WCB
State of California
Wildlife Conservation Board

Wildlife Conservation Board
November 15, 2022, 10:00 am Board Meeting
First Floor Auditorium, CNRA Headquarters Building

Trinity Alps

Item 2. Public Forum

China Hill

Item 3. Funding Status

Wilson Ranch Meadow

3. Funding Status

Slide 1

Allocation	FY 2021/22	FY 2022/23
Water Resilience Package		
Drought Impacts on Fish and Wildlife (Wildlife Corridor & Fish Passage)	$49,500,000	$40,000,000
Program Delivery (Drought Impacts on Fish and Wildlife)	$2,000,000	$1,000,000
Removal of Dams to CA State Parks	$12,500,000	
Protect Fish & Wildlife Resources from changing conditions - Climate Resilience	$31,000,000	$221,000,000
Stream Flow Enhancement		
Water Supply for Environmental Flows (Stream Flow Enhancement Program)	$99,000,000	$149,000,000
Program Delivery (Stream Flow Enhancement Program)	$2,000,000	$1,000,000
Monarch Butterfly and Pollinator Rescue Program		
Monarch Butterfly and Pollinator Rescue Program		$5,000,000

3. Funding Status

Slide 2

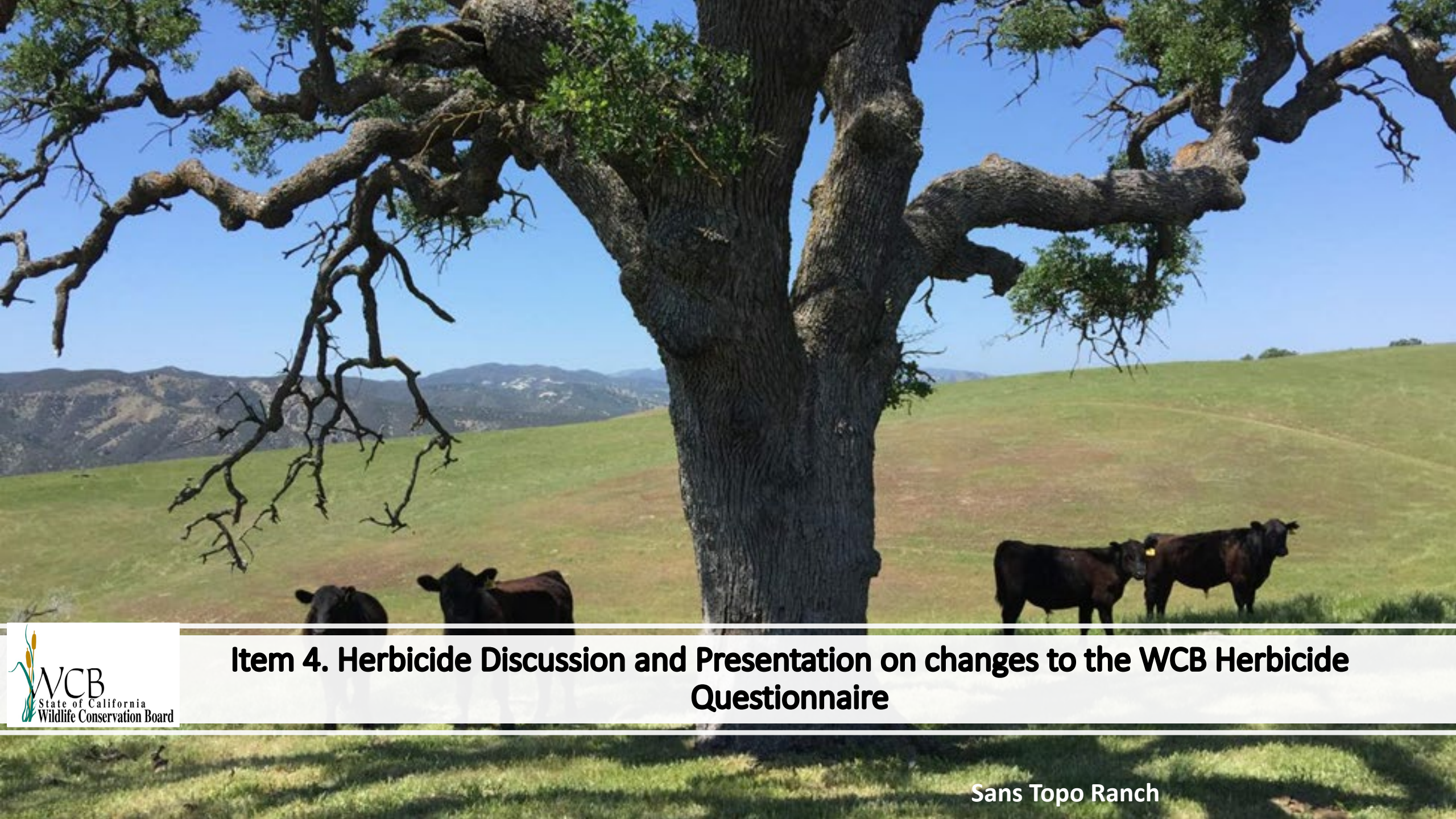
Allocation	FY 2022/23
Nature -Based Solutions Package**	
Nature-Based Solutions programs. (Biodiversity conservation adjacent/directly benefitting climate-vulnerable communities, DAC or California Native American tribes)	$150,000,000
Resource Conservation Investment Strategies	$2,000,000
Cascades and High Sierra Upper Watersheds Program	$12,000,000
Land Acquisition and Habitat Enhancement Program -SoCal	$12,000,000
Program Delivery (NBS Program)	$900,000

**Nature-Based Solutions Allocation Breakdown	
Nature-Based Solutions grant program. Biodiversity conservation adjacent/directly benefitting climate-vulnerable communities, DAC or California Native American tribes	**$150,000,000**
Forest Conservation Program (NBS)	$10,000,000
Oak Woodlands Conservation Program (NBS)	$34,000,000
California Desert Conservation Program (NBS)	$30,000,000
Rangeland, Grazing Land and Grassland Protection Program (NBS)	$25,000,000
California Riparian Habitat Conservation Program (NBS)	$10,000,000
Natural and Working Lands Climate Adaptation and Resiliency Program (NBS)	$35,000,000
Program Delivery (Administrative support cost)	$6,000,000

3. Funding Status

Slide 3

Allocation	FY 2021/22	FY 2022/23
Legislative Priorities		
Lone Pine Ranch Acquisition	$10,000,000	
City of Lake Elsinore for Aquatic Ecosystem	$750,000	
West Coyote Hills Property Due Diligence	$1,000,000	
40-Acre Conservation League for land conservation, habitat restoration		$3,000,000
RCD of Santa Monica Mountains -southern steelhead trout		$15,000,000
San Joaquin Valley Floodplain Restoration - River Partners		$40,000,000
Cascades and High Sierra Upper Watersheds Program	$16,000,000	$67,000,000
Land Acquisition and Habitat Enhancement Program- SoCal		$67,000,000



Item 4. Herbicide Discussion and Presentation on changes to the WCB Herbicide Questionnaire

WCB State of California Wildlife Conservation Board

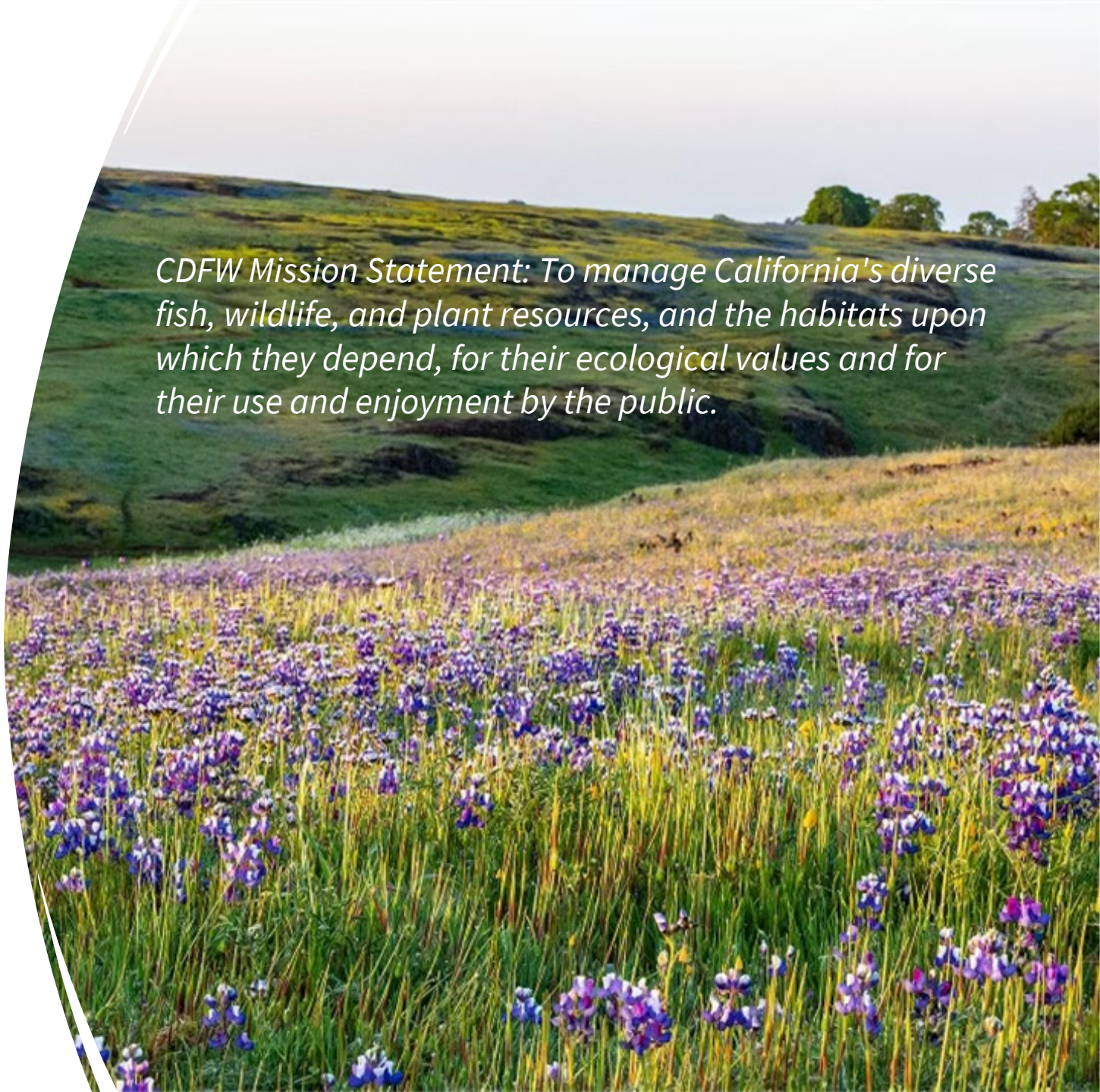
Sans Topo Ranch

HERBICIDE USE ON CDFW LANDS

Krista Hoffmann, Ph.D.
CDFW Lands Program
Integrated Pest Management Coordinator

CDFW'S MISSION

- California is a global biodiversity hotspot and CDFW's mission is to support native species and habitat. Among the greatest threats to biodiversity is **non-native and exotic vegetation**. Herbicides are one of the many tools that the Department employs to target this threat.



Why hasn't CDFW eliminated all herbicide use?

IPM is an ecosystem-based strategy

that uses a combination of proven, effective techniques.

"SOFTEST TOUCH"

Herbicides are one of the most selective tools available and often require minimal to no ground disturbance.

EFFICACY

Any restoration or vegetation management project will require disturbance to habitat. Sustained efficacy and long-term results are important outcomes.

WHICH HERBICIDE PRODUCTS ARE USED BY CDFW?

HERBICIDE RECOMMENDATIONS

CDFW's certified Pest Control Advisor helps land managers determine the most selective and effective approach for controlling specific infestations.

"RELEASE" NATIVE SPECIES

Treatments are strategically planned to promote the regrowth and reestablishment of native species.

FORMULATIONS ARE SELECTED BASED ON:

(1) the species and stage of the target vegetation,
(2) the environment in which it occurs, including presence of native or listed species, and,
(3) desired outcomes.

WHAT KIND OF LAWS, REGULATIONS, AND GUIDELINES ARE FOLLOWED TO MINIMIZE THE POTENTIAL FOR ENVIRONMENTAL HARM FROM HERBICIDE USE?

U.S. EPA

regulates all aspects of pesticide registration, sale, and use at the federal level through the laws in the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the regulations in the Code of Federal Regulations, Title 40 (40 CFR)

THE CALIFORNIA DEPARTMENT OF PESTICIDE REGULATION (DPR)

is responsible for statewide regulation of pesticide in California and is the primary regulatory body for pesticide regulation under Title 3 of the California Code of Regulations (CCR).

WHAT ARE THE RISKS ASSOCIATED WITH HERBICIDE USE AND HOW ARE THESE MITIGATED BY THE CDFW?

HAZARD VS. RISK

Hazard is any action or tool that has the potential to cause harm, whereas risk is the likelihood of the harm occurring.

RISK IS ASSOCIATED WITH THE MISUSE OF TOOLS

CDFW carefully follows State and Federal regulations, as well as CDFW-specific BMPs to protect applicators and the environment.

HABITAT BMPS

Examples of BPMs include:

1. targeting a plant before it blooms to avoid exposure to pollinators;
2. using the safest formulation of a product;
3. using a backpack sprayer with a colorant to ensure sprays are targeted to the plant being removed and don't overspray onto other desirable habitat, etc.

DO I NEED TO BE WORRIED ABOUT HERBICIDES BEING APPLIED IN OR AROUND A CDFW-OWNED PROPERTY I FREQUENT?

SIGNAL WORD

Most products CDFW applies are in the lowest category of human risk, with a signal word “caution.”

PUBLIC NOTICE

On CDFW properties accessible by the public, staff will close treated areas or post signs until an appropriate safety interval has passed.

HERBICIDES ARE INHERENTLY SAFE FOR NON-PLANT TAXA

Most herbicides work by targeting proteins and enzymes that are specific to plants and do not exist in mammals; therefore, herbicides have minimal to no effects on humans.

GLYPHOSATE PRODUCTS

MIS/OVERUSE

Over 90% of glyphosate use is in Agriculture. Roundup ready crops and glyphosate resistance result unnecessarily high residual levels in the environment (and food).

CARCINOGENICITY

Daily exposure to high levels of certain glyphosate products has been linked to negative health outcomes (e.g., non-Hodgkin lymphoma).

FORMULATIONS

Many harmful effects have been linked to “inert” ingredients, such as surfactants, in formulations rather than the active ingredient (glyphosate) itself. **Aquatic formulations do not contain these surfactants and are therefore safer for humans and the environment.**

Aquatic Toxicity

Active Ingredient	Toxicity Category		NPDES Maximum Limitation
	Fish* (ppm)	Inverts* (ppm)	
Imazamox (Clearcast)	>100	>100	none
Triclopyr triethylamine (Garlon, Vastlan)	>100	>100	13.0 ppm[a]
Imazapyr (Habitat, Polaris)	>100	>100	11.2 ppm[a]
Fluridone (Sonar)	>1 - 10	>1 - 10	0.56 ppm
Flumioxazin (Clipper, Propeller)	>1 - 10	>1 - 10	none
Carfentrazone (Stingray)	>1 - 10		none
Glyphosate (Roundup Custom, Rodeo)	>1 - 10	0.1 - 1	0.70 ppm
Endothall (Aquathol K)	0.1 - 1	0.1 - 1	0.10 ppm
Diquat (Reward)	>1 - 10	<0.1	0.02 ppm
2,4-D	<0.1	<0.1	0.07 ppm
Acrolein (Magnacide)	<0.1	<0.1	0.021 ppm
Copper (Harpoon)	<0.1	<0.1	0.015 - 0.020 ppm
Nonylphenol (R-11, Activator 90)	<0.1	<0.1	0.0066 ppm

SUMMARY

- Risk is associated with the misuse of any tool
- Selective and judicious applications of herbicides can be the “softest touch” in a restoration setting
- Efficiency, efficacy, and long-term results are key to minimizing habitat impacts and maximizing the benefits

THANK YOU

- Krista Hoffmann
- 916-996-8019
- Krista.hoffmann@wildlife.ca.gov
- wildlife.ca.gov/Lands

Herbicide Questionnaire Feedback

- Input accepted for 3 ½ weeks
- 25 commenters
  - *21 supportive of some herbicide use (16 with specific edits/suggestions)*
  - *4 unsupportive of herbicide use (2 focused on glyphosate, 1 with specific edits)*

- Many comments recommended a more general, simplified approach – combining questions and adjusting their order
- Many comments focused on an Integrated Pest Management (IPM) approach to describe and justify all control methods, chemical and non-chemical

Commenters

- Kirk Lennington, Midpeninsula Open Space District
- Erin Woolley, Sierra Club
- Megan Cleveland, TNC
- Julian Meisler, Sonoma Land Trust
- Krista Hoffman, CDFW
- Matt Frietas, American Rivers
- Kim Konte, Non-Toxic Neighborhoods
- Frank Franz, Non-Toxic Neighborhoods
- Gianna Setoudeh, South Yuba River Citizens League
- Megan Kaun, Sonoma Safe Ag Safe Schools
- Matt Gause, Westervelt
- Andrea Williams, CNPS
- Doug Johnson, Cal-IPC
- Katherine Holmes, Solano RCD
- Emily Zefferman, RCD of Monterey Co
- Kathleen Ave
- Kathryn Phillips
- Jon Kaufman, President, Claremont Canyon Conservancy
- Andrew Werner
- Craig Dremann
- Chris Carlson, Sonoma Land Trust
- Keshav
- Betsy Stapleton, Scott River Watershed Council
- David Webb

Updates to Herbicide Questionnaire:

