCP-designated Core Areas for Burrowing Owls. Results and maps of these locations will be reported separately.

Figure 8-1. Burrowing Owl Burrows Monitored in the Lake Skinner/Diamond Valley Lake Core Area During the 2024 Pair Count Surveys.



Burrowing Owl Burrows Monitored in the Lake Skinner/Diamond Valley Lake Core Area during the 2024 Pair Count Surveys.

Figure 8-2. Burrowing Owl Burrows Monitored in the San Jacinto Wildlife Area/Mystic Lake Core Area During the 2024 Pair Count Surveys



Burrowing Owl Burrows Monitored in the San Jacinto Wildlife Area/Mystic Lake Core Area during the 2024 Pair Count Surveys.

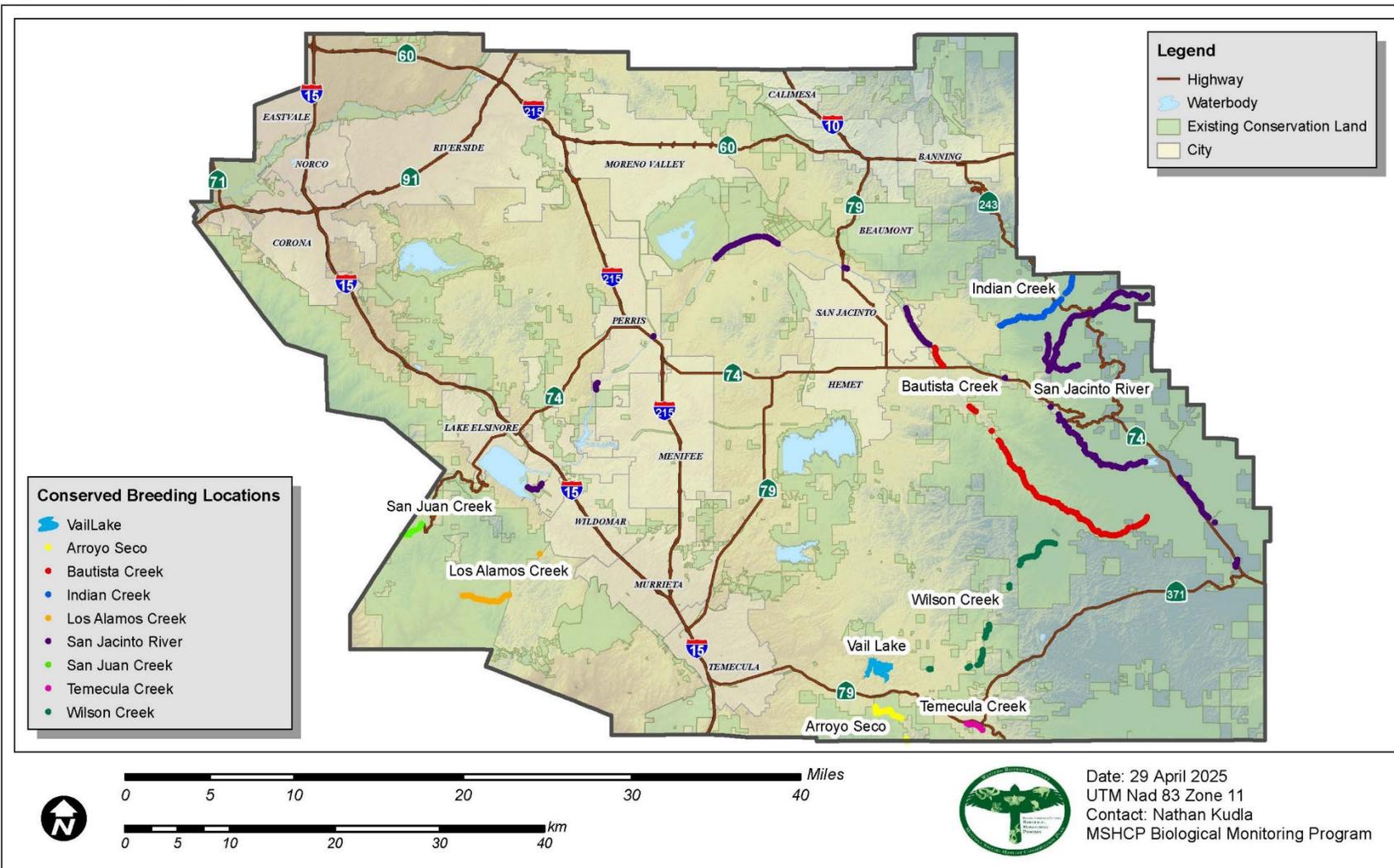
8.4.2 Arroyo Toad

The MSHCP Species Objective for the Arroyo Toad (*Bufo californicus*)¹ requires maintaining breeding populations within a minimum of 80% of the conserved breeding locations as measured by the presence of Arroyo Toad egg masses, tadpoles, or juvenile toads across any five consecutive years. There are nine conserved breeding locations including Arroyo Seco, Bautista Creek, Indian Creek, Los Alamos Creek, San Jacinto River, San Juan Creek, Temecula Creek, Vail Lake, and Wilson Creek (*Figure 8-3. Arroyo Toad Conserved Breeding Locations*). In 2024, we conducted stream surveys at the Bautista Creek conserved breeding location as Arroyo Toads have not been observed within this conserved breeding location since 2017. Additionally, there were and still are concerns pertaining to the impact of the 2022 Fairview Fire on Arroyo Toad habitat, as the fire encompassed the entirety of historic Biological Monitoring Program Arroyo Toad observations at Bautista Creek (*Figure 8-4. Arroyo Toad Survey Locations at Bautista Creek in 2024 in Relation to the 2022 Fairview Fire Area.*).

To conduct surveys, we followed the 2024 Western Riverside County MSHCP Biological Monitoring Program Stream Survey Protocol (https://www.wrc-rca.org/survey_protocols). Starting on May 13, 2024, and concluding on July 3, 2024, we conducted 48 stream surveys at 22 stream segments (5.5 kilometers) at Bautista Creek. We did not detect evidence of Arroyo Toad presence or reproduction at Bautista Creek. These results are concerning as this is the second year of extensive surveys conducted by the BMP for Arroyo Toad at Bautista Creek following the 2022 Fairview Fire with no observations documented since 2017. Further stream surveys are warranted at Bautista Creek to determine the continued occupancy of Arroyo Toads at this conserved breeding location.

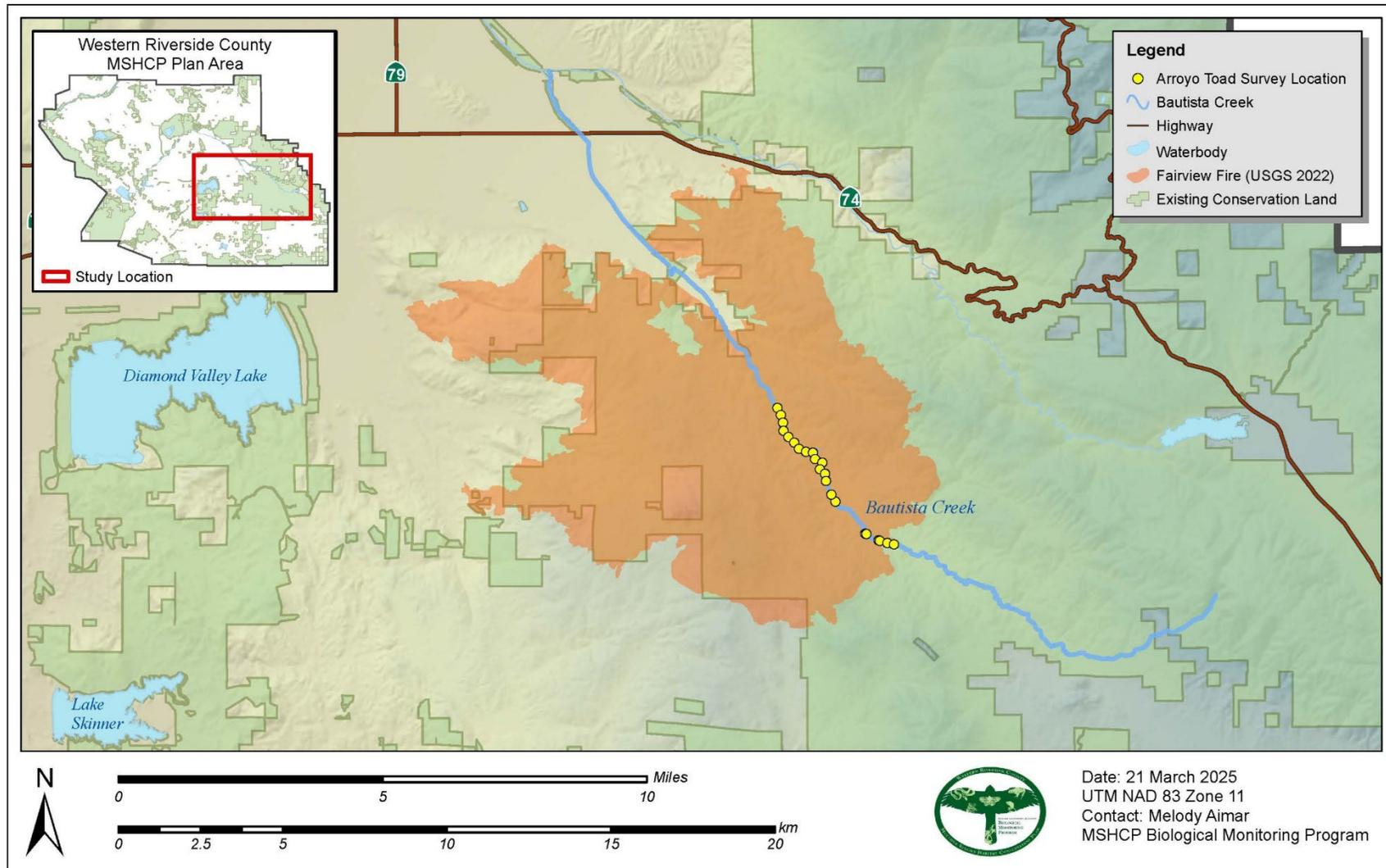
¹ For the purposes of this report, species common and scientific names reflect those referenced in the Plan. Denoted species names have been updated through peer-reviewed literature and the taxonomic naming authorities (Appendix B-4).

Figure 8-3. Arroyo Toad Conserved Breeding Locations.



Arroyo Toad Conserved Breeding Locations.

Figure 8-4. Arroyo Toad Survey Locations at Bautista Creek in 2024 in Relation to the 2022 Fairview Fire Area



Arroyo Toad Survey Locations at Bautista Creek in Relation to the 2022 Fairview Fire Area.

8.4.3 Artificial Cover Surveys

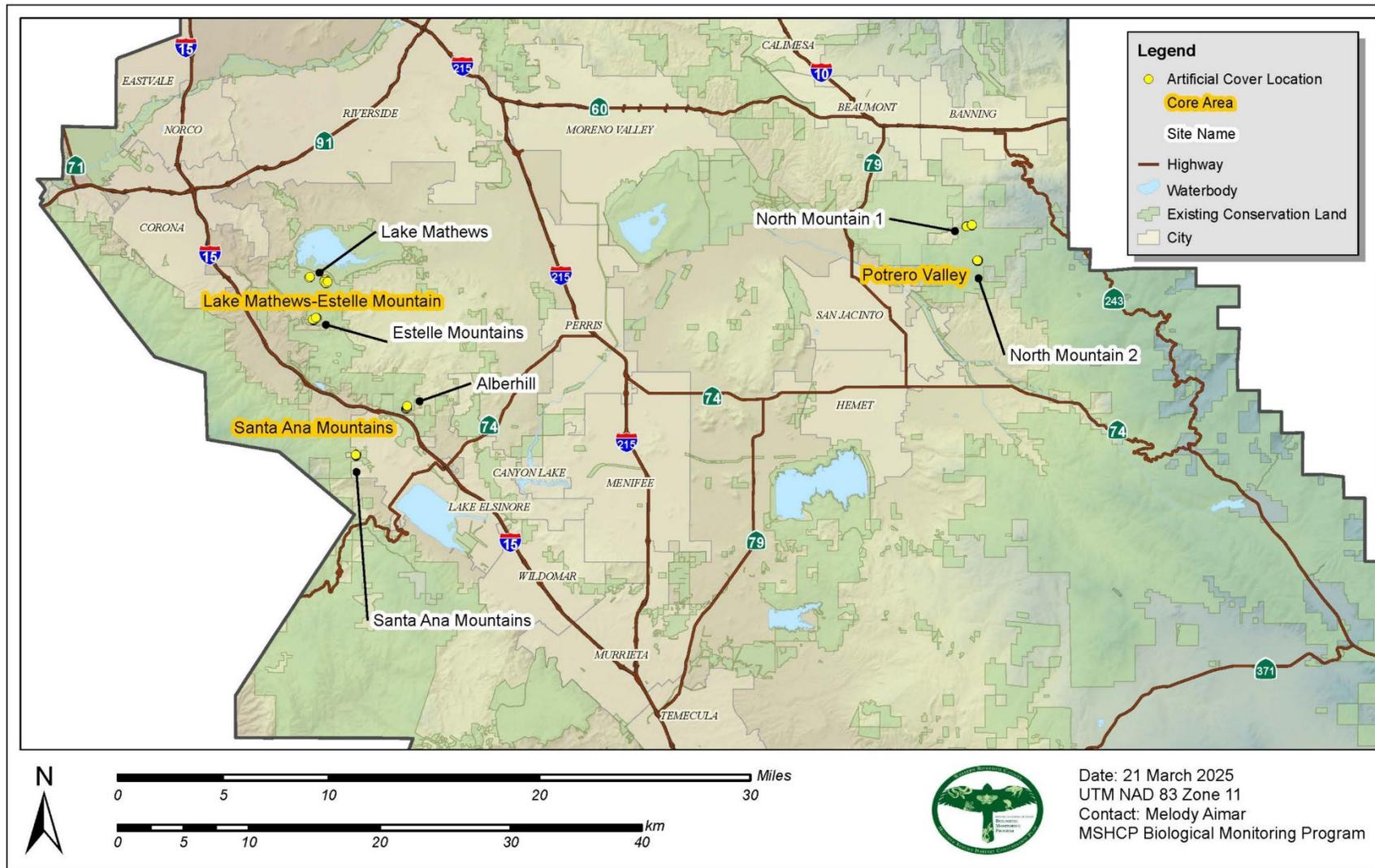
In 2024, we conducted artificial cover surveys to document the presence of MSHCP target Covered reptile species within three Core Areas, Lake Mathews/Estelle Mountain, Potrero Valley, and Santa Ana Mountains (*Figure 8-5. Artificial Cover Locations in 2024*). The eight target Covered reptile species included Belding’s Orange-throated Whiptail (*Cnemidophorus hyperythrus beldingi*)¹, Coastal Western Whiptail (*Cnemidophorus tigris multiscutatus*)¹, Granite Night Lizard (*Xantusia henshawi henshawi*)¹, Granite Spiny Lizard (*Sceloporus orcutti*), Northern Red-diamond Rattlesnake (*Crotalus ruber ruber*)¹, San Diego Banded Gecko (*Coleonyx variegatus abbottii*), San Diego Horned Lizard (*Phrynosoma coronatum blainvillei*)¹, and San Diego Mountain Kingsnake (*Lampropeltis zonata pulchra*)¹.

We installed eight artificial cover objects made of wood (122 by 122 by 2.5 centimeters) and four made of tin (122 by 66 centimeters) at five sites within the aforementioned Core Areas. These include the North Mountain 1 and 2 sites in the Potrero Valley Core Area, the Lake Mathews and Estelle Mountain sites in the Lake Mathews/Estelle Mountain Core Area, and the Santa Ana Mountain site in the Santa Ana Mountains Core Area. A sixth site, Alberhill, in the Lake Mathews/Estelle Mountain Core Area was an exception with no tin artificial cover used (*Figure 8-5. Artificial Cover Locations in 2024*).

To conduct surveys, we followed the 2024 Western Riverside County MSHCP Biological Monitoring Program Artificial Cover Survey Protocol (https://www.wrc-rca.org/survey_protocols). Between January 26, 2024 and June 21, 2024, we conducted five artificial cover surveys at each artificial cover site. During artificial cover surveys, five MSHCP Covered reptile species were observed including the Belding’s Orange-throated Whiptail, Coastal Western Whiptail, Granite Spiny Lizard, Northern Red-diamond Rattlesnake, and San Diego Horned Lizard (Table 8-1). We will continue monitoring artificial cover sites in 2025.

¹ For the purposes of this report, species common and scientific names reflect those referenced in the Plan. Denoted species names have been updated through peer-reviewed literature and the taxonomic naming authorities (Appendix B-4).

Figure 8-5. Artificial Cover Locations in 2024.



Artificial Cover Locations in 2024.

Table 8-1 Count of reptiles and amphibians observed at each artificial cover site during artificial cover surveys in 2024. Species with an asterisk (*) represent Western Riverside County MSHCP Covered Species.

Species ¹	Lake Mathews	Estelle Mountain	Alberhill	North Mountain 1	North Mountain 2	Santa Ana Mountains	Totals
*Belding's Orange-throated Whiptail (<i>Cnemidophorus hyperythrus beldingi</i>) ¹	1	-	-	-	-	-	1
*Coastal Western Whiptail (<i>Cnemidophorus tigris multiscutatus</i>)	1	-	-	1	-	-	2
*Granite Spiny Lizard (<i>Sceloporus orcutti</i>)	2	-	-	2	1	-	5
*Northern Red-diamond Rattlesnake (<i>Crotalus ruber ruber</i>)	1	-	-	-	-	-	1
*San Diego Horned Lizard (<i>Phrynosoma coronatum blainvillei</i>)	-	-	-	1	-	-	1
California Kingsnake (<i>Lampropeltis californiae</i>)	-	-	2	-	-	-	2
California Striped Racer (<i>Masticophis lateralis lateralis</i>)	-	-	-	-	1	-	1
California Toad (<i>Anaxyrus boreas halophilus</i>)	-	-	1	-	-	3	4
Garden Slender Salamander (<i>Batrachoseps major major</i>)	-	-	1	-	-	-	1
Great Basin Fence Lizard (<i>Sceloporus occidentalis longipes</i>)	1	1	-	-	3	8	13
Long-nosed Snake (<i>Rhinocheilus lecontei</i>)	-	-	1	-	-	-	1
Red Coachwhip (<i>Masticophis flagellum piceus</i>)	-	-	-	-	-	1	1
San Diego Gophersnake (<i>Pituophis catenifer annectens</i>)	3	-	1	-	-	-	4
San Diego Nightsnake (<i>Hypsiglena ochrorhyncha klauberi</i>)	1	-	-	-	-	2	3
Skilton's Skink (<i>Plestiodon skiltonianus skiltonianus</i>)	1	-	-	2	-	-	3
Southern Pacific Rattlesnake (<i>Crotalus oreganus helleri</i>)	-	-	-	1	1	-	2
Western Side-blotched Lizard (<i>Uta stansburiana elegans</i>)	8	1	-	3	1	2	15

¹ For the purposes of this report, species common and scientific names reflect those referenced in the Plan. Denoted species names have been updated through peer-reviewed literature and the taxonomic naming authorities (Appendix B-4)

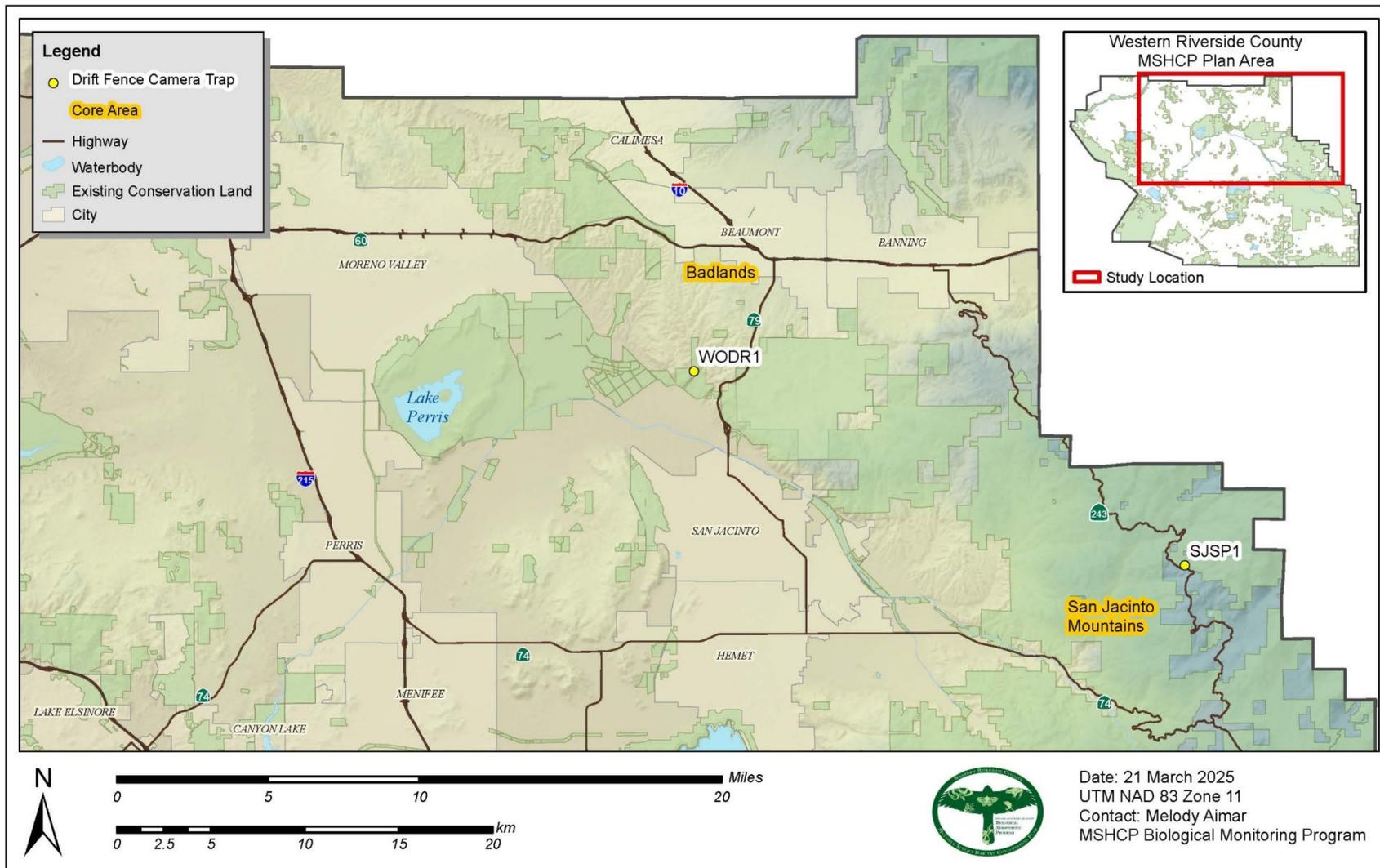
8.4.4 Drift-Fence Camera Surveys

We surveyed for covered herpetofauna and small mammals using drift fence camera traps (DFCT), within two Core Areas, the Badlands and San Jacinto Mountains (*Figure 8-6. Drift Fence Camera Trap Locations in 2024*). The DFCT consists of a drift fence and camera trap box. Animals that run into the drift fence are funneled into the camera trap box where a photo of the animal is taken. A detailed survey protocol is described in the Western Riverside County MSHCP BMP Drift Fence Camera Trap 2024 Protocol, available at https://www.wrc-rca.org/survey_protocols/. We used historic observations of covered herpetofauna and small mammal species to identify locations within Core Areas to place the DFCTs. We scouted for habitat features commonly used by herpetofauna and small mammals such as rock piles, ravines, washes, or water sources to place the DFCTs. After installing the DFCTs, they were checked approximately every four weeks to swap out the memory card, check the status of the camera batteries, and inspect the DFCTs for repairs/maintenance. The photos were downloaded off the memory card and species were identified by our biologists.

The DFCT named WODR1 was set within the Badlands Core Area on January 4, 2024, and was active through December 31, 2024. The DFCT named SJSP1 was set within the San Jacinto Mountains Core Area on April 30, 2024 and removed on December 4, 2024. At WODR1, we detected four covered herpetofauna; Belding’s Orange-throated Whiptail (*Cnemidophorus hyperythra beldingi*)¹, Coastal Western Whiptail (*Cnemidophorus tigris multiscutatus*)¹, Granite Spiny Lizard (*Sceloporus orcutti*), and Northern Red-diamond Rattlesnake (*Crotalus ruber ruber*)¹ and five covered mammal species; Brush Rabbit (*Sylvilagus bachmani*), Coyote (*Canis latrans*), Dulzura Kangaroo Rat (*Dipodomys simulans*), Northwestern San Diego Pocket Mouse (*Chaetodipus fallax fallax*), and San Diego Desert Woodrat (*Neotoma lepida intermedia*)¹. At SJSP1, we detected two covered herpetofauna species; Granite Spiny Lizard and Southern Sagebrush Lizard (*Sceloporous graciosus vandenburgianus*) and one covered mammal species; San Diego Desert Woodrat. In addition to the Covered Species, non-covered species detected via the DFCTs are shown in Table 8-2.

¹ For the purposes of this report, species common and scientific names reflect those referenced in the Plan. Denoted species names have been updated through peer-reviewed literature and the taxonomic naming authorities (Appendix B-4).

Figure 8-6. Drift Fence Camera Trap Locations in 2024.



Drift Fence Camera Trap Locations in 2024.

Table 8-2. List of species detected during drift fence camera trap surveys in 2024 including number of detections. Species with an asterisk (*) represent Western Riverside County MSHCP Covered Species.