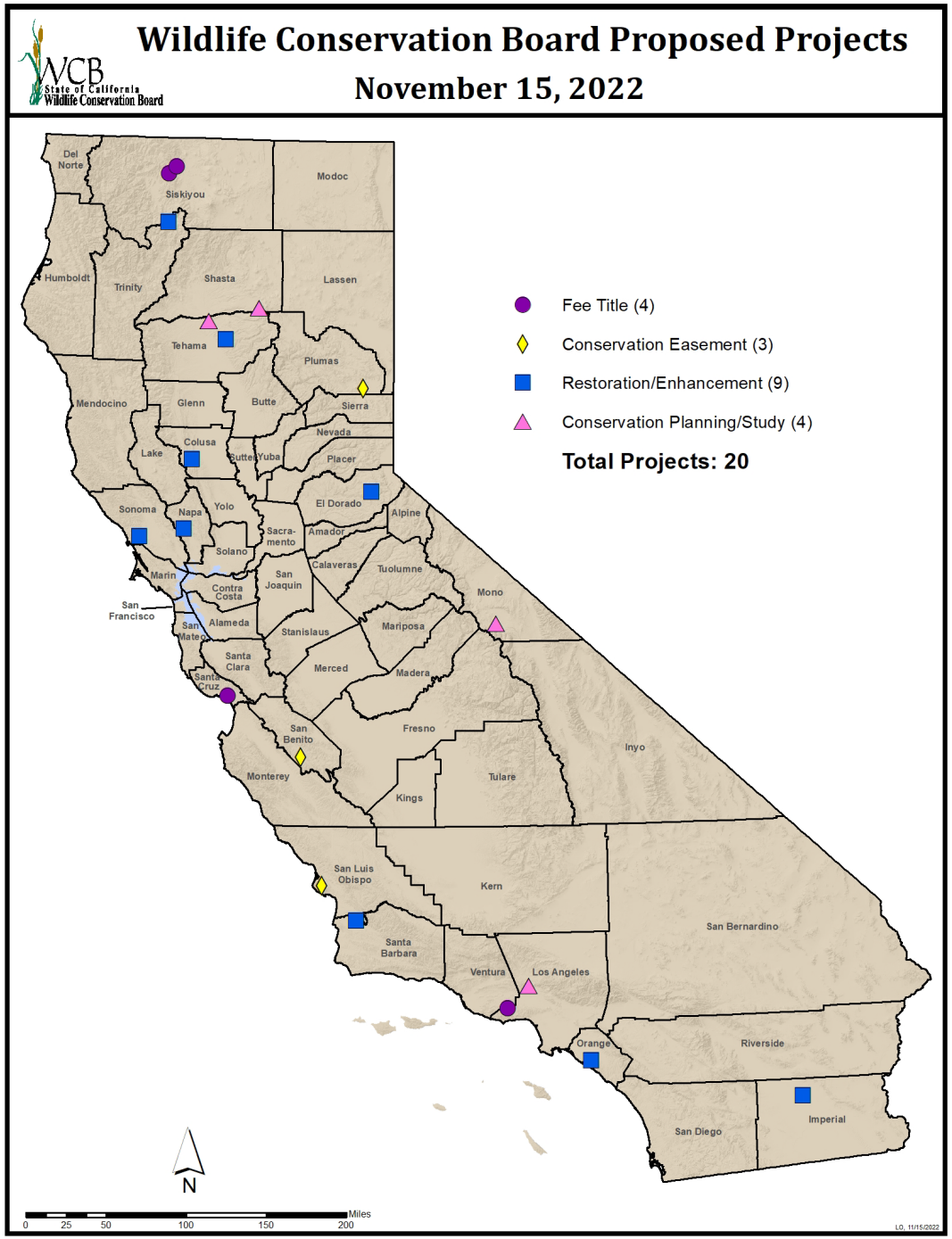
- Add preamble regarding overall intent
- Minor technical and grammatical edits
- Change question order to be more logical and sequential
- Describe and justify all proposed control methods, not just herbicides
- Describe potential impacts from all control methods (not just herbicides), and ways to minimize/reduce impacts
- Remove glyphosate-specific questions
- Add question on qualifications and sources

- *Prepare guidance for staff based on updated questionnaire*

Item 5. WCB Appraisal Policy Amendment - Withdrawn

WCB State of California Wildlife Conservation Board

Soap Creek Ridge



Wildlife Conservation Board Meeting November 15, 2022 Project Map

WCB
State of California
Wildlife Conservation Board

Consent Items 6-16

Pereira Ranch

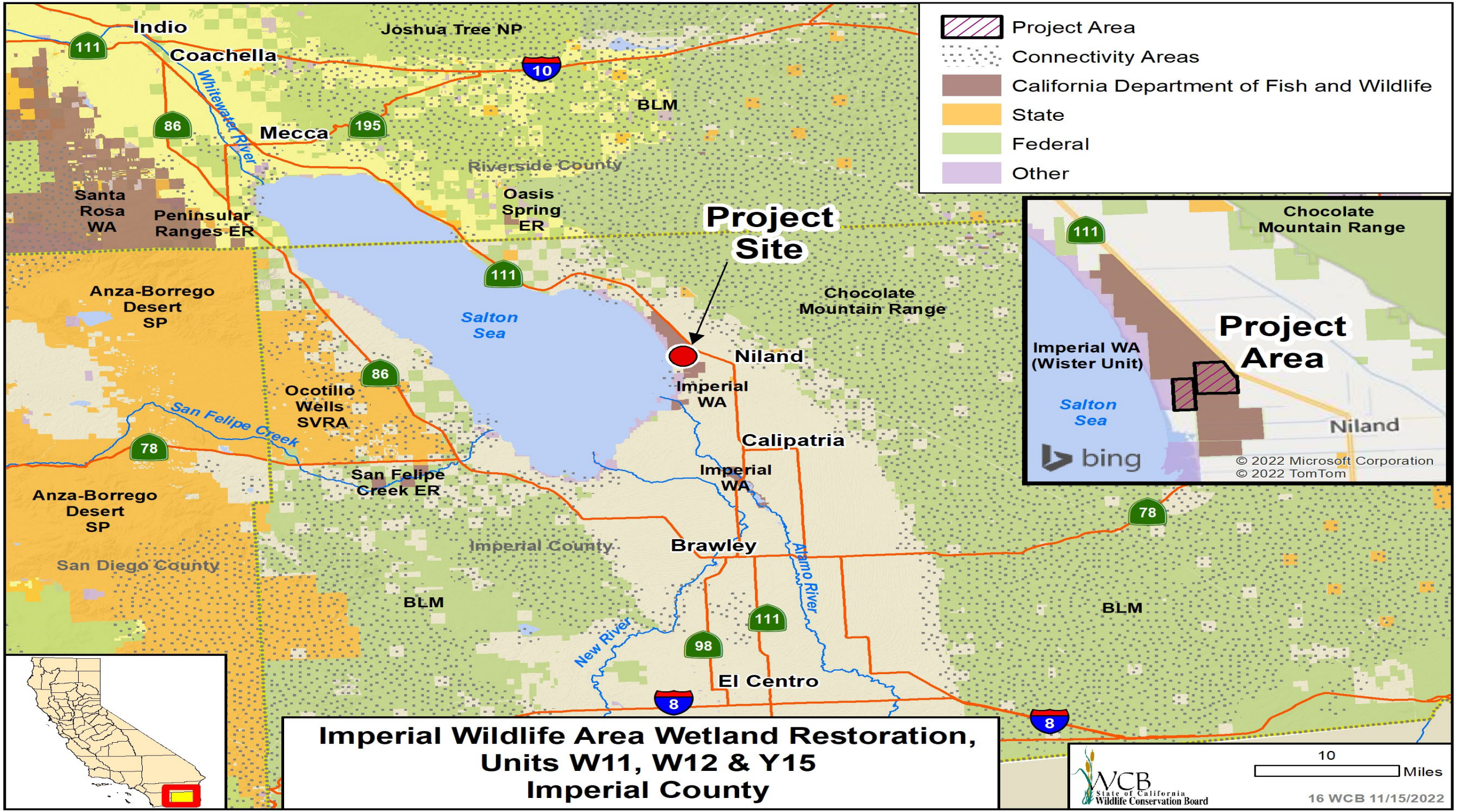
Item 6. Recovery of Funds

Fund Name	Amount
General Fund	$24,889.70
Safe Neighborhood Parks, Clean Water, Clean Air, and Coastal Protection Bond Fund	$0.00
Habitat Conservation Fund	$185,253.05
Greenhouse Gas Reduction Fund	$0.01
California Clean Water, Clean Air, Safe Neighborhood Parks, and Coastal Protection Fund	$7,633.20
Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Fund of 2006	$107,286.65
Water Quality, Supply, and Infrastructure Improvement Fund of 2014	$398,741.58
The California Drought, Water, Parks, Climate, Coastal Protection, and Outdoor Access For All Act of 2018	$7,202.00
Total Recoveries for All Funds	***$731,006.19***

WCB State of California Wildlife Conservation Board

Consent Items 6-16 Motion, excluding items 9 and 11

San Joaquin Marsh


Project Area
Connectivity Areas
California Department of Fish and Wildlife
State
Federal
Other
Project Site
Project Area
Imperial WA (Wister Unit)
Chocolate Mountain Range
Niland
Salton Sea
bing
© 2022 Microsoft Corporation
© 2022 TomTom
Indio
Coachella
Joshua Tree NP
Whitewater River
Mecca
BLM
Riverside County
Oasis Spring ER
Santa Rosa WA
Peninsular Ranges ER
Anza-Borrego Desert SP
Salton Sea
Ocotillo Wells SVRA
San Felipe Creek
San Felipe Creek ER
Imperial WA
Calipatria
Brawley
Imperial County
San Diego County
New River
Alamo River
El Centro
10
86
195
111
78
98
8
Imperial Wildlife Area Wetland Restoration,
Units W11, W12 & Y15
Imperial County
WCB State of California Wildlife Conservation Board
10 Miles
16 WCB 11/15/2022

16. Imperial Wildlife Area Wetland Restoration, Units W11, W12, & Y15

Slide 1

Flooded Wetland Unit

16. Imperial Wildlife Area Wetland Restoration, Units W11, W12, & Y15

Slide 2

- Left: Water delivery ditch, choked with vegetation
- Right: Water delivery ditch to be replaced with pipe

16. Imperial Wildlife Area Wetland Restoration, Units W11, W12, & Y15

Slide 3

Invasive salt cedar removal

16. Imperial Wildlife Area Wetland Restoration, Units W11, W12, & Y15

Slide 4

Left: Pipeline Valve with rock to prevent erosion

Right: Pipeline Installation

16. Imperial Wildlife Area Wetland Restoration, Units W11, W12, & Y15

Slide 5

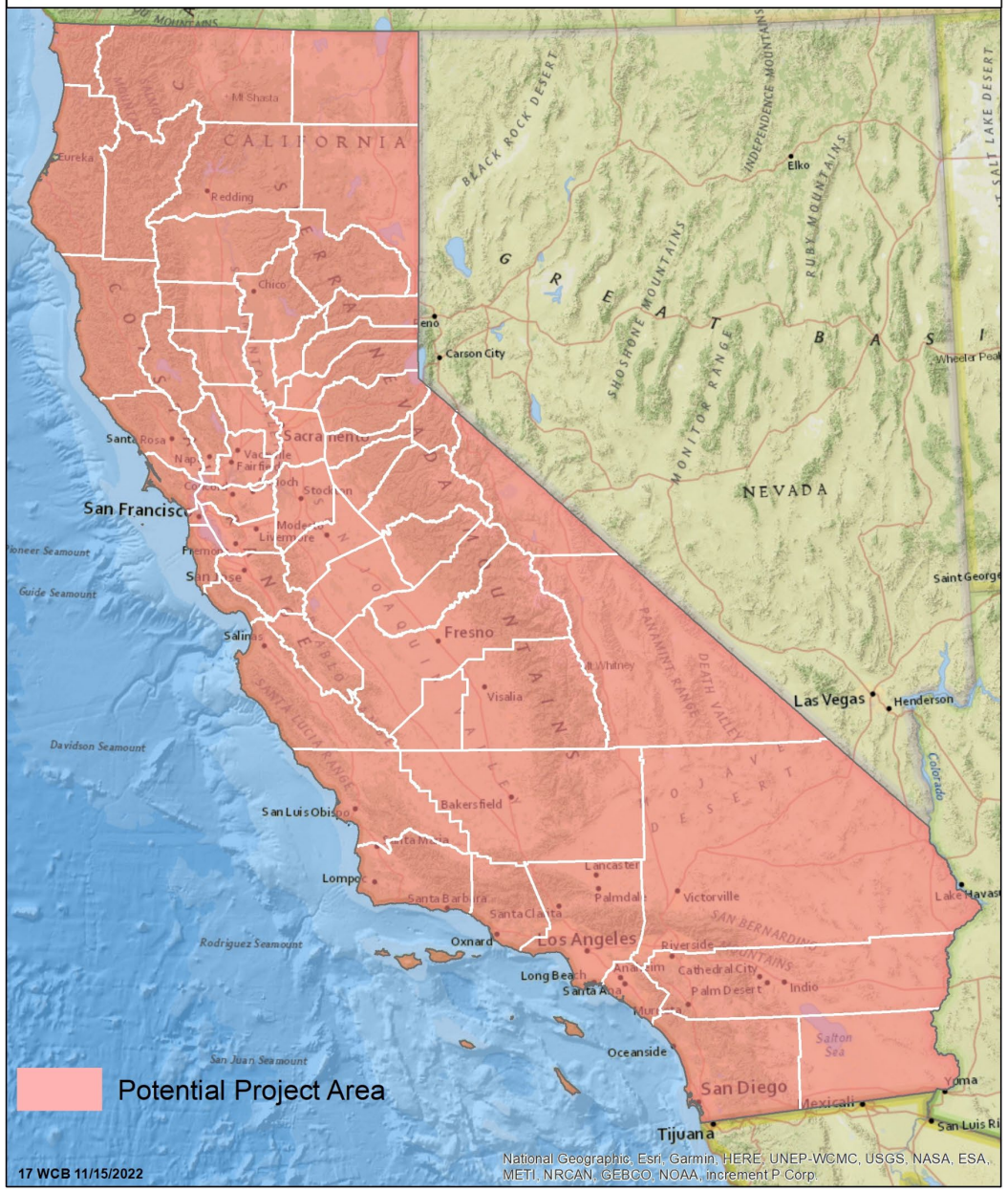
Desired condition with watergrass growing within wetland unit.

Proposed Calendar Items 15-25

WCB State of California Wildlife Conservation Board

Imperial Wildlife Area

Climate Resilience Through Habitat Restoration Statewide



17. Climate Resilience Through Habitat Restoration
Slide 2

Block Grant – Context

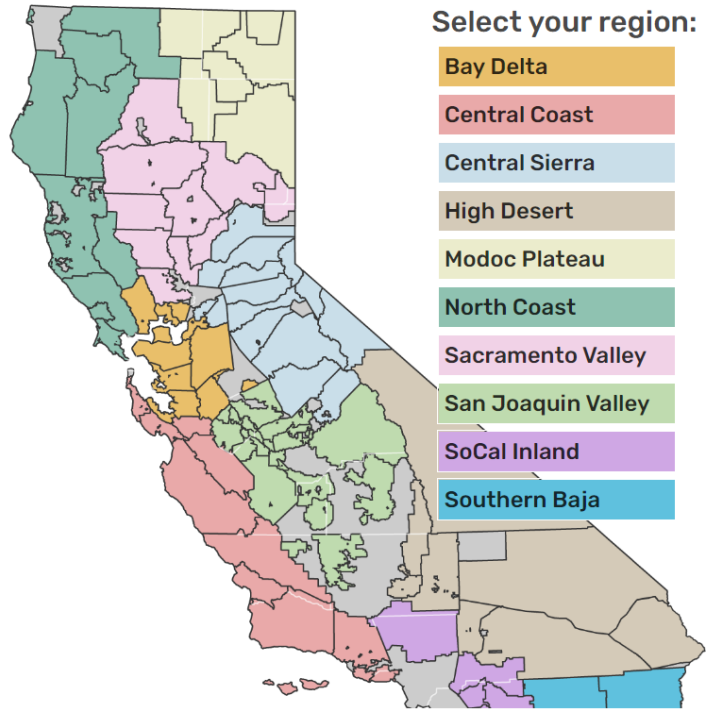
Leveraging resources to expand capacity to realize the state's natural lands conservation goals.

CARCD

- Networking and coordination of RCDs
- Successful management of previous block grants funded by WCB
- JEDI Program Manager

RCDs

- Existing, longstanding statewide network
- Directly serving communities over multiple generations
- Longstanding and diverse partnerships
- Excellent position to increase pace and scale of conservation

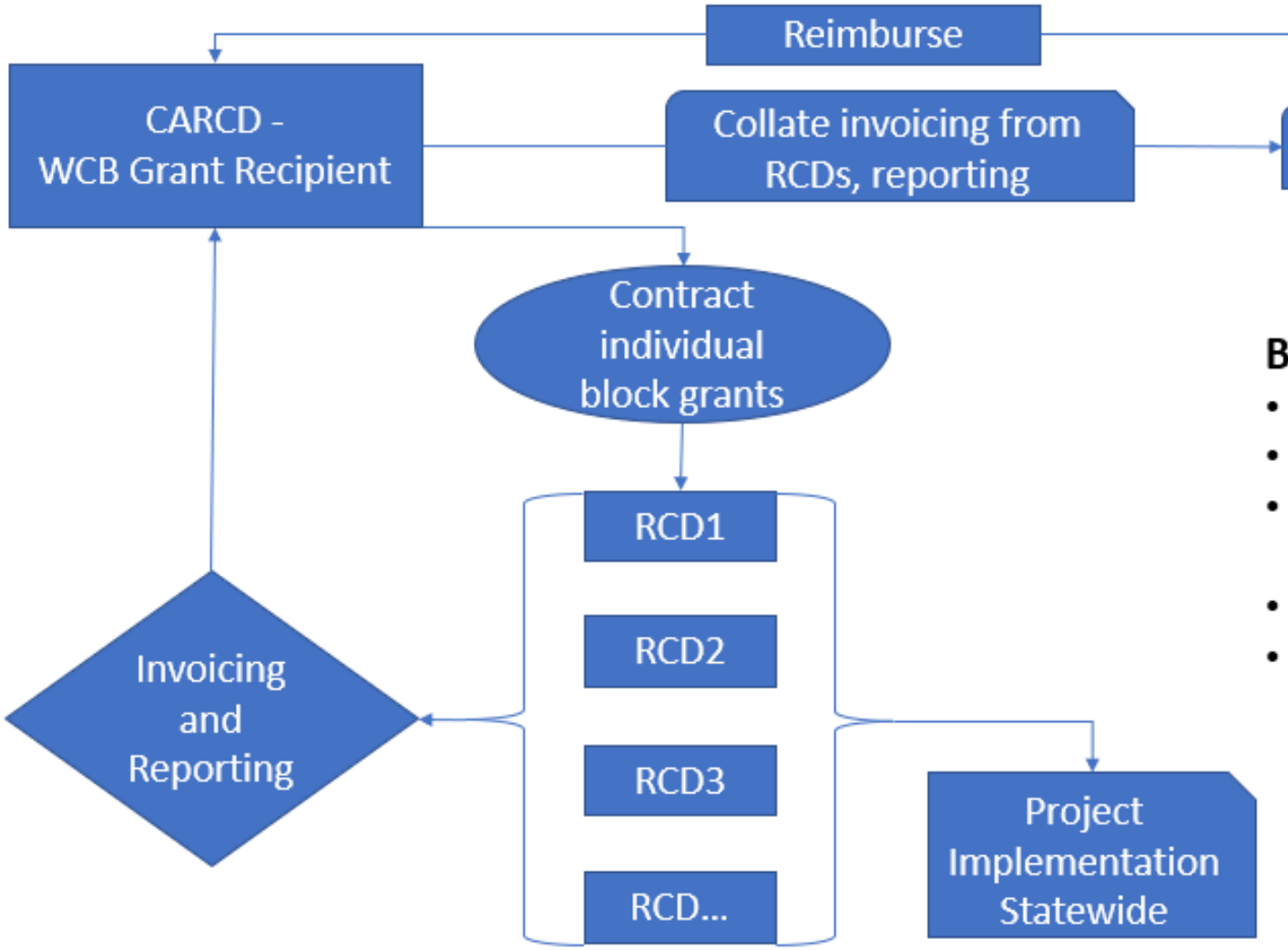


CALIFORNIA ASSOCIATION OF RESOURCE CONSERVATION DISTRICTS

Images courtesy of California Association of Resource Conservation Districts

17. Climate Resilience Through Habitat Restoration, Slide 3

Block Grant - Workflow



Benefits:

- Proven success.
- Leverages existing RCD network.
- Complementary partnerships, access to complementary resources.
- Preliminary work already in place.
- Reduces administrative burden of WCB.