Species	WODR1	SJSP1
<u>Amphibians</u>		
California Toad (<i>Anaxyrus boreas halophilus</i>)	10	-
<u>Birds</u>		
Bewick's Wren (<i>Thryomanes bewickii</i>)	5	1
California Towhee (<i>Melospiza crissalis</i>)	44	-
Dark-eyed Junco (<i>Junco hyemalis</i>)	-	6
Greater Roadrunner (<i>Geococcyx californianus</i>)	1	-
Rock Wren (<i>Salpinctes obsoletus</i>)	1	-
<u>Mammals</u>		
Big-eared Woodrat (<i>Neotoma macrotis</i>)	-	2
Botta's Pocket Gopher (<i>Thomomys bottae</i>)	30	-
*Brush Rabbit (<i>Sylvilagus bachmani</i>)	147	-
<i>Neotomias</i> spp.	-	152
California Ground Squirrel (<i>Otospermophilus beecheyi</i>)	14	52
California Vole (<i>Microtus californicus</i>)	27	-
*Coyote (<i>Canis latrans</i>)	2	-
Desert Cottontail (<i>Sylvilagus audubonii</i>)	393	-
*Dulzura Kangaroo Rat (<i>Dipodomys simulans</i>)	11	-
<i>Neotoma</i> spp.	1527	11
*Northwestern San Diego Pocket Mouse (<i>Chaetodipus fallax fallax</i>)	478	-
<i>Peromyscus</i> spp.	1648	715
*San Diego Desert Woodrat (<i>Neotoma lepida intermedia</i>) ¹	62	2
Striped Skunk (<i>Mephitis mephitis</i>)	1	-
Ticul's Desert Shrew (<i>Notiosorex tatalticuli ocanai</i>)	21	-
Western Harvest Mouse (<i>Reithrodontomys megalotis</i>)	17	-
<u>Reptiles</u>		
*Belding's Orange-throated Whiptail (<i>Cnemidophorus hyperythrus beldingi</i>) Error! Bookmark not defined.	88	-
California Striped Racer (<i>Masticophis lateralis lateralis</i>)	1	-
Coast Patch-nosed Snake (<i>Salvadora hexalepis virgulata</i>)	1	-
*Coastal Western Whiptail (<i>Cnemidophorus tigris multiscutatus</i>) Error! Bookmark not defined.	26	-
California Kingsnake (<i>Lampropeltis californiae</i>)	1	-
Gilbert's Skink (<i>Plestiodon gilberti</i>)	1	-
*Granite Spiny Lizard (<i>Sceloporus orcutti</i>)	26	42
Great Basin Fence Lizard (<i>Sceloporus occidentalis longipes</i>)	34	49
*Northern Red-diamond Rattlesnake (<i>Crotalus ruber ruber</i>) Error! Bookmark not defined.	1	-
Red Coachwhip (<i>Masticophis flagellum piceus</i>)	1	-
San Diego Gophersnake (<i>Pituophis catenifer annectens</i>)	3	3
Southern Alligator Lizard (<i>Elgaria multicarinata</i>)	1	1
Southern Pacific Rattlesnake (<i>Crotalus oreganus helleri</i>)	-	8
*Southern Sagebrush Lizard (<i>Sceloporus graciosus vandenburgianus</i>)	-	7
Western Skink (<i>Plestiodon skiltonianus</i>)	2	-

¹ For the purposes of this report, species common and scientific names reflect those referenced in the Plan. Denoted species names have been updated through peer-reviewed literature and the taxonomic naming authorities (Appendix B-4).

8.4.5 Carnivore Surveys

Species objectives for Bobcat (*Felis rufus*), Mountain Lion (*Puma concolor*), Coyote (*Canis latrans*), and Long-tailed Weasel (*Mustela frenata*) require the conservation of contiguous-habitat blocks and the maintenance of corridors that provide an effective means for dispersal. Because it is not explicitly stated in the species objectives, we assume that we must document these covered carnivores using $\geq 75\%$ of Core Areas at least once every eight years (see Volume I, Section 5.0, Table 5-8 of the MSHCP). Carnivore movement must also be shown to occur across potential barriers to animal dispersal (i.e., freeway corridors; see Volume 1, Section 9.0, Table 9-2 of the MSHCP). In 2024, the Biological Monitoring Program monitored three sites using motion-triggered camera traps to document carnivore presence: two wildlife undercrossings on State Route 60 near Moreno Valley, and a wildlife guzzler on the RCA Anza Knolls property (*Figure 8-7. Carnivore Camera Locations in 2024*).

Wildlife use at both the western undercrossing, Moreno Valley Wildlife Undercrossing 1 (MVUC1), and the eastern undercrossing, Moreno Wildlife Valley Wildlife Undercrossing 2 (MVUC2), were monitored using eight motion triggered cameras. The undercrossings were constructed of 20 feet by 20 feet cement box culverts, each about 200 feet long. We placed two cameras at each culvert opening resulting in four cameras for each undercrossing. These cameras were monitored throughout the year. We began monitoring the Anza Knolls (ANKN) guzzler on 21 May 2024 and continued monitoring for the duration of 2024. Cameras were selectively installed to best capture use of the landscape by wildlife while keeping in mind the threat of theft of our camera equipment. Upon being triggered, all cameras were programmed to take a burst of three photos followed by a five-minute delay. Cameras were serviced (i.e., batteries checked, memory cards removed and replaced) every other week. After servicing, biologists reviewed the photos, documenting the best photo to represent what animal triggered the camera. Animals were identified to species where possible. However, some photographs did not allow for species identification and were either identified to genus, labeled as group (i.e., Canidae), or labeled as unidentified. Analyses did not look at individual animals per species.

The photographic rate for each species, or genus, was determined by dividing the number of unique images, per species or genus, by the number of days the cameras were operable (camera days). To account for animals' photo-captured more than once at a site (i.e., a Coyote walked the length of the undercrossing and was captured on more than one camera), photos were pooled for all cameras at each Moreno Valley undercrossing. Then, photo date and time was examined to ensure multiple occurrences of the same species were not recorded within a half hour period, which results in the number of unique images at each undercrossing. We averaged (Moreno Valley undercrossings) and totaled (Anza Knolls) camera days at each site. One camera at MVUC1 was not operable for 15 days, resulting in 362 camera days. There was no lapse in monitoring for any of the MVUC2 cameras, resulting in 366 camera days. The Anza Knolls camera was operable for 212 camera days.

We identified 1874 unique images at Anza Knolls, 450 unique images at MVUC1, and 4401 unique images at MVUC2. Mountain Lion and Long-tailed Weasel were not detected at either undercrossing or the guzzler. Photographic rates for all species and genus level identified animals are shown in Table 8-3.

Table 8-3. Photographic rate for species detected in 2024 on Anza Knolls (ANKN), Moreno Valley Undercrossing 1 (MVUC1) and Moreno Valley Undercrossing 2 (MVUC2) cameras. Species in alphabetical order. Species with an asterisk (*) represent Western Riverside County MSHCP Covered Species.

Species	ANKN	MVUC1	MVUC2
American Badger (<i>Taxidea taxus</i>)	-	0.069	-
Barn Owl (<i>Tyto furcata</i>)	-	0.003	0.003
Bewick's Wren (<i>Thryomanes bewickii</i>)	0.014	0.003	-
Big-eared Woodrat (<i>Neotoma macrotis</i>)	0.019	-	-
*Bobcat (<i>Lynx rufus</i>)	0.335	-	0.005
California Ground Squirrel (<i>Otospermophilus beecheyi</i>)	0.929	-	0.555
California Scrub-Jay (<i>Aphelocoma californica</i>)	1.175	-	-
California Sister Butterfly (<i>Adelpha bredowii</i>)	0.005	-	-
California Thrasher (<i>Toxostoma redivivum</i>)	0.811	-	-
California Towhee (<i>Melospiza crissalis</i>)	2.175	0.011	0.003
Chipmunk (<i>Tamias</i> sp.)	0.014	-	-
Common Raven (<i>Corvus corax</i>)	0.420	0.003	3.516
*Coyote (<i>Canis latrans</i>)	0.349	0.732	1.161
Dark-eyed Junco (<i>Junco hyemalis</i>)	0.024	-	-
Desert Cottontail (<i>Sylvilagus audubonii</i>)	0.071	0.028	0.109
Dog (<i>Canis lupus familiaris</i>)	0.066	-	0.025
Domestic Cat (<i>Felis catus</i>)	-	-	0.022
*Granite Spiny Lizard (<i>Sceloporus orcutti</i>)	0.061	-	-
Gray Fox (<i>Urocyon cinereoargenteus</i>)	0.387	-	-
Greater Roadrunner (<i>Geococcyx californianus</i>)	0.071	0.003	-
House Finch (<i>Haemorhous mexicanus</i>)	0.373	0.008	0.003
Human (<i>Homo sapiens</i>)	0.042	0.362	6.311
*Mountain Quail (<i>Oreortyx pictus</i>)	0.052	-	-
Mourning Dove (<i>Zenaidura macroura</i>)	0.005	0.003	0.019
Mule Deer (<i>Odocoileus hemionus</i>)	-	-	0.052
Northern Flicker (<i>Colaptes auratus</i>)	0.047	-	-
Northern Mockingbird (<i>Mimus polyglottos</i>)	0.009	-	-
Northern Rough-winged Swallow (<i>Stelgidopteryx serripennis</i>)	-	0.006	-
Orange Sulfur Butterfly (<i>Colias eurytheme</i>)	0.005	-	-
Quail (<i>Callipepla</i> spp.)	0.349	-	-
Raccoon (<i>Procyon lotor</i>)	-	-	0.093
Red-tailed Hawk (<i>Buteo jamaicensis</i>)	0.009	-	-
Sara Orangetip Butterfly (<i>Anthocharis sara</i>)	0.005	-	-
Say's Phoebe (<i>Sayornis saya</i>)	-	0.011	0.055
Spiny Lizard (<i>Sceloporus</i> sp.)	0.009	-	-

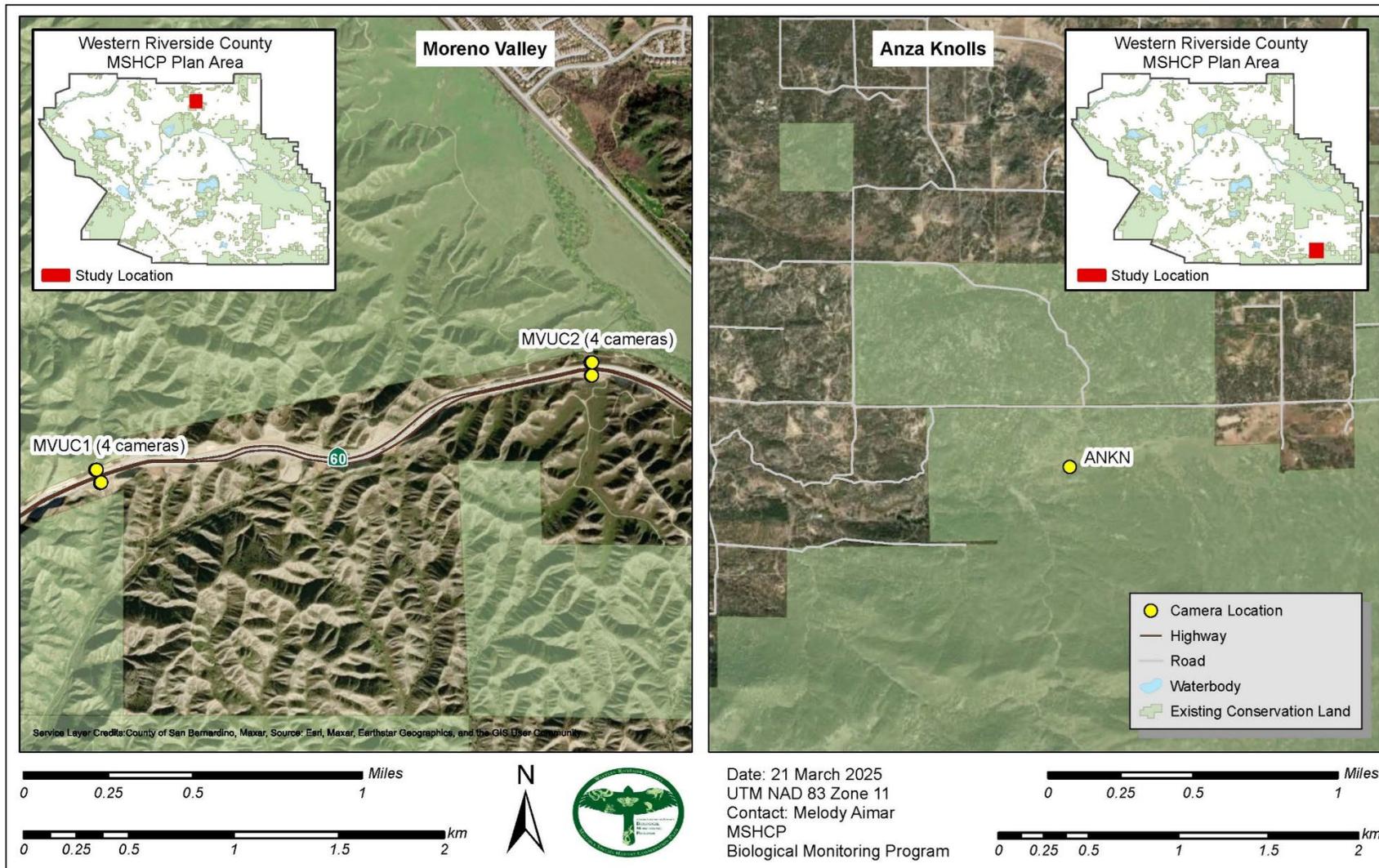
8.0 MONITORING ACTIVITIES

Spotted Towhee (<i>Pipilo maculatus</i>)	0.151	-	-
Striped Skunk (<i>Mephitis mephitis</i>)	0.024	-	0.087
Toad (<i>Anaxyrus</i> sp.)	0.061	-	-

Table 1. Continued.

Species	ANKN	MVUC1	MVUC2
Western Fence Lizard (<i>Sceloporus occidentalis</i>)	0.005	0.003	-
White-crowned Sparrow (<i>Zonotrichia leucophrys</i>)	0.127	-	-
Wild Boar (<i>Sus scrofa</i>)	-	-	0.005
Woodrat (<i>Neotoma</i> sp.)	0.618	-	-
Wrentit (<i>Chamaea fasciata</i>)	0.024	-	-

Figure 8-7. Moreno Valley Undercrossing Camera Locations and Anza Knolls Camera Location in 2024.



Moreno Valley Undercrossing Camera Locations and Anza Knolls Camera Location in 2024.

8.4.6 Incidental Species Sightings

Covered Species incidentally observed during unrelated survey activities are recorded by Monitoring Program biologists to increase knowledge of Covered Species distribution within the Conservation Area. Incidental observations are different than focused survey data as the methods are not standardized and only positive data are recorded (i.e., only presence of the species). However, recording incidental observations of species that are difficult to detect is extremely important. Incidental observation data may be used as current documentation of species presence at a location, as a starting point for future focused survey efforts, and to provide information about appropriate habitat for the detected species in the future.

Incidental observations of Covered Species made during surveys in 2024 were entered into the Monitoring Program's centralized database and these data were incorporated into taxa-specific reports, as appropriate. All observations of Covered Species, whether made by focused survey or incidentally, are used when determining whether species-specific objectives have been met within a given reporting period (Appendix B-2).

8.5 Additional Survey Reports

- Coastal California Gnatcatcher Nest Monitoring
- Grasshopper Sparrows
- Clinton Keith Overcrossing and Undercrossing Surveys
- Quino Checkerspot Butterfly Surveys
- Rare Plant Surveys

8.6 Recommendations and Feedback for Adaptive Management

Effective land and species management requires current information regarding vegetation communities, wildlife habitats, species status, and population trends. The Monitoring Program coordinates and shares information with Reserve Managers throughout the MSHCP reserve system as data are collected and processed. Management/monitoring coordination meetings are held monthly to provide summaries of results and a venue for information exchange. The following are suggestions for adaptive management, conservation considerations, and continued/additional monitoring efforts based on the results of 2024 Monitoring Program surveys and other entities providing data to the Monitoring Program. For additional details and for maps depicting the Core Areas and locations discussed below, please refer to the detailed survey report for each species or species group (e.g., Riparian Birds), which are available on the RCA website at <https://www.wrc-rca.org/species-surveys>.

Coastal California Gnatcatcher

Core Area Definitions

We recommend including Lake Perris (Existing Core H), Badlands/Potrero (Proposed Core 3), and Tule Valley (Proposed Core 6) as additional Core Areas for Coastal California Gnatcatchers. We have frequently detected the species in these locations for at least the last 18 years, and we documented successful reproduction in the Badlands/Potrero Core Area in 2024. We have little information on the reproductive status of gnatcatchers in the northeast half of the Plan Area; therefore, including these as Core Areas would help us to better understand their status in western Riverside County.

Grasshopper Sparrow

Conservation and Management

Grazing and prescribed burns can be used by managers to create conditions that are preferred by Grasshopper Sparrows, but the suitability of each application may depend upon the site conditions. Management techniques for improving Grasshopper Sparrow habitat should seek to create a diverse grassland ecosystem that contains a patchwork of bare ground, litter, shrubs, and dense grasses and forbs. This patchwork may encourage use by adult Grasshopper Sparrows but may also be critically important for juvenile birds. More investigation may be needed at the local scale to determine when to apply treatment to Grasshopper Sparrow management and conservation.

Clinton Keith Overcrossing and Undercrossing Surveys

Conservation and Management Recommendations

We recommend continued management of non-native vegetation at this site, which can lead to enhanced Quino Checkerspot Butterfly (Quino) habitat. We also recommend studying connectivity between sites with existing Quino populations and sites where Quino has not been detected but where quality Quino habitat exists. It would be beneficial to monitor this overcrossing at regular intervals going forward to document wildlife use.

Quino Checkerspot Butterfly

Future Surveys

The extent of occupied area within each survey site and the number of occupied sites across the Conservation Area vary from year to year. Therefore, it is important to continue mapping the distribution of Quino within the Conservation Area. We should continue to prioritize monitoring of recently occupied sites, areas with suitable habitat, and areas adjacent to known occupied

habitat. We recommend expanding our survey efforts to areas with suitable habitat within the Warm Springs Creek Core Area, Wilson Valley Core Area, and Aguanga Satellite Occurrence Complex Area. We would also like to increase our survey efforts at the Beauty Mountain site in the Silverado/Tule Peak Core Area, which is approximately 1400 meters in elevation. We recommend scouting additional areas of Bautista Canyon, including the original Horse Creek site in SBNF, which has not been accessible since 2010. It may also be beneficial to monitor all fire affected areas more closely for increased colonization of non-native grasses and other invasive plants that may negatively impact the habitat that was previously suitable for Quino.

Conservation and Management

Invasive Stinknet (*Oncosiphon pilulifer*) was detected in the Warm Springs Core Area, including the Anheuser-Busch RCA property near the overcrossing. The increased growth of non-native vegetation in Quino habitat can have a negative impact on Quino, as it may reduce available basking areas, host plant population size, and nectar source availability. We recommend controlling non-native grasses (*Bromus* spp.) and herbs (Shortpod Mustard, *Hirschfeldia incana*) at this location. We also recommend managing the recent encroachment of the non-native Cape Marigold (*Dimorphoteca sinuate*) in the Sage Core Area. Additional research is needed to determine the effects of drought conditions and climate change.

Core Area Definitions and Species Objective

We recommend adding SBNF to the MSHCP Core Areas designation for this species that has been detected here 12 out of 17 survey seasons, including in 2024. We also recommend acquiring land 350 meters west of Quino-occupied Oak Mountain that is described for conservation but is not currently in MSHCP conservation.

Rare Plants

Monitoring Recommendations

Monitoring efforts should continue to focus on both reconfirming known rare plant occurrences within each future eight-year monitoring period and conducting inventory surveys for unmet species objectives. Inventory surveys in recently burned areas, new land acquisitions and remote areas within existing Conservation Area should be done to fully document current rare plant distribution within western Riverside County.

Surveys for Plummer's Mariposa Lily and Payson's Jewelflower should be prioritized in 2025. Both species require the confirmation of additional occurrences to meet all monitoring objectives. For Plummer's Mariposa Lily, two population counts of 500 individuals each are required to meet the Demonstrate-Conservation objective outlined in Table 9-3; *Volume 1* of the MSHCP (Dudek

& Associates 2003). For Payson’s Jewelflower, three additional occurrences within Aguanga, Billy Goat Mountain and Lewis Valley are required.

Mojave Tarplant occurrences should be mapped to measure the area occupied by this species. Mojave Tarplant is known to exist within the Conservation Area but has not been recently mapped in a way that can evaluate whether Species Objective 3, which requires four localities occupying at least 100 acres, has been met.

Land Management Recommendations

California Orcutt Grass is a rare plant species restricted to vernal pools within western Riverside County. We have not confirmed the presence of California Orcutt Grass within the upper Salt Creek drainage despite the presence of other native vernal pool plant species. We recommend ongoing management of non-native plant species within lands owned and managed by the RCA to maintain suitable habitat for this species.

Wright’s Trichocoronis has not been observed since 2011. We documented high levels of non-native plant species at two historic locations within the San Jacinto Wildlife Area that we surveyed in 2024. We recommend targeted non-native plant removal and the implementation of controlled flooding in areas historically occupied by Wright’s Trichocoronis to mimic natural habitat requirements for this species.

8.7 Acknowledgements

The RCA and Monitoring Program thank the land managers in the MSHCP Plan Area, who in the interest of conservation and stewardship, facilitate Monitoring Program activities on the lands for which they are responsible. Monitoring Program staff who conducted surveys in 2024 were: Masanori Abe, Leah Dann, Karyn Drennen, Gabriel Elliott, Tara Graham, Lucas Haralson, Jennifer Hoffman, Nathan Kudla, Emily Lamb, Nicholas Peterson, Nathan Pinckard, Esperanza Sandoval, and Nicole Tomes. Assistance with data collection was provided by Jonathan Reinig, Ana Sawyer, and Taylor Zagebaum of the Riverside County Regional Park and Open-Space District MSHCP Unit.

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APPENDIX A

*Additional Technical Reports and
Information Used to Prepare the
RCA 2024 Annual Report*

Additional Reports and Information

The following reports, methods, procedures, and information contain information that was utilized or developed during the reporting period of January 1, 2024 through December 31, 2024. The reports, documents, and maps are provided as supporting information to the annual report and have been published in separate technical reports on the internet in PDF format. The Annual Report, Appendices, Maps and Documents can be found at the following location:

<https://www.wrc-rca.org/document-library/annual-reports/>

RCA MSHCP Technical Reports

1. GIS Methodology, Process and Procedures

This document was created to provide details on how the Permit and Project information was assembled from the Permittees. The document describes the files and process that was used to prepare the information for the Annual Report, as well as the datasets used for Rough Step reporting. The methodology, process, and procedures using Esri™'s GIS software to assemble the numbers for the Rough Step vegetation, Area Plans, Area Plan Subunits and jurisdictions for both losses and gains are described. Included is a map product showing the gains and losses of the MSHCP.

2024_Annual_Report_Gains_Losses_Procedures.pdf

2024_AnnualReport_Permit_Process_GIS_Methods.pdf

AnnualReport_GainLoss_Cumulative.pdf

2. Clerical Amendments to the MSHCP

The RCA did not process or identify any clerical amendments to the MSCHP in 2024.

3. Agricultural Operations Database

The Implementation Agreement for the MSHCP, in Section 11.3, required that the RCA and County establish an Agricultural Operations database and report on agricultural activities, such as agricultural grading permits issued each year. Agricultural grading permits are included within the GIS Loss files for each reporting year.

WRC_Agricultural_Operations.shp (includes all data up to 12/31/2024) GIS file
AG_10000_Cap_MSHCP.shp (includes all data up to 12/31/2024) GIS file
AnnualReport_Agricultural_Operations.pdf

4. Conservation by Area Plan Subunits

Appendix Table 1, Conservation Targets by Area Plan Subunit, includes the goal acreages within each subunit of each Area Plan. As discussed above, the subunits are subsets of each Area Plan targeted for conservation. Acquisitions made over the calendar year of 2024 by subunit are listed below. The last column provides a context within which to compare the conservation achieved during the reporting period with conservation achieved to date. *Appendix Table 1* shows that progress is being made toward achieving the target acreage goals within the subunits.

**Appendix Table 1
Conservation Goals by Area Plan Subunit**

Area Plan Subunit	Low**	Midpoint**	High**	Conservation (January 1, 2024 – December 31, 2024)*	Acres Conserved (February 2000 to December 31, 2024)*
Eastvale Area Plan					
SU1 – Santa Ana River Central	145	220	290	0	107
Not within a Subunit	NA	NA	NA	0	0
<i>Subtotal within Area Plan</i>	<i>145</i>	<i>220</i>	<i>290</i>	<i>0</i>	<i>107</i>
Elsinore Area Plan					
SU1 – Estelle Mountain/Indian Canyon	4,100	5,065	6,030	244	3,112
SU2 – Alberhill	1,760	2,385	3,010	1	1,057
SU3 – Elsinore	925	1,370	1,815	66	83
SU4 – Sedco Hills	2,415	3,130	3,845	3	1,124
SU5 – Ramsgate	1,645	2,090	2,535	0	1,229
SU6 – Steele Peak	855	1,070	1,280	0	900
Not within a Subunit	NA	NA	NA	8	236
<i>Subtotal within Area Plan</i>	<i>11,700</i>	<i>15,110</i>	<i>18,515</i>	<i>322</i>	<i>7,742</i>
Harvest Valley/Winchester Area Plan					
SU1 – French Valley/Diamond Valley Lake Connection	130	135	145	0	0
SU2 – Hemet Vernal Pool West	300	380	460	0	286
Not within a Subunit	NA	NA	NA	0	<1
<i>Subtotal within Area Plan</i>	<i>430</i>	<i>515</i>	<i>605</i>	<i>0</i>	<i>286</i>
Highgrove Area Plan					
SU1 – Sycamore Canyon/Box Springs Central	95	140	180	0	89
SU2 – Springbrook Wash North	250	370	495	0	227
Not within a Subunit	NA	NA	NA	0	158
<i>Subtotal within Area Plan</i>	<i>345</i>	<i>510</i>	<i>675</i>	<i>0</i>	<i>474</i>
Jurupa Area Plan					
SU1 – Santa Ana River North	135	190	245	0	10
SU2 – Jurupa Mountains	445	750	1,055	73	576
SU3 – Delhi Sands Area	310	440	570	0	0
Not within a Subunit	NA	NA	NA	0	50

Area Plan Subunit	Low**	Midpoint**	High**	Conservation (January 1, 2024 – December 31, 2024)*	Acres Conserved (February 2000 to December 31, 2024)*
<i>Subtotal within Area Plan</i>	890	1380	1870	0	636
Lake Mathews/Woodcrest Area Plan					
SU1 – Lake Mathews East	1,140	1,410	1,680	0	59
SU2 - Dawson Canyon (Temescal Wash East)	815	950	1,090	0	645
SU3 – Gavilan Hills West	1,175	1,825	2,475	0	298
SU4 – Good Hope West	85	155	225	0	21
Not within a Subunit	NA	NA	NA	0	1
<i>Subtotal within Area Plan</i>	3,215	4,340	5,470	0	1,025
Lakeview/Nuevo Area Plan					
SU1 – San Jacinto River, Middle Reach	2,605	3,315	4,025	163	1,180
SU2 – Lakeview Mountains West	4,045	5,130	6,210	191	676
Not within a Subunit	NA	NA	NA	2	2
<i>Subtotal within Area Plan</i>	6,650	8,445	10,235	356	1,858
Mead Valley Area Plan					
SU1 – Motte/Rimrock	315	455	590	0	0
SU2 – Gavilan Hills East	485	750	1,015	0	33
SU3 – Good Hope East	290	390	495	0	10
SU4 – San Jacinto River Lower	795	1,165	1,535	0	182
Not within a Subunit	NA	NA	NA	0	0
<i>Subtotal within Area Plan</i>	1,885	2,760	3,635	0	225
The Pass Area Plan					
SU1 – Potrero/Badlands	5,570	7,420	9,275	0	8,192
SU2 – Badlands/San Bernardino National Forest	1,105	1,650	2,195	0	1,306
SU3 – San Timoteo Creek	1,865	2,160	2,455	0	1,171
Not within a Subunit	NA	NA	NA	0	518
<i>Subtotal within Area Plan</i>	8,540	11,230	13,925	0	11,187
Reche Canyon/Badlands Area Plan					
SU1 – Box Springs East	175	265	350	0	703
SU2 – Reche Canyon	1,215	1,915	2,615	0	319
SU3 – Badlands North	8,270	9,580	10,895	639	4,158

Area Plan Subunit	Low**	Midpoint**	High**	Conservation (January 1, 2024 – December 31, 2024)*	Acres Conserved (February 2000 to December 31, 2024)*
SU4 – San Jacinto Wildlife Area/Mystic Lake	860	1,305	1,750	0	1,950
Not within a Subunit	NA	NA	NA	3	361
<i>Subtotal within Area Plan</i>	<i>10,520</i>	<i>13,065</i>	<i>15,610</i>	<i>642</i>	<i>7,492</i>
REMAP (Riverside Extended Mountain Area Plan)					
SU1 – Cactus Valley	6,020	6,805	7,590	0	4,875
SU2 – Wilson Valley/Sage	26,205	30,815	35,425	60	11,316
SU3 – Temecula and Cottonwood Creeks	1,480	2,115	2,745	21	650
SU4 – Tule Creek/Anza Valley	6,415	8,515	10,615	0	3,457
SU5 – Upper San Jacinto River	750	985	1,220	0	0
SU6 – Tripp Flats	520	680	840	0	0
SU7 – Southern Badlands East	10	20	35	0	0
Not within a Subunit	NA	NA	NA	0	922
<i>Subtotal within Area Plan</i>	<i>41,400</i>	<i>49,935</i>	<i>58,470</i>	<i>81</i>	<i>21,219</i>
San Jacinto Valley Area Plan					
SU1 – Gilman Springs	3,540	5,030	6,520	58	2,592
SU2 – Lakeview Mountains East	1,305	1,730	2,150	0	1,470
SU3 – Upper San Jacinto River/Bautista Creek	2,085	2,980	3,875	0	1,977
SU4 – Hemet Vernal Pool Areas East	940	1,190	1,445	10	269
SU5 – Mica Butte	3,670	4,570	5,475	0	1,509
Not within a Subunit	NA	NA	NA	0	241
<i>Subtotal within Area Plan</i>	<i>11,540</i>	<i>15,500</i>	<i>19,465</i>	<i>68</i>	<i>8,059</i>
Sun City/Menifee Valley Area Plan					
SU1 – Warm Springs Creek/French Valley Area	395	480	565	0	338
SU2 – Lower Sedco Hills	725	875	1,020	0	190
Not within a Subunit	NA	NA	NA	0	0
<i>Subtotal within Area Plan</i>	<i>1,120</i>	<i>1,355</i>	<i>1,585</i>	<i>0</i>	<i>528</i>
Southwest Area Plan					
SU1 – Murrieta Creek	640	1,055	1,465	0	76
SU2 – Temecula and Pechanga Creeks	365	600	840	0	58
SU3 – Vail Lake	10,065	11,500	12,930	0	359

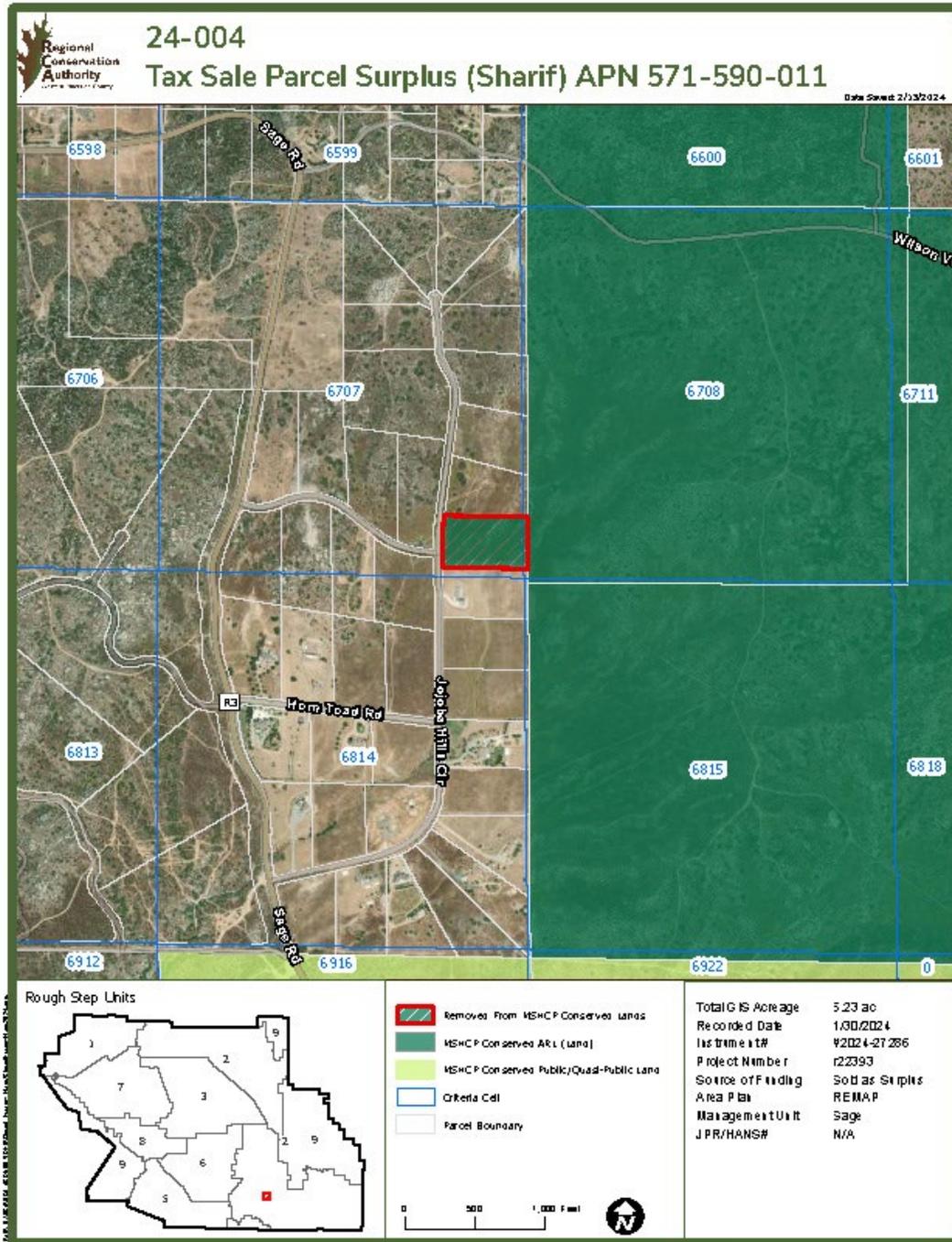
Area Plan Subunit	Low**	Midpoint**	High**	Conservation (January 1, 2024 – December 31, 2024)*	Acres Conserved (February 2000 to December 31, 2024)*
SU4 – Cactus Valley/SWRC-MSR/Johnson Ranch	4,395	6,180	7,970	176	1,116
SU5 – French Valley/Lower Sedco Hills	4,360	5,880	7,395	0	2,509
SU6 – Santa Rosa Plateau	1,285	2,100	2,915	0	610
SU7 – Tenaja Corridor	1,390	2,115	2,845	20	821
Not within a Subunit	NA	NA	NA	0	1,239
<i>Subtotal within Area Plan</i>	22,500	29,430	36,360	145	6,787
Temescal Canyon Area Plan					
SU1 – Santa Ana River/Santa Ana Mountains	250	400	550	498	675
SU2 – Prado Basin	200	300	395	0	0
SU3 – Temescal Wash West	2,790	3,600	4,415	0	1,283
SU4 – La Sierra Hills/Lake Mathews West	210	285	355	0	0
SU5 – Temescal/Santa Ana Mountains	35	60	85	0	78
Not within a Subunit	NA	NA	NA	172	763
<i>Subtotal within Area Plan</i>	3,485	4,645	5,800	670	2,799
Cities of Riverside and Norco Area Plan					
SU1 – Santa Ana River South	75	140	200	0	34
SU2 – Sycamore Canyon West	15	25	40	0	0
Not within a Subunit	NA	NA	NA	0	43
<i>Subtotal within Area Plan</i>	90	165	240	0	77
Grand Totals***	124,455	158,605	192,750	1,530	70,502*

* The total includes acreage adjustments for planned roadways, the Potrero MARB SKR acquisition of 2,540 acres, and acquisitions outside of Criteria Cells. Acquisitions made prior to Plan approval are also included. Totals may not add up due to rounding.

** Low, midpoint, and high conservation goals are taken directly from Table 3-2 of the MSHCP (Volume 1).

*** * All numbers have been rounded to the nearest integer. As a result, sum of columns may deviate from total.

5. Annual Conservation Acreage Reconciliation



In 2024, the Sharif (TAX SALE PARCELS 2019 DETAIL 5) property was sold as surplus property, due to HOA challenges. The 5.23 acres parcel was purchased in 2021.

6. Contact Information

Western Riverside County
Regional Conservation Authority
4080 Lemon St 3rd Floor
Riverside, CA 92501
Phone: (951) 787-7141



SECTION 8.0
APPENDIX B
Tables



TABLE B-1
Access Agreements and RCA Lands Surveyed in 2024

Landowner/Land Managing Entity	Property/Conserved Lands Name
California Department of Fish and Wildlife (CDFW)	Estelle Mountain Ecological Reserve, French Valley Wildlife Area, Davis Unit of San Jacinto Wildlife Area, Potrero Unit of San Jacinto Wildlife Area, Santa Margarita River Ecological Reserve, and Santa Rosa Plateau Ecological Reserve
California State Parks	State Parks: Chino Hills, Lake Perris State Recreation Area, San Timoteo Canyon, and Mount San Jacinto designated as PQP Lands
California Department of Transportation	Moreno Valley Wildlife Undercrossing – State Route 60
Center for Natural Lands Management (CNLM)	Johnson Ranch, Skunk Hollow, Lincoln Ranch, Roripaugh Ranch, Sunland donation, Wilson Valley Preserve, and Summerhill
City of Lake Elsinore	PQP Lands: Tract 32077 and multiple parcels in Lake Elsinore area
City of Norco	PQP Lands in Santa Ana River
City of Riverside	PQP Lands: Santa Ana River and surrounding PQP Lands including Tequesquito Arroyo, Mount Rubidoux Park, Lake Evans, Fairmount Park, Mockingbird Reservoir and tributary drainage, Sycamore Canyon Wilderness Park and surrounding PQP Lands, and Box Springs Mountain Reserve
County of Riverside	PQP Lands in Santa Ana River and surrounding area
Metropolitan Water District	PQP Lands: Lake Skinner, Diamond Valley Lake, Lake Mathews, Upper Feeder-Jurupa Valley, Box Spring feeder, and Colorado River Aqueduct
Orange County Water District	PQP Lands in Prado Wetlands
Riverside-Corona Resource Conservation District	Conservation easements: Altfillisch, multiple in Temescal Wash and tributary drainage(s), Bedford, McBride, Lee Lake, multiple in Olsen Canyon area, and adjacent to Cleveland National Forest
Riverside County Flood Control and Water Conservation District	PQP Lands of multiple Flood Control Facilities/Properties
Riverside County Habitat Conservation Authority (RCHCA)	Multiple Properties
Riverside County Regional Park and Open-Space District	Bogart County Park, Box Springs North, Kabian Park, Johnson Ranch, Jurupa East, Norton/Younglove Reserve, Santa Rosa Plateau Ecological Reserve, Southwestern Riverside County Multi-Species Reserve, Valley Hi Oaks, and PQP Lands in Santa Ana River and Del Luz Creek

TABLE B-1
Access Agreements and RCA Lands Surveyed in 2024

Landowner/Land Managing Entity	Property/Conserved Lands Name
Riverside County Transportation Department	Clinton Keith Road over Warm Springs Creek and road overcrossing
San Bernardino National Forest	Portions designated as PQP Lands
U.S. Bureau of Land Management (BLM)	BLM land designated as PQP Lands
U.S. Department of Agriculture	PQP Lands in Cleveland National Forest
Western Riverside County Regional Conservation Authority	<p>Anheuser Busch Phase 1, Anheuser Busch Phase 5, Anheuser Busch Phase 8, Anheuser Busch Phase 9, Anza Knolls, B Canyon 2, Bautista Canyon, Belle Terre, Benton 36 acres/Yoo, Boonklun, Cal Trans Hwy 79, Calvary Chapel of Murrieta, Carlsbad Dev, Tran/Clarke, Cordova Phase 1, Delgado Phase 3, Delgado Phase 4, Deetz/Fenster/Wieler, EIP Walker Canyon, El Sol Vineyard Hill Donation, Emerald Aliso, Fleming French Valley Phase 2, French Valley Donation, Gentry, Gentry Rita and Linnea, Hannon, Hwang, KB Home Coastal Donation #3, KB SJ River Donation, Kiley Donation, JPR Inc (APN: 579390011), JPR Inc (APN: 579160025), JPR Inc (6)- APN: 579020010, Henry, Lake Skinners Investors, Mc Elhinney/Stimmel, Mustang Lane, Nuevo Donation, Odegaard, Olsen Canyon, Paul, Rafco Phase 2, RCTC Dilworth Donation, RCTC Dilworth Donation #2, RCTC R&G Donation Phase 1 & 2, Reden Phase 3, Reden Gregory & Carol #2, Reynolds Phase 1 (Smith & Reynolds), RHW Phase 2, SDI Communities LLC, Schleuniger, Shiang, So Cal Gas La Paloma Donation, Sunland Donation, Teledyne, Terra Investment, United Five Star Capital (1), United Five Star Capital (4), Warren Rd Partners Phase 2, Wilhelm Ranch, Walker, Wilson Creek, Wilson Creek CB (SDI Community) Wilson Creek/JST, Winchester 700 Anza , Winchester 700 Murrieta, Winchester 700 Reed Valley, Wolfskill/Driscoll, Geller, North Peak #2, Gritton, White Rock 1, White Rock 2, White Rock 3, Trivalley, Toscana Donation Phase 5, Patterson, RCTC Chen Donation, Endres/Larson</p>

**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
Arroyo Toad	<i>Bufo californicus</i>	Objective 2: Include within the MSHCP Conservation Area at least nine Core Areas which include portions of San Juan Creek, Los Alamos Creek, San Jacinto River, Indian Creek, Bautista Creek, Wilson Creek, Temecula Creek, Arroyo Seco, and Vail Lake.	-	-	-	-
		Objective 6: Maintain breeding populations at a minimum of 80% of the conserved breeding locations as measured by the presence/absence of juvenile toads, tadpoles, or egg masses across any five consecutive years. <i>Note: Breeding detected in 3 of 9 (33%) Core Areas.</i>	5	F / D	F / N	NO
California Red-legged Frog	<i>Rana aurora draytonii</i>	Objective 2: Include within the MSHCP Conservation Area the Core Areas in the Santa Rosa Plateau and the southern Santa Ana Mountains, and the intervening lands which shall provide movement between the Core Areas. The intervening lands are primarily situated around Avenoloca Mesa, Redonda Mesa, slopes and foothills of Squaw Mountain, and Alamos Canyon.	-	-	-	-
California Red-legged Frog	<i>Rana aurora draytonii</i>	Objective 6: Within the MSHCP Conservation Area, determine if successful reproduction is occurring as measured by the presence/absence of tadpoles, egg masses, or juvenile frogs once a year for the first five years after permit issuance and then as determined by the Reserve Management Oversight Committee as described in Section 6.6, MSHCP Volume I (but not less frequently than every 8 years) (Cook et. al. 2012). <i>Note: Reproduction detected in 1 of 2 (50%) Core Areas. Used survey data from USGS at Santa Rosa Plateau.</i>	8	F / N	N / N	NO

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§ See Volume 1, Section 5, Table 5-8 of the MSHCP

**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
Coast Range Newt	<i>Taricha tarosa tarosa</i>	Objective 5: Maintain occupancy of at least 75% of occupied habitat and determine if successful reproduction is occurring within the MSHCP Conservation Area as measured by the presence/absence of larvae or egg masses not less frequently than every 8 years. <i>Note: Species detected in 23 of 27 (85%) known occupied habitat locations. Successful reproduction detected.</i>	8	F / D	N / N	YES
Mountain Yellow-legged Frog	<i>Rana muscosa</i>	Objective 2: Include within the MSHCP Conservation Area the Core Areas above 370 meters at the North Fork of the San Jacinto River (including Dark Canyon), Hall Canyon, and Fuller Mill Creek and other perennial water streams in the San Jacinto Mountains.	-	-	-	-
		Objective 6: Maintain successful reproduction as measured by the presence/absence of tadpoles, egg masses, or juvenile frogs not less frequently than every 8 years. <i>Note: Reproduction detected in 1 of 3 (33%) Core Areas. Used data from USGS surveys at Dark Canyon.</i>	8	F / D	N / N	NO
Western Spadefoot	<i>Scaphiopus hammondii</i>	Objective 4: Maintain successful reproduction at a minimum of 75% of the conserved breeding locations as measured by the presence/absence of tadpoles, egg masses, or juvenile toads once every 8 years. <i>Note: Reproduction detected in 13 of 16 (81%) conserved breeding locations.</i>	8	F / D	F / D	YES

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
Belding's Orange-throated Whiptail	<i>Cnemidophorus hyperythrus beldingi</i>	Objective 2: Include within the MSHCP Conservation Area at least nine Core Areas including Santa Rosa Plateau, Lake Skinner-Diamond Valley Lake, Lake Mathews-Estelle Mountain, San Jacinto Wildlife Area-Lake Perris, the Badlands, Potrero Valley, the Banning Bench, Sage/Vail Lake, and Anza Valley and numerous smaller Proposed and Existing Noncontiguous Habitat Blocks.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of Core Areas as described in Objective 2. <i>Note: Species detected in 6 of 9 (67%) Core Areas.</i>	8	F / D	F / D	NO
Coastal Western Whiptail	<i>Cnemidophorus tigris multiscutatus</i>	Objective 2: Include within the MSHCP Conservation Area at least 13 Core Areas at the Santa Rosa Plateau, Lake Skinner-Diamond Valley Lake, Lake Mathews-Estelle Mountain, San Jacinto Wildlife Area-Lake Perris, the Badlands, Potrero Valley, the Banning Bench, Sage/Vail Lake, Anza Valley, Agua Tibia Wilderness, Santa Ana Mountain foothills, Santa Ana River, and Paloma Valley/Hogbacks.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of Core Areas as described in Objective 2. <i>Note: Species detected in 12 of 13 (92%) Core Areas.</i>	8	F / D	F / D	YES
Granite Night Lizard	<i>Xantusia henshawi henshawi</i>	Objective 2: Include within the MSHCP Conservation Area at least 9 Core Areas at the Lake Skinner-Diamond Valley Lake, San Jacinto Wildlife Area-Lake Perris, the Badlands, Potrero Valley, the Banning Bench, Sage/Vail Lake/Wilson Valley, Agua Tibia Mountains, San Jacinto Mountains, and Anza Valley.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of Core Areas as described in Objective 2.	8	F / D	N / I	NO

* Only objectives evaluated by the Biological Monitoring Program are included; other objectives in this table were provided for reference purposes only. Objectives have been shortened to fit in the table; for full text, see the Species Accounts in Volume 2 of the MSHCP.

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		<i>Note: Species detected in 6 of 9 (67%) Core Areas.</i>				
Granite Spiny Lizard	<i>Sceloporus orcutti</i>	Objective 2: Include within the MSHCP Conservation Area at least 12 Core Areas at the Santa Rosa Plateau, Lake Skinner-Diamond Valley Lake, Lake Mathews-Estelle Mountain, San Jacinto Wildlife Area-Lake Perris, the Badlands, Potrero Valley, the Banning Bench, Sage/Vail Lake, Aqua Tibia Mountains, San Jacinto Mountains, Santa Ana Mountains, and Anza Valley.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of Core Areas as described in Objective 2. <i>Note: Species detected in 11 of 12 (92%) Core Areas.</i>	8	F / D	F / D	YES
Northern Red-diamond Rattlesnake	<i>Crotalus ruber ruber</i>	Objective 2: Include within the MSHCP Conservation Area at least 10 Core Areas at the Santa Ana Mountains, Agua Tibia Mountains, San Jacinto Mountains, Lake Skinner-Diamond Valley Lake, Lake Mathews-Estelle Mountain, San Jacinto Wildlife Area-Lake Perris, the Badlands, Potrero Valley, the Banning Bench, Sage/Vail Lake, and Anza Valley.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of Core Areas as described in Objective 2. <i>Note: Species detected in 8 of 10 (80%) Core Areas.</i>	8	F / D	F / D	YES
San Bernardino Mountain Kingsnake	<i>Lampropeltis zonata parvirubra</i>	Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of Core Areas as described in Species Account. <i>Note: Species detected in 1 of 2 (50%) Core Areas.</i>	8	F / D	F / I	NO

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023 [†]	2024 [†]	Objective* Currently Met? [‡]
San Diego Banded Gecko	<i>Coleonyx variegatus abbotti</i>	Objective 2: Include within the MSHCP Conservation Area at least 7 Core Areas at the San Jacinto foothills, Lake Skinner-Diamond Valley Lake, Lake Mathews-Estelle Mountain, San Jacinto Wildlife Area-Lake Perris, the Badlands, Santa Ana Mountains, and Sage/Vail Lake.	-	-	-	-
		Species Objective (MSHCP Table 5-8) [§] : 75% Minimum level of occupation of Core Areas as described in Objective 2. <i>Note: Species detected in 1 of 7 (14%) Core Areas.</i>	8	F / D	F / N	NO
San Diego Horned Lizard	<i>Phrynosoma coronatum blainvillei</i>	Objective 2: Include within the MSHCP Conservation Area at least 13 Core Areas at the Santa Rosa Plateau, Lake Skinner-Diamond Valley Lake, Lake Mathews-Estelle Mountain, San Jacinto Wildlife Area-Lake Perris, the Badlands, Potrero Valley, the Banning Bench, Sage/Vail Lake, Anza Valley, Agua Tibia Wilderness, Paloma Valley/Hogbacks, Santa Ana Mountain foothills, and Santa Ana River.	-	-	-	-
		Species Objective (MSHCP Table 5-8) [§] : 75% Minimum level of occupation of Core Areas as described in Objective 2. <i>Note: Species detected in 10 of 13 (77%) Core Areas.</i>	8	F / D	F / D	YES
San Diego Mountain Kingsnake	<i>Lampropeltis zonata pulchra</i>	Species Objective (MSHCP Table 5-8) [§] : 75% Minimum level of occupation of Core Areas as described in Species Account. <i>Note: Species detected in 1 of 3 (33%) Core Areas.</i>	8	F / D	N / I	NO

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[†] Survey Type/Detection Type: F / D = focused survey, species detected; F / N = focused survey, species not detected; F / I = focused survey, species not detected during survey but detected incidentally; N / I = no focused survey but detected incidentally; N / N = no focused survey and not detected; N / D = no focused survey by the Monitoring Program but species detected during focused survey by agency reported in parentheses.