17. Climate Resilience Through Habitat Restoration

Slide 4

Conservation Goals:

Monarch/Pollinator habitat:

- 30 monarch/pollinator habitat restoration projects on working lands;
- 25 monarch/pollinator habitat restoration projects on public lands;
- Improve at least 5 monarch/pollinator overwintering sites on public lands or private property;

Habitat restoration:

- 19 wildlife habitat restoration projects on public and private (wetlands, oak woodlands, riparian corridors, foothill grasslands, flood plains, desert, and forest);

Working lands:

- Implement carbon farm plans on at least 40 sites.
- Develop additional carbon farm plans and implement additional projects as opportunities arise.

Common Name	Scientific Name	Flag color	Zones				Total by species
			Zone 1	Zone 2	Zone 3	Zone 4	
sq ft			18,500	7,991	3,403	5,870	
Percentage area	35764		52%	22%	10%	16%	
Calif. Buckeye	*Aesculus californica*	red	5	5			10
Big Leaf Maple	*Fraxinus latifolia*	Green	5	5			10
Coast Live Oak	*Quercus agrifolia*	light blue		5			5
Valley Oak	*Quercus lobata*	orange		3			3
CA Wild Rose	*Rosa californica*	pink		9			9
Red and Arroyo Willow	*Salix laevigata, Salix lasiolepis*				15		15
Juncus spp	*Juncus*		25	25		5	55
Sedges	*carex, spp.*		20	20		3	43
Sword ferns	*Polystichum munitum*	silver	7	5		12	24
Snowberry	*Symphoricarpos*	White	15	5	5	7	32
elk clover	*Aralia californica*	Brown	5	9			14
Ninebark	*Physocarpus capitatus*	Purple	9	5		3	17
White Alder	*Alnus rhombifolia*	yellow	9				9
TOTAL BY ZONE			100	96	20	30	246

17. Climate Resilience Through Habitat Restoration

Slide 5

Example candidate riparian area for revegetation, adjacent to cultivated vineyard.

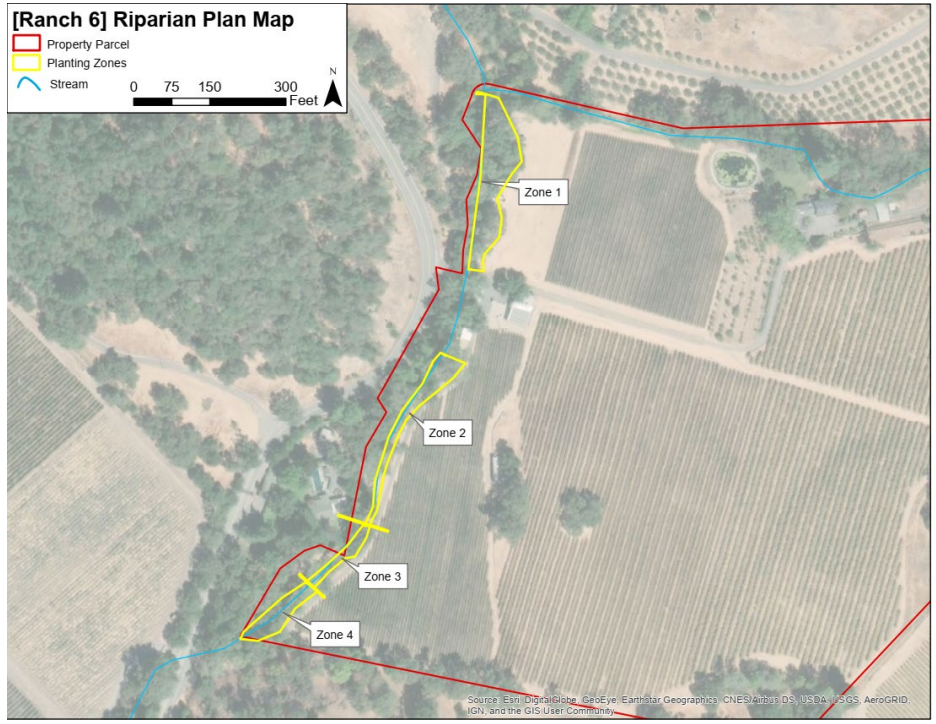
Images courtesy of California Association of Resource Conservation Districts

17. Climate Resilience Through Habitat Restoration

Slide 6

Left: Example riparian plan map

Right: Example soil map to determine available water capacity.



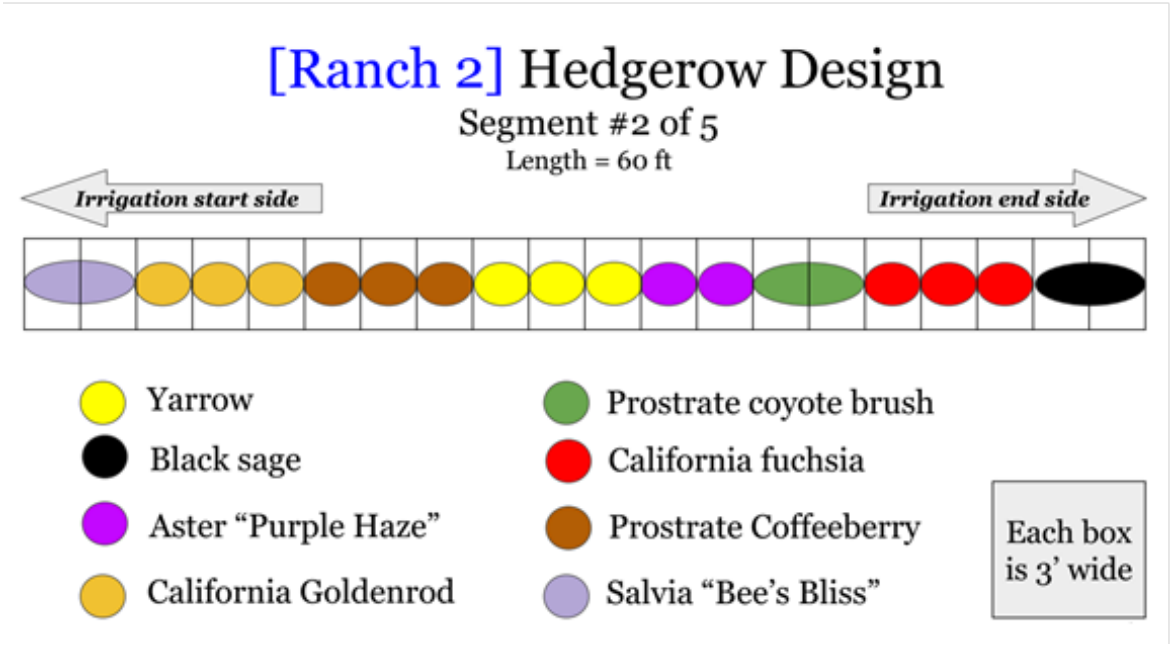
Images courtesy of California Association of Resource Conservation Districts

17. Climate Resilience Through Habitat Restoration

Slide 7

Left: Example hedgerow design

Right: Hedgerow planting



Images courtesy of California Association of Resource Conservation Districts and Audubon California

17. Climate Resilience Through Habitat Restoration

Slide 8

Images courtesy of California Association of Resource Conservation Districts

RCDs: Boots on the ground to meet California's 30 x 30 Goals

- **Deep connections and existing relationships with stakeholders**
  - RCDs serve farmers, ranchers, and other community stakeholders like schools, parks, local non-profits, community gardens, and more

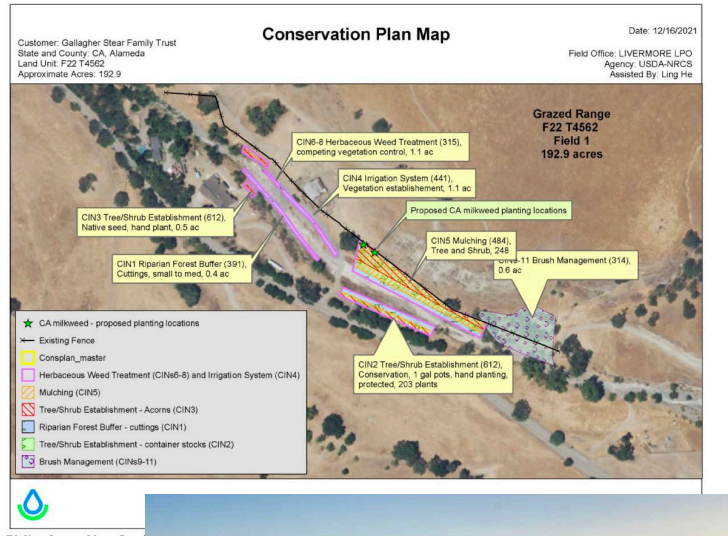
- **Local knowledge, conservation project expertise, key partnerships with agencies and NGOs, community connection, and passion for conservation**

- **On-the-ground partners, working with stakeholders to get conservation work done**

CALIFORNIA ASSOCIATION OF RESOURCE CONSERVATION DISTRICTS

RCD Work

- Technical Assistance and Planning
- Project Implementation on the ground
- Monitoring, Maintenance, Reporting
- Outreach & Education



CALIFORNIA ASSOCIATION OF RESOURCE CONSERVATION DISTRICTS

WCB/CARCD block grant accomplishments… so far

- **"Recovering and Sustaining Monarch and Pollinator Populations" (Completed March 2022):**
  - Grant enabled 11 RCDs to implement 13 projects which added crucial western monarch breeding, nectar, and overwintering sites
  - RCDs increased community awareness resulting in community involvement in protecting and restoring/creating habitat for monarchs in California.
  - **62 acres of breeding habitat, 58 acres of nectar habitat, and 17 acres of overwintering habitat, 62 acres under improved management**
  - Key Partner – Xerces Society

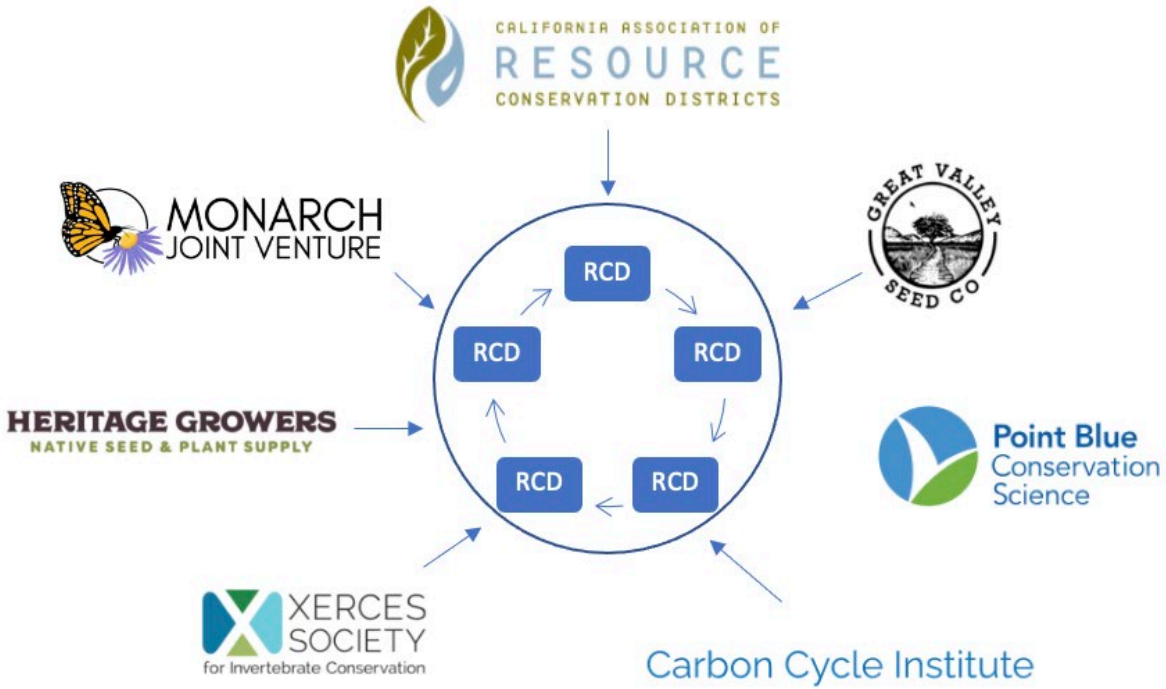
- **"Enhancing Wildlife Habitat & Carbon Sequestration on Working Lands" (Closing Dec. 2022):**
  - Grant enabling 10 RCDs to implement multiple CFP and habitat restoration projects
  - Surpassed target of **44 carbon farm plans – will yield 60+**
  - At least **5 streamflow enhancement plans & 5 LandSmart water plans**
  - Outreach: 100+ Site visits; workshops; demonstration days
  - Key partner – Carbon Cycle Institute

SUCCESS AND EXPERIENCE TO BUILD ON!

CALIFORNIA ASSOCIATION OF RESOURCE CONSERVATION DISTRICTS

Proposed block grant – Amplifying impact of RCDs & partnerships

- Leverage existing relationships and partners
- Collaboration among RCDs
- All RCDs benefit from expertise of partners
- Collaboration among partners
- Resource sharing
- Reduced administrative burden frees up RCD resources for project activities



CALIFORNIA ASSOCIATION OF
RESOURCE
CONSERVATION DISTRICTS

CARCD Block Grant Experience and Capacity

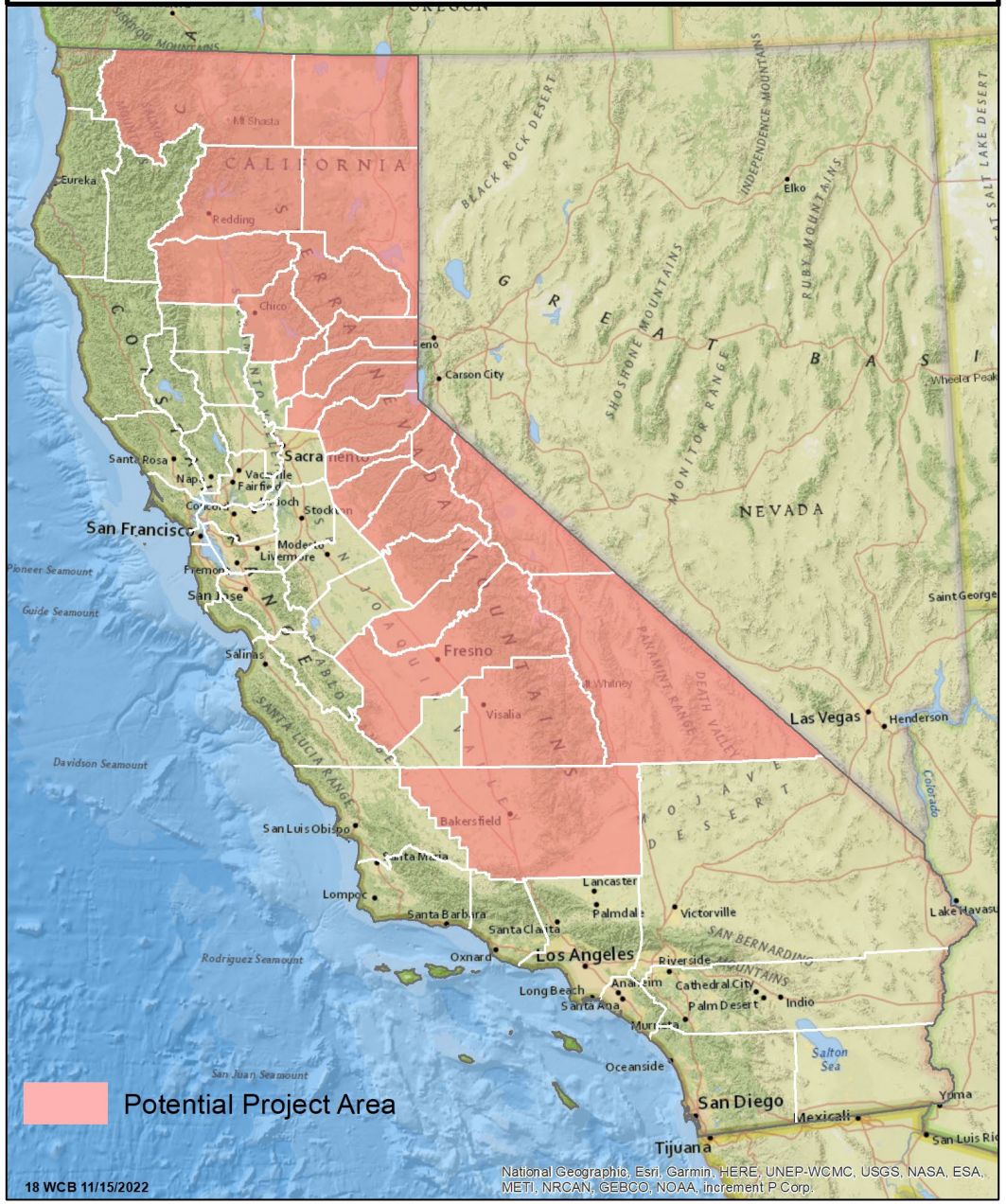
- **CARCD has managed block grants from the following funders:**
  - Wildlife Conservation Board
  - Bechtel Foundation
  - US Forest Service – International Programs
  - National Fish and Wildlife Foundation
  - Monarch Joint Venture
  - Resource Legacy Fund
  - CAL Fire
  - California Department of Food and Agriculture
  - US Forest Service
  - NRCS

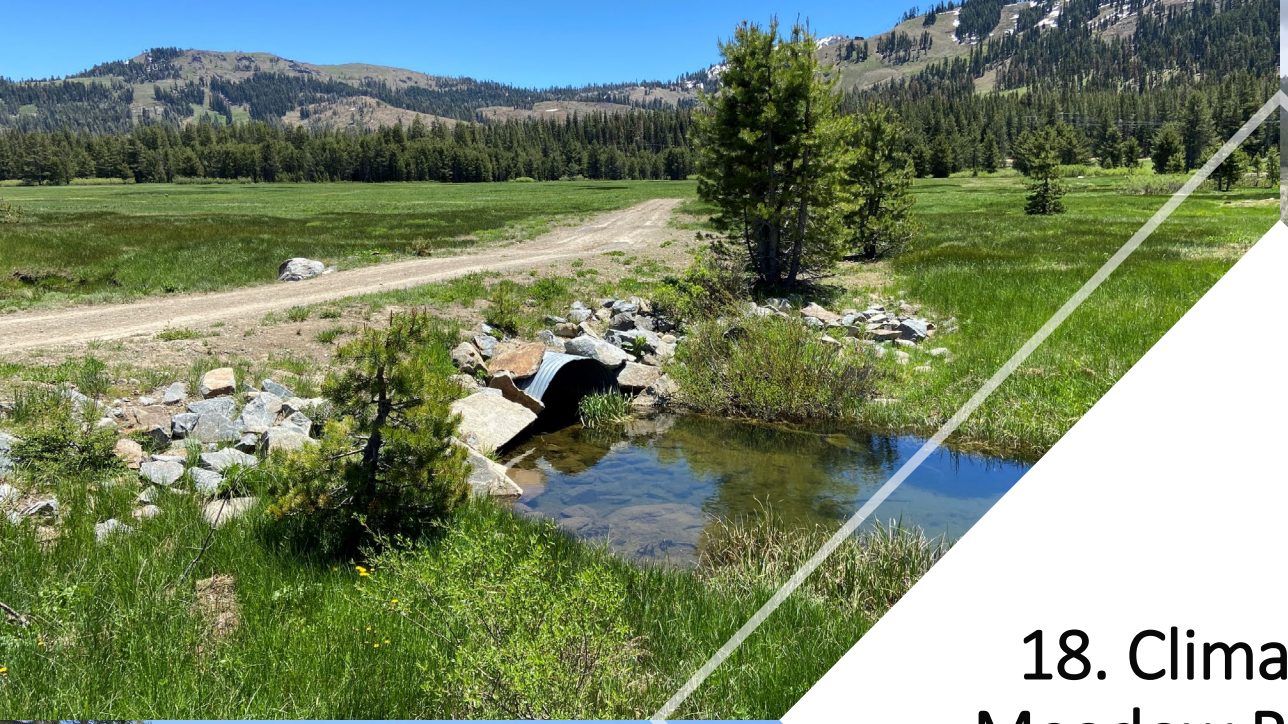
- **CARCD is being approached by agencies to collaborate on block grants**

- **Building capacity by adding staff, streamlined systems**

CALIFORNIA ASSOCIATION OF RESOURCE CONSERVATION DISTRICTS

Climate Smart Meadow Restoration
Various Counties





18. Climate Smart Meadow Restoration

Slide 1

Degraded meadows

(Bottom left image credit: South Yuba River Citizens League)

18. Climate Smart Meadow Restoration

Slide 2

Restoration examples

18. Climate Smart Meadow Restoration

Slide 3

Students and Teachers Restoring A Watershed (STRAW)

(Image credit: Point Blue)

SIERRA MEADOWS PARTNERSHIP

Increasing the Pace, Scale, and Efficacy of Sierra Meadow Restoration: WCB Block Grant

18. Climate Smart Meadow Restoration

Slide 4

Point Blue Conservation Science

Why Are Healthy Meadows So Important?

Water

- improve water quality
- reduce downstream flooding
- natural reservoirs
- headwaters of most of our water

Carbon Sinks

Biological Diversity Hotspots

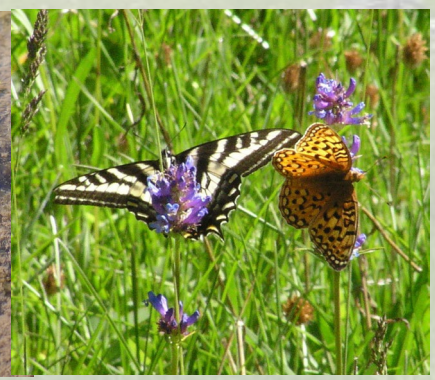
Climate Refugia

Point Blue
Conservation science
for a healthy planet.

Biological Diversity

- Birds, fish, amphibians, pollinators, deer fawning
- Special status species
- Keystone habitat for Sierra birds



Point Blue
Conservation science
for a healthy planet.

>50% (>100,000 ac.) of Meadow are Degraded

18. Climate Smart Meadow Restoration

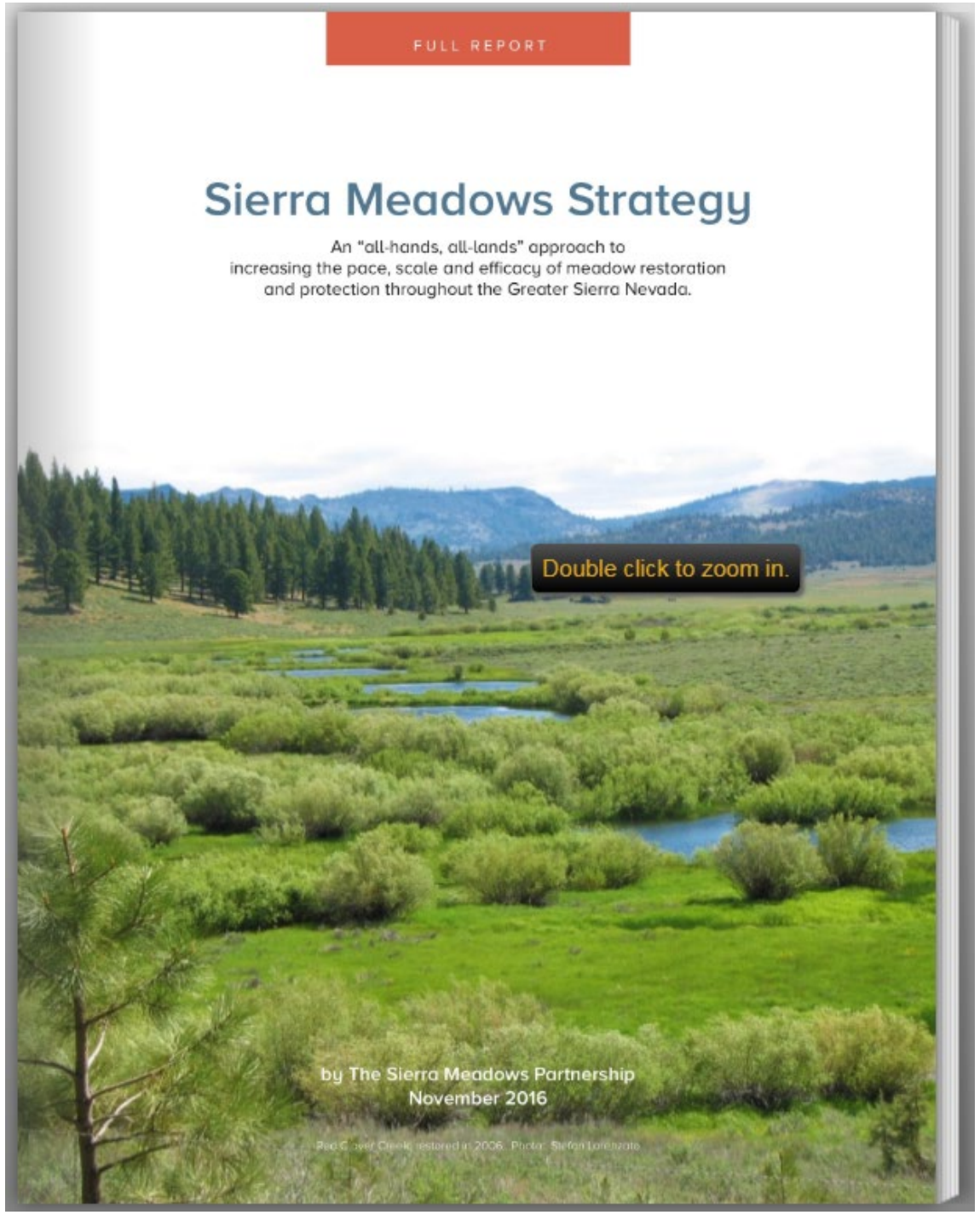
Sierra Meadows Partnership

Restore & protect 30,000 acres by 2030 that enhance water, carbon, and biodiversity benefits

18. Climate Smart Meadow Restoration

Broad Coalition of NGO's, Government (federal, state, local), Universities, Private corporations

18. Climate Smart Meadow Restoration



18. Climate Smart Meadow Restoration

Progress Towards 30,000-acre goal

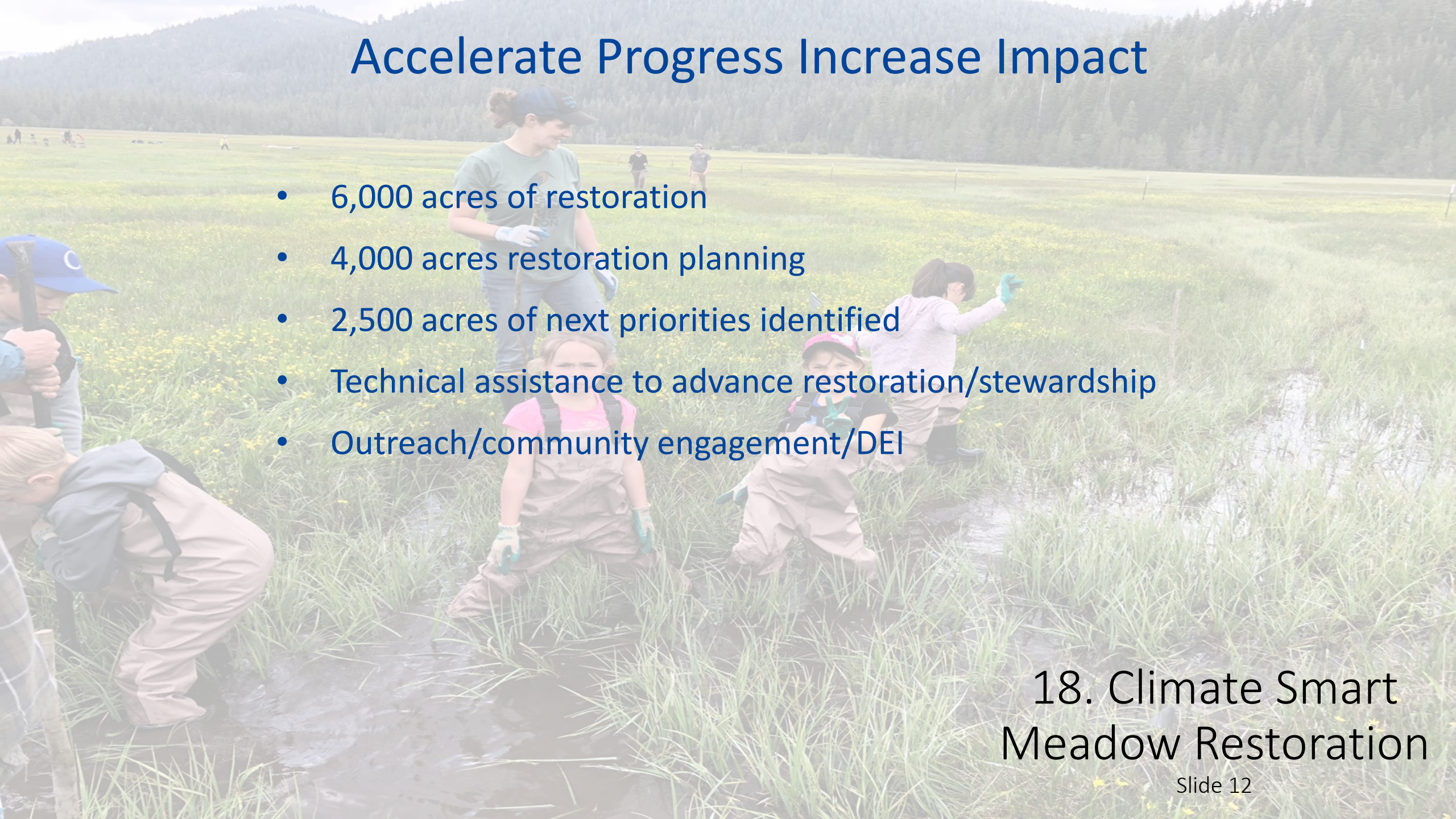
Restoration

- Over 3000 acres restored
- 5400 acres in implementation phase
- 2900 acres in planning phase

Land Protection

- 4,961 acres

Accelerate Progress Increase Impact



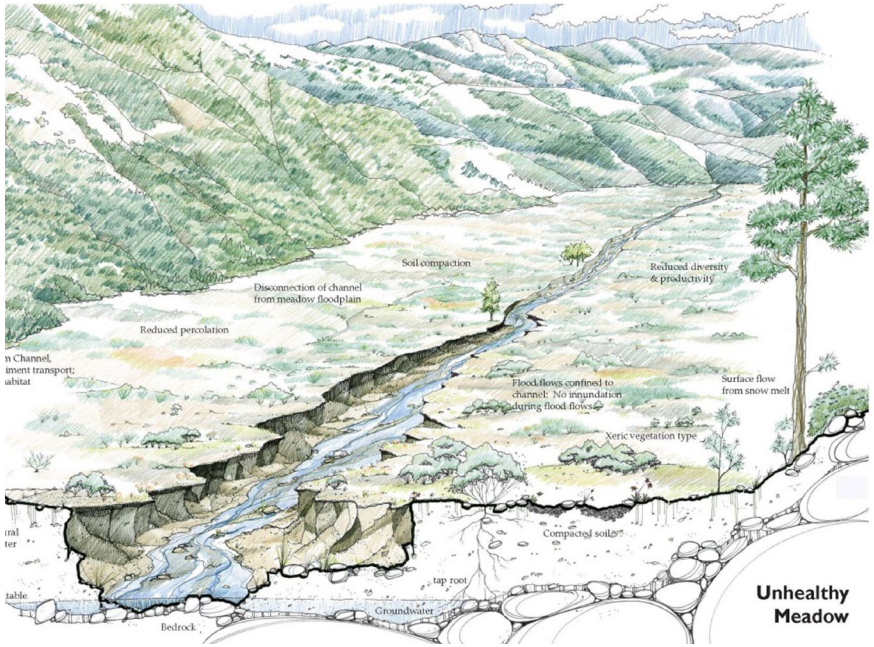
- 6,000 acres of restoration
- 4,000 acres restoration planning
- 2,500 acres of next priorities identified
- Technical assistance to advance restoration/stewardship
- Outreach/community engagement/DEI

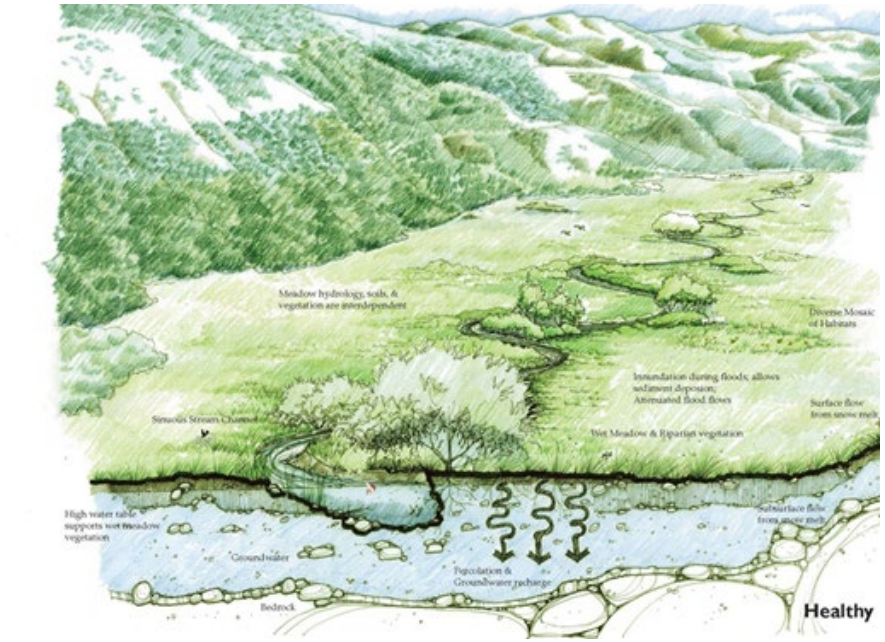
18. Climate Smart Meadow Restoration

Partnership Driven Project Selection

- SMP Management Board develops criteria and evaluates projects
- Public Solicitation Notice
- Develop a rubric to score projects based on:
  - Impact- multiple benefits
  - Durability
  - Sierra- WRAMP monitoring plan
  - DEIJ
  - Community engagement/support
  - Strengthen and grow SMP
- Collective expertise of SMP should result in greatest impact