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
Southern Rubber Boa	<i>Charina bottae umbratica</i>	Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of Core Area as described in the Species Account. <i>Note: Species detected in 0 of 1 (0%) Core Areas.</i>	8	F / I	F / N	NO
Southern Sagebrush Lizard	<i>Sceloporus graciosus vandenburgianus</i>	Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of Core Areas as described in the Species Account. <i>Note: Species detected in 1 of 2 (50%) Core Areas.</i>	8	F / D	F / D	NO
Western Pond Turtle	<i>Clemmys marmorata pallida</i>	Objective 2: Include within the MSHCP Conservation Area at least eight Core Areas, including but not limited to, Cajalco Creek, San Mateo Creek, Santa Ana River, Chino Creek, Temecula Creek, Murrieta Creek, Santa Rosa Plateau, and San Jacinto River.	-	-	-	-
		Objective 5: Maintain continued use at a minimum of 75% of the conserved Core Areas as measured once every 3 years. <i>Note: Species detected in 5 of 8 (63%) Core Areas.</i>	3	F / D	F / D	NO
American Bittern	<i>Botaurus lentiginosus</i>	Objective 2: Include within the MSHCP Conservation Area at least 3 Core Areas including Mystic Lake/San Jacinto Wildlife Area (Subunit 4 of Reche Canyon/Badlands Area Plan), a possible nesting area, Santa Ana River/Prado Basin, a known nesting area, and Collier Marsh (Proposed Linkage 2), a potential nesting area, as well as other suitable habitat locations at Lake Skinner/Diamond Valley Lake (Existing Core J), Lake Mathews (Existing Core C), Vail Lake (Subunit 3 of Southwest Area Plan), Temescal Wash (Subunit 3 of Temescal Canyon Area Plan), and Temecula Creek (Subunit 2 of Southwest Area Plan).	-	-	-	-

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		Objective 4: Maintain (once every 8 years) the continued use of 50% of the Core Areas. <i>Note: Species detected in 2 of 3 (67%) Core Areas.</i>	8	F / D	N / I	YES
Bald Eagle	<i>Haliaeetus leucocephalus</i>	Objective 1: Include within the MSHCP Conservation Area at least 10,340 acres of open water habitat at the following seven open water bodies and one drainage: Lake Mathews, Diamond Valley Lake, Lake Skinner, Lake Elsinore, Vail Lake, Lake Perris, Mystic Lake and Santa Ana River. Include within the MSHCP Conservation Area 5,520 acres of suitable riparian habitat within the Prado Basin and Santa Ana River.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of identified locations (open water bodies) as described in Objective 1. <i>Note: Species detected at 5 of 8 (63%) identified water bodies.</i>	8	F / D	N / I	NO
Bell's Sage Sparrow	<i>Amphispiza belli belli</i>	Objective 2: Include within the MSHCP Conservation Area at least 12 of 14 Core Areas and interconnecting linkages for Bell's sage sparrow. Core Areas will include the Jurupa Mountains (Proposed Noncontiguous Habitat Block 2), Lake Mathews-Estelle Mountain (Existing Core C plus Proposed Extension of Existing Core 2), Wasson Canyon (Subunit 5 of Elsinore Area Plan), Sedco Hills (Proposed Linkage 8), Hogbacks (Proposed Core 2), Lake Skinner/Diamond Valley Lake (Existing Core C plus Proposed Extension of Existing Cores 5, 6, 7), Vail Lake/Wilson Valley/Aguanga (Proposed Core 7), Tule Valley (Proposed Core 6), Lakeview Mountains (Proposed Noncontiguous Habitat Block 5), Lake Perris (Existing Core H), Badlands (Proposed Core 3), and Box Springs Mountains (Existing Noncontiguous Habitat Block A plus Proposed Constrained Linkage 8).	-	-	-	-

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		Species Objective (MSHCP Table 5-8) §: 75% Minimum level of occupation of Core Areas as described in Objective 2. <i>Note: Species detected in 10 of 12 (83%) Core Areas.</i>	8	F / D	N / I	YES
Black Swift	<i>Cypseloides niger</i>	Objective 1: Include within the MSHCP Conservation area deciduous woodland and forest and montane coniferous forest within the San Bernardino Mountains and San Jacinto Mountains Bioregions to provide breeding and foraging habitat, including the known nesting location of the black swift at Tahquitz Creek within the San Jacinto Wilderness Area and the potential nesting location at the north fork of the San Jacinto River in the San Jacinto Mountains.	-	-	-	-
		Species Objective (MSHCP Table 5-8) §: 75% Minimum level of occupation of bioregions as described in the Species Account. Objective based on landscape level habitat conservation on US Forest Service Lands. <i>Note: Species detected in 0 of 2 Bioregions (0%).</i>	8	F / I	N / N	NO
Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	Objective 2: Include within the MSHCP Conservation Area at least the 3 known and historic breeding locations in the Prado Basin/Santa Ana River, Mystic Lake/San Jacinto Wildlife Area, and Collier Marsh areas.	-	-	-	-
		Species Objective (MSHCP Table 5-8) §: 75% Minimum level of occupation of Core Areas as described in Objective 2. <i>Note: Species detected in 3 of 3 (100%) known and historic breeding locations.</i>	8	N / I	N / I	YES

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Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
Burrowing Owl	<i>Athene cunicularia hypugaea</i>	Objective 2: Include within the MSHCP Conservation Area at least 5 Core Areas and interconnecting linkages. Core Areas may include the following: (1) Lake Skinner/Diamond Valley Lake area; (2) playa west of Hemet; (3) San Jacinto Wildlife Area/Mystic Lake area including Lake Perris area; (4) Lake Mathews and (5) along the Santa Ana River.	-	-	-	-
		Objective 2 (continued): The Core Areas should support a combined total breeding population of approximately 120 burrowing owls with no fewer than 5 pairs in any 1 Core Area. <i>Note: Burrowing Owl surveys show breeding population and pairs are below the requirements.</i>	8	F / D	F / D	NO
Cactus Wren	<i>Campylorhynchus brunneicapillus</i>	Objective 2: Include within the MSHCP Conservation Area at least 11 Core Areas and interconnecting linkages including Chino Hills (Proposed Extension of Existing Core 1), Badlands (Proposed Core 3), Box Springs Mountains (Existing Noncontiguous Habitat Block A plus Proposed Constrained Linkages 7 and 8), Lake Mathews-Estelle Mountain area (Existing Core C plus Proposed Extension of Existing Core 2), Alberhill (Subunit 2 of Elsinore Area Plan), Motte-Rimrock area MSHCP Conservation Area (Proposed Noncontiguous Habitat Block 4), Lake Perris/Bernasconi Hills (Existing Core H), Lake Skinner (Existing Core C plus Proposed Extension of Existing Cores 5, 6, 7), Vail Lake (Subunit 3 of Southwest Area Plan), Wilson Valley (Subunit 2 of REMAP Area Plan), and Aguanga (Subunit 4 of REMAP Area Plan).	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of Core Areas as described in Objective 2.	8	F / D	N / I	NO

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		<i>Note: Species detected in 3 of 11 (27%) Core Areas. Species only consistently present in southeastern portion of Plan Area.</i>				
California Horned Lark	<i>Eremophila alpestris actia</i>	Objective 2: Include within the MSHCP Conservation Area at least 3 Core Areas and a portion of a fourth Core Area for the California horned lark including grasslands around Prado Basin (including the adjacent Santa Ana River area), Wasson Canyon (Subunit 5 of Elsinore Area Plan), Mystic Lake/San Jacinto Wildlife Area (Subunit 4 of Reche Canyon/Badlands Area Plan), and a portion of the Core Area in the Murrieta/Murrieta Hot Springs area (Proposed Core 2). Other locations are conserved as well, although they may not include Core Areas. These other locations include Lake Elsinore grasslands, Santa Rosa Plateau, and Wilson Valley.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of Core Areas as described in Objective 2. <i>Note: Species detected in 4 of 4 (100%) Core Areas.</i>	8	F / D	N / I	YES
California Spotted Owl	<i>Strix occidentalis occidentalis</i>	Objective 1: Include within the MSHCP Conservation Area suitable montane coniferous forest and oak deciduous woodland and forest habitats within the Santa Ana Mountains, San Bernardino Mountains, and San Jacinto Mountains Bioregions for breeding, foraging, wintering use, and dispersal movement for the California spotted owl.	-	-	-	-

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Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of bioregions as described in the Species Account. <i>Note: Species detected (by SBNF contractor) in 1 of 3 (33%) Bioregions.</i>	8	F / D	N / N	NO
Coastal California Gnatcatcher	<i>Poliophtila californica californica</i>	Objective 2: Include within the MSHCP Conservation Area at least 13 of the Core Areas and interconnecting linkages within 9 Core and Linkage areas including El Cerrito/Lake Mathews-Estelle Mountain Reserve (Existing Core C plus Proposed Extension of Existing Core 2), Alberhill area (Subunit 2 of the Elsinore Area Plan), the proposed North Peak Conservation Bank/Meadowbrook area (Subunit 6 of the Elsinore Area Plan), Wasson Canyon (Subunit 5 of the Elsinore Area Plan), Railroad Canyon/Sedco Hills (Proposed Linkage 8), a portion of the Quail Valley area (Proposed Linkage 7), Hogbacks/Murrieta Hot Springs (Proposed Core 2 plus Existing Constrained Linkage A), Lake Skinner/Buck Road to Pourroy Road east of Murrieta Hot Springs (Existing Core J plus Proposed Extension of Existing Core 5, 6, and 7), Vail Lake/Wilson Valley including the eastern Temecula Creek area (Proposed Core 7).	-	-	-	-
		Objective 3: Maintain (once every 3 years) continued use of and successful reproduction at 75% of the Core Areas. <i>Note: Species detected in 9 of 9 (100%) Core Areas. Successful reproduction detected in 9 of 9 (100%) Core Areas.</i>	3	F / D	F / D	YES
Cooper's Hawk	<i>Accipiter cooperii</i>	Objective 2: Include within the MSHCP Conservation Area at least 10 Core Areas at (1) the Prado Basin/Santa Ana River, (2) San Timoteo Canyon (Subunit 3 of The Pass Area Plan), (3) Temescal Wash (Subunit 3 of Temescal Canyon Area Plan), (4) Wasson Canyon (Subunit 5 of Elsinore Area Plan), (5) Temecula Creek (Subunit 2 of Southwest Area Plan), (6) Murrieta Creek (Subunit 1 of Southwest	-	-	-	-

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Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023 [†]	2024 [†]	Objective* Currently Met? [‡]
		Area Plan), (7) Vail Lake (Subunit 3 of Southwest Area Plan), (8) Wilson Valley (Subunit 2 of REMAP Area Plan), (9) San Bernardino National Forest (Existing Core K), (10) Cleveland National Forest (Existing Core B).				
		Species Objective (MSHCP Table 5-8) [§] : 75% Minimum level of occupation of Core Areas as described in Objective 2. <i>Note: Species detected in 9 of 10 (90%) Core Areas.</i>	8	F / D	N / I	YES
Double-crested Cormorant	<i>Phalacrocorax auritus</i>	Objective 1: Include within the MSHCP Conservation Area 16,100 acres of open water habitat within seven open water bodies and one drainage including Lake Mathews, Diamond Valley Lake, Lake Skinner, Lake Elsinore, Vail Lake, Lake Perris, Mystic Lake and Prado Basin/Santa Ana River and the wetland habitats within Prado Basin/Santa Ana River.	-	-	-	-
		Species Objective (MSHCP Table 5-8) [§] : 75% Minimum level of occupation of identified locations (open water habitat) as described in Objective 1. <i>Note: Species detected in 6 of 8 (75%) identified water bodies.</i>	8	F / D	N / I	YES
Downy Woodpecker	<i>Picoides pubescens</i>	Objective 2: Include within the MSHCP Conservation Area the 5 Core Areas and linkages within the Prado Basin/Santa Ana River, Vail Lake (Subunit 3 of the Southwest Area Plan), Temescal Wash (Subunit 3 of the Temescal Canyon Area Plan), Alberhill Creek (Subunit 2 of the Elsinore Area Plan), and Temecula Creek (Subunit 2 of the Southwest Area Plan).	-	-	-	-

* Only objectives evaluated by the Biological Monitoring Program are included; other objectives in this table were provided for reference purposes only. Objectives have been shortened to fit in the table; for full text, see the Species Accounts in Volume 2 of the MSHCP.

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[§] See Volume 1, Section 5, Table 5-8 of the MSHCP

**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of Core Areas as described in Objective 2. <i>Note: Species detected in 3 of 5 (60%) Core Areas.</i>	8	F / D	N / I	NO
Ferruginous Hawk	<i>Buteo regalis</i>	Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of identified locations as described in the Species Account. <i>Note: Species detected in 1 of 2 (50%) identified locations.</i>	8	F / D	N / I	NO
Golden Eagle	<i>Aquila chrysaetos</i>	Objective 2: Include within the MSHCP Conservation Area and buffer from disturbance the known nesting locations at Temecula Gorge, in the hills north of Aguanga west of State Route 371, at Elsinore Peak, at Rawson Canyon, at Mesa de Burro on Santa Rosa Plateau, and in San Timoteo Canyon (likely nest). Buffering of the nest sites will include conservation of undeveloped habitat in the MSHCP Conservation Area within a one-mile radius around each of the nest site locations and may include a variety of habitats.	-	-	-	-
		Objective 3: Maintain (once every 8 years) the continued use of and successful reproduction at 75% of the known nesting localities (including any nesting locations identified in the MSHCP Conservation Area in the future). <i>Note: Species detected near 3 of 6 (50%) known nesting locations. Successful reproduction detected at 0 of 6 (0%) known nesting locations.</i>	8	F / D	N / I	NO
Grasshopper Sparrow	<i>Ammodramus savannarum</i>	Objective 2/MSHCP Table 9-3: Maintain occupancy within 3 large Core Areas (100%) and at least 3 of the 4 smaller Core Areas (75%) in at least 1 year out of any 5 consecutive-year period. In order for this species to become a Covered Species	1 to 5	F / D	F / D	Partial

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		<p>Adequately Conserved, the following Conservation must be demonstrated: Include within the Conservation Area at least 8,000 acres in 7 potential Core Areas. Core Areas may include the following: (1) Prado Basin, (2) Lake Skinner/Diamond Valley Lake/Johnson Ranch area, (3) Lake Mathews-Estelle Mountain, (4) Badlands, (5) Box Springs, (6) Santa Rosa Plateau/Tenaja, (7) Kabian Park, (8) Steele Peak, (9) Sycamore Canyon, (10) Potrero, and (11) Mystic Lake/San Jacinto Wildlife Area. Three of the 7 Core Areas will be large, consisting of a minimum of 2,000 acres of grassland habitat or grassland-dominated habitat. The other 4 Core Areas may be smaller but will consist of at least 500 acres of contiguous grassland habitat or grassland-dominated habitat. Five of the 7 Core Areas will be demonstrated to support at least 20 grasshopper sparrow pairs with evidence of successful reproduction within the first 5 years after permit issuance.</p> <p>Covered Species not adequately conserved until Objective 2 is met.</p> <p><i>Note: Species detected in 3 of 3 (100%) large Core Areas. Species detected in 1 of 4 (25%) small Core Areas. Reproduction detected in 2 of 7 (28%) Core Areas of any size in 2019 (not within the first 5 years after permit issuance).</i></p>				
Great Blue Heron	<i>Ardea herodias</i>	Objective 2: Include within the MSHCP Conservation Area at least the 3 known breeding locations, in the Santa Ana River/Prado Basin, Lake Skinner area (Existing Core J), and Collier Marsh areas (Proposed Linkage 2).	-	-	-	-
		<p>Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of identified locations as described in Objective 2.</p> <p><i>Note: Species found 3 of 3 (100%) identified locations.</i></p>	8	F / D	N / I	YES

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
Least Bell's Vireo	<i>Vireo bellii pusillus</i>	Objective 2: Include within the MSHCP Conservation Area at least 8 Core Areas and interconnecting linkages. Core Areas could include the following areas: 1) the Prado Basin/Santa Ana River; 2) Temescal Wash including Alberhill Creek (includes Subunit 3 of the Temescal Canyon Area Plan plus Proposed Linkage 2 and Proposed Constrained Linage 6); 3) Murrieta Creek (Subunit 1 of the Southwest Area Plan); 4) Temecula Creek (Subunit 2 of the Southwest Area Plan); 5) Lake Skinner/Diamond Valley Lake area (including Rawson Canyon) (Existing Core C, Proposed Extension of Existing Cores 5, 6, 7); 6) Vail Lake (Subunit 3 of the Southwest Area Plan); 7) Wilson Valley (Subunit 2 of the REMAP Area Plan) and 8) San Timoteo Canyon (Subunit 3 of The Pass Area Plan).	-	-	-	-
		Objective 4: Maintain (once every 3 years) the continued use of and successful reproduction at 75% of the known vireo-occupied habitat (including any nesting locations identified in the MSHCP Conservation Area in the future). <i>Note: Species detected in 6 of 8 (75%) Core Areas. Successful reproduction detected in 6 of 8 (75%) Core Areas.</i>	3	F / D	N / I	YES
Lincoln's Sparrow	<i>Melospiza lincolnii</i>	Objective 3/MSHCP Table 9-3: Maintain occupancy within 3 large Core Areas (100%) in at least 1 year out of any 5-consecutive-year period. In order for this species to become a Covered Species Adequately Conserved, the following conservation must be demonstrated: Include within the MSHCP Conservation Area at least 100 acres in 3 Core Areas. Core Areas may include the following: (1) Tahquitz Valley; (2) Round Valley; (3) Garner Valley. The 3 Core Areas will be large, consisting of a minimum of 50 acres of montane meadow, wet montane meadow, and edges of montane riparian or riparian scrub. The Core Areas will be demonstrated to support at least 20 Lincoln sparrow pairs with evidence of successful reproduction within the first 5 years after permit issuance.	-	-	-	-

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		<p>Covered Species not adequately conserved until Objective 3 is met.</p> <p><i>Note: Species not detected in 2008 surveys. Two of the suggested Core Areas are outside of the Plan Area. Reproductive objective possibly will not be met because suitable breeding habitat is difficult to locate in the Plan Area, and species is rarely present during the breeding season. Species found in 1 of 3 (33%) Core Area from 2020-2024.</i></p>	1 to 5	F / D	N / I	NO
Loggerhead Shrike	<i>Lanius ludovicianus</i>	<p>Objective 2: Include within the MSHCP Conservation Area at least 8 of 12 breeding and foraging locations constituting Core Areas including Prado Basin/Santa Ana River, Lake Mathews-Estelle Mountain area (Existing Core C plus Proposed Extended Existing Core 2), Wasson Canyon (Subunit 5 of the Elsinore Area Plan), Temecula Creek (Subunit 2 of the Southwest Area Plan), Wilson Valley (Subunit 2 of the REMAP Area Plan), Quail Valley (Proposed Linkage 7), Lake Perris/Mystic Lake/San Jacinto Wildlife Area (Existing Core H), and Badlands.</p>	-	-	-	-
		<p>Objective 3: Maintain (once every 8 years) the continued use of, and successful reproduction within, 75% of the Core Areas.</p> <p><i>Note: Species detected in 6 of 8 (75%) Core Areas. Successful reproduction detected in 4 of 8 (50%) Core Areas.</i></p>	8	F / D	N / I	Partial
MacGillivray's Warbler	<i>Oporornis tolmiei</i>	<p>Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in the Species Account.</p> <p><i>Note: Species detected in 0 of 11 (0%) known locations. A single observation (2020) was not in any of the above known locations.</i></p>	8	F / D	N / N	NO

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Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
Merlin	<i>Falco columbarius</i>	Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in the Species Account. <i>Notes: Species detected in 5 of 8 (63%) known locations.</i>	8	F / D	N / I	NO
Mountain Plover	<i>Charadrius montanus</i>	Objective 2: Include within the MSHCP Conservation Area at least 4 Core Areas and interconnecting linkages. The Core Areas will consist of two "large" areas (at least 2,500 acres of suitable habitat: playa, grassland, fallow agriculture) and two smaller areas (at least 1,000 acres of suitable habitat). Core Areas shall include the following areas: San Jacinto River floodplain (Proposed Core 5, Existing Constrained Linkage C, Proposed Extension of Existing Core 4, and Proposed Constrained Linkage 19), Mystic Lake/San Jacinto Wildlife Area (Existing Core H), and the playa west of Hemet (Proposed Noncontiguous Habitat Block 7), and may include areas adjacent to Lake Elsinore (Subunit 7 of Elsinore Area Plan), Lake Skinner/Diamond Valley Lake (Existing Core C plus Proposed Extension of Existing Cores 5, 6, 7), and Lake Matthews (Existing Core C plus Proposed Extension of Existing Core 2).	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of Core Areas as described in Objective 2. <i>Note: Species detected in 0 of 4 (0%) Core Areas.</i>	8	F / D	N / N	NO
Mountain Quail	<i>Oreortyx pictus</i>	Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of Bioregions as described in the Species Account. <i>Note: Species detected in 4 of 4 (100%) Core Areas.</i>	8	N / I	N / I	YES

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Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
Nashville Warbler	<i>Vermivora ruficapilla</i>	Objective 2: Include within the MSHCP Conservation Area at least three Core Areas. Core Areas will include the known breeding locations at Lake Fulmor and Pine Cove (represented by MSHCP Conservation Areas within the San Bernardino National Forest) and one additional breeding area identified within the MSHCP Conservation Area.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of Core Areas as described in Objective 2. <i>Note: Species detected in 0 of 3 (0%) Core Areas. Species is uncommonly detected as a spring and fall migrant, and is unlikely to breed within the Plan Area. Species detected 15 times from 2017-2024.</i>	8	F / I	N / N	NO
Northern Goshawk	<i>Accipiter gentilis</i>	Objective 2: Within the MSHCP Conservation Area, protect and buffer from disturbance the 2 known nest sites (Lake Fulmor and San Jacinto Wilderness area), the possible nest site within Tahquitz Valley and any additional nesting locations.	-	-	-	-
		Objective 3: Maintain (once every 3 years) the continued use of and successful reproduction at a minimum of 75% of the known nesting localities. <i>Note: Species detected at 0 of 2 (0%) known nesting localities. Reproduction detected at 0 of 2 (0%) known nesting localities.</i>	3	F / I	N / N	NO
Northern Harrier	<i>Circus cyaneus</i>	Objective 5: Maintain (once every 5 years) the continued use of, and successful reproduction at, 75% of the known nesting areas (including any nesting locations identified in the MSHCP Conservation Area in the future). <i>Note: Species detected in 6 of 7 (86%) Core Areas.</i>	5	F / D	N / I	Partial

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Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		<i>Successful reproduction detected in 0 of 7 (0%) Core Areas.</i>				
Osprey	<i>Pandion haliaetus</i>	Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of identified locations as described in the Species Account. <i>Note: Species detected at 5 of 8 (63%) identified locations.</i>	8	F / D	N / I	NO
Peregrine Falcon	<i>Falco peregrinus</i>	Objective 1: Include within the MSHCP Conservation Area at least 10,340 acres of open water Habitat at the following seven open water bodies and one drainage: Lake Mathews, Diamond Valley Lake, Lake Skinner, Lake Elsinore, Vail Lake, Lake Perris, Mystic Lake/San Jacinto Wildlife Area, and Prado Basin/Santa Ana River and the 5,520 acres of suitable riparian Habitat within the Prado Basin/Santa Ana River.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of identified locations (open water habitat) as described in Objective 1. <i>Note: Species detected at 6 of 8 (75%) identified locations.</i>	8	F / D	N / I	YES
Prairie Falcon	<i>Falco mexicanus</i>	Objective 1: Include within the MSHCP Conservation Area at least 141,510 acres of suitable open and scrub Habitats including grassland, playa and vernal pool, Riversidean alluvial fan sage scrub, coastal sage scrub, and desert scrubs. Conservation will occur in large blocks throughout the Plan Area, including at a minimum: Mystic Lake/San Jacinto Wildlife Area, Lakeview Mountains, and Vail Lake.	-	-	-	-

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Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		Species Objective (MSHCP Table 5-8) §: 75% Minimum level of occupation of identified locations as described in Objective 1. <i>Note: Species found at 1 of 3 (33%) identified locations. Species is distributed elsewhere in the Plan Area.</i>	8	F / D	N / I	NO
Purple Martin	<i>Progne subis</i>	Objective 2: Include within the MSHCP Conservation Area the 2 Core Areas including Dripping Springs (represented by Vail Lake) and Thomas Mountain (represented by the San Bernardino National Forest).	-	-	-	-
		Species Objective (MSHCP Table 5-8) §: 75% Minimum level of occupation of Core Areas as described in Objective 2. <i>Note: Species detected near 1 of 2 (50%) Core Areas; Thomas Mountain.</i>	8	F / I	N / N	NO
Sharp-shinned Hawk	<i>Accipiter striatus</i>	Species Objective (MSHCP Table 5-8) §: 75% Minimum level of occupation of Core Areas as described in the Species Account. <i>Note: Species found in 11 of 26 (42%) known locations.</i>	8	F / D	N / I	NO
Southern California Rufous-crowned Sparrow	<i>Aimophila ruficeps canescens</i>	Objective 2: Include within the MSHCP Conservation Area at least 9 Core Areas and interconnecting linkages. Core areas will include: Lake Mathews-Estelle Mountain, Box Springs Mountains, Lake Perris, the Badlands, west of Lake Elsinore, Wasson Canyon, Lake Skinner (including Diamond Valley Lake), Wilson Valley, and the Hogbacks.	-	-	-	-
		Species Objective (MSHCP Table 5-8) §: 75% Minimum level of occupation of Core Areas as described in Objective 2. <i>Note: Species found in 9 of 9 (100%) Core Areas.</i>	8	F / D	N / I	YES

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Southwestern Willow Flycatcher	<i>Empidonax traillii extimus</i>	Objective 2: Include within the MSHCP Conservation Area at least 6 Core Areas and interconnecting linkages. Core areas shall include the following areas: 1) Prado Basin/Santa Ana River, including Chino Creek, the Santa Ana River both up- and downstream of the Prado Dam, and the seven 2001 territories; 2) Temescal Wash including Alberhill Creek (estimated as Subunit 3 plus Proposed Constrained Linkage 6 and Proposed Linkage 2); 3) Murrieta Creek (Proposed Constrained Linkage 13); 4) Temecula Creek (Proposed Constrained Linkages 14 and 24); 5) San Timoteo Canyon (Proposed Linkages 5, 12 and Proposed Linkage 22); 6) Vail Lake.	-	-	-	-
		Objective 4: Maintain (once every three years) the continued use of, and successful reproduction at 75% of the known southwestern willow flycatcher occupied Core Areas (including any nesting locations identified in the MSHCP Conservation Area in the future).	3	F / D	N / N	NO
		<i>Note: Species detected in 1 of 6 (17%) Core Areas since 2004. Successful reproduction detected in 0 of 6 (0%) Core Areas.</i>				
Swainson's Hawk	<i>Buteo swainsoni</i>	Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of identified locations as described in the Species Account. <i>Note: Species detected in 2 of 9 (22%) known locations.</i>	8	F / D	N / N	NO
Tree Swallow	<i>Tachycineta bicolor</i>	Objective 2: Include within the MSHCP Conservation Area the 6 known Core Areas including the breeding populations in the Prado Basin/Santa Ana River and other Core Areas at Wasson Canyon, Temecula Creek, Lake Skinner, Vail Lake, and Wilson Valley. Include additional areas that may contain breeding populations including Lake Mathews, Lake Perris, and Lake Elsinore, and drainages and	-	-	-	-

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Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		woodland areas within the Cleveland National Forest and San Bernardino National Forest.				
		Species Objective (MSHCP Table 5-8) §: 75% Minimum level of occupation of Core Areas as described in Objective 2. <i>Note: Species detected in 4 of 6 (67%) Core Areas.</i>	8	F / D	N / I	NO
Tricolored Blackbird	<i>Agelaius tricolor</i>	Objective 2: Include within the MSHCP Conservation Area the 5 Core Areas, including San Jacinto River floodplain (Proposed Core 5, Existing Constrained Linkage C, Proposed Extension of Existing Core 4, and Proposed Constrained Linkage 19), Mystic Lake/San Jacinto Wildlife Area (Existing Core H), Collier Marsh and Lake Elsinore grasslands (Subunit 3 of Elsinore Area Plan), Alberhill (Subunit 2 of Elsinore Area Plan), and Vail Lake/Wilson Valley/eastern Temecula Creek (Proposed Core 7).	-	-	-	-
		Objective 4: Maintain (once every 5 years) the continued use of, and successful reproduction within at least 1 of the identified Core Areas. <i>Note: Species detected in 2 of 5 (40%) Core Areas. Successful reproduction detected in 1 of 5 (20%) Core Areas.</i>	5	F / D	N / I	YES
Turkey Vulture	<i>Cathartes aura</i>	Objective 4: Maintain (once every 3 years) the continued use of, and successful reproduction at the 2 known nesting locations and at nesting locations identified in the MSHCP Conservation Area in the future. <i>Note: Species detected in 6 of 7 (86%) identified locations. Successful reproduction detected in 0 of 3 (0%) known locations</i>	3	F / D	N / I	Partial