18. Climate Smart Meadow Restoration





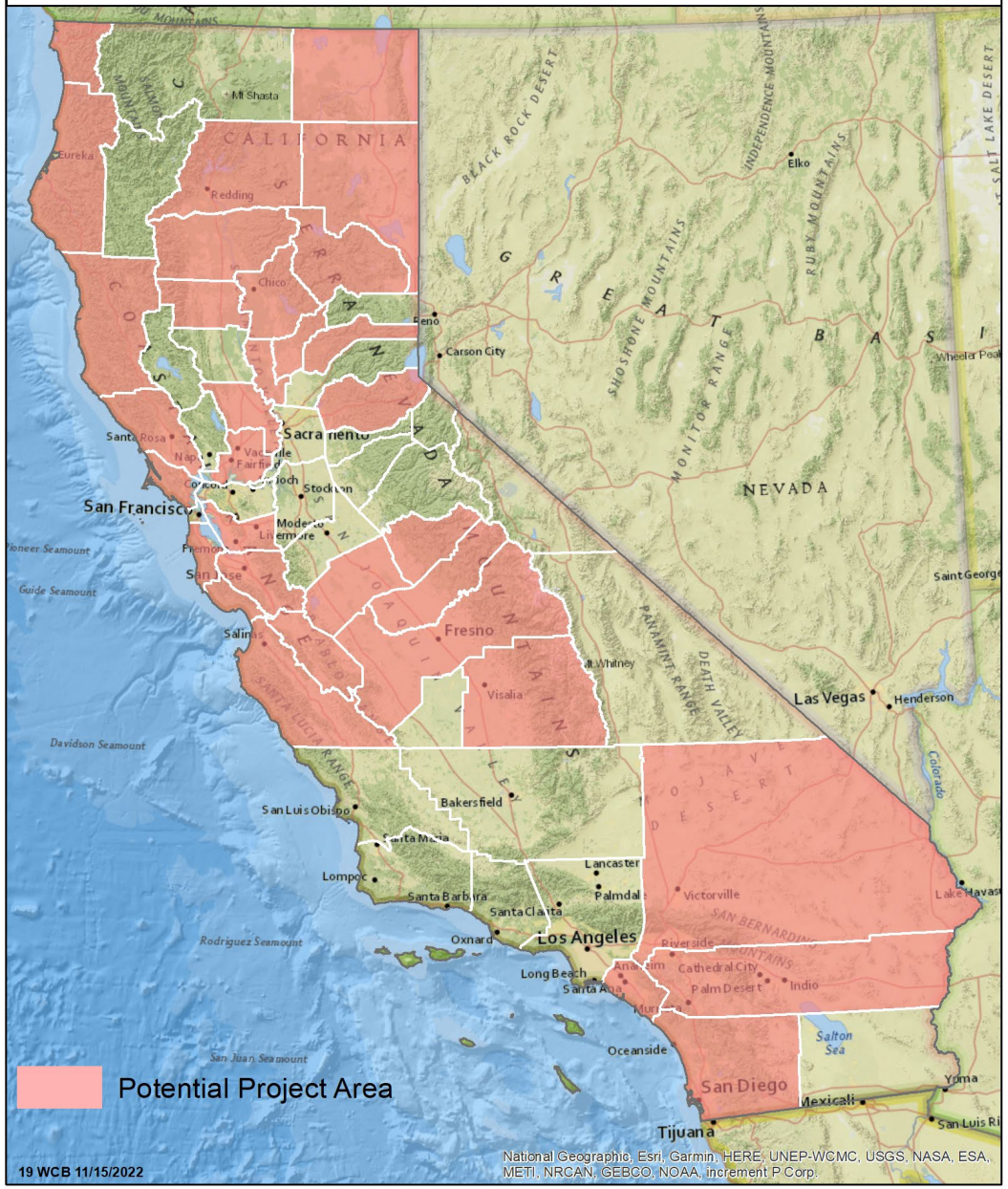
18. Climate Smart Meadow Restoration

Slide 14

Unhealthy meadow (top left) and healthy meadow (bottom left)

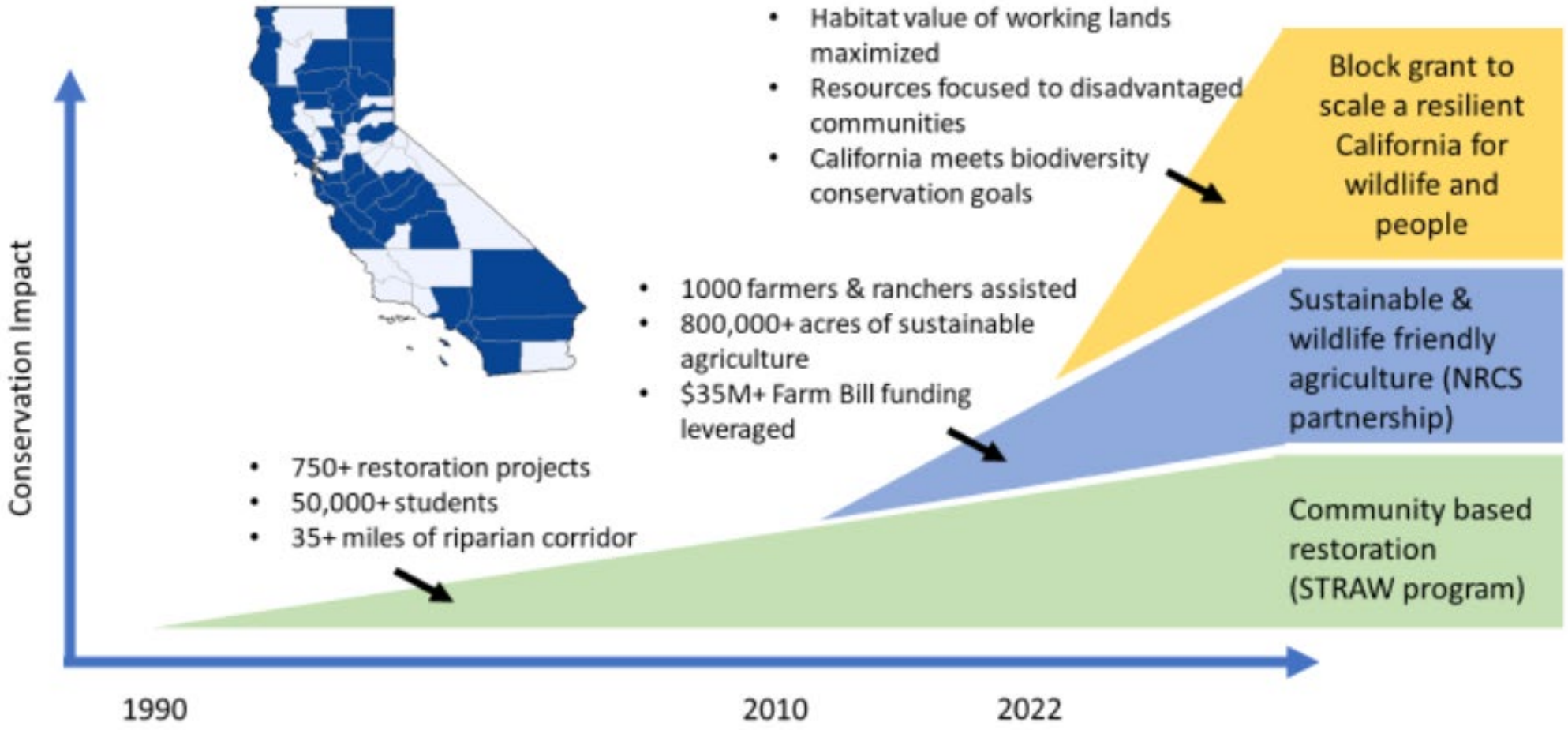
(Image credit: American Rivers)

Building Wildlife-Friendly Resilience in Working Landscapes Various Counties

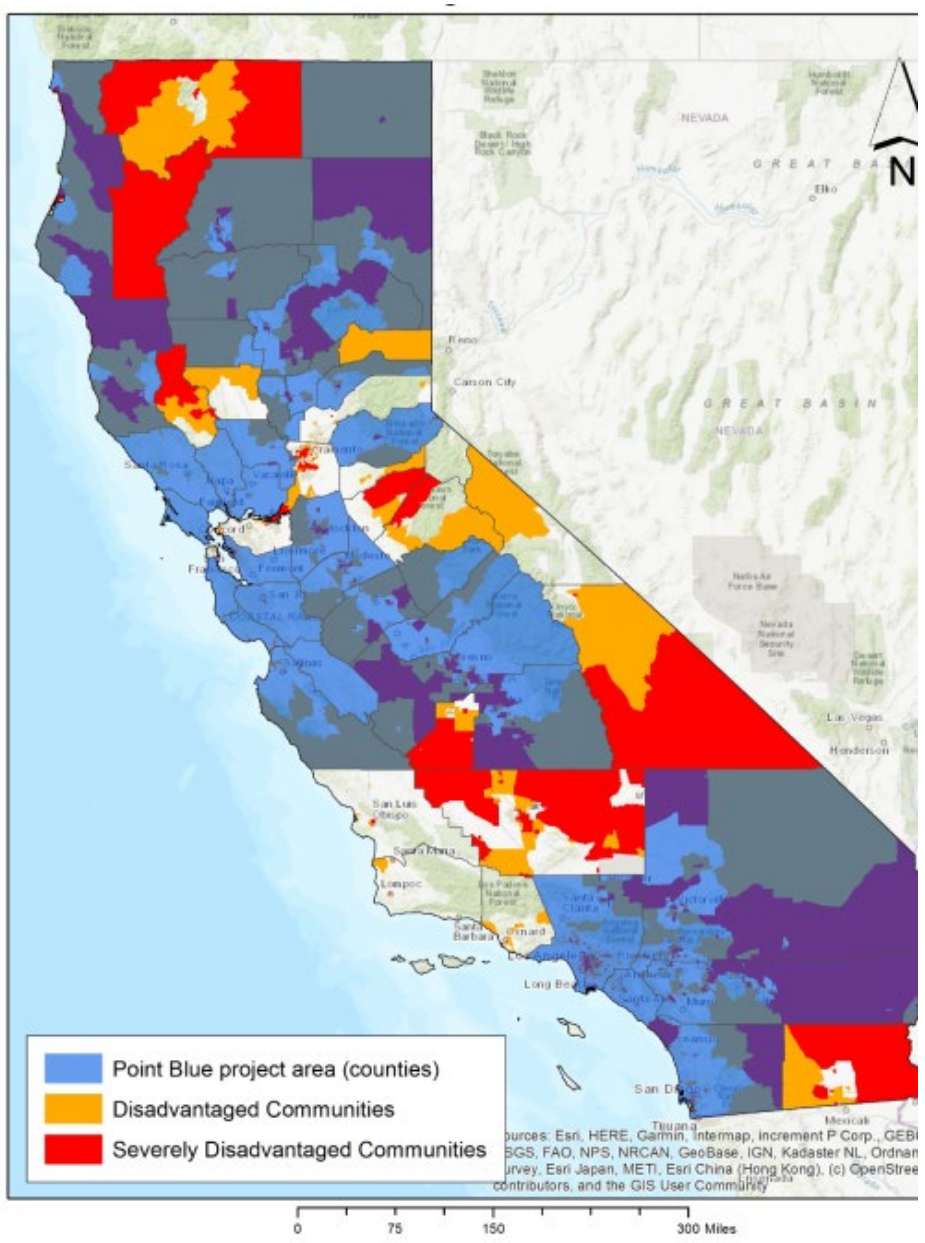


Building Wildlife-friendly Resilience and Equity in California's Working Landscapes

Slide 2



Graphic courtesy of Point Blue Conservation Science



19. Building Wildlife-Friendly Resilience in Working Landscapes

Slide 3

Image courtesy of Point Blue Conservation Science

Point Blue project area and Disadvantaged Communities.

Building Wildlife-friendly Resilience and Equity in California's Working Landscapes

Slide 4

Project milestones:

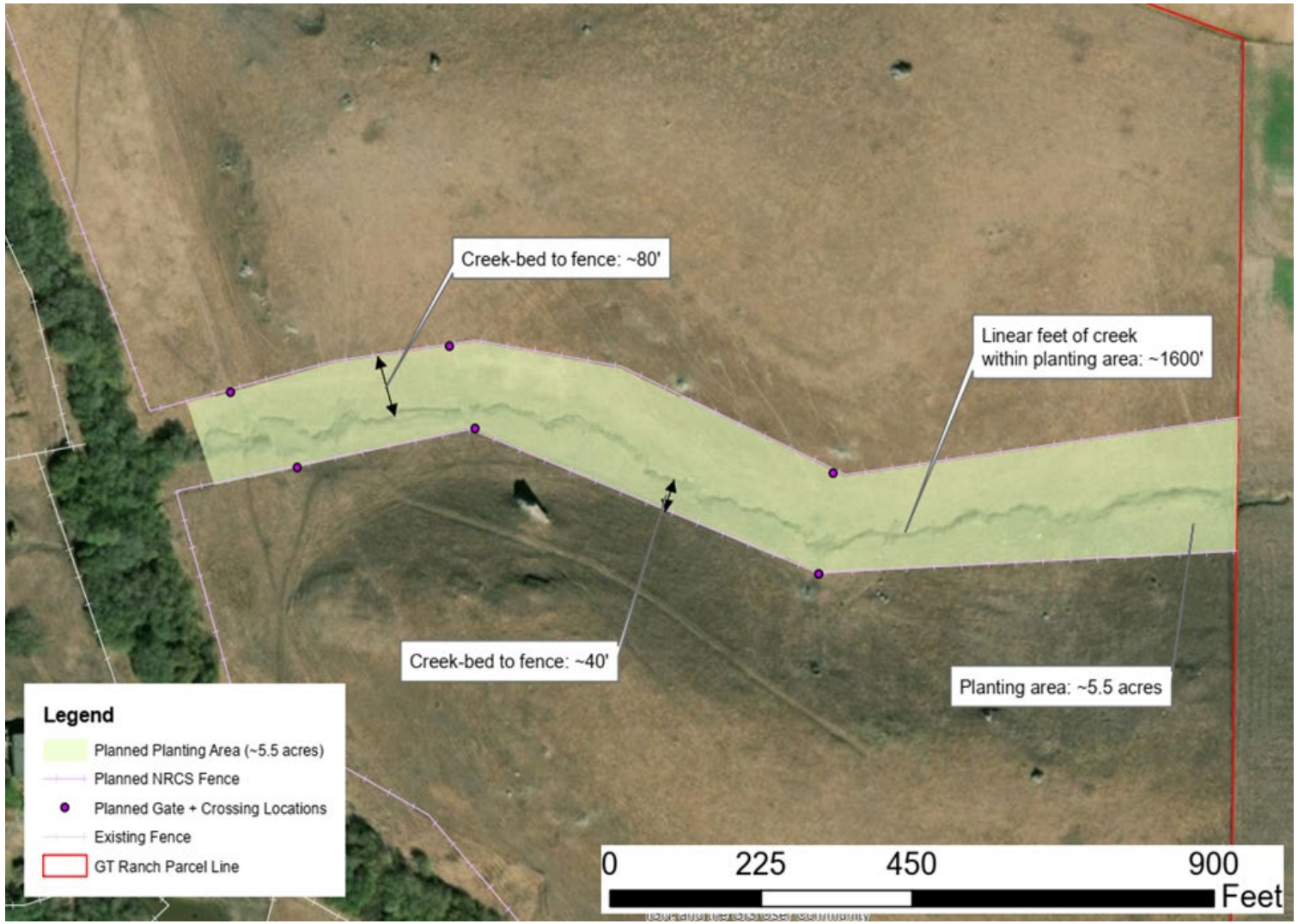
- Restore 5 mi riparian habitat
- Restore 40,000 ac of upland habitat
- Implement projects in a minimum of 35 counties across California
- Implement at least 50% of restoration projects in disadvantaged communities
- Partner with 200 land managers
- Engage a minimum of 8,000 volunteers in restoration implementation

19. Building Wildlife-Friendly Resilience in Working Landscapes

Slide 5

Images courtesy of Point Blue Conservation Science

Students active in restoration through STRAW Program.



19. Building Wildlife-Friendly Resilience in Working Landscapes

Slide 6

Example riparian restoration project (cattle exclusion and planting).

Images courtesy of Point Blue Conservation Science

19. Building Wildlife-Friendly Resilience in Working Landscapes

Slide 7

Images courtesy of Point Blue Conservation Science

Sample project type: riparian restoration (16 years).

November 2020

March 2021

November 2021

19. Building Wildlife-Friendly Resilience in Working Landscapes

Slide 8

Images courtesy of Point Blue Conservation Science

Sample project type: Beaver Dam Analog (1 year).

19. Building Wildlife-Friendly Resilience in Working Landscapes

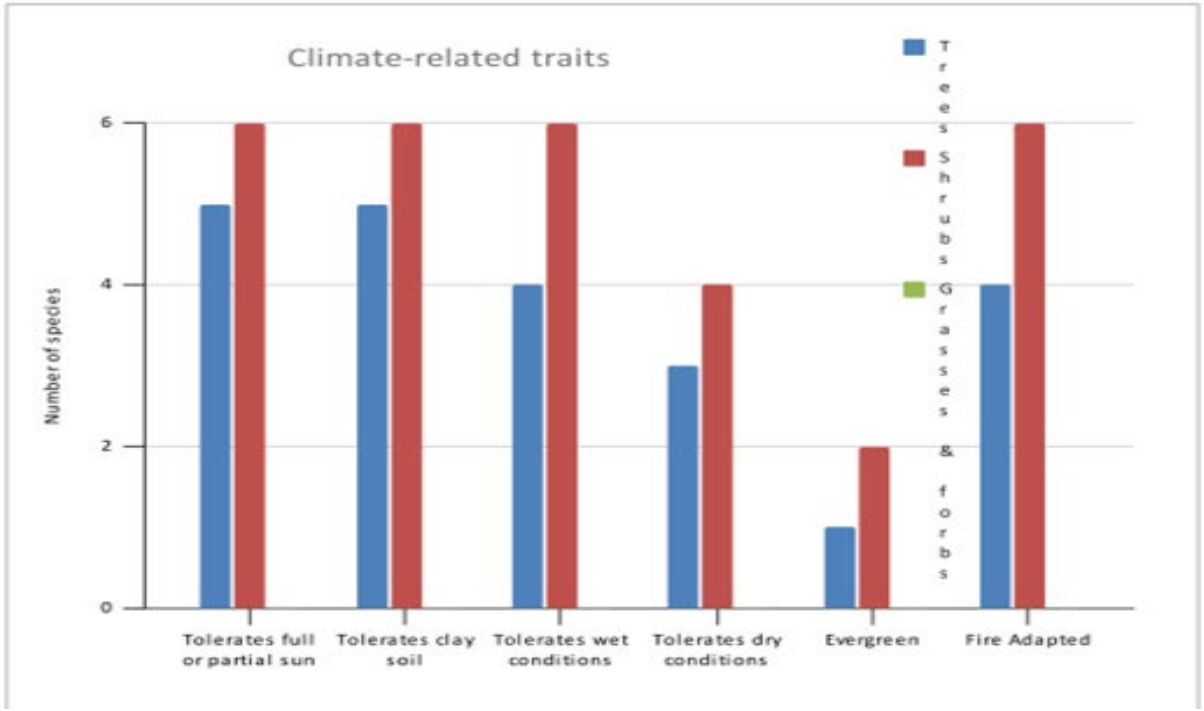
Slide 9

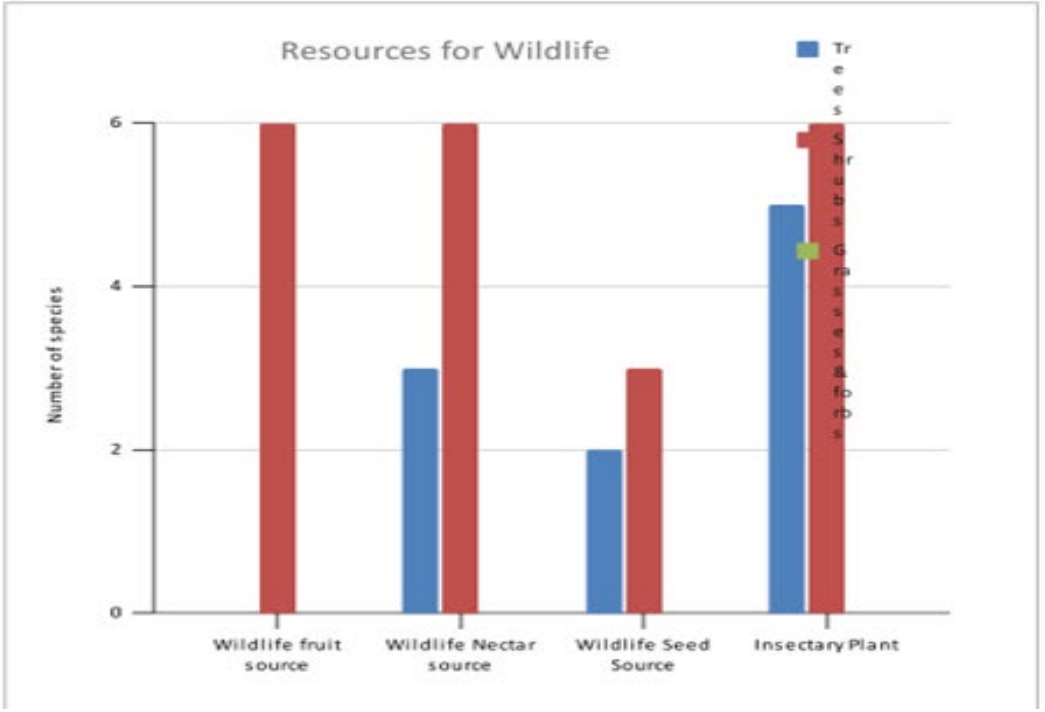
Images courtesy of Point Blue Conservation Science

Sample project type: Zeedyk (“one-rock dam”) structure (1 year).

Climate-Smart Performance Analysis

Trees (5 selected)
Shrubs (6 selected)
Grasses & Forbs (0 selected)



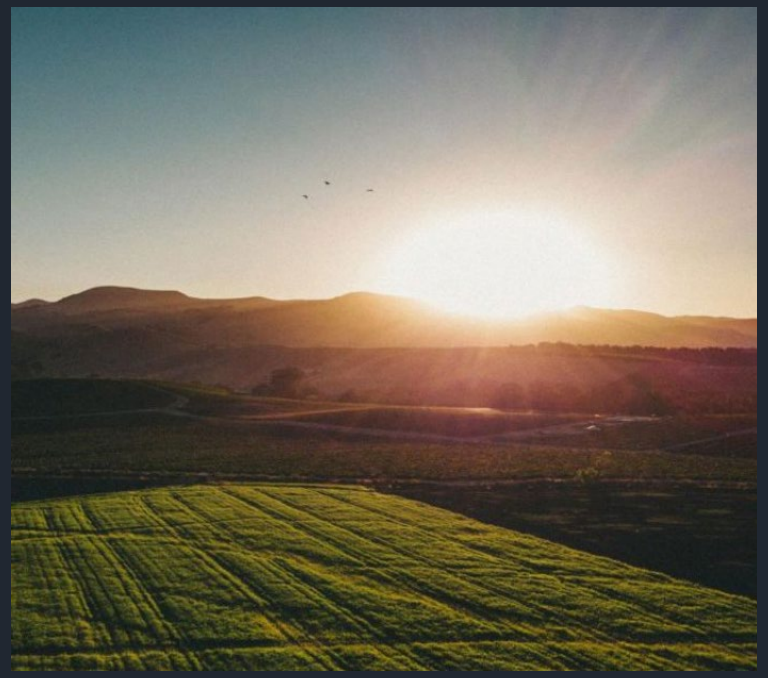


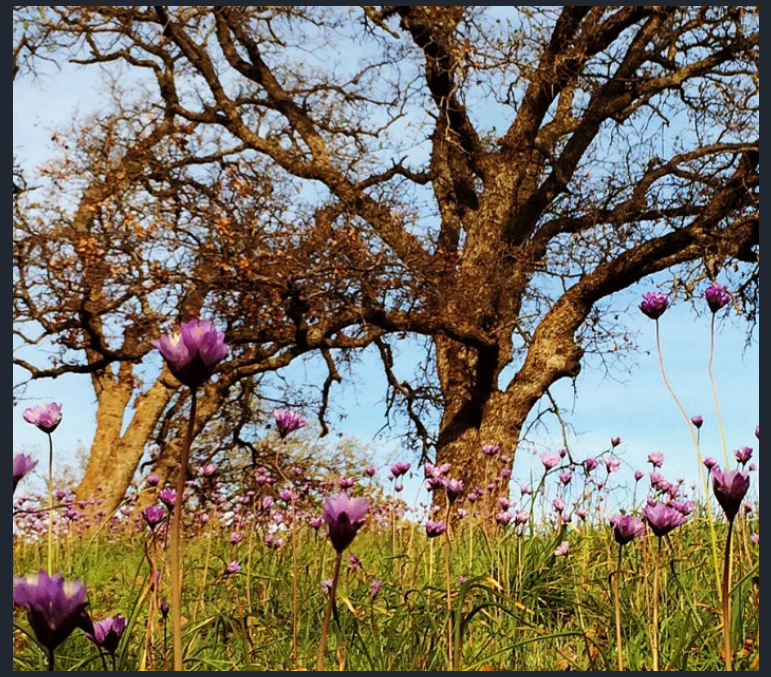
19. Building Wildlife-Friendly Resilience in Working Landscapes

Slide 10

Graphics courtesy of Point Blue Conservation Science

Performance evaluation tool for plant success.





19. Building Wildlife-Friendly Resilience in Working Landscapes

Slide 11

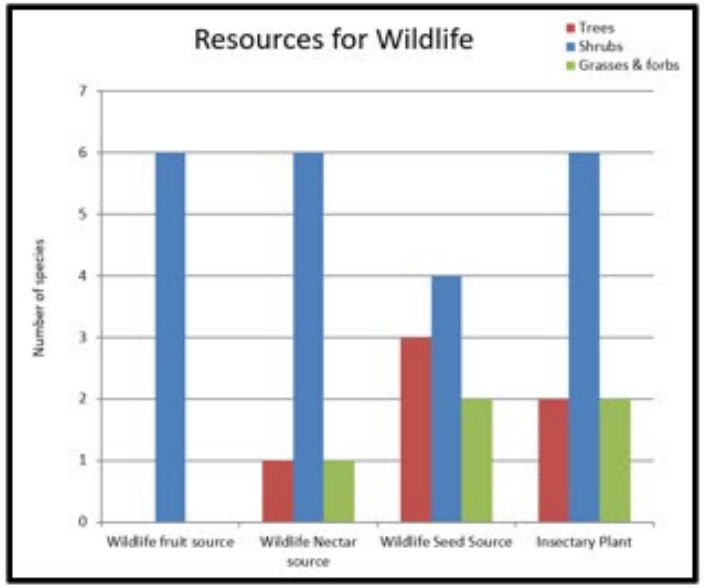
- Images courtesy of Point Blue Conservation Science and the California Association of Resource Conservation Districts

Building wildlife-friendly resilience and equity on California's working landscapes

Partnering with the California Wildlife Conservation Board to advance 30x30 statewide through community-centered restoration

Core Capabilities across 57 years

Science



Partnerships

Restoration & Education

Point Blue

California's farms and ranches represent critical value for wildlife habitat, climate resilience and community engagement

- 48% of California's landbase is privately owned
- Urgent need to address barriers to current conservation resourcing to maximize that value
- Amplify impact through strong collaboration with CARCD and individual RCDs

Point Blue

Leveraging 30 years of community-based restoration and conservation stewardship expertise

"Point Blue brings important biological expertise to help us achieve our mission—**helping farmers and ranchers maintain healthy working lands**."

Carlos Suarez, State Conservationist, USDA NRCS California

30+ staff dedicated across California to this block grant project

Staff have leveraged over 80M in conservation & restoration funding

Staff have engaged more than 50,000 students and 1000 farmers and ranchers

Staff have more than 185 years of collective experience

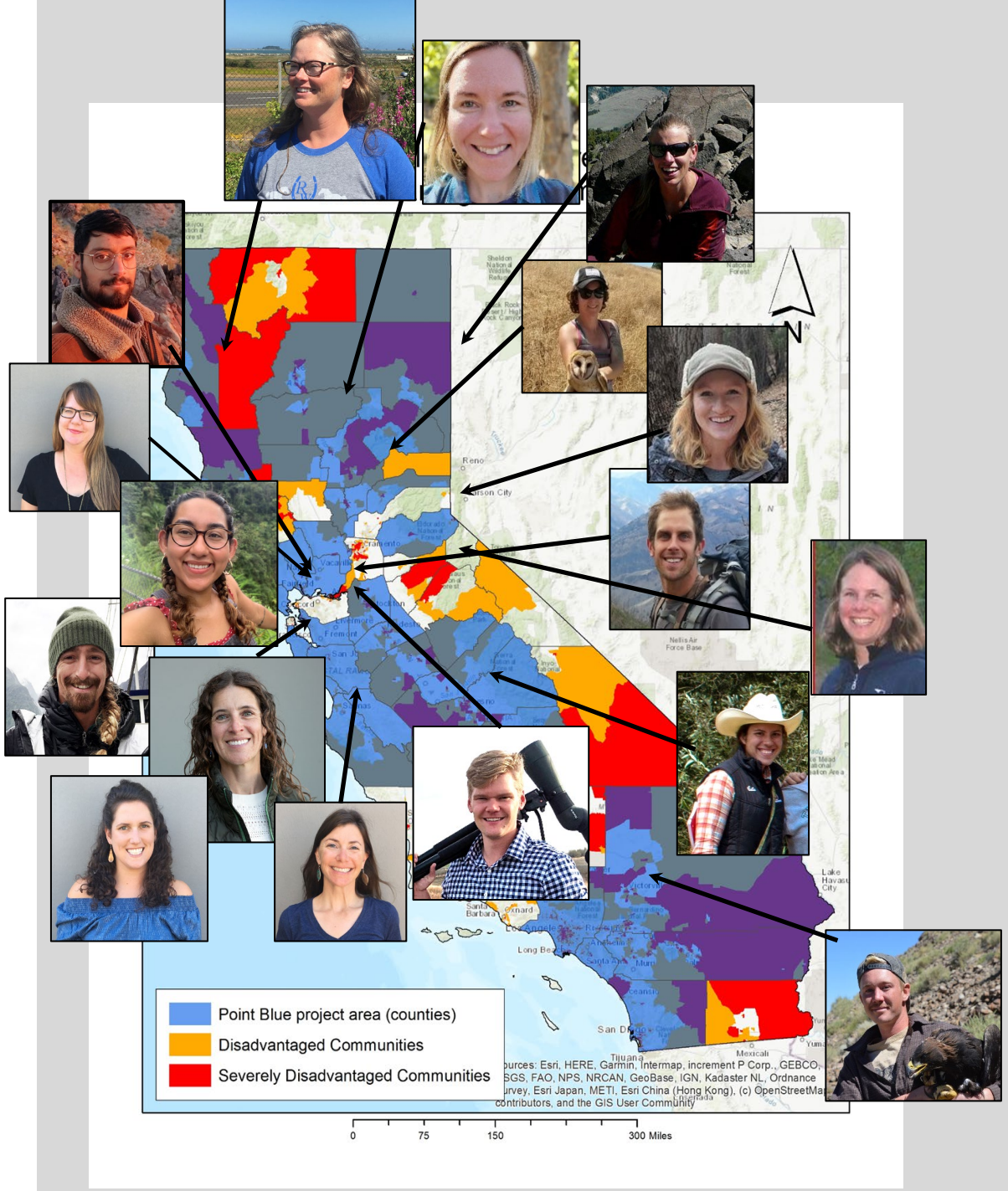
"We feel more confident about meeting our restoration goals on working landscapes more than ever largely due to our over **25-year history with Point Blue's STRAW Program. Together we are designing climate smart projects … that are beneficial to a variety of wildlife species**."

Nancy Scolari, Executive Director Marin RCD

Point Blue

Dedicated staff and meaningful partnerships working across 35 counties

- Conservation planning and implementation supported on more than 800,000 acres
- Implemented 40+ miles of riparian corridor restoration implemented
- Relationships built with California Tribal Communities in more than 9 counties to date



Point Blue

Project Goals

Restore	Restore wildlife habitat on farms and ranches across California.
Direct	Direct > 50% of funding to projects that support projects with California Native American Tribes, disadvantaged communities, and underserved individuals*.
Engage	Engage communities in building ecological resilience.

*Underserved: self identifies as either (1) socially disadvantaged group as defined by the Farmer Equity Act (AB 1348) (2) limited resource (3) beginning farmer or rancher (4) Military Veterans or (5) qualifies for Free and Reduced Lunch Programs

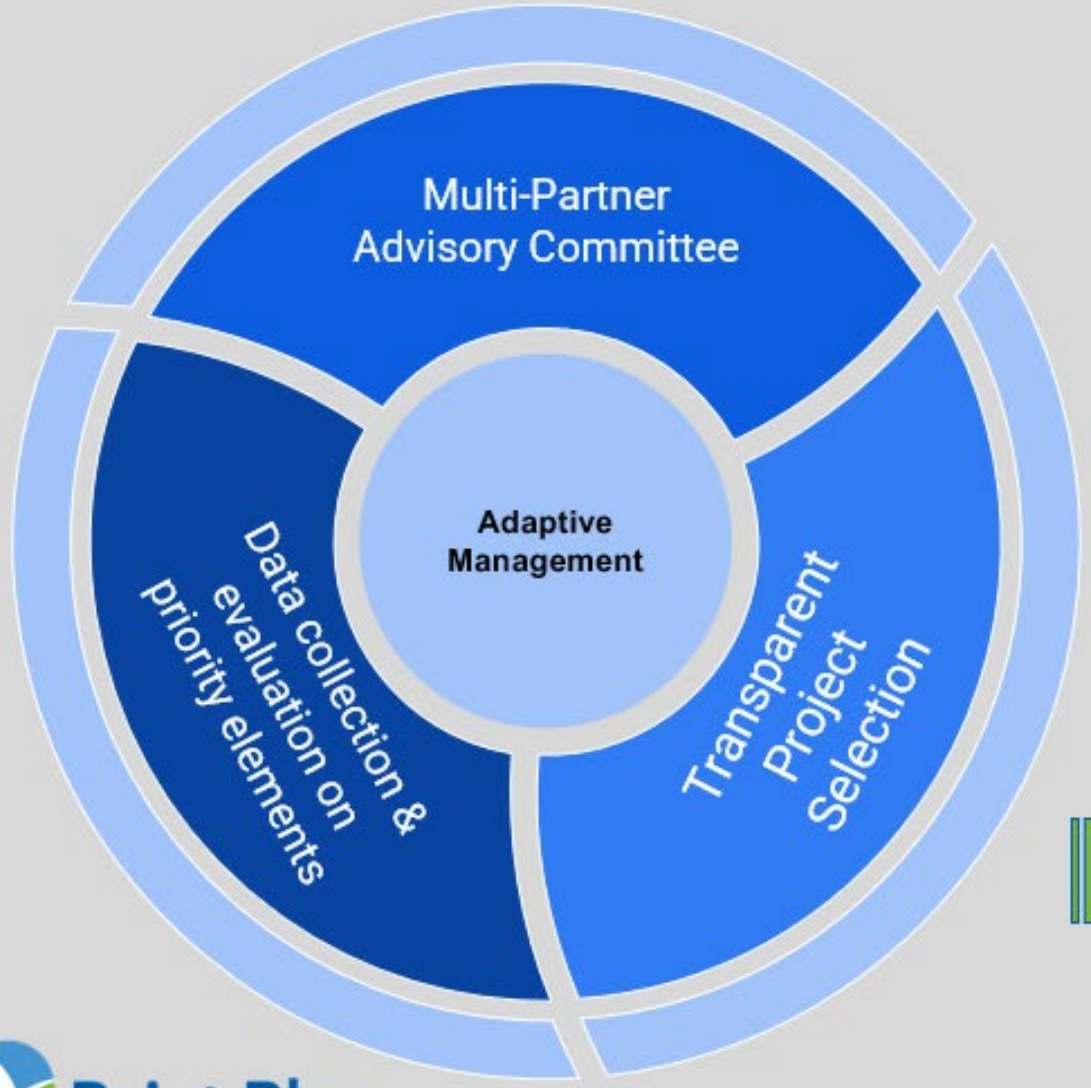
Point Blue

Building equity

- Prioritized in project selection & success evaluated through an equity gap analysis
- Distribution of funds prioritized to serve disadvantaged communities & California Native American Tribes
- > 2000 underserved students and teachers will participate directly in restoration

Point Blue

Creating wildlife habitat through a transparent and inclusive process that we can learn from



Rubric Ranking Categories
Wildlife Habitat Quality & Connectivity
Equity & Community Engagement
Climate Resilience & Feasibility

Point Blue

Community-Centered Restoration Success Metrics

At least 8,000 community volunteers & 200 producers + partners

> 230 wildlife-beneficial restoration practices:

> 100 riparian restorations	> 30 hedgerow plantings	> 30 oak woodland restorations	> 60 pollinator habitat restorations	> 10 beaver dam analog installations	Additional practices

Point Blue

Project Outcomes: ecological and social benefits of farm and ranches increased

- Habitat value of farms and ranches enhanced across all major ecoregions of California
- Threatened and endangered species bolstered
- Increased recognition of the value of California's farms and ranches
- New communities engaged in restoration and land stewardship
- Increased community engagement in restoration and conservation statewide

Point Blue

Partnering across California to advance 30x30

"To conserve 30% of California's lands and coastal waters by 2030, the audacious is not only possible, it is necessary … Point Blue brings the science that will help us meaningfully protect and restore biodiversity, expand access to nature, and build resilience to climate change. **We have to move at a pace and scale like we never have before, and we look forward to working with Point Blue in showing the world that people and nature can thrive together**."