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Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
Western Yellow-billed Cuckoo	<i>Coccyzus americanus occidentalis</i>	Objective 2: Include within the MSHCP Conservation Area at least five Core Areas and interconnecting linkages. Core areas shall include the following areas: 1) Prado Basin/Santa Ana River, including Chino Creek, Mill Creek, and the Santa Ana River both up- and downstream of the Prado Dam; 2) Temescal Wash including Alberhill Creek (estimated as subunit 3 of Temescal Canyon Area Plan plus Proposed Constrained Linkage 6 and Proposed Linkage 2); 3) Murrieta Creek (Proposed Constrained Linkage 13); 4) Temecula Creek (Proposed Constrained Linkages 14 and 24); 5) San Timoteo Canyon (Proposed Linkages 5, 12 and Proposed Linkage 22).	-	-	-	-
		Objective 5: Maintain (once every 3 years) the continued use of, and successful reproduction at 75% of the known western yellow-billed cuckoo occupied Core Areas (including any nesting locations identified in the MSHCP Conservation Area in the future). <i>Note: Species detected in 0 of 5 (0%) Core Areas. Successful reproduction detected in 0 of 5 (0%) Core Areas.</i>	3	F / D	N / N	NO
White-faced Ibis	<i>Plegadis chihi</i>	Objective 2: Include within the MSHCP Conservation Area at least the two known breeding locations and foraging areas at the Prado Basin/Santa Ana River and Mystic Lake/San Jacinto Wildlife Area, and the core foraging areas at Collier Marsh and San Jacinto Valley.	-	-	-	-
White-faced Ibis	<i>Plegadis chihi</i>	Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of identified locations as described in Objective 2. <i>Note: Species detected in 4 of 4 (100%) identified locations.</i>	8	N / I	N / I	YES

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§ See Volume 1, Section 5, Table 5-8 of the MSHCP

**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
White-tailed Kite	<i>Elanus leucurus</i>	Objective 2: Include within the MSHCP Conservation Area at least 10 core breeding areas including 1) the Prado Basin/ Santa Ana River, 2) Lake Mathews-Estelle Mountain (Existing Core C), 3) Temescal Wash (Subunit 3 of Temescal Canyon Area Plan plus Proposed Constrained Linkage 6 and Proposed Linkage 2), 4) Wasson Canyon (Subunit 5 of Elsinore Area Plan), 5) Murrieta Creek (Subunit 1 of Southwest Area Plan), 6) Temecula Creek (Subunit 2 of Southwest Area Plan), 7) Vail Lake (Subunit 3 of Southwest Area Plan), 8) Wilson Valley (Subunit 2 of Southwest Area Plan), 9) Lake Skinner including the Diamond Valley Lake area (Existing Core C plus Proposed Extension of Existing Core 5, 6, 7), and 10) Lake Perris/Mystic Lake (Existing Core H).	-	-	-	-
		Objective 5: Maintain (once every 3 years) the continued use of, and successful reproduction at 75% of the core breeding areas (including any core breeding areas identified in the MSHCP Conservation Area in the future). <i>Note: Species detected in 3 of 10 (30%) Core Areas. Successful reproduction detected in 0 of 10 (0%) Core Areas.</i>	3	F / D	N / I	NO
Williamson's Sapsucker	<i>Sphyrapicus thyroideus</i>	Objective 1: Include within the MSHCP Conservation Area at least 34,020 acres of suitable breeding, wintering, and dispersal Habitat for the Williamson's sapsucker including oak woodland and forest and montane coniferous forest within the San Bernardino Mountains and San Jacinto Mountains Bioregions.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of Bioregions as described in Objective 1. <i>Note: Species detected in 1 of 2 (50%) Bioregions.</i>	8	F / D	N / N	NO

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
Wilson's Warbler	<i>Wilsonia pusilla</i>	Objective 1: Include within the MSHCP Conservation Area at least 198,850 acres of suitable montane meadow, riparian scrub, oak woodland and forest, coastal sage scrub, chaparral, and Riversidean alluvial fan sage scrub within the San Bernardino Mountains, San Jacinto Mountains, and Santa Ana Mountains Bioregions.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of Bioregions as described in Objective 1.	8	F / D	N / I	NO
		<i>Note: Species detected in 2 of 3 (67%) identified Bioregions.</i>				
Yellow-breasted Chat	<i>Icteria virens</i>	Objective 2: Include within the MSHCP Conservation Area at least 5 Core Areas including the Prado Basin/Santa Ana River, Temescal Wash including Alberhill Creek (estimated as Subunit 3 of Temescal Canyon Area Plan plus Proposed Constrained Linkage 6 and Proposed Linkage 2), Temecula Creek (Subunit 2 of Southwest Area Plan), Vail Lake (Subunit 3 of Southwest Area Plan), and San Timoteo Creek (Subunit 3 of The Pass Area Plan) and maintain adequate Habitat linkages between Core Areas and smaller drainages and tributaries.	-	-	-	-
		Objective 3: Maintain (once every 5 years) the continued use of, and successful reproduction at 75% of the Core Areas (including any Core Areas identified in the MSHCP Conservation Area in the future).	5	F / D	N / I	YES
		<i>Note: Species detected in 4 of 5 (80%) Core Areas. Successful reproduction detected in 4 of 5 (80%) Core Areas in 2023.</i>				
Yellow Warbler	<i>Dendroica petechia brewsteri</i>	Objective 2: Include within the MSHCP Conservation Area at least 9 Core Areas including Prado Basin/Santa Ana River (9,670 acres), Temescal Canyon including tributaries such as Alberhill Creek (estimated as Subunit 3 of Temescal Canyon Area Plan plus Proposed Constrained Linkage 6 and Proposed Linkage 2), Wasson Canyon (Subunit 5 of Elsinore Area Plan) Temecula Creek (Subunit 2 of Southwest	-	-	-	-

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		Area Plan), Murrieta Creek (Subunit 1 of Southwest Area Plan), Vail Lake (Subunit 3 of Southwest Area Plan), Wilson Creek (Subunit 2 of REMAP Area Plan), San Timoteo Creek (Subunit 3 of The Pass Area Plan), and drainages and woodland areas within the San Bernardino National Forest.				
		Objective 3: Maintain (once every 5 years) the continued use of, and successful reproduction at 75% of the Core Areas.	5	F / D	N / I	Partial
		<i>Note: Species detected in 9 of 9 (100%) Core Areas. Successful reproduction detected in 4 of 9 (44%) Core Areas.</i>				
Arroyo Chub	<i>Gila orcuttii</i>	Objective 3: Include within the MSHCP Conservation Area, the suitable Core Areas and available adjacent habitat for the arroyo chub in the Santa Margarita watershed. Conserve the natural river and or creek bottom and banks up to an elevation of 400 meters in the reach of the Santa Margarita River in the Plan Area, and in De Luz Creek and its tributary downstream to the County line, in upper Sandia Creek downstream to the County line, in Murrieta Creek from Winchester Road to near its confluence with the Santa Margarita River, in Cole Creek between its confluence with Murrieta Creek and the boundary of Conservancy property and in Temecula Creek from Long (Smith) Canyon just below the falls near the County line downstream to a concrete drop structure at Highway 79 (upstream of Vail Lake).	-	-	-	-
		Species Objective (MSHCP Table 5-8) §: 75% Minimum level of occupation of identified locations as described in Objective 3.	8	F / D	N / I	NO
		<i>Note: Species detected in 4 of 7 Core Areas (57%).</i>				
Santa Ana Sucker	<i>Catostomus santaanae</i>	Objective 2: Include within the MSHCP Conservation Area the Core Areas upstream of River Road, between River Road and Prado Dam, and downstream of	-	-	-	-

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		Prado Dam; the known spawning areas at Sunnyslope Creek and within the area just below Mission Boulevard upstream to the Rialto Drain; and refugia and dispersal areas including the Market Street Seep, Mount Rubidoux Creek, Anza Park Drain, Arroyo Tequesquite, Hidden Valley Drain, and Evans Lake Drain.				
Santa Ana Sucker	<i>Catostomus santaanae</i>	Objective 3: Include within the MSHCP Conservation Area the natural river bottom and banks of the Santa Ana River from the Orange County and Riverside County line to the upstream boundary of the Plan Area, including the adjacent upland habitat, where available, to provide shade and suitable microclimate conditions (e.g., alluvial terraces, riparian vegetation).	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of identified locations as described in Objectives 2 and 3. <i>Note: Species detected in 1 of 3 Core Areas (33%).</i>	8	N / D	N / I	NO
Riverside Fairy Shrimp	<i>Streptocephalus woottoni</i>	Objective 1: Include within the MSHCP Conservation Area at least five Core Areas of occupied vernal pools (or vernal pool complex) and their watersheds. Core Areas include the Santa Rosa Plateau Ecological Reserve, Skunk Hollow, Murrieta and Lake Elsinore back basin.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of Core Areas as described in Objective 1. <i>Note: Species was detected in 2 of 5 Core Areas (40%). Species was detected east of the Murrieta Core Area in an RCA property (Lake Skinner Investors).</i>	8	F / D	F / D	NO
Santa Rosa Plateau Fairy Shrimp	<i>Linderiella santarosae</i>	Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of identified locations as described in the Species Account.	8	F / D	N / N	YES

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		<i>Note: Species detected in 1 of 1 identified location (100%).</i>				
Vernal Pool Fairy Shrimp	<i>Branchinecta lynchi</i>	Objective 3: Include within the MSHCP Conservation Area at least three Core Areas, which include the three known occupied vernal pools (or vernal pool complexes) and their watersheds in the West Hemet portion of Salt Creek, Santa Rosa Plateau Ecological Reserve, and Skunk Hollow.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of Core Areas as described in Objective 3. <i>Note: Species detected in 2 of 3 Core Areas (66%).</i>	8	F / D	F / N	NO
Delhi Sands Flower - loving Fly	<i>Rhaphiomidas terminatus abdominalis</i>	Objective 2: Reserve Managers shall document successful reproduction at all 3 Core Areas or other areas to be conserved in accordance with Objective 1, as measured by the presence/absence of pupae cases or newly emerged (teneral) individuals once a year for the first 5 years after permit issuance and then as determined to be appropriate (but not less frequently than every 8 years).	1	F / D	F / D	NO
		<i>Note: Species detected in 1 of 3 Core Areas (33%). Successful reproduction detected in 1 of 3 Core Areas (33%).</i>				
Quino Checkerspot	<i>Euphydryas editha quino</i>	Objective 1: Include within the MSHCP Conservation Area at least 67,493 acres of habitat mosaic (which may include chaparral, coastal sage scrub, desert scrubs, grasslands, peninsular juniper woodland and scrub, playas and vernal pools, and Riversidean alluvial fan sage scrub habitats) supporting the seven core populations in the southwest portion of the County, including 1) the Lake Mathews/Estelle Mountain/Harford Springs Core Area, 2) Warm Springs Creek Core Area, 3)	-	-	-	-

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		Johnson Ranch/Lake Skinner Core Area, 4) Oak Mountain Core Area, 5) Wilson Valley Core Area, 6) Sage Core Area, and 7) Silverado/Tule Peak Core Area.				
		Objective 2: Include within the MSHCP Conservation Area the 12 known satellite (non-core) occurrence complexes within the following six areas: French Valley, Oak Mountain/Vail Lake, Anza Valley, Sage/Wilson Valley, Brown Canyon/Cactus Valley and Aguanga.	-	-	-	-
		Objective 4: Reserve Managers will document the distribution of Quino Checkerspot on an annual basis. <i>Note: Documented distribution in the Plan Area.</i>	1	F / D	F / D	YES
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of Core Areas and Satellite Occurrence Complex Areas as described in Objective 2. <i>Note: Species detected in 2 of 9 (22%) Core Areas and Satellite Occurrence Complex Areas that were surveyed. Additional evaluation of some areas containing known satellite occurrence complexes is needed.</i>	1	F / D	F / D	NO
Aguanga Kangaroo Rat	<i>Dipodomys merriami collinus</i>	Objective 3: Within the 5,484 acres of occupied or suitable habitat in the MSHCP Conservation Area, ensure that at least 75% (4,113 acres) of the total is occupied and that at least 20% of the occupied habitat (approximately 823 acres) supports a medium or higher population density (≥ 5 to 15 individuals per hectare) of the species as measured across any 8-year period. <i>Note: Species detected in 2 of 2 (100%) known locations. Density objectives are not currently being met because there are not enough occupied grids to determine density.</i>	1 to 8	F / D	N / N	Partial

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
Bobcat	<i>Lynx rufus</i>	Objective 3: Maintain or improve functionality of dispersal routes. Existing undercrossings in key areas will be evaluated for their adequacy and improved as necessary to convey bobcats (see Species Account for full objective).	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of Core Areas as described in Objective 3.	8	F / D	F / D	YES
		<i>Note: Species detected in 8 of 8 (100%) habitat blocks. Area searches for sign (tracks and scat) can be used to obtain occupancy data for this species.</i>				
Brush Rabbit	<i>Sylvilagus bachmani</i>	Objective 1: Include within the MSHCP Conservation Area 382,115 acres (63%) of suitable habitat in the Plan Area. Conservation in the primary core habitat areas includes the Existing Core A, Existing Core B (contiguous with Cleveland National Forest in Orange County), Existing Core C, Existing Core F, Existing Core G, Existing Core H, Existing Core I (with San Bernardino National Forest in San Bernardino County), Existing Core J, Existing Core K, Existing Core L (contiguous with Cleveland National Forest in San Diego County), Existing Core M (contiguous with Cleveland National Forest in San Diego County), Proposed Core 1, Proposed Core 2, Proposed Core 3, Proposed Core 4, Proposed Core 5, Proposed Core 6, and Proposed Core 7.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of identified locations as described in Objective 1.	8	F / D	N / I	NO
		<i>Note: Species detected in 8 of 18 (44%) Core Areas. Trapping is currently the best method but is very labor intensive.</i>				

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Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
Coyote	<i>Canis latrans</i>	Objective 2: Include within the MSHCP Conservation Area habitat linkages between large habitat blocks. Key habitat linkages that likely will be used by coyotes to move between large habitat blocks include: Santa Ana River, Badlands/San Timoteo Creek, Indian Canyon and Horsethief Canyon crossings of I-15, Cole Canyon-Murrieta Creek, Warm Springs Creek, French Valley tributary to Warm Springs Creek, generally continuous upland habitat from Lake Mathews to Wildomar, Gavilan Hills, San Jacinto River, Temecula Creek-Santa Margarita River, Kolb Creek/Arroyo Seco, Tualota Creek, Wilson Creek, Tule Creek, and San Gorgonio Wash.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of identified locations as described in Objective 2. <i>Note: Species detected in 10 of 15 (67%) habitat linkages. Objective was not met with incidentals.</i>	8	F / D	F / D	NO
Dulzura Kangaroo Rat	<i>Dipodomys simulans</i>	Objective 1: Include within the MSHCP Conservation Area 198,200 acres (58%) of suitable habitat in the Plan Area. The majority of conservation will occur in the following existing and proposed Core Areas: Existing Core C, Existing Core F, Existing Core G, Existing Core H, Existing Core I, Existing Core J, Existing Core M, Proposed Core 1, Proposed Core 2, Proposed Extension of Existing Core 2, Proposed Core 3, Proposed Core 4, Proposed Core 5, and Proposed Core 7.	-	-	-	-
Dulzura Kangaroo Rat	<i>Dipodomys simulans</i>	Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of Core Areas as described in Objective 1. <i>Note: Species detected in 5 of 14 (36%) Core Areas.</i>	8	F / D	N / I	NO

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Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
Long-tailed Weasel	<i>Mustela frenata</i>	Objective 3: Maintain (measured once every 8 years) the continued use of Long-tailed weasel at a minimum of 75% of the localities where the species has been known to occur. <i>Note: Species detected in 3 of 18 (17%) known localities.</i>	8	F / D	N / N	NO
Los Angeles Pocket Mouse	<i>Perognathus longimembris brevinasus</i>	Objective 1: Include within the MSHCP Conservation Area, at least 14,000 acres of suitable habitat for the Los Angeles pocket mouse (e.g., sandy to loamy-sand soils occurring in non-native grassland, Riversidean sage scrub, Riversidean alluvial fan sage scrub, desert scrub, playa and vernal pool, chaparral, or redshank chaparral habitat), with at least 2,000 acres within each of seven (7) Core Areas within the MSHCP Conservation Area. Based on existing population distribution information, probable Core Areas include the following: 1) San Jacinto Wildlife Area-Lake Perris Reserve, 2) the Badlands, 3) San Jacinto River and Bautista Creek, 4) Anza Valley, 5) Lake Skinner-Domenigoni Reserve, 6) Potrero Valley, and 7) Temecula Creek.	-	-	-	-
Los Angeles Pocket Mouse	<i>Perognathus longimembris brevinasus</i>	Objective 4: Reserve Managers shall demonstrate that each of the 7 Core Areas supports a stable or increasing population that occupies at least 30% of the suitable habitat (at least 4,200 acres) as measured over any 8-consecutive-year period. <i>Note: Species detected in 3 of 7 (43%) Core Areas.</i>	1 to 8	F / D	N / N	NO
Mountain Lion	<i>Puma concolor</i>	Objective 1: Include within the MSHCP Conservation Area 319,843 acres (71%) of suitable habitat in the Plan Area. The majority of habitat conservation will occur in large blocks throughout the Plan Area, including the Santa Rosa Plateau-Santa Ana Mountains, Agua Tibia Wilderness-Palomar Mountains, Badlands-San Jacinto Mountains-Santa Rosa Mountains, and San Bernardino Mountains. Additional areas likely to be used by the mountain lion include Lake Mathews-Estelle	-	-	-	-

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Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024†	Objective* Currently Met? ‡
		Mountain, Lake Skinner-Diamond Valley Lake, and Vail Lake-Sage-Wilson Valley.				
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of Core Areas as described in Objective 1. <i>Note: Species detected in 6 of 7 (86%) habitat blocks.</i>	8	F / D	F / I	YES
		Objective 3: Maintain or improve functionality of dispersal routes. Existing undercrossings in key areas will be evaluated for their adequacy to convey mountain lions (see Species Account for full objective).	-	-	-	-
Northwestern San Diego Pocket Mouse	<i>Chaetodipus fallax fallax</i>	Objective 1: Include within the MSHCP Conservation Area suitable habitat in the Plan Area. Conservation in the primary core habitat areas includes Existing Core C, Existing Core G, Existing Core H, Existing Core F, Existing Core I, Existing Core J, Existing Core M, Proposed Extended Existing Core 2, Proposed Extension of Existing Core 6, Proposed Extension of Existing Core 7, Proposed Core 1, Proposed Core 2, Proposed Core 3, Proposed Core 4, Proposed Core 5, and Proposed Core 7.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of identified locations as described in Objective 1 and the Species Account. <i>Note: Species detected in 6 of 16 (38%) Core Areas. Species objectives can be met with other small mammal target trapping and a small amount of additional target trapping.</i>	8	F / D	N / I	NO
San Bernardino Flying Squirrel		Objective 2/MSHCP Table 9-3: Confirm occupation of 1,000 ha (2,470 acres) with a mean density of at least 2 individuals per hectare (2 individuals per 2.47 acres) in	8	N / N	N / N	NO

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§ See Volume 1, Section 5, Table 5-8 of the MSHCP

**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
	<i>Glaucomys sabrinus californicus</i>	the San Jacinto Mountains; in the San Bernardino Mountains, confirm occupation of 100 ha. Covered Species not adequately conserved until the above objective is met. <i>Note: USFS and SDNHM staff have determined it is extremely unlikely that the objective will be met. Focused surveys have not been conducted.</i>				
San Bernardino Kangaroo Rat	<i>Dipodomys merriami parvus</i>	Objective 3: Within the 4,440 acres of suitable habitat in the MSHCP Conservation Area, ensure that at least 75% of the total (3,330 acres) is occupied and that at least 20% of the occupied habitat (approximately 666 acres) supports a medium or higher population density (≥ 5 to 15 individuals per hectare) of the species as measured across any 8-year period. <i>Note: Species detected in 1 of 2 known locations (50%). Distribution and density objectives have not been met.</i>	1 to 8	F / D	N / N	NO
San Diego Black-tailed Jackrabbit	<i>Lepus californicus bennettii</i>	Objective 1: Include within the MSHCP Conservation Area 142,116 acres (44%) of suitable habitat in the Plan Area comprised of grassland, coastal sage scrub, Riversidean alluvial fan sage scrub, desert scrub, juniper woodland and scrub, and playas and vernal pools. Conservation in the primary core habitat areas includes Existing Core A, Existing Core C, Existing Core D, Existing Core G, Existing Core H, Existing Core F, Existing Core J, Proposed Extension of Existing Core 2, Proposed Extension of Existing Core 6, Proposed Extension of Existing Core 7, Proposed Core 1, Proposed Core 2, Proposed Core 3, Proposed Core 4, Proposed Core 5, Proposed Core 6, Proposed Core 7, Non-contiguous Habitat Block 2, and Non-contiguous Habitat Block 5.	-	-	-	-

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of identified locations as described in Objective 1. <i>Note: Species detected in 12 of 19 (63%) Core Areas.</i>	8	F / D	N / I	NO
San Diego Desert Woodrat	<i>Neotoma lepida intermedia</i>	Objective 1: Include within the MSHCP Conservation Area 364,828 acres (62%) of suitable habitat in the Plan Area comprised of chaparral, coastal sage scrub, Riversidean alluvial fan sage scrub, desert scrub, and juniper woodland and scrub. Conservation in the primary core habitat areas includes Existing Core C, Existing Core G, Existing Core H, Existing Core F, Existing Core J, Proposed Extension of Existing Core 2, Proposed Extension of Existing Core 6, Proposed Extension of Existing Core 7, Proposed Core 1, Proposed Core 2, Proposed Core 3, Proposed Core 4, Proposed Core 5, Proposed Core 6, Proposed Core 7, and Non-contiguous Habitat Block 5.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of identified locations as described in Objective 1. <i>Note: Species detected in 5 of 16 (31%) Core Areas. Species objectives can be met with other small mammal target trapping and a small amount of additional target trapping. Trapping for woodrat can be targeted to rock outcrops or where sign (houses/scat) are located.</i>	8	F / D	N / I	NO
Stephens' Kangaroo Rat	<i>Dipodomys stephensi</i>	Objective 1: Include within the MSHCP Conservation Area a minimum of 15,000 acres of occupied habitat (as defined in the Habitat Conservation Plan for the Stephens' Kangaroo Rat in Western Riverside County, March 1996), as measured across any consecutive 8-year period (i.e., the approximate length of the weather cycle), in a minimum of six Core Areas within the existing boundary of the Habitat Conservation Plan for the Stephens' Kangaroo Rat in Western Riverside County. This objective is consistent with the requirements of the Stephens' kangaroo rat HCP. Core areas, as identified in the HCP, include Lake Mathews-	-	-	-	-

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		Estelle Mountain, Motte-Rimrock Reserve, Lake Skinner-Domenigoni Valley, San Jacinto Wildlife Area-Lake Perris, Sycamore Canyon-March Air Force (Reserve) Base, Steele Peak, and Potrero ACEC.				
		Objective 2: Include within the MSHCP Conservation Area at least 3,000 acres of occupied habitat, as measured across any consecutive 8-year period, in a minimum of two Core Areas outside the existing boundary of the Habitat Conservation Plan for the Stephens' Kangaroo Rat in Western Riverside County. One of the Core Areas will be the Potrero Valley area (as distinct from the Potrero ACEC Core Areas listed in Objective 1) and the other will be in the Anza and Cahuilla valleys.	-	-	-	-
		Objective 3: Within the minimum 15,000 acres of occupied habitat in the MSHCP Conservation Area, maintain at least 30% of the occupied habitat (approximately 4,500 acres) at a population density of medium or higher (i.e., at least 5-10 individuals per hectare) across all Core Areas. No single Core Area will account for more than 30% of the total medium (or higher) population density area. <i>Note: Species detected in 2 of 2 (100%) Core Areas outside of the SKR HCP. Distribution and density objectives not met.</i>	1 to 8	F / D	N / N	Partial
Beautiful Hulsea	<i>Hulsea vestita</i> ssp. <i>callicarpa</i>	Objective 2: Include within the MSHCP Conservation Area at least 12 of the known occurrences at Lake Fulmor, Pine Cove, Idyllwild, Mountain Center, Pine Meadow and Lake Hemet.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 10 of 12 (83%) known locations. The population at the UCR James Reserve is not accessible; Lake Fulmor historical location has been surveyed for but not been found in recent years.</i>	8	F / D	N / N	YES

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§ See Volume 1, Section 5, Table 5-8 of the MSHCP

**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		Objective 3/MSHCP Table 9-3: Confirm 16 localities (locality in this sense is not smaller than 1 quarter section) with no fewer than 50 individuals each (unless a smaller population has been demonstrated to be self-sustaining). <i>Note: Species detected in 16 of 16 (100%) localities with sufficient numbers to meet population requirements.</i>	8	F / D	N / N	YES
		Covered Species not adequately conserved until the above objective is met.				
Brand's Phacelia	<i>Phacelia stellaris</i>	Objective 2: Include within the MSHCP Conservation Area at least the two known localities of this species along the Santa Ana River at Fairmont Park and in the Santa Ana Wilderness Area.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 1 of 2 (50%) required locations. Unable to meet Objective as written because a required occurrence included in Objective 2 has been extirpated.</i>	8	F / D	F / D	NO
California Beardtongue	<i>Penstemon californicus</i>	Objective 2: Include within the MSHCP Conservation Area at least 15 occurrences in Aguanga, Blackburn Canyon and the San Jacinto Mountains (including Garner Valley, Pyramid Peak, and Kenworthy Ranger Station).	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 5 of 15 (33%) required locations.</i>	8	F / D	F / D	NO