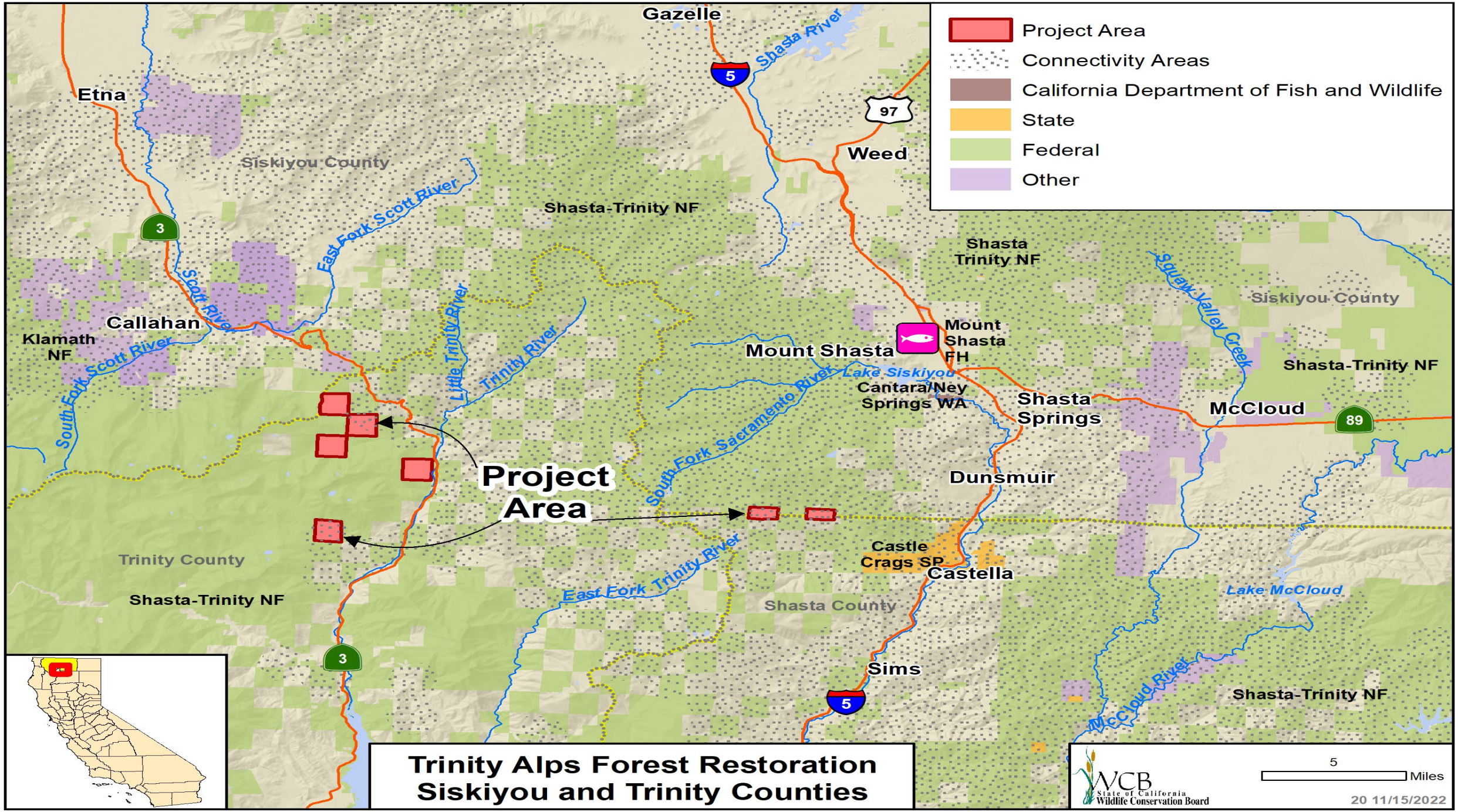
- **California Natural Resources Secretary Wade Crowfoot, October 2022**

Point Blue

WCB State of California Wildlife Conservation Board

30x30 CALIFORNIA


Thank You
CALIFORNIA ASSOCIATION OF RESOURCE CONSERVATION DISTRICTS
San Benito Agricultural™ LAND TRUST
TOMKAT RANCH
RESOURCE CONSERVATION DISTRICT OF BUTTE COUNTY
SONOMA LAND TRUST
cdfa
WCB State of California Wildlife Conservation Board
30x30 CALIFORNIA
BURROUGHS FAMILY FARMS
Point Blue
Conservation science for a healthy planet.

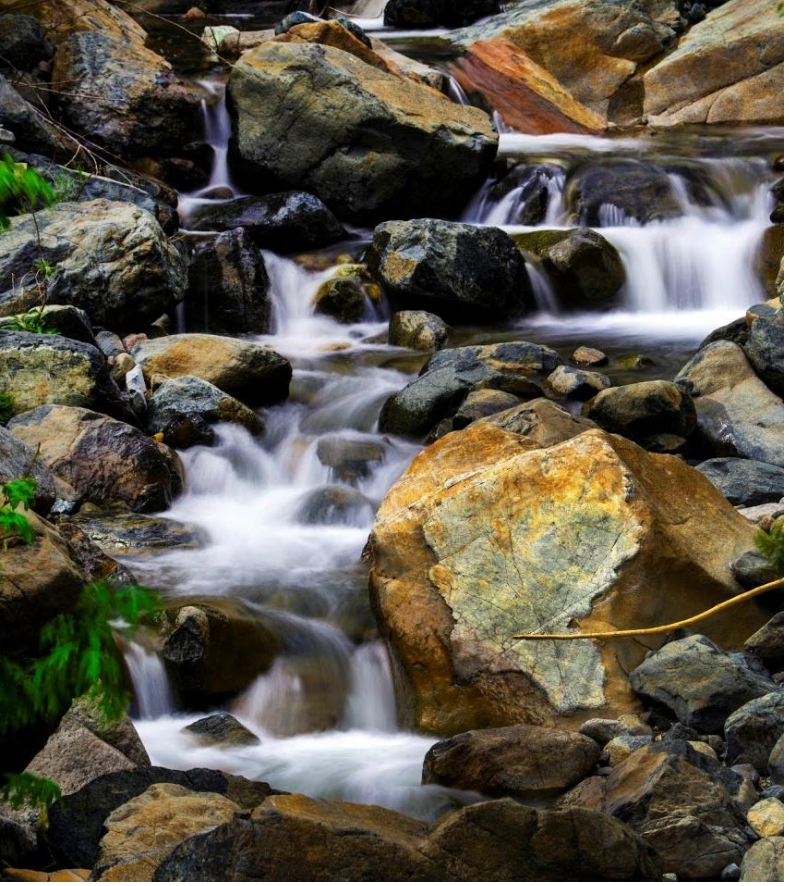

Project Area
Connectivity Areas
California Department of Fish and Wildlife
State
Federal
Other
Gazelle
Shasta River
Etna
Siskiyou County
Weed
Shasta-Trinity NF
East Fork Scott River
Scott River
Callahan
Klamath NF
South Fork Scott River
Little Trinity River
Trinity River
Shasta Trinity NF
Squaw Valley Creek
Siskiyou County
Mount Shasta
Mount Shasta FH
Lake Siskiyou
Cantara/Ney Springs WA
Shasta Springs
McCloud
Shasta-Trinity NF
South Fork Sacramento River
Project Area
Dunsmuir
Castle Crags SP
Castella
Trinity County
Shasta-Trinity NF
East Fork Trinity River
Shasta County
Lake McCloud
Sims
McCloud River
Shasta-Trinity NF
Trinity Alps Forest Restoration
Siskiyou and Trinity Counties
WCB State of California Wildlife Conservation Board
5 Miles
20 11/15/2022

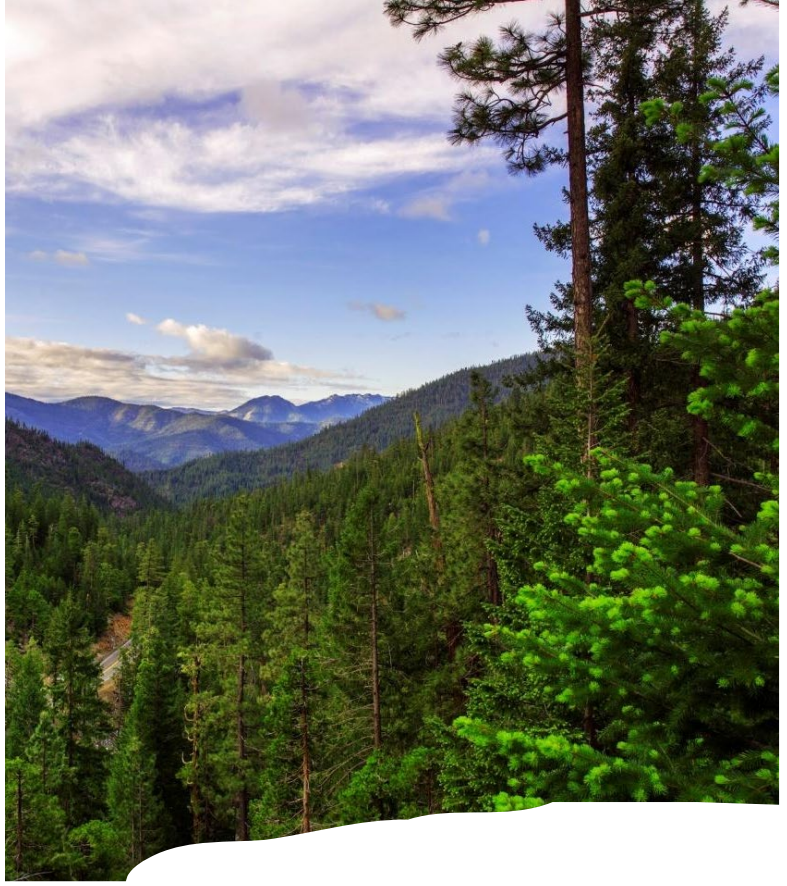
20. Trinity Alps Forest Restoration

Slide 1

Castle Crags viewed from the Pacific Crest Trail.

Image credit: Trust for Public Land





20. Trinity Alps Forest Restoration

Slide 2

Landscape views in the project area

(Image credit: Trust of Public Land)

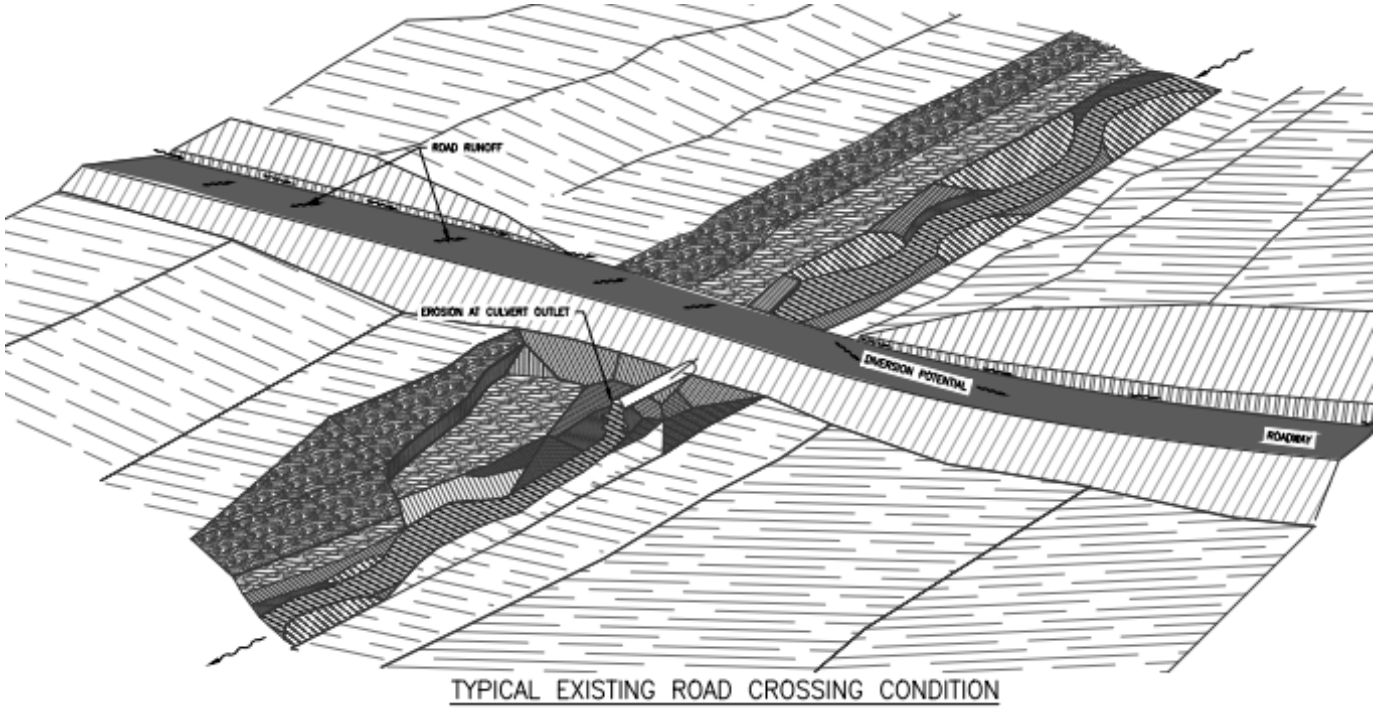
20. Trinity Alps Forest Restoration

Slide 3

Above: Access road in the project area

Left: Failing culverts

(Image credit: Siskiyou Restoration Group and GeoServ, Inc.)



TYPICAL EXISTING ROAD CROSSING CONDITION

20. Trinity Alps Forest Restoration

Slide 4

Culvert removal example

(Image credit: Siskiyou Restoration Group and GeoServ, Inc.)

20. Trinity Alps Forest Restoration

Slide 5

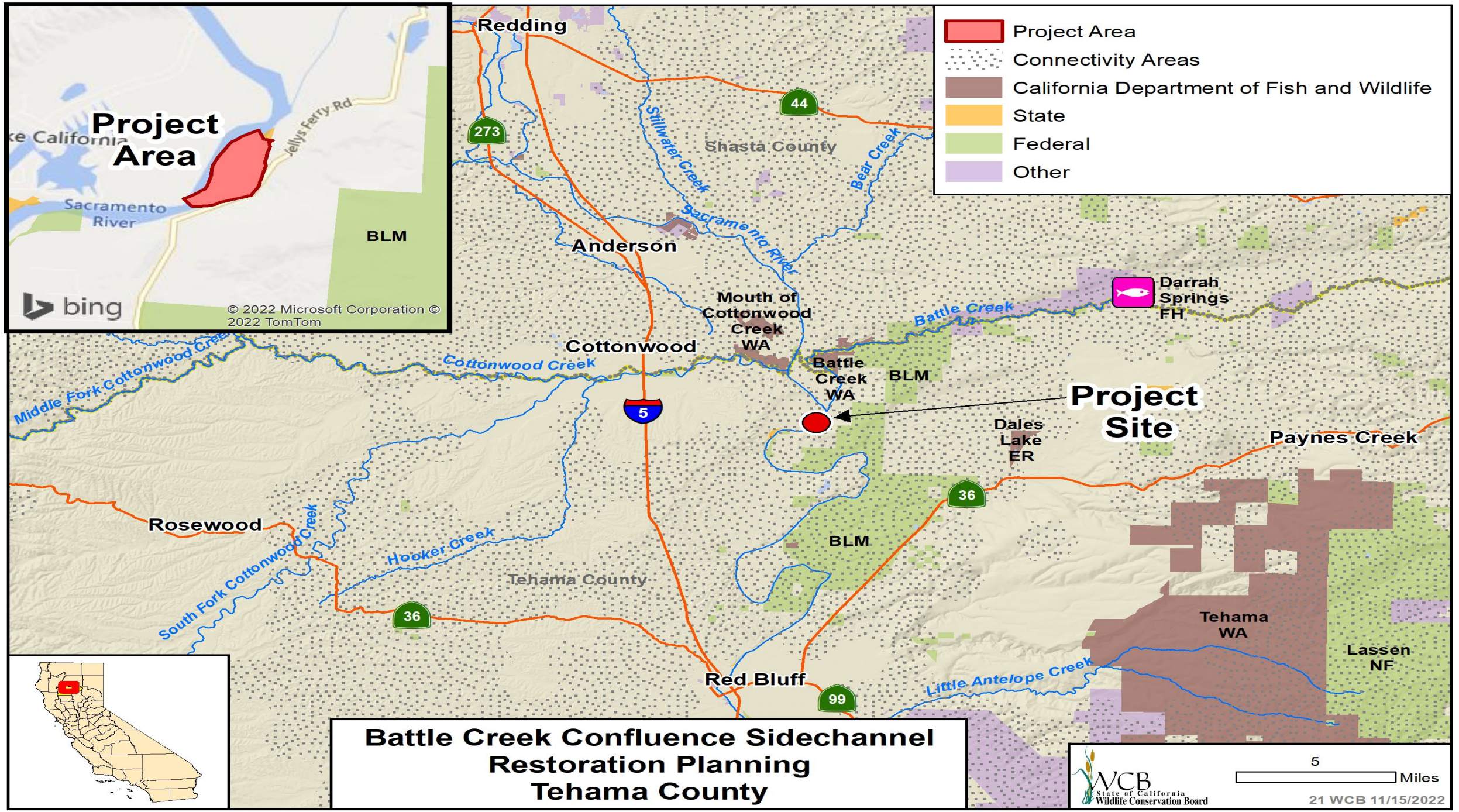
Culvert removal example

(Image credit: Siskiyou Restoration Group and GeoServ, Inc.)