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		<i>Unable to meet Objective as written. Objective 2 includes duplicate records and locations in habitat that does not support this species (possible errors in georeferencing).</i>				
California Bedstraw	<i>Galium californicum</i> ssp. <i>primum</i>	Objective 2: Include within the MSHCP Conservation Area at least four of the known occurrences of this species in the vicinity of Alvin Meadows between Pine Cove and Idyllwild in the San Jacinto Mountains.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 2 of 4 (50%) required locations.</i>	8	F / D	N / N	NO
California Black Walnut	<i>Juglans californica</i> var. <i>californica</i>	Objective 2: Include within the MSHCP Conservation Area at least seven known occurrences of this species within the Santa Ana Mountains, at Lake Skinner, at the Santa Rosa Plateau and one east of Pedley.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 1 of 7 (14%) required locations. Unable to meet Objective as written. Required locations in Objective 2 differ significantly from occurrences observed.</i>	8	F / D	F / D	NO
California Muhly	<i>Muhlenbergia californica</i>	Objective 2: Include within the MSHCP Conservation Area the known locations at Sage, Aguanga, Estelle Mountain, Prado Dam, Temescal Canyon, and Sitton Peak.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2.	8	F / N	F / N	NO

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		<i>Note: Species detected in 0 of 6 (0%) required locations. Unable to meet Objectives because neither species nor historical records could be found within Plan Area.</i>				
		Objective 3/MSHCP Table 9-3: Confirm 10 localities (locality in this sense is not smaller than 1 quarter section) containing at least 50 clumps (unless a smaller population has been demonstrated to be self-sustaining). <i>Note: Species detected in 0 of 10 (0%) localities with population requirements.</i>	8	F / N	F / N	NO
		Covered Species not adequately conserved until the above objective is met.				
California Orcutt Grass	<i>Orcuttia californica</i>	Objective 2: Include within the MSHCP Conservation Area at least three of the known locations of California Orcutt grass at the Santa Rosa Plateau, at Skunk Hollow and in the upper Salt Creek drainage west of Hemet.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 2 of 3 (67%) required locations.</i>	8	F / D	F / D (CNLM)	NO
Chickweed Oxytheca	<i>Oxytheca caryophylloides</i>	Objective 2: Include within the MSHCP Conservation Area at least five of the known locations within the San Jacinto Mountains.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 5 of 5 (100%) required locations.</i>	8	F / D	N / N	YES

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		Objective 3/MSHCP Table 9-3: Confirm 10 localities (locality in this sense is not smaller than 1 quarter section) managed with 1,000 individuals each (unless a smaller population has been demonstrated to be self-sustaining).				
		<i>Note: Species detected in 10 of 10 (100%) localities with sufficient numbers to meet population requirements.</i>	8	F / D	N / N	YES
		Covered Species not adequately conserved until the above objective is met.				
Cleveland's Bush Monkeyflower	<i>Mimulus clevelandii</i>	Objective 2: Include within the MSHCP Conservation Area the two known localities of this species on Santiago Peak in the Santa Ana Mountains and on the northern slopes of the Agua Tibia Mountains.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2.	8	F / D	F / D	YES
		<i>Note: Species detected in 2 of 2 (100%) locations.</i>				
Cliff Cinquefoil	<i>Potentilla rimicola</i>	Objective 2: Include within the MSHCP Conservation Area the two known localities of this species in Dark Canyon and near Deer Spring.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2.	8	F / D	F / D	NO
		<i>Note: Species detected in 1 of 2 (50%) required locations. Unable to meet Objectives as written. Objective 2 includes a duplicate record and species occurs mostly outside of the Plan Area.</i>				
		Objective 3/MSHCP Table 9-3: Confirm five localities (locality in this sense is not smaller than 1 quarter section).	8	F / D	F / D	NO

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		<i>Note: Species detected in 2 of 5 (40%) localities.</i>				
		Covered Species not adequately conserved until the above objective is met.				
Coulter's Goldfields	<i>Lasthenia glabrata</i> ssp. <i>coulteri</i>	Objective 2: Include within the MSHCP Conservation Area at least 20 of the known occurrences of this species, including the three Core Areas: the San Jacinto Wildlife Area and the southern shores of Mystic Lake, the middle segment of the San Jacinto River and a portion of the Alberhill locality.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 12 of 20 (60%) required locations. Objective 2 includes locations that are not within the Conservation Area and duplicate records.</i>	8	F / D	F / D	NO
Coulter's Matilija Poppy	<i>Romneya coulteri</i>	Objective 2/MSHCP Table 9-3: Confirm 30 localities (locality in this sense is not smaller than 1 quarter section). <i>Note: Detected in 30 of 30 (100%) localities.</i>	8	F / D	F / D	YES
		Covered Species not adequately conserved until the above objective is met.				
Davidson's Saltscale	<i>Atriplex serenana</i> var. <i>davidsonii</i>	Objective 2: Include within the MSHCP Conservation Area the three known localities of Davidson's Saltscale at Salt Creek, the San Jacinto River and the San Jacinto Wildlife Area.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2.	8	F / D	N / N	NO

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		<i>Note: Species detected in 2 of 3 (67%) required locations. Surveys are ongoing to meet Objective 2.</i>				
Engelmann Oak	<i>Quercus engelmannii</i>	Objective 2: Include within the MSHCP Conservation Area at least 33 known occurrences of this species, including the core locations at the Santa Rosa Plateau and in the Santa Ana Mountains.	-	-	-	-
		Species Objective (MSHCP Table 5-8) §: 80% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 27 of 33 (82%) required locations.</i>	8	F / D	F / D	YES
		Objective 3: Within the MSHCP Conservation Area, maintain recruitment at a minimum of 80% of the conserved populations as measured by the presence/absence of seedlings and/or saplings across any consecutive five years. <i>Note: Recruitment detected in 27 of 42 (64%) conserved locations.</i>	5	F / D	N / N	NO
Fish's Milkwort	<i>Polygala cornuta var. fishiae</i>	Objective 2: Include within the MSHCP Conservation Area at least three of the known localities (Santa Rosa Plateau, Santa Margarita Ecological Preserve, and San Mateo Canyon).	-	-	-	-
		Species Objective (MSHCP Table 5-8) §: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 3 of 3 (100%) required locations.</i>	8	F / D	F / D	YES

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Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		Objective 3/MSHCP Table 9-3: Confirm 10 localities (locality in this sense is not smaller than 1 quarter section) with at least 50 individuals (ramets or genets) each (unless a smaller population has been demonstrated to be self-sustaining).				
		<i>Note: Species detected in 10 of 10 (100%) localities with sufficient numbers to meet population requirements.</i>	8	F / D	F / D	YES
		Covered Species not adequately conserved until the above objective is met.				
Graceful Tarplant	<i>Holocarpha virgata</i> ssp. <i>elongata</i>	Objective 2: Include within the MSHCP Conservation Area at least eight of the known locations, including four occurrences located on Santa Rosa Plateau and four occurrences in the San Mateo Canyon Wilderness Area.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2.	8	F / D	N / N	NO
		<i>Note: Species detected in 3 of 8 (38%) required locations. Objective 2 includes locations that cannot be found (poorly georeferenced historical records).</i>				
		Objective 3/MSHCP Table 9-3: Confirm 10 localities (locality in this sense is not smaller than 1 quarter section) with 1,000 individuals each (unless a smaller population has been demonstrated to be self-sustaining).				
		<i>Note: Species detected in 10 of 10 (100%) localities with sufficient numbers to meet population requirements.</i>	8	F / D	N / N	YES
		Covered Species not adequately conserved until the above objective is met.				

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Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
Hall's Monardella	<i>Monardella macrantha</i> ssp. <i>hallii</i>	Objective 2: Include within the MSHCP Conservation Area at least the five known locations of this species: Cahuilla Mountain and an occurrence southwest of Pine Cove in the San Jacinto Mountains, two occurrences on the north slope of the Agua Tibia Mountains and Santiago Peak in the Santa Ana Mountains.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 4 of 5 (80%) required locations.</i>	8	F / D	F / D	YES
Hamitt's Clay-cress	<i>Sibaropsis hammittii</i>	Objective 2: Include within the MSHCP Conservation Area the Core Area for this species, including at least the one known locality near Elsinore Peak and suitable habitat adjacent to these occurrences.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 1 of 1 (100%) required locations.</i>	8	F / D	F / D	YES
Heart-leaved Pitcher Sage	<i>Lepechinia cardiophylla</i>	Objective 2: Include within the MSHCP Conservation Area at least six known populations in the Santa Ana Mountains (within the vicinity of Sierra Peak, Indian Truck Trail, Bald Peak, Trabuco Peak, Horsethief Trail, Pleasants Peak, and the ridge between Ladd Canyon and East Fork Canyon).	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 4 of 6 (67%) required locations. Most historical populations straddle the county line and we have been unable to confirm some in Riverside County.</i>	8	F / D	F / D	NO

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Details of Covered Species Monitoring

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
Intermediate Mariposa Lily	<i>Calochortus weedii</i> var. <i>intermedius</i>	Objective 2: Include within the MSHCP Conservation Area at least two of the known localities (hills west of Crown Valley and Vail Lake) and possibly a third locality (Sierra Peak area of the Santa Ana Mountains) of the species.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 1 of 2 (50%) required locations. Unable to meet Objective at this time. Objective 2 includes a location that is not within Conservation Area (non-PQP areas surrounding Vail Lake).</i>	8	F / D	N / N	NO
Jaeger's Milk-vetch	<i>Astragalus pachypus</i> var. <i>jaegeri</i>	Objective 2: Include within the MSHCP Conservation Area the seven known localities (18 occurrences) of this species at Aguanga Valley, San Jacinto Mountains, Potrero Creek, Sage, Temecula Canyon, and the core location at Vail Lake and the base of the Agua Tibia Mountains.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 4 of 7 (57%) required locations. Unable to meet Objective as written. Objective 2 includes many duplicate records, very old records (1880-1941), and records that are not within the Conservation Area.</i>	8	F / D	F / D	NO
Johnston's Rock Cress	<i>Arabis johnstonii</i>	Objective 2: Include within the MSHCP Conservation Area the two Core Areas for this species, including at least 17 of the known occurrences in Garner Valley and Mountain Springs and suitable habitat adjacent to these occurrences.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2.	8	F / D	F / D	NO

* Only objectives evaluated by the Biological Monitoring Program are included; other objectives in this table were provided for reference purposes only. Objectives have been shortened to fit in the table; for full text, see the Species Accounts in Volume 2 of the MSHCP.

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§ See Volume 1, Section 5, Table 5-8 of the MSHCP



**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		<i>Note: Species detected in 6 of 17 (35%) required locations. Unable to meet Objective as written. Objective 2 includes duplicate records and locations that are not within Conservation Area.</i>				
Lemon Lily	<i>Lilium parryi</i>	Objective 2: Include within the MSHCP Conservation Area at least six localities (seven occurrences) within the San Jacinto Mountains.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 6 of 6 (100%) required locations.</i>	8	F / D	F / D	YES
Little Mouselail	<i>Myosurus minimus</i>	Objective 2: Include within the MSHCP Conservation Area at least five of the known locations of this species, including Harford Springs County Park on the Gavilan Plateau and the three core locations: one along Salt Creek west of Hemet and two on the Santa Rosa Plateau.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 5 of 5 (100%) required locations.</i>	8	F / D	F / D	YES
Long-spined Spine Flower	<i>Chorizanthe polygonoides</i> var. <i>longispina</i>	Objective 2: Include within the MSHCP Conservation Area at least 32 locations of this species, including the two core locations at Lake Matthews and in the Agua Tibia Mountains.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2.	8	F / D	F / D	YES

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		<i>Note: Species detected in 30 of 32 (94%) required locations.</i>				
Many-stemmed Dudleya	<i>Dudleya multicaulis</i>	Objective 2: Include within the MSHCP Conservation Area at least 26 of the known occurrences of Many-Stemmed Dudleya, including the occurrences at Estelle Mountain, Temescal Canyon, the Santa Ana Mountains, Gavilan Hills, Alberhill Creek, and Prado Basin.	-	-	-	-
		Species Objective (MSHCP Table 5-8) §: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 6 of 26 (23%) of required locations. Objective 2 includes duplicate records, locations that are not within Conservation Area, and locations that cannot be found.</i>	8	F / D	F / D	NO
Mojave Tarplant	<i>Deinandra mohavensis</i>	Objective 2: Include within the MSHCP Conservation Area at least five of the known localities (represented by seven records) within the San Jacinto Mountains and Foothills and northeast of Vail Lake.	-	-	-	-
		Species Objective (MSHCP Table 5-8) §: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 5 of 5 (100%) required locations.</i>	8	F / D	F / D	YES
		Objective 3/MSHCP Table 9-3: Include within the MSHCP Conservation Area at least 4 localities (locality in this sense is not smaller than 1 quarter section) occupying at least 100 acres. <i>Note: Detected in 0 of 4 (0%) localities with sufficient acreage to meet requirement. Acreage mapping not attempted</i>	8	F / D	N / N	NO

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		Covered Species not adequately conserved until the above objective is met.				
Mud Nama	<i>Nama stenocarpum</i>	Objective 2: Include within the MSHCP Conservation Area two of the three known occurrences of this species along the San Jacinto River near Gilman Springs Road.	-	-	-	-
		Species Objective (MSHCP Table 5-8) §: 75% Minimum level of occupation of known locations as described in Objective 2. Note: Detected in 2 of 2 (100%) required locations.	8	F / D	F / D	YES
Munz's Mariposa Lily	<i>Calochortus palmeri</i> var. <i>munzii</i>	Objective 2: Include within the MSHCP Conservation Area 10 of the known locations within the San Jacinto Mountains, including Garner Valley.	-	-	-	-
		Species Objective (MSHCP Table 5-8) §: 75% Minimum level of occupation of known locations as described in Objective 2. Note: Species detected in 8 of 10 (80%) required locations.	8	F / D	N / I	YES
Munz's Onion	<i>Allium munzii</i>	Objective 2: Include within the MSHCP Conservation Area at least 13 localities within Temescal Valley and the southwestern portion of Plan Area, including the following Core Areas: Harford Springs Park, privately owned EO 5 population in Temescal Valley, Alberhill, DiPalma Rd, Estelle Mountain, Domenigoni Hills, Lake Skinner, Bachelor Mountain, Elsinore Peak, Scott Road, North Peak, and northeast of Alberhill (EO 16).	-	-	-	-
		Species Objective (MSHCP Table 5-8) §: 75% Minimum level of occupation of known locations as described in Objective 2.	8	F / D	F / D	YES

* Only objectives evaluated by the Biological Monitoring Program are included; other objectives in this table were provided for reference purposes only. Objectives have been shortened to fit in the table; for full text, see the Species Accounts in Volume 2 of the MSHCP.

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		<i>Note: Species detected in 12 of 13 (92%) required locations.</i>				
Nevin's Barberrry	<i>Berberis nevinii</i>	Objective 2: Include within the MSHCP Conservation Area the known locations for Nevin's Barberrry in the San Timoteo/Badlands area, Jurupa Hills and Agua Tibia/Vail Lake area.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 1 of 3 (33%) required locations. Unable to meet Objective as written. Objective 2 includes a location that is not within the Plan Area and another that is known to be extirpated.</i>	8	F / D	F / D	NO
Ocellated Humboldt Lily	<i>Lilium humboldtii</i> ssp. <i>Ocellatum</i>	Objective 2: Include within the MSHCP Conservation Area at least four of the known locations at Arroyo Seco Canyon in the Agua Tibia Wilderness Area and Fisherman's Camp in Tenaja Canyon and the historic occurrences known from Castro Canyon, Horsethief Canyon, Elsinore Mountains; and Corona between Tin Mine Canyon and Santiago Peak, Skyline Drive populations.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 3 of 4 (75%) required locations.</i>	8	F / D	F / D	YES
Orcutt's Brodiaea	<i>Brodiaea orcuttii</i>	Objective 1: Include within the MSHCP Conservation Area one occurrence at Miller Mountain within the San Mateo Wilderness Area; a complex of about five occurrences on the Mesa de Burro, Mesa de Colorado, and Mesa de la Punta on the Santa Rosa Plateau within the Santa Rosa Plateau Preserve; and one occurrence along the San Jacinto River.	-	-	-	-

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 1. <i>Note: Unable to meet Objective because species does not occur within the Plan Area as described in Objective 1. Objective 1 includes records for misidentified species (B. santarosae).</i>	8	F / N	N / N	NO
Palmer's Grapplinghook	<i>Harpagonella palmeri</i>	Objective 2: Include within the MSHCP Conservation Area at least 24 of the known occurrences of this species at Temescal Wash, Alberhill, Lake Elsinore, Antelope Valley, Bachelor Mountain, Vail Lake, Lake Mathews, Harford Springs Park, Cleveland National Forest, Skunk Hollow, Lake Skinner and Vail Lake.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 21 of 24 (88%) required locations.</i>	8	F / D	F / D	YES
Palomar Monkeyflower	<i>Mimulus diffusus</i>	Objective 2: Include within the MSHCP Conservation Area at least 18 of the known locations on the Santa Rosa Plateau; in the vicinity of Sage; French Valley; east of Lake Skinner; and in the San Jacinto, Agua Tibia and Santa Ana Mountains.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 7 of 18 (39%) required locations. Unable to meet Objective as written. Objective 2 includes locations that cannot be found (no historical records) and locations that are not within Conservation Area.</i>	8	F / D	F / D	NO

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
Parish's Brittle scale	<i>Atriplex parishii</i>	Objective 2: Include within the MSHCP Conservation Area the three known populations of the Parish's Brittle scale in the upper Salt Creek drainage west of Hemet.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2.	8	F / D	N / N	NO
		<i>Note: Species detected in 0 of 3 (0%) required locations.</i>				
Parish's Meadowfoam	<i>Limnanthes gracilis</i> var. <i>parishii</i>	Objective 1: Include within the MSHCP Conservation Area at least one known location on the Santa Rosa Plateau.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 1.	8	F / D	N / N	YES
Parry's Spine Flower	<i>Chorizanthe parryi</i> var. <i>parryi</i>	Objective 2: Include within the MSHCP Conservation Area twenty (20) occurrences of Parry's Spine Flower, including locations throughout the Vail Lake area and in the vicinity of Lake Mathews, Gavilan Hills, Antelope Valley, Rawson Canyon, Santa Rosa Hills, Reche Canyon, Wilson Valley, Juniper Flats, Gilman Hot Springs Road and Diamond Valley Lake.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2.	8	F / D	F / D	NO

* Only objectives evaluated by the Biological Monitoring Program are included; other objectives in this table were provided for reference purposes only. Objectives have been shortened to fit in the table; for full text, see the Species Accounts in Volume 2 of the MSHCP.

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		<p><i>Note: Species detected in 12 of 20 (60%) required locations. Unable to meet Objective 2 at this time because it includes locations that are not within Conservation Area and some occurrences that cannot be relocated.</i></p> <p>Objective 3/MSHCP Table 9-3: Confirm 10 localities (locality in this sense is not smaller than 1 quarter section) with at least 1,000.</p> <p><i>Note: Species detected in 10 of 10 (100%) localities with sufficient numbers to meet population requirements.</i></p> <p>Covered Species not adequately conserved until the above objective is met.</p>	8	F / D	N / N	YES
Payson's Jewelflower	<i>Caulanthus simulans</i>	<p>Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in the Species Account.</p> <p><i>Note: Species detected in 1 of 4 (25%) of listed localities.</i></p>	8	F / D	F / I	NO
Peninsular Spine Flower	<i>Chorizanthe leptotheca</i>	<p>Objective 2/MSHCP Table 9-3: Within the MSHCP Conservation Area, confirm 10 localities (locality in this sense is not smaller than 1 quarter section) with at least 1,000 individuals (unless a smaller population has been demonstrated to be self-sustaining).</p> <p><i>Note: Species detected in 10 of 10 (100%) localities with sufficient numbers to meet population requirements.</i></p>	8	F / D	F / D	YES
Plummer's Mariposa Lily	<i>Calochortus plummerae</i>	Objective 2: Include within the MSHCP Conservation Area at least eight of the known occurrences (near Hemet Lake within Garner Valley within the San Jacinto Mountains, the Jurupa Hills, Reche Canyon, along Highway 74 in the San Jacinto	-	-	-	-

* Only objectives evaluated by the Biological Monitoring Program are included; other objectives in this table were provided for reference purposes only. Objectives have been shortened to fit in the table; for full text, see the Species Accounts in Volume 2 of the MSHCP.

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		Mountains and west of Oak Glen Conservation Camp within the San Bernardino Mountains) of Plummer’s Mariposa Lily.				
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2.	8	F / D	F / D	NO
		<i>Note: Species detected in 5 of 8 (63%) required locations.</i>				
		Objective 3/MSHCP Table 9-3: Confirm 6 localities (locality in this sense is not smaller than 1 quarter section) of at least 500 individuals.	8	F / D	F / D	NO
		<i>Note Species detected in 4 of 6 (67%) localities with sufficient numbers to meet population requirements.</i>				
		Covered Species not adequately conserved until the above objective is met.				
Prostrate Navarretia	<i>Navarretia prostrata</i>	Objective 1: Include within the MSHCP Conservation Area at least the one known occurrence of this species on the Santa Rosa Plateau.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 1.	8	F / D	N / N	YES
		<i>Note: Species detected in 1 of 1 (100%) required locations. Objective met through incidental observations.</i>				
Prostrate Spine Flower	<i>Chorizanthe procumbens</i>	Objective 2: Include within the MSHCP Conservation Area at least 14 of the known locations (in the Santa Ana Mountains, in the Agua Tibia Mountains including the Core Area at Dorland Mountain, west of Beaumont, and the vicinity of French Valley).	-	-	-	-

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**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 6 of 14 (43%) required locations. Unable to meet Objective 2 as written in the Species Account. The Biological Opinion states that there are only 8 valid historical records.</i>	8	F / D	F / D	NO
Rainbow Manzanita	<i>Arctostaphylos rainbowensis</i>	Objective 2: Include within the MSHCP Conservation Area the 15 known localities of Rainbow Manzanita: San Mateo Canyon Wilderness, Gavilan Mountain, Santa Margarita Ecological MSHCP Conservation Area, Santa Rosa Plateau and the Temecula, Wildomar, Margarita Peak and Pechanga areas.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 13 of 15 (87%) known locations.</i>	8	F / D	N / N	YES
		Objective 3/MSHCP Table 9-3: Confirm 10 localities (locality in this sense is not smaller than 1 quarter section) with more than 50 individuals each. <i>Note: Species detected in 10 of 10 (100%) localities with sufficient numbers to meet population requirements.</i>	8	F / D	N / N	YES
		Covered Species not adequately conserved until the above objective is met.				
Round-leaved Filaree	<i>Erodium macrophyllum</i>	Objective 2: Include within the MSHCP Conservation Area eight out of the 10 known localities of Round-leaved Filaree: four occurrences in the Gavilan Hills Region, one at Lake Mathews, one along Temescal Wash near Lee Lake, one at Diamond Valley Lake and one in the foothills of the Agua Tibia Mountains.	-	-	-	-

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Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 4 of 8 (50%) required locations. Unable to meet Objective at this time because Objective 2 includes locations that are not within the Conservation Area and some occurrences that cannot be relocated.</i>	8	F / D	F / D	NO
San Diego Ambrosia	<i>Ambrosia pumila</i>	Objective 2: Include within the MSHCP Conservation Area at least two of the three known locations of this species: Alberhill Creek at Nichols Road and Skunk Hollow.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 1 of 2 (50%) required locations. Unable to meet Objective as written because Objective 2 includes a location (Alberhill Creek at Nichols Road) that is not within the Conservation Area.</i>	8	F / D (CNLM)	N / N	NO
San Diego Button-celery	<i>Eryngium aristulatum</i> var. <i>parishii</i>	Objective 1: Include within the MSHCP Conservation Area at least four known locations on the Santa Rosa Plateau.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 1. <i>Note: Species detected in 4 of 4 (100%) required locations.</i>	8	F / D	N / N	YES
San Jacinto Mountains Bedstraw	<i>Galium angustifolium</i> ssp. <i>jacinticum</i>	Objective 2: Include within the MSHCP Conservation Area at least eight of the known locations of this species: Lake Fulmor, Dark Canyon and the Black Mountain area.	-	-	-	-

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Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		<p>Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2.</p> <p><i>Note: Species detected in 7 of 8 (88%) required locations.</i></p> <p><i>There is ongoing taxonomic debate for this species. Historic Galium angustifolium records not previously identified to minimum -rank taxa have been used to meet the objective requirement of 8 historic locations.</i></p>	8	F / D	F / D	YES
San Jacinto Valley Crownscale	<i>Atriplex coronata</i> var. <i>notatior</i>	<p>Objective 2: Include within the MSHCP Conservation Area the Alberhill Creek locality as well as the three Core Areas, located along the San Jacinto River from the vicinity of Mystic Lake southwest to the vicinity of Perris and in the upper Salt Creek drainage west of Hemet.</p>	-	-	-	-
		<p>Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2.</p> <p><i>Note: Species detected in 3 of 4 (75%) required locations.</i></p>	8	F / D	N / I	YES
San Miguel Savory	<i>Satureja chandleri</i>	<p>Objective 2: Include within the MSHCP Conservation Area at least seven of the known locations of San Miguel savory on the Santa Rosa Plateau; in the vicinity of Tenaja guard station and three miles south of Murrieta near De Luz Road in the Santa Ana Mountains; and three miles southwest of Murrieta near Warner's Ranch.</p>	-	-	-	-
		<p>Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2.</p> <p><i>Note: Species detected in 3 of 7 (43%) required locations.</i></p>	8	F / D	N / N	NO

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† Survey Type/Detection Type: F / D = focused survey, species detected; F / N = focused survey, species not detected; F / I = focused survey, species not detected during survey but detected incidentally; N / I = no focused survey but detected incidentally; N / N = no focused survey and not detected; N / D = no focused survey by the Monitoring Program but species detected during focused survey by agency reported in parentheses.

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§ See Volume 1, Section 5, Table 5-8 of the MSHCP

**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		<i>Unable to meet Objective 2 as written. Objective includes locations that cannot be found (old historical records) and locations that are not within the Conservation Area. Revision of objectives is needed.</i>				
Santa Ana River Woollystar	<i>Eriastrum densifolium</i> ssp. <i>sanctorum</i>	Objective 2: Include within the MSHCP Conservation Area at least three localities of this species along the Santa Ana River near the San Bernardino County border.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Detected in 3 of 3 (100%) required locations.</i>	8	F / D	N / N	YES
Shaggy-haired Alumroot	<i>Heuchera hirsutissima</i>	Objective 2: Include within the MSHCP Conservation Area the two known localities of this plant in the San Jacinto Mountains: one locality lies on the western slopes of the San Jacinto Mountains above the San Jacinto River and the other locality is in a gully behind Tahquitz Rock.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 1 of 2 (50%) required locations. Unable to meet Objective as written because Objective 2 includes a location that is not within the Plan Area.</i>	8	F / D	F / N	NO
Slender-horned Spine Flower	<i>Dodecahema leptoceras</i>	Objective 2: Include within the MSHCP Conservation Area at least 11 of the known locations of this species, including Temescal Canyon, Bautista Canyon, upper San Jacinto River, Agua Tibia Wilderness Area, Alberhill, Alberhill Creek east of Lake Elsinore, Railroad Canyon, Vail Lake, Kolb Creek, and east of State Street south of Hemet.	-	-	-	-

* Only objectives evaluated by the Biological Monitoring Program are included; other objectives in this table were provided for reference purposes only. Objectives have been shortened to fit in the table; for full text, see the Species Accounts in Volume 2 of the MSHCP.

† Survey Type/Detection Type: F / D = focused survey, species detected; F / N = focused survey, species not detected; F / I = focused survey, species not detected during survey but detected incidentally; N / I = no focused survey but detected incidentally; N / N = no focused survey and not detected; N / D = no focused survey by the Monitoring Program but species detected during focused survey by agency reported in parentheses.

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§ See Volume 1, Section 5, Table 5-8 of the MSHCP

**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 3 of 11 (27%) required locations. Unable to meet Objective as written because Objective 2 includes duplicate records and locations that are not within the Conservation Area.</i>	8	F / D	F / D	NO
Small-flowered Microseris	<i>Microseris douglasii</i> var. <i>platycarpa</i>	Objective 2: Include within the MSHCP Conservation Area at least eight of the known locations at Lake Matthews, in the Cleveland National Forest, at Lake Skinner and at Vail Lake.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 4 of 8 (50%) required locations. Surveys for Objectives 2 are ongoing to reconfirm expired occurrences.</i>	8	F / D	F / D	NO
		Objective 3/MSHCP Table 9-3: Confirm 10 localities (locality in this sense is not smaller than 1 quarter section) with at least 1,000 individuals (unless a smaller population has been demonstrated to be self-sustaining). <i>Note: Species detected in 10 of 10 (100%) localities with sufficient numbers to meet population requirements.</i>	8	F / D	N / N	YES
		Covered Species not adequately conserved until the above objective is met.				
Small-flowered Morning-glory	<i>Convolvulus simulans</i>	Objective 2: Include within the MSHCP Conservation Area at least eight of the known localities (including Vail Lake, Lake Skinner, Lake Mathews, Temescal	-	-	-	-

* Only objectives evaluated by the Biological Monitoring Program are included; other objectives in this table were provided for reference purposes only. Objectives have been shortened to fit in the table; for full text, see the Species Accounts in Volume 2 of the MSHCP.

† Survey Type/Detection Type: F / D = focused survey, species detected; F / N = focused survey, species not detected; F / I = focused survey, species not detected during survey but detected incidentally; N / I = no focused survey but detected incidentally; N / N = no focused survey and not detected; N / D = no focused survey by the Monitoring Program but species detected during focused survey by agency reported in parentheses.

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§ See Volume 1, Section 5, Table 5-8 of the MSHCP

**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		Canyon, Alberhill, Santa Rosa Plateau, Santa Ana Mountains, and Skunk Hollow) of this species.				
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 7 of 8 (88%) required locations.</i>	8	F / D	F / D	YES
Smooth Tarplant	<i>Centromadia pungens</i>	Objective 2: Include within the MSHCP Conservation Area at least 27 of the known occurrences of this species at Antelope Valley; Temescal Canyon; Lake Elsinore; Murrieta Creek; French Valley; Lakeview Mountains; Lake Skinner; Diamond Valley Lake; Sycamore Canyon Park; Alberhill Creek; Lake Mathews; the Santa Ana River; and the core locations at the San Jacinto Wildlife Area, the middle segment of the San Jacinto River and upper Salt Creek.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 18 of 27 (67%) required locations. Objective 2 includes many historical records that are not within Conservation Area.</i>	8	F / D	F / D	NO
Spreading Navarretia	<i>Navarretia fossalis</i>	Objective 2: Include within the MSHCP Conservation Area at least 13 of the known locations of Spreading Navarretia at the Skunk Hollow, the Santa Rosa Plateau and core locations: the San Jacinto Wildlife Area, floodplains of the San Jacinto River from the Ramona Expressway south to Railroad Canyon, and upper Salt Creek west of Hemet.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2.	8	F / D	F / D	NO

* Only objectives evaluated by the Biological Monitoring Program are included; other objectives in this table were provided for reference purposes only. Objectives have been shortened to fit in the table; for full text, see the Species Accounts in Volume 2 of the MSHCP.

† Survey Type/Detection Type: F / D = focused survey, species detected; F / N = focused survey, species not detected; F / I = focused survey, species not detected during survey but detected incidentally; N / I = no focused survey but detected incidentally; N / N = no focused survey and not detected; N / D = no focused survey by the Monitoring Program but species detected during focused survey by agency reported in parentheses.

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§ See Volume 1, Section 5, Table 5-8 of the MSHCP



**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		<i>Note: Species detected in 6 of 13 (46%) required locations. Unable to meet Objective as written because several required occurrences included in Objective 2 appear to be extirpated and objective includes locations that are not within the Conservation Area.</i>				
Sticky-leaved Dudleya	<i>Dudleya viscida</i>	Objective 2: Include within the MSHCP Conservation Area the three populations within the San Mateo Wilderness Area of the Santa Ana Mountains.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 3 of 3 (100%) required locations.</i>	8	F / D	N / N	YES
Thread-leaved Brodiaea	<i>Brodiaea filifolia</i>	Objective 2: Include within the MSHCP Conservation Area the Core Areas located at Goetz Road (EO1), Perris Valley airport (EO2), Tenaja Road (EO3), Mesa de Colorado (EO5), Hemet vernal pools (EO 26), South SJWA (EO27), Squaw Mountain (EO29), Santa Rosa ranch (EO30), Slaughterhouse (EO31), North SJWA (EO43) and Redondo Mesa (EO 52).	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 6 of 12 (50%) required locations. Unable to meet Objective at this time. Objective 2 includes locations that are not within the Conservation Area and records for misidentified species.</i>	8	F / D	N / I	NO
Vail Lake Ceanothus	<i>Ceanothus ophiochilus</i>	Objective 2: Include within the MSHCP Conservation Area at least three core locations in the vicinity of Vail Lake and the Agua Tibia Wilderness area.	-	-	-	-

* Only objectives evaluated by the Biological Monitoring Program are included; other objectives in this table were provided for reference purposes only. Objectives have been shortened to fit in the table; for full text, see the Species Accounts in Volume 2 of the MSHCP.

† Survey Type/Detection Type: F / D = focused survey, species detected; F / N = focused survey, species not detected; F / I = focused survey, species not detected during survey but detected incidentally; N / I = no focused survey but detected incidentally; N / N = no focused survey and not detected; N / D = no focused survey by the Monitoring Program but species detected during focused survey by agency reported in parentheses.

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§ See Volume 1, Section 5, Table 5-8 of the MSHCP

**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024‡	Objective* Currently Met? ‡
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 2 of 3 (67%) of required locations. Unable to meet Objective at this time because Objective 2 includes a location that is not within the Conservation Area (non-PQP areas surrounding Vail Lake).</i>	8	F / D	N / I	NO
Vernal Barley	<i>Hordeum intercedens</i>	Objective 2: Include within the MSHCP Conservation Area at least four locations (including three core locations) of Vernal Barley: the San Jacinto Wildlife Area, the middle segment of the San Jacinto River from Ramona Expressway south to Railroad Canyon, the upper Salt Creek drainage west of Hemet, and the occurrence near Nichols Road at Alberhill.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 3 of 4 (75%) required locations.</i>	8	F / D	F / D	YES
Wright's Trichocoronis	<i>Trichocoronis wrightii</i> var. <i>wrightii</i>	Objective 2: Include within the MSHCP Conservation Area at least four of the known locations along the San Jacinto River from the vicinity of the Ramona Expressway and San Jacinto Wildlife Area and along the northern shore of Mystic Lake.	-	-	-	-
		Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations as described in Objective 2. <i>Note: Species detected in 0 of 4 (0%) required locations.</i>	8	F / D	F / N	NO

* Only objectives evaluated by the Biological Monitoring Program are included; other objectives in this table were provided for reference purposes only. Objectives have been shortened to fit in the table; for full text, see the Species Accounts in Volume 2 of the MSHCP.

† Survey Type/Detection Type: F / D = focused survey, species detected; F / N = focused survey, species not detected; F / I = focused survey, species not detected during survey but detected incidentally; N / I = no focused survey but detected incidentally; N / N = no focused survey and not detected; N / D = no focused survey by the Monitoring Program but species detected during focused survey by agency reported in parentheses.

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§ See Volume 1, Section 5, Table 5-8 of the MSHCP

**TABLE B-2
Details of Covered Species Monitoring**

Common Name	Latin Name	Species Objective Evaluated by the Monitoring Program	Frequency	2004-2023†	2024†	Objective* Currently Met? ‡
		<i>Unable to meet Objective because one or more required known locations included in Objective 2 appears to be extirpated. Objective 2 includes locations that are not within the Conservation Area.</i>				
Yucaipa Onion	<i>Allium marvinii</i>	Species Objective (MSHCP Table 5-8)§: 75% Minimum level of occupation of known locations§. <i>Note: Species detected at 2 of 2 (100%) of known locations.</i>	8	F / D	F / D	YES

* Only objectives evaluated by the Biological Monitoring Program are included; other objectives in this table were provided for reference purposes only. Objectives have been shortened to fit in the table; for full text, see the Species Accounts in Volume 2 of the MSHCP.

† Survey Type/Detection Type: F / D = focused survey, species detected; F / N = focused survey, species not detected; F / I = focused survey, species not detected during survey but detected incidentally; N / I = no focused survey but detected incidentally; N / N = no focused survey and not detected; N / D = no focused survey by the Monitoring Program but species detected during focused survey by agency reported in parentheses.

‡ YES = objective(s) met; NO = objective(s) not met; Partial = portion but not entire objective met. Table B-2 analyzes objectives with monitoring component only.

§ See Volume 1, Section 5, Table 5-8 of the MSHCP

TABLE B-3
Status of Covered Species Monitoring -Not Adequately Conserved¹

Common Name	Latin Name	Table 9-3 Requirement	Table 9-3 Requirement Met?
Beautiful Hulsea	<i>Hulsea vestita ssp. callicarpa</i>	Objective 3/MSHCP Table 9-3: Confirm 16 localities (locality in this sense is not smaller than 1 quarter section) with no fewer than 50 individuals each (unless a smaller population has been demonstrated to be self-sustaining).	YES
California Bedstraw	<i>Galium californicum ssp. primum</i>	A Memorandum of Understanding must be executed with the Forest Service that addresses management for this species on Forest Service Land. <i>Note: A Memorandum of Understanding has not been executed with the Forest Service to date.</i>	NO
California Muhly	<i>Muhlenbergia californica</i>	Objective 3/MSHCP Table 9-3: Confirm 10 localities (locality in this sense is not smaller than 1 quarter section) containing at least 50 clumps (unless a smaller population has been demonstrated to be self-sustaining). <i>Note: Species does not occur within the Plan Area.</i>	NO
California Spotted Owl	<i>Strix occidentalis occidentalis</i>	A Memorandum of Understanding must be executed with the Forest Service that addresses management for this species on Forest Service Land. <i>Note: A Memorandum of Understanding has not been executed with the Forest Service to date.</i>	NO
Chickweed Oxytheca	<i>Oxytheca caryophylloides</i>	Objective 3/MSHCP Table 9-3: Confirm 10 localities (locality in this sense is not smaller than 1 quarter section) managed with 1,000 individuals each (unless a smaller population has been demonstrated to be self-sustaining). <i>Note: Detected in 10 of 10 (100%) localities with population requirements.</i>	YES

TABLE B-3
Status of Covered Species Monitoring -Not Adequately Conserved¹

Common Name	Latin Name	Table 9-3 Requirement	Table 9-3 Requirement Met?
Cleveland's Bush Monkeyflower	<i>Mimulus clevelandii</i>	A Memorandum of Understanding must be executed with the Forest Service that addresses management for this species on Forest Service Land. <i>Note: A Memorandum of Understanding has not been executed with the Forest Service to date.</i>	NO*
Cliff Cinquefoil	<i>Potentilla rimicola</i>	Objective 3: Within the MSHCP Conservation Area, confirm five localities (locality in this sense is not smaller than one quarter section). <i>Note: Objective includes duplicate records and species occurs mostly outside of the Plan Area.</i>	NO
Coulter's Matilija Poppy	<i>Romneya coulteri</i>	Objective 2: Within the MSHCP Conservation Area, confirm 30 localities (locality in this sense is not smaller than one quarter section).	YES
Fish's Milkwort	<i>Polygala cornuta var. fishiae</i>	Objective 3/MSHCP Table 9-3: Confirm 10 localities (locality in this sense is not smaller than 1 quarter section) with at least 50 individuals (ramets or genets) each (unless a smaller population has been demonstrated to be self-sustaining).	YES
Graceful Tarplant	<i>Holocarpha virgata ssp. elongata</i>	Objective 3/MSHCP Table 9-3: Confirm 10 localities (locality in this sense is not smaller than 1 quarter section) with 1,000 individuals each (unless a smaller population has been demonstrated to be self-sustaining).	YES

TABLE B-3
Status of Covered Species Monitoring -Not Adequately Conserved¹

Common Name	Latin Name	Table 9-3 Requirement	Table 9-3 Requirement Met?
Grasshopper Sparrow	<i>Ammodramus savannarum</i>	<p>Objective 2: Within the MSHCP Conservation Area, maintain occupancy within 3 large Core Areas (100 percent) and at least 3 of the 4 smaller Core Areas (75 percent) in at least 1 year out of any 5 consecutive year period. In order for this species to become a Covered Species Adequately Conserved, the following conservation must be demonstrated: Include within the MSHCP Conservation Area at least 8,000 acres in 7 Core Areas. Three of the 7 Core Areas will be large, consisting of a minimum of 2,000 acres of grassland habitat or grassland dominated habitat (<20 percent shrub cover). The other 4 Core Areas may be smaller but will consist of at least 500 acres of contiguous grassland habitat or grassland dominated habitat (<20 percent shrub cover). Five of the 7 Core Areas will be demonstrated to support at least 20 grasshopper sparrow pairs with evidence of successful reproduction within the first 5 years after permit issuance. Successful reproduction is defined as a nest which fledged at least one known young.</p> <p><i>Note: Occupancy of the large Core Areas has been confirmed, but not for the small Core Areas. The reproduction portion of the objective has not been met.</i></p>	Partial
Lemon Lily	<i>Lilium parryi</i>	<p>A Memorandum of Understanding must be executed with the Forest Service that addresses management for this species on Forest Service Land.</p> <p><i>Note: A Memorandum of Understanding has not been executed with the Forest Service to date.</i></p>	NO*

**TABLE B-3
Status of Covered Species Monitoring -Not Adequately Conserved¹**

Common Name	Latin Name	Table 9-3 Requirement	Table 9-3 Requirement Met?
Lincoln's Sparrow	<i>Melospiza lincolnii</i>	<p>Objective 3/MSHCP Table 9-3: Maintain occupancy within 3 large Core Areas (100%) in at least 1 year out of any 5-consecutive-year period. In order for this species to become a Covered Species Adequately Conserved, the following conservation must be demonstrated: Include within the MSHCP Conservation Area at least 100 acres in 3 Core Areas. Core Areas may include the following: (1) Tahquitz Valley; (2) Round Valley; (3) Garner Valley. The 3 Core Areas will be large, consisting of a minimum of 50 acres of montane meadow, wet montane meadow, and edges of montane riparian or riparian scrub. The Core Areas will be demonstrated to support at least 20 Lincoln Sparrow pairs with evidence of successful reproduction within the first 5 years after permit issuance.</p> <p><i>Note: Species not detected in 2008 surveys. Two of the suggested Core Areas are outside of the Plan Area. Reproductive objective possibly will not be met because suitable breeding habitat is difficult to locate in the Plan Area, and species is rarely present during the breeding season. Found in Garner Valley in current reporting period (1 of 3 Core Areas; 33%).</i></p>	NO
Mojave Tarplant	<i>Deinandra mohavensis</i>	<p>Objective 3: Include within the MSHCP Conservation Area at least four localities (locality in this sense is not smaller than one quarter section) occupying at least 100 acres.</p> <p><i>Note: Interpretation of acreage requirement necessary.</i></p>	NO
Ocellated Humboldt Lily	<i>Lilium humboldtii</i> ssp. <i>ocellatum</i>	<p>A Memorandum of Understanding must be executed with the Forest Service that addresses management for this species on Forest Service Land.</p> <p><i>Note: A Memorandum of Understanding has not been executed with the Forest Service to date.</i></p>	NO*

TABLE B-3
Status of Covered Species Monitoring -Not Adequately Conserved¹

Common Name	Latin Name	Table 9-3 Requirement	Table 9-3 Requirement Met?
Parry's Spine Flower	<i>Chorizanthe parryi</i> var. <i>parryi</i>	Objective 3: Within the MSHCP Conservation Area, confirm 10 localities (locality in this sense is not smaller than one quarter section) with at least 1,000 individuals (unless a smaller population has been demonstrated to be self-sustaining).	YES
Peninsular Spine Flower	<i>Chorizanthe leptotheca</i>	Objective 2: Within the MSHCP Conservation Area, confirm 10 localities (locality in this sense is not smaller than 1 quarter section) with at least 1,000 individuals (unless a smaller population has been demonstrated to be self-sustaining).	YES
Plummer's Mariposa Lily	<i>Calochortus plummerae</i>	Objective 3: Within the MSHCP Conservation Area, confirm six localities (locality in this sense is not smaller than one quarter section) of at least 500 individuals each (unless a smaller population has been demonstrated to be self-sustaining).	NO
Rainbow Manzanita	<i>Arctostaphylos rainbowensis</i>	Objective 3: Within the MSHCP Conservation Area, confirm 10 localities (locality in this sense is not smaller than one quarter section) with more than 50 individuals each (unless a smaller population has been demonstrated to be self-sustaining).	YES
San Bernardino Flying Squirrel	<i>Glaucomys sabrinus californicus</i>	Objective 2: Within the MSHCP Conservation Area, confirm occupation of 1000 ha (2470 acres) with a mean density of at least 2 individuals per hectare (2 individuals per 2.47 acres) in the San Jacinto Mountains; and in the San Bernardino Mountains confirm occupation of 100 ha. <i>Note: USFS and SDNHM staff have determined it is extremely unlikely that the objective will ever be met. Focused surveys have not been conducted.</i>	NO
San Bernardino Mountain Kingsnake	<i>Lampropeltis zonata parvirubra</i>	A Memorandum of Understanding must be executed with the Forest Service that addresses management for this species on Forest Service Land. <i>Note: A Memorandum of Understanding has not been executed with the Forest Service to date.</i>	NO

TABLE B-3
Status of Covered Species Monitoring -Not Adequately Conserved¹

Common Name	Latin Name	Table 9-3 Requirement	Table 9-3 Requirement Met?
San Diego Mountain Kingsnake	<i>Lampropeltis zonata pulchra</i>	A Memorandum of Understanding must be executed with the Forest Service that addresses management for this species on Forest Service Land. <i>Note: A Memorandum of Understanding has not been executed with the Forest Service to date.</i>	NO
Shaggy-haired Alumroot	<i>Heuchera hirsutissima</i>	A Memorandum of Understanding must be executed with the Forest Service that addresses management for this species on Forest Service Land. <i>Note: A Memorandum of Understanding has not been executed with the Forest Service to date.</i>	NO
Small-flowered Microseris	<i>Microseris douglasii</i> var. <i>platycarpha</i>	Objective 3: Within the MSHCP Conservation Area, confirm 10 localities (locality in this sense is not smaller than one quarter section) with at least 1,000 individuals (unless a smaller population has been demonstrated to be self-sustaining).	YES
Southern Rubber Boa	<i>Charina bottae umbratica</i>	A Memorandum of Understanding must be executed with the Forest Service that addresses management for this species on Forest Service Land. <i>Note: A Memorandum of Understanding has not been executed with the Forest Service to date.</i>	NO
Southern Sagebrush Lizard	<i>Sceloporus graciosus vandenburgianus</i>	A Memorandum of Understanding must be executed with the Forest Service that addresses management for this species on Forest Service Land. <i>Note: A Memorandum of Understanding has not been executed with the Forest Service to date.</i>	NO
Sticky-leaved Dudleya	<i>Dudleya viscida</i>	A Memorandum of Understanding must be executed with the Forest Service that addresses management for this species on Forest Service Land.	NO

TABLE B-3
Status of Covered Species Monitoring -Not Adequately Conserved¹

Common Name	Latin Name	Table 9-3 Requirement	Table 9-3 Requirement Met?
		<i>Note: A Memorandum of Understanding has not been executed with the Forest Service to date.</i>	
Williamson’s Sapsucker	<i>Sphyrapicus thyroideus</i>	<p>A Memorandum of Understanding must be executed with the Forest Service that addresses management for this species on Forest Service Land.</p> <p><i>Note: A Memorandum of Understanding has not been executed with the Forest Service to date.</i></p>	NO
<p>¹ Refer to RCA website (https://www.wrc-rca.org/document-library/) for current status of species requirements met per Table 9-3 of the Volume of the MSHCP. * Monitoring Objectives met, but MOU needed to move to Adequately Conserved.</p>			

TABLE B-4
List of Covered Species Taxonomic Name Changes Since the MSHCP was Adopted

Taxon	MSHCP Common Name	MSHCP Latin Name	Current Common Name	Current Latin Name	Year Updated	Naming Authority	Citation	Name Change Notes
Birds	Bell's Sage Sparrow	<i>Amphispiza belli belli</i>	Bell's Sparrow	<i>Artemisiospiza belli</i>	1/1/2013	American Ornithologists' Union	Chesser RT, Banks RC, Barker FK, Cicero C, Dunn JL, Kratter AW, Lovette IJ, Rasmussen PC, Remsen, JV, Jr., Rising JD, Stotz DF, Winker K. 2013. Fifty-fourth supplement to the American Ornithologists' Union <i>Check-list of North American Birds</i> . Auk 130:114.	From cited article: Updated genus based upon "the basis of differences in mitochondrial DNA, morphology, and ecology, and limited gene flow at the contact zone in eastern California."
Birds	Double-crested Cormorant	<i>Phalacrocorax auritus</i>	Double-crested Cormorant	<i>Nannopterum auritum</i>	1/1/2021	American Ornithologists' Union	Chesser RT, Billerman SM, Burns KJ, Cicero C, Dunn JL, Hernández-Baños BE, Kratter AW, Lovette IJ, Mason NA, Rasmussen PC, Remsen JV, Jr., Stotz DF, Winker K. 2021. Sixty-second Supplement to the American Ornithological Society's <i>Check-list of North American Birds</i> . Ornithology 138:1-18.	From cited article: "Urile and <i>Nannopterum</i> were formerly synonymized with <i>Phalacrocorax</i> ...but genetic data...show deep divergences within <i>Phalacrocorax</i> largely congruent with differences based upon osteological data..."
Birds	Downy Woodpecker	<i>Picoides pubescens</i>	Downy Woodpecker	<i>Dryobates pubescens</i>	1/1/2018	American Ornithological Society	Chesser RT, Burns KR, Cicero C, Dunn JL, Kratter AW, Lovette IJ, Rasmussen PC, Remsen JV, Jr., Stotz DF, Winger BM, Winker K. 2018. Fifty-ninth supplement to the American Ornithological Society's <i>Check-list of North American Birds</i> . Auk 135:798-813.	From cited article: "...Genetic data...indicate that <i>Picoides</i> as previously constituted was polyphyletic and that these species are not true <i>Picoides</i> ."
Birds	MacGillivray's Warbler	<i>Oporornis tolmiei</i>	MacGillivray's Warbler	<i>Geothlypis tolmiei</i>	1/1/2011	American Ornithologists' Union	Chesser RT, Banks RC, Barker FK, Cicero C, Dunn JL, Kratter AW, Lovette IJ, Rasmussen PC, Remsen, JV, Jr., Rising JD, Stotz DF, Winker K. 2013. Fifty-second supplement to the American Ornithologists' Union <i>Check-list of North American Birds</i> . Auk 128:600-613.	From cited article: "Phylogenetic analyses of sequences of mitochondrial and nuclear DNA...indicate that several species often placed in <i>Oporornis (tolmiei...)</i> are more closely related to <i>Geothlypis</i> species than to <i>Oporornis sensu stricto</i> ..."

TABLE B-4
List of Covered Species Taxonomic Name Changes Since the MSHCP was Adopted

Taxon	MSHCP Common Name	MSHCP Latin Name	Current Common Name	Current Latin Name	Year Updated	Naming Authority	Citation	Name Change Notes
Birds	Nashville Warbler	<i>Vermivora ruficapilla</i>	Nashville Warbler	<i>Leiothlypis ruficapilla</i>	1/1/2019	American Ornithological Society	Chesser RT, Burns KR, Cicero C, Dunn JL, Kratter, AW, Lovette IJ, Rasmussen PC, Remsen JV, Jr., Stotz DF, Winker K. 2019. Sixtieth supplement to the American Ornithological Society's <i>Check-list of North American Birds</i> . Auk 136:ukz042.	From cited article: <i>Leiothlypis</i> “formerly considered part of <i>Vermivora</i> ...or <i>Oreothlypis</i> ...”, but treated as separate...on the basis of genetic data...that indicate that species in <i>Oreothlypis</i> form two deeply divergent clades consistent with long-recognized phenotypic differences, and that species in <i>Leiothlypis</i> are not closely related to <i>Vermivora sensu stricto</i> .”
Birds	Wilson's Warbler	<i>Wilsonia pusilla</i>	Wilson's Warbler	<i>Cardellina pusilla</i>	1/1/2011	American Ornithologists' Union	Chesser RT, Banks RC, Barker FK, Cicero C, Dunn, JL, Kratter AW, Lovette IJ, Rasmussen PC, Remsen, JV, Jr., Rising JD, Stotz DF, Winker K. 2013. Fifty-second supplement to the American Ornithologists' Union <i>Check-list of North American Birds</i> . Auk 128:600-613.	From cited article: “Phylogenetic analyses of sequences of nuclear and mitochondrial DNA...indicate that two species formerly placed in the genus <i>Wilsonia</i> (<i>canadensis</i> and <i>pusilla</i>)...form a clade with <i>Cardellina rubrifrons</i> . The generic name <i>Cardellina</i> has priority for this clade.”

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Taxon	MSHCP Common Name	MSHCP Latin Name	Current Common Name	Current Latin Name	Year Updated	Naming Authority	Citation	Name Change Notes
Birds	Yellow Warbler	<i>Dendroica petechia brewsteri</i>	Yellow Warbler	<i>Setophaga petechia</i>	1/1/2011	American Ornithologists' Union	Chesser RT, Banks RC, Barker FK, Cicero C, Dunn, JL, Kratter AW, Lovette IJ, Rasmussen PC, Remsen, JV, Jr., Rising JD, Stotz DF, Winker K. 2013. Fifty-second supplement to the American Ornithologists' Union <i>Check-list of North American Birds</i> . Auk 128:600-613.	From cited article: "Phylogenetic analyses of sequences of mitochondrial and nuclear DNA...indicate that all species formerly placed in <i>Dendroica</i> ...form a clade with the single species traditionally placed in <i>Setophaga (ruticilla)</i> . The generic name <i>Setophaga</i> has priority for this clade."
Herps	Arroyo Toad	<i>Bufo californicus</i>	Arroyo Toad	<i>Anaxyrus californicus</i>	2006	Society for the Study of Amphibians and Reptiles	Frost, D.R., Grant, T., Faivovich, J., Bain, R.H., Haas, A., Haddad, C.F.B., de Sa', R.O., Channing, A., Wilkinson, M., Donnellan, S.C., Raxworthy, C.J., Campbell, J.A., Blotto, B.L., Moler, P., Drewes, R.C., Nussbaum, R.A., Lynch, J.D., Green, D.M., Wheeler, W.C., 2006. The amphibian tree of life. B. Am. Mus. Nat. Hist. 297, 1–370.	This taxon of strictly North American toads was removed from " <i>Bufo</i> " (as well as were a number of other taxa) by Frost et al. (2006) as a revision to render a monophyletic taxonomy and with genera delimited to be more compact than the unwieldy " <i>Bufo</i> ".

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Taxon	MSHCP Common Name	MSHCP Latin Name	Current Common Name	Current Latin Name	Year Updated	Naming Authority	Citation	Name Change Notes
Herps	California Red-legged Frog	<i>Rana aurora draytonii</i>	California Red-legged Frog	<i>Rana draytonii</i>	2004	Society for the Study of Amphibians and Reptiles	Shaffer HB, Fellers GM, Voss SR, Oliver JC, Pauly, GB. 2004. Species boundaries, phylogeography and conservation genetics of the red-legged frog (<i>Rana aurora/draytonii</i>) complex. <i>Molecular ecology</i> . 13:9	Schaeffer et al. in a 2004 genetics study determined that <i>R. aurora</i> actually consists of two species, <i>R. aurora</i> , and <i>R. draytonii</i> , whose ranges overlap only in a narrow zone in Mendocino County. Before being split into two species, two subspecies of <i>Rana aurora</i> were recognized: <i>R. a. aurora</i> , and <i>R. a. draytonii</i> . Frogs in the very large area between Del Norte County and the Walker Creek drainage in Marin County were considered to be intergrades.
Herps	Coast Range Newt	<i>Taricha torosa torosa</i>	California Newt	<i>Taricha torosa</i>	2007	Society for the Study of Amphibians and Reptiles (SSAR)	<u>Crother, B. I.</u> (ed.). 2017. Scientific and Standard English Names of Amphibians and Reptiles of North America North of Mexico, with Comments Regarding Confidence in Our Understanding pp. 1–102. SSAR Herpetological Circular 43. <u>Kuchta, S. R.</u> (2007). "Contact zones and species limits: hybridization between lineages of the California Newt, <i>Taricha torosa</i> , in the southern Sierra Nevada." <i>Herpetologica</i> , 63, 332-350.	The Coast Range Newt was originally thought to be a subspecies of <i>T. torosa</i> based on geographic distribution and coloration. However, recent phylogeographic work on <i>T. t. torosa</i> and <i>T. t. sierrae</i> , has shown that the two subspecies constitute distinct evolutionary lineages justifying recognition as separate species. (Crother 2017; Kuchta 2007).

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Taxon	MSHCP Common Name	MSHCP Latin Name	Current Common Name	Current Latin Name	Year Updated	Naming Authority	Citation	Name Change Notes
Herps	Coastal Western Whiptail	<i>Cnemidophorus tigris multiscutatus</i>	San Diegan Tiger Whiptail	<i>Aspidoscelis tigris stejnegeri</i>	2002/2012	Society for the Study of Amphibians and Reptiles	Reeder TW, Cole CJ, Dessauer HC. 2002. Phylogenetic Relationships of Whiptail Lizards of the Genus <i>Cnemidophorus</i> (Squamata: Teiidae): A Test of Monophyly, Reevaluation of Karyotypic Evolution, and Review of Hybrid Origins. <i>American Museum Novitates</i> 2002(3365), 1-61. Crother et al. 2012. Society for the Study of Amphibians and Reptiles Herpetological Circular No. 39. Ed. Moriarty JJ.	Genus changed from <i>Cnemidophorus</i> to <i>Aspidoscelis</i> (Reeder et al. 2002) with the treatment of <i>A. t. stejnegeri</i> as the name of the subspecies of <i>A. tigris</i> occurring in coastal southern California. The common name was changed from Coastal Western Whiptail to San Diegan Tiger Whiptail in the Seventh edition of the S.S.A.R. list, published in 2012.
Herps	Granite Night Lizard	<i>Xantusia henshawi henshawi</i>	Granite Night Lizard	<i>Xantusia henshawi</i>	2001	Society for the Study of Amphibians and Reptiles	Lovich, R. 2001. Phylogeography of the night lizard (<i>Xantusia henshawi</i>), in southern California: evolution across fault zones. <i>Herpetologica</i> 57(4):470-487.	Called <i>Xantusia henshawi henshawi</i> -Henshaw's Night Lizard, after the discovery of <i>X. h. gracilis</i> . It was returned to full species status in 2001 when Lovich elevated <i>X. gracilis</i> to a full species in 2001.
Herps	Northern Red Diamond Rattlesnake	<i>Crotalus ruber ruber</i>	Red Diamond Rattlesnake	<i>Crotalus ruber</i>	2000/2012	The International Commission on Zoological Nomenclature	The International Commission on Zoological Nomenclature (ICZN). 2000. Vol. 57: 189–190 (multiple research/authors recognized). Retrieved from https://www.biodiversitylibrary.org/item/45022#page/211/mode/1up . Stebbins, Robert C., and McGinnis, Samuel M. Field Guide to Amphibians and Reptiles of California: Revised Edition (California Natural History Guides) University of California Press, 2012.	ICZN ruled that the name <i>Crotalus ruber</i> Cope 1892 takes precedence over <i>C. exsul</i> Garman 1884 when used as a specific epithet. This ruling removed subspecies status as well. Though, it didn't appear in field guides until 2012.

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Taxon	MSHCP Common Name	MSHCP Latin Name	Current Common Name	Current Latin Name	Year Updated	Naming Authority	Citation	Name Change Notes
Herps	Belding's Orange-throated Whiptail	<i>Cnemidophorus hyperythrus beldingi</i>	Belding's Orange-throated Whiptail	<i>Aspidoscelis hyperythrus beldingi</i>	2002/2014	Society for the Study of Amphibians and Reptiles	Reeder TW, Cole CJ, Dessauer HC. 2002. Phylogenetic Relationships of Whiptail Lizards of the Genus <i>Cnemidophorus</i> (Squamata: Teiidae): A Test of Monophyly, Reevaluation of Karyotypic Evolution, and Review of Hybrid Origins. American Museum Novitates 2002(3365), 1-61. Taylor, Harry L. and James M. Walker. 2014. Pan-Peninsular pattern of morphological variation in <i>Aspidoscelis hyperythra</i> (Squamata: Teiidae), Baja California, Mexico. Southwestern Naturalist Jun 2014, Vol. 59, No. 2: 221-227.	Genus changed from <i>Cnemidophorus</i> to <i>Aspidoscelis</i> (Reeder et al. 2002). A multivariate analysis of morphological variation in <i>A. hyperythra</i> by Taylor and Walker (2014) found evidence of differentiation between populations north and south of the Isthmus of La Paz, which have previously been recognized as the subspecies <i>A. h. beldingi</i> and <i>A. h. hyperythra</i> . SSAR no longer recognizes the subspecies, though it should be noted that this genus classification may still be in flux.
Herps	San Diego Banded Gecko	<i>Coleonyx variegatus abbotti</i>	San Diego Banded Gecko	<i>Coleonyx variegatus abbotti</i>	2015	Society for the Study of Amphibians and Reptiles	Leavitt, DH. 2015. Lineage Diversification in Southwestern Lizards: Accounting for Introgression at Multiple Timescales [PhD Thesis]. University of California, Davis in Davis CA, and San Diego State University in San Diego, CA	New mt and nuDNA study shows this subspecies to be 2 separate subspecies with an area of intergrade, all of which may occur in the Plan area. Since the majority of the Plan area is within <i>C.v.abbotti</i> range, we will continue to use the Plan name.
			Desert Banded Gecko	<i>Coleonyx variegatus variegatus</i>				
Herps	San Diego Horned Lizard	<i>Phrynosoma coronatum blainvillei</i>	Blainville's Horned Lizard	<i>Phrynosoma blainvillii</i>	2004	Society for the Study of Amphibians and Reptiles	Montanucci RR. 2004. Geographic Variation in <i>Phrynosoma Coronatum</i> (Lacertilia, Phrynosomatidae): Further Evidence for a Peninsular Archipelago. Herpetologica 60(1):117-139	Montanucci (2004) treatment of <i>P. blainvillii</i> as a separate species from <i>P. coronatum</i> .

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Taxon	MSHCP Common Name	MSHCP Latin Name	Current Common Name	Current Latin Name	Year Updated	Naming Authority	Citation	Name Change Notes
Herps	San Diego Mountain Kingsnake	<i>Lampropeltis zonata pulchra</i>	California Mountain Kingsnake	<i>Lampropeltis zonata</i>	7/31/2013	Society for the Study of Amphibians and Reptiles	E. A. Myers, J. A. Rodríguez-Robles, D. F. DeNardo, R. E. Staub, A. Stropoli, S. Ruane, F. T. Burbrink. 2013. Multilocus phylogeographic assessment of the California Mountain Kingsnake (<i>Lampropeltis zonata</i>) suggests alternative patterns of diversification for the California Floristic Province. <i>Molecular Ecology</i> 21:22	This species was investigated using a multi-locus nuclear dataset (Myers et al., 2013), finding multiple species-level taxa. This species now comprises the formerly recognized subspecies <i>L. z. zonata</i> , <i>L. z. multicincta</i> , and <i>L. z. multifasciata</i> (part), including populations from the Sierra Nevada north.
	San Bernardino Mountain Kingsnake	<i>Lampropeltis zonata parvirubra</i>						
Herps	Southern Rubber Boa	<i>Charina bottae umbratica</i>	Southern Rubber Boa	<i>Charina umbratica</i>	2001	Society for the Study of Amphibians and Reptiles	Javier A. Rodríguez-Robles, Glenn R. Stewart, and Theodore J. Papenfus. 2001. Mitochondrial DNA-Based Phylogeography of North American Rubber Boas, <i>Charina bottae</i> (Serpentes: Boidae). <i>Molecular Phylogenetics and Evolution</i> Vol. 18, No. 2, February, pp. 227–237	Rodríguez-Robles et al. (2001) found <i>C. b. umbratica</i> to be morphologically and geographically distinct and were elevated to species status based in part on lineages using mtDNA evidence along with allozyme data from a previous study (Weisman, 1988, MS Thesis, CSU Polytechnic Pomona)

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Taxon	MSHCP Common Name	MSHCP Latin Name	Current Common Name	Current Latin Name	Year Updated	Naming Authority	Citation	Name Change Notes
Herps	Western Pond Turtle	<i>Clemmys marmorata pallida</i>	Southwestern Pond Turtle	<i>Actinemys pallida</i>	2001 2002 2003 2008 2016	Society for the Study of Amphibians and Reptiles	<u>Holman, J.A. and U. Fritz.</u> 2001. A new emyidine species from the Middle Miocene (Barstovian) of Nebraska, USA with a new generic arrangement for the species of <i>Clemmys</i> sensu McDowell (1964) (Reptilia: Testudines : Emydidae). Zoologische Abhandlungen, Staatliches Museum für Tierkunde Dresden 51, 331–354. <u>Crother, B.L. et al.</u> 2008. Scientific and standard English names of amphibians and reptiles of North America north of Mexico. Society for the Study of Amphibians and Reptiles, Herpetological Circular No. 37. J10. <u>Spinks PQ, Thomson RC, McCartney-Melstad RC, Shaffer, HP.</u> 2016. Phylogeny and temporal diversification of the New World pond turtles (Emydidae). Molecular Phylogenetics and Evolution. V103.	In 2001, a new arrangement for the genus <i>Clemmys</i> was published by Holman and Fritz (2001), placing it into the genus <i>Actinemys</i> . But in 2002, Feldman and Parham (2002) placed it back to its earliest genus <i>Emys</i> because they did not recognize <i>Actinemys</i> as a monotypic genus. In 2003, the Society for the Study of Amphibians and Reptiles used <i>Actinemys</i> and Pacific pond turtle (Crother et al. 2008). Subsequently in 2016, Spinks et al. demonstrated deep phylogeographic divergence within the genus, corresponding to the previously recognized subspecies, and recommended full species recognition for <i>pallida</i> .
Herps	Western Spadefoot	<i>Scaphiopus hammondii</i>	Western Spadefoot	<i>Spea hammondii</i>	1991	Society for the Study of Amphibians and Reptiles	Wiens JJ, and Titus TA. 1991. A Phylogenetic Analysis of <i>Spea</i> (Anura: Pelobatidae). Herpetologica 47:1	Wiens and Titus (1991) recognized <i>Spea</i> as distinct from <i>Scaphiopus</i> , within which it was previously regarded as a subgenus.
Mammals	San Diego Desert Woodrat	<i>Neotoma lepida intermedia</i>	Bryant's woodrat	<i>Neotoma bryanti intermedia</i>	6/12/2014	Arctos (https://arctos.database.museum/)	Patton JL, Huckaby DG, Álvarez-Castañeda ST. The evolutionary history and a systematic revision of woodrats of the <i>Neotoma lepida</i> group. Univ of California Press; 2007.	Patton et al. 2007 recognized <i>N.bryanti intermedia</i> as distinct from <i>N. lepida intermedia</i> based on examination of > 4600 museum specimens. The range of <i>N. lepida intermedia</i> is now recognized to be east of the Plan Area.

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Taxon	MSHCP Common Name	MSHCP Latin Name	Current Common Name	Current Latin Name	Year Updated	Naming Authority	Citation	Name Change Notes
Plants	California Black Walnut	<i>Juglans californica</i> var. <i>californica</i>	Southern California Black Walnut	<i>Juglans californica</i>	1/1/2012	Jepson Flora Project	Alan T. Whittmore 2012, <i>Juglans californica</i> , in Jepson Flora Project (eds.) Jepson eFlora, https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=29566 , accessed on January 19, 2021.	The Jepson Manual reclassified <i>Juglans californica</i> var. <i>californica</i> to <i>Juglans californica</i> and <i>Juglans californica</i> var. <i>hindsii</i> to <i>Juglans hindsii</i> following a 2007 molecular analysis of the genus <i>Juglans</i> by Aradhya et al.
Plants	Chickweed Oxytheca	<i>Oxytheca caryophylloides</i>	Chickweed Oxytheca	<i>Sidotheca caryophylloides</i>	3/3/2005	Jepson Flora Project	James L. Reveal & Thomas J. Rosatti 2012, <i>Sidotheca caryophylloides</i> , in Jepson Flora Project (eds.) Jepson eFlora, https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=82224 , accessed on January 19, 2021.	Jepson accepted synonym: <i>Eriogonum caryophylloides</i> .
Plants	Cleveland's Bush Monkeyflower	<i>Mimulus clevelandii</i>	Cleveland's Bush Monkeyflower	<i>Diplacus clevelandii</i>	3/1/2017	Jepson Flora Project	Naomi S. Fraga 2018, <i>Diplacus clevelandii</i> , in Jepson Flora Project (eds.) Jepson eFlora, Revision 6, https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=23083 , accessed on January 20, 2021.	In 2012, the genus <i>Mimulus</i> was restructured based on genetic analysis by Barker et al. Most North American species were moved to <u><i>Erythranthe</i></u> . <u>This species is one of those with axile placentation and long pedicels moved from <i>Mimulus</i> to <i>Erythranthe</i>.</u>
Plants	Johnston's Rock Cress	<i>Arabis johnstonii</i>	Johnston's Rock Cress	<i>Boechera johnstonii</i>	1/1/2012	Jepson Flora Project	Michael D. Windham & Ihsan A. Al-Shehbaz 2012, <i>Boechera johnstonii</i> , in Jepson Flora Project (eds.) Jepson eFlora, https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=85470 , accessed on January 07, 2021.	Jepson accepted synonyms: <i>Arabis hirshbergiae</i> , <i>Boechera hirshbergiae</i> .

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Taxon	MSHCP Common Name	MSHCP Latin Name	Current Common Name	Current Latin Name	Year Updated	Naming Authority	Citation	Name Change Notes
Plants	Little Mousetail	<i>Myosurus minimus</i> ssp. <i>apus</i>	Little Mousetail	<i>Myosurus minimus</i>	11/1/2001	Jepson Flora Project	Alan T. Whittemore 2012, <i>Myosurus minimus</i> , in Jepson Flora Project (eds.) Jepson eFlora, https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=34224 , accessed on January 28, 2021.	The Jepson Manual does not recognize <i>Myosurus minimus</i> ssp. <i>apus</i> , which was initially distinguished from <i>M. minimus</i> by having shorter scapes. The California Native Plant Society (CNPS) has retained <i>M. minimus</i> ssp. <i>apus</i> pending further taxonomic review, noting that it is indistinguishable from hybrids of <i>Myosurus minimus</i> x <i>sessilis</i> yet occurs outside the known range of <i>M. sessilis</i> . Due to a lack of morphological differentiation, further genetic research is needed make a final determination.
Plants	Mud Nama	<i>Nama stenocarpum</i>	Mud Nama	<i>Nama stenocarpa</i>	7/29/2013	Jepson Flora Project	Sarah Taylor 2012, <i>Nama stenocarpa</i> , in Jepson Flora Project (eds.) Jepson eFlora, https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=34387 , accessed on January 20, 2021.	Jepson accepted synonym: <i>Nama stenocarpum</i> .
Plants	Palomar Monkeyflower	<i>Mimulus diffusus</i>	Palomar Monkeyflower	<i>Erythranthe diffusa</i>	2/23/2017	Jepson Flora Project	Naomi S. Fraga 2018, <i>Erythranthe diffusa</i> , in Jepson Flora Project (eds.) Jepson eFlora, Revision 6, https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=99116 , accessed on January 07, 2021.	This species has also been lumped with <i>Mimulus palmeri</i> prior to MSHCP inception, which may affect accuracy of historical records. Jepson accepted synonym: <i>Mimulus grantianus</i> .

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Taxon	MSHCP Common Name	MSHCP Latin Name	Current Common Name	Current Latin Name	Year Updated	Naming Authority	Citation	Name Change Notes
Plants	Parish's Meadowfoam	<i>Limnanthes gracilis</i> ssp. <i>parishi</i>	Parish's Meadowfoam	<i>Limnanthes alba</i> ssp. <i>parishii</i>	1/10/2008	Jepson Flora Project	Robert Ornduff & Nancy R. Morin 2012, <i>Limnanthes alba</i> subsp. <i>parishii</i> , in Jepson Flora Project (eds.) <i>Jepson eFlora</i> , https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=86355 , accessed on January 20, 2021.	Jepson accepted synonym: <i>Limnanthes versicolor</i> var. <i>parishii</i> .
Plants	Round-leaved Filaree	<i>Erodium macrophyllum</i>	Round-leaved Filaree	<i>California macrophylla</i>	3/1/2007	Jepson Flora Project	Marisa Alarcón, Carlos Aedo & Carmen Navarro 2012, <i>California macrophylla</i> , in Jepson Flora Project (eds.) <i>Jepson eFlora</i> , https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=80427 , accessed on January 19, 2021.	Jepson accepted synonym: <i>Erodium macrophyllum</i> var. <i>californicum</i> .
Plants	San Miguel Savory	<i>Satureja chandleri</i>	San Miguel Savory	<i>Clinopodium chandleri</i>	4/22/2011	Jepson Flora Project	Margriet Wetherwax & John M. Miller 2012, <i>Clinopodium chandleri</i> , in Jepson Flora Project (eds.) <i>Jepson eFlora</i> , https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=80482 , accessed on January 19, 2021.	Jepson accepted synonym: <i>Calamintha chandleri</i> .

APPENDIX C

Staff Training

2024 Staff Training:

- Vernal Pool Pre-Survey training held on 9 January.
- Botany Lead gave a Rare Plant kickoff presentation and 2024 Target Species Plant Guide presentation on 30 January.
- Botany Lead led Rare Plant field training on 28 February for selected biologists and visited the UCR Herbarium on 1, 5, 13, 28 February for Rare Plant study.
- Selected staff attended U.S. Geological Survey (USGS) California Gnatcatcher (CAGN) training in San Diego on 26 February.
- DSF and QCB/VP survey Leads attended the *Quino Checkerspot Butterfly Workshop* in San Diego on 26-28 February.
- Avian Lead gave the 2024 Grasshopper Sparrow pre-Survey training on 8 March.
- Avian Lead gave the 2024 CAGN nest monitoring pre-survey training on 21 March.
- Field Biologist Nicole Tomes took the Fairy Shrimp Identification class in San Diego on 16-19 April.
- Herp Lead attended The Wildlife Society Arroyo Toad Workshop on 26 April.
- DSF Pre-survey training on 4 June (attended by CDFW staff).
- Herpetological Lead gave the Western Pond Turtle pre-survey training on 15 July.
- GIS Analyst Vanessa Rivera del Rio attended the ESRI Conference on 15-18 July.
- Biologists went to the UCR entomology museum to study insects in preparation for taking the USFWS test on 16 September.
- Biologists attended field insect study day on 30 September.
- Avian Lead attended MSHCP training at the CDFW Ontario office on 2-3 October.
- Herp Lead listened to “Pond Turtle nesting workshop 2024” and “California Red-legged Frog level 1 lecture 2022” presentations by Jeff Alvarez.
- Field Biologist, Lucas Haralson, took and passed the USFWS Quino Checkerspot Butterfly practical exam in Carlsbad on 23 October.
- Staff attended the MEC (Munitions and Explosives of Concern) training at San Jacinto Wildlife Area (SJWA) on 15 November. This training prepares us for the possibility of finding munitions while doing field work at the Potrero Unit of the SJWA.
- BMP staff visited the UC Riverside Herbarium on 16 October and 6 November and the California Botanic Garden on 20 November to study MSHCP-covered plant species, co-occurring species and potential look-a-likes.
- Selected Staff trained for Northern Harrier surveys in November.
- Mammal tracks training at Hurkey Creek conducted by Mammal Lead on 5 December.

- Field biologists have been training for upcoming Avian Surveys at locations including the San Jacinto Wildlife Area (SJWA), Lake Perris, Garner Valley, and the San Jacinto Mountains.

AGENDA ITEM 9

WESTERN RIVERSIDE COUNTY REGIONAL CONSERVATION AUTHORITY

DATE:	April 6, 2026
TO:	Western Riverside County Regional Conservation Authority
FROM:	Harry Sandoval, Regional Conservation Deputy Director
THROUGH:	Aaron Hake, Executive Director
SUBJECT:	I-15 Rainbow Canyon Wildlife Crossing Update

STAFF RECOMMENDATION:

This item is for the Board of Directors to receive an update on the Interstate 15 Rainbow Canyon Wildlife Crossing Planning Project.

BACKGROUND INFORMATION:

The Interstate 15 (I-15) Rainbow Canyon Wildlife Crossing Planning Project is located on I-15 at the Riverside-San Diego County line. The roadway acts as an almost impenetrable barrier to wildlife movement, severing the Santa Ana-Palomar Mountains linkage that is essential for the long-term viability of wide-ranging species, particularly mountain lions. Despite roughly 370,000 acres of largely contiguous habitat in the Santa Ana Mountains, roads and rapid urban growth have fragmented the landscape and isolated wildlife populations from the larger Palomar Mountains and eastern Peninsular Ranges. Recent genetic analysis of mountain lions indicates significant genetic restriction and minimal evidence of movement of individual mountain lions between the Santa Ana Mountains and Peninsular Range to the east. Without restoration of east-west connectivity across I-15, it is believed that the mountain lion population within the Santa Ana Mountains may be extirpated within 50 years and possibly as soon as 12 years if inbreeding depression sets in.

The Project, which is being led by a partnership between the Temecula-Elsinore-Anza-Murrieta Resource Conservation District (TEAM RCD) and The Nature Conservancy (TNC), will develop plans to create a wildlife crossing structure that will link the Santa Ana Mountains, via MSHCP Additional Reserve Lands and the Santa Margarita Ecological Reserve, to the Palomar Mountains and future Additional Reserve Lands to the east.

On February 26, the California Wildlife Conservation Board (WCB) awarded TEAM RCD, in partnership with TNC, a grant of \$3,988,000 to continue work on the proposed wildlife crossing. Supervisor Washington and RCA's Dr. Aaron Gabbe attended virtually and provided public comment in support of the project. The grant award will enable outreach to wildlife, land use and transportation agencies, landowners and managers, Tribes, and conservation organizations in the region; 65% designs for a wildlife crossing structure; development of monitoring and

management plans; and California Environmental Quality Act and National Environmental Policy Act review.

The I-15 Rainbow Canyon Wildlife Crossing is vital to the success of the MSHCP reserve system by aiding connectivity and helping protect a variety of covered species. The proposed wildlife crossing will also benefit motorists on I-15 by reducing the potential for wildlife-vehicle collisions.

RCA staff will continue to support the effort by participating in a committee with TEAM RCD, TNC, and other stakeholders to assist with the I-15 Rainbow Canyon Wildlife Crossing planning process. The RCA and conservation partners have been working on and will continue to acquire and protect habitat on both sides of I-15 to ensure that wildlife, and critically, mountain lions, have a connected network of protected habitats.

FISCAL IMPACT:

This is an informational item. There is no fiscal impact.