20. Trinity Alps Forest Restoration

Slide 6

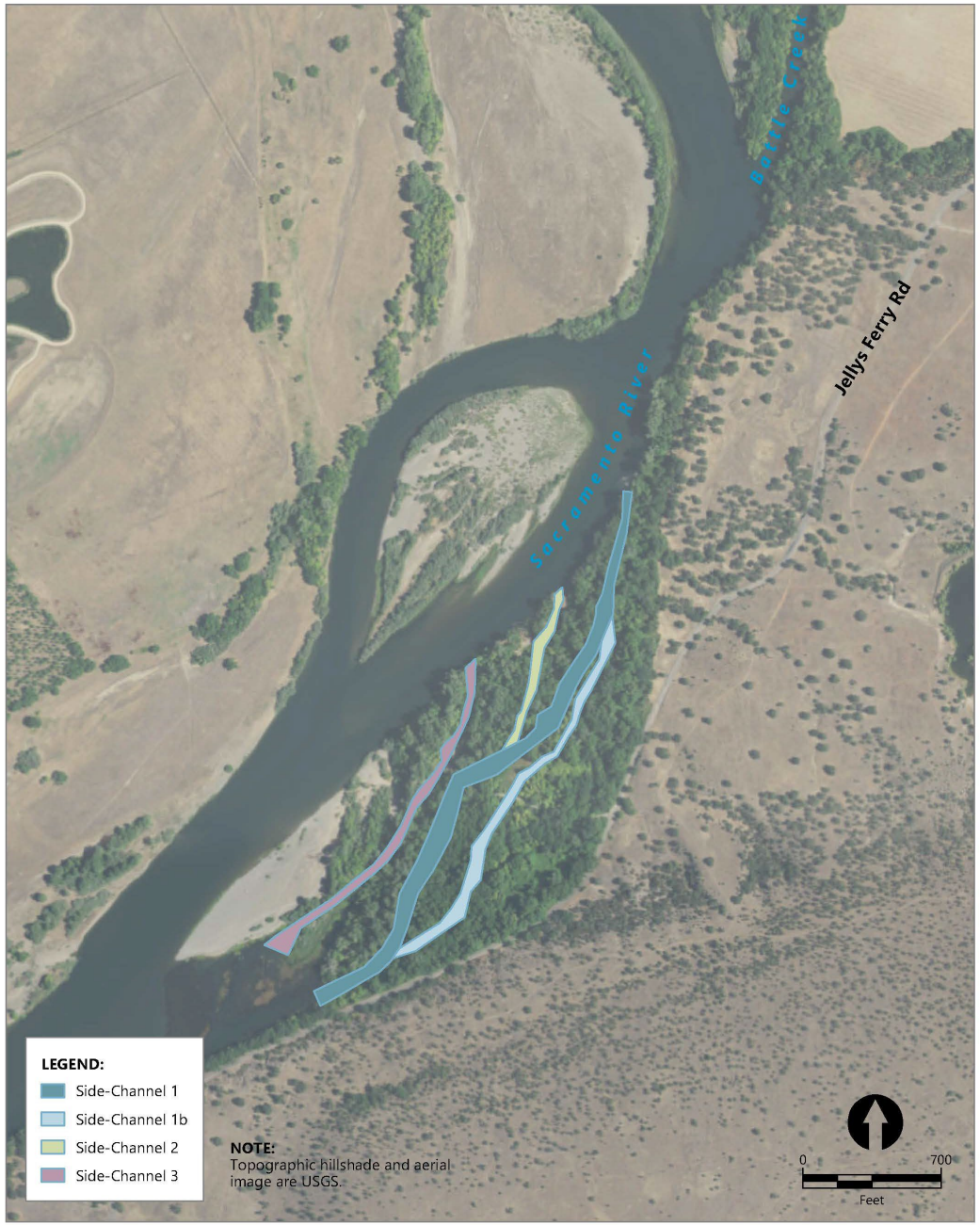
Trinity River


Project Area
Connectivity Areas
California Department of Fish and Wildlife
State
Federal
Other
Project Area
Sacramento River
Jellys Ferry Rd
BLM
© 2022 Microsoft Corporation © 2022 TomTom
Redding
273
44
Shasta County
Stillwater Creek
Sacramento River
Bear Creek
Anderson
Mouth of Cottonwood Creek WA
Darrah Springs FH
Battle Creek
Cottonwood
Cottonwood Creek
Middle Fork Cottonwood Creek
Battle Creek WA
BLM
5
Project Site
Dales Lake ER
Paynes Creek
36
Rosewood
South Fork Cottonwood Creek
Hooker Creek
Tehama County
BLM
Tehama WA
Lassen NF
Red Bluff
99
Little Antelope Creek
Battle Creek Confluence Sidechannel Restoration Planning
Tehama County
WCB State of California Wildlife Conservation Board
5
Miles
21 WCB 11/15/2022

21. Battle Creek Confluence Sidechannel Restoration Planning

Slide 1

Looking upstream of the Sacramento River viewing the proposed side channel outlet (right). Backwater at the downstream end of Project site is visible at center right of photo.



Publish Date: 2022/07/22, 11:07 AM | User: epipkin
Filepath:

21. Battle Creek Confluence Sidechannel Restoration Planning

Slide 2

Aerial map showing possible alternatives with multiple side channels/dimensions.

21. Battle Creek Confluence Sidechannel Restoration Planning

Slide 3

Example of proposed arched culvert with natural stream bottom.

21. Battle Creek Confluence Sidechannel Restoration Planning

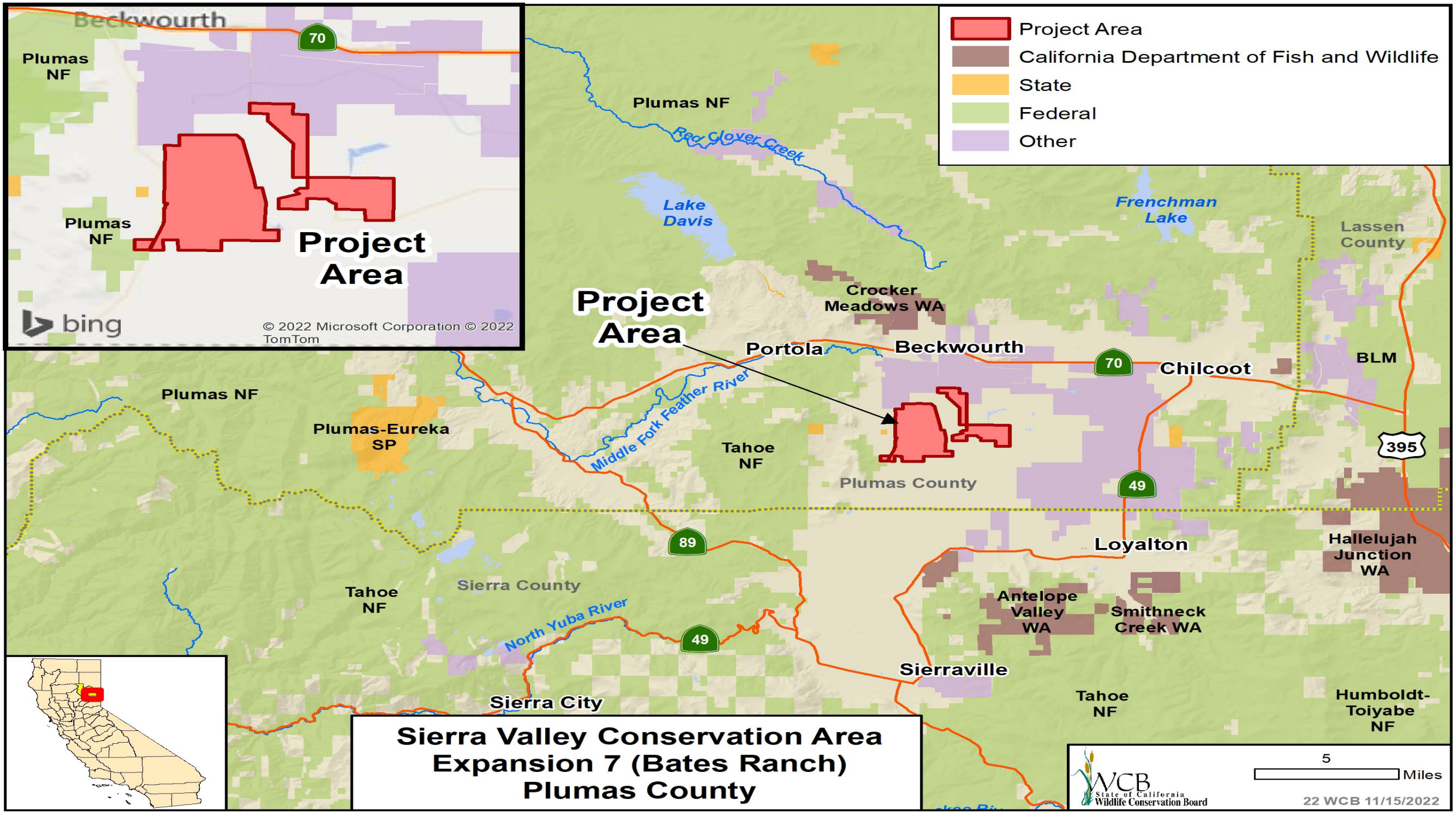
Slide 4

Largely vegetation-free mid-site location of the side channel.

21. Battle Creek Confluence Sidechannel Restoration Planning

Slide 5

View from head of site looking downstream with mainstem Sacramento River visible on the right. Near the proposed inlet to be cut to allow Sacramento River water entrance to the reconnected side channel.


Project Area
California Department of Fish and Wildlife
State
Federal
Other
Beckwourth
70
Plumas NF
Plumas NF
Project Area
bing
© 2022 Microsoft Corporation © 2022 TomTom
Plumas NF
Red Clover Creek
Lake Davis
Frenchman Lake
Lassen County
Project Area
Crocker Meadows WA
Portola
Beckwourth
70
Chilcoot
BLM
Plumas NF
Middle Fork Feather River
Plumas-Eureka SP
Tahoe NF
Plumas County
395
49
89
Loyalton
Hallelujah Junction WA
Tahoe NF
Sierra County
North Yuba River
Antelope Valley WA
Smithneck Creek WA
49
Sierraville
Sierra City
Tahoe NF
Humboldt-Toiyabe NF
Sierra Valley Conservation Area
Expansion 7 (Bates Ranch)
Plumas County
WCB State of California Wildlife Conservation Board
5
Miles
22 WCB 11/15/2022

22. Sierra Valley Conservation Area, Expansion 7 (Bates Ranch)

Slide 1

View looking to the east over subject Property

22. Sierra Valley Conservation Area, Expansion 7 (Bates Ranch)

Slide 2

View of wetlands looking northerly over the subject Property

22. Sierra Valley Conservation Area, Expansion 7 (Bates Ranch)

Slide 3

Spring flowers over the western portion of the Property

22. Sierra Valley Conservation Area, Expansion 7 (Bates Ranch)

Slide 4

Marble Hot Springs Road which crosses the Property

22. Sierra Valley Conservation Area, Expansion 7 (Bates Ranch)

Slide 5

Sandhill cranes on the subject Property

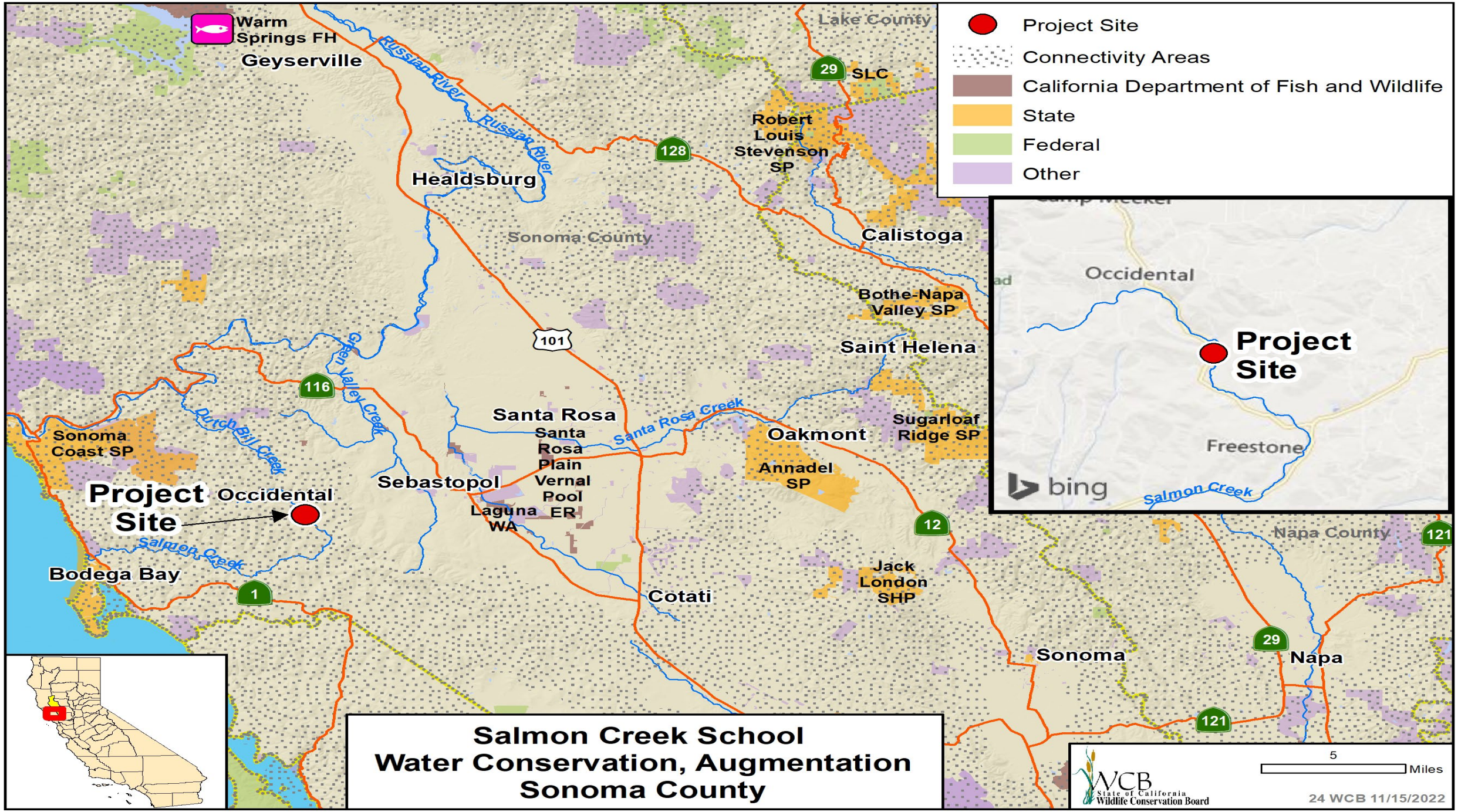
22. Sierra Valley Conservation Area, Expansion 7 (Bates Ranch)

Slide 6

Pronghorn grazing in the sage scrub habitat on the Property

23. Cortina Ridge Sawato Kamitlitarro Wildlife Crossing

Withdrawn from consideration at this time.


Project Site
Connectivity Areas
California Department of Fish and Wildlife
State
Federal
Other
Warm Springs FH
Geyserville
Russian River
Lake County
29
SLC
Robert Louis Stevenson SP
128
Healdsburg
Sonoma County
Calistoga
Bothe-Napa Valley SP
101
Saint Helena
Green Valley Creek
116
Dutch Bill Creek
Santa Rosa
Santa Rosa Plain Vernal Pool ER
Santa Rosa Creek
Oakmont
Sugarloaf Ridge SP
Annadel SP
Sonoma Coast SP
Project Site
Occidental
Sebastopol
Laguna WA
Salmon Creek
Bodega Bay
1
Cotati
12
Jack London SHP
Napa County
121
Sonoma
29
Napa
121
Occidental
Project Site
Freestone
Salmon Creek
bing
Salmon Creek School
Water Conservation, Augmentation
Sonoma County
5
Miles
WCB State of California Wildlife Conservation Board
24 WCB 11/15/2022

33. Salmon Creek School Water Conservation, Augmentation slide 1

- Salmon Creek is home to populations of both California central coast coho salmon (federally listed as endangered species) and steelhead trout (federally listed as threatened species)
- Assessments of water quality and instream habitat indicate that low summer stream flows is one of the primary issues impairing ecological function of Salmon Creek
- Salmon Creek typically has more than adequate streamflow during the rainy season and early summer, but following the end of spring rains, discharge drops steadily through the summer into fall
- Coho Partnership research shows that restoration of very small increments of flow in streams comparable in size to Salmon Creek can dramatically reduce the incidence of flow disconnection, and its spatial and temporal extents

Credit: Gold Ridge RCD

33. Salmon Creek School Water Conservation, Augmentation slide 2

- Project implementation will increase summer baseflow through the upper and middle reaches of Salmon Creek, which include areas of documented coho use and experience extremely low flows and disconnection during the late dry season
- The Project will eliminate the annual extraction of up to 1.5 million gallons of water from a shallow, near-stream alluvial well for playing field irrigation at Salmon Creek School
- The Project will implement a suite of irrigation water conservation measures and construct a 517,000-gallon rainwater catchment system

Rendering of concrete cistern from playing field, with seat wall and mural
Credit: Prunuske Chatham, Inc.

24. Salmon Creek School Water Conservation, Augmentation

Slide 3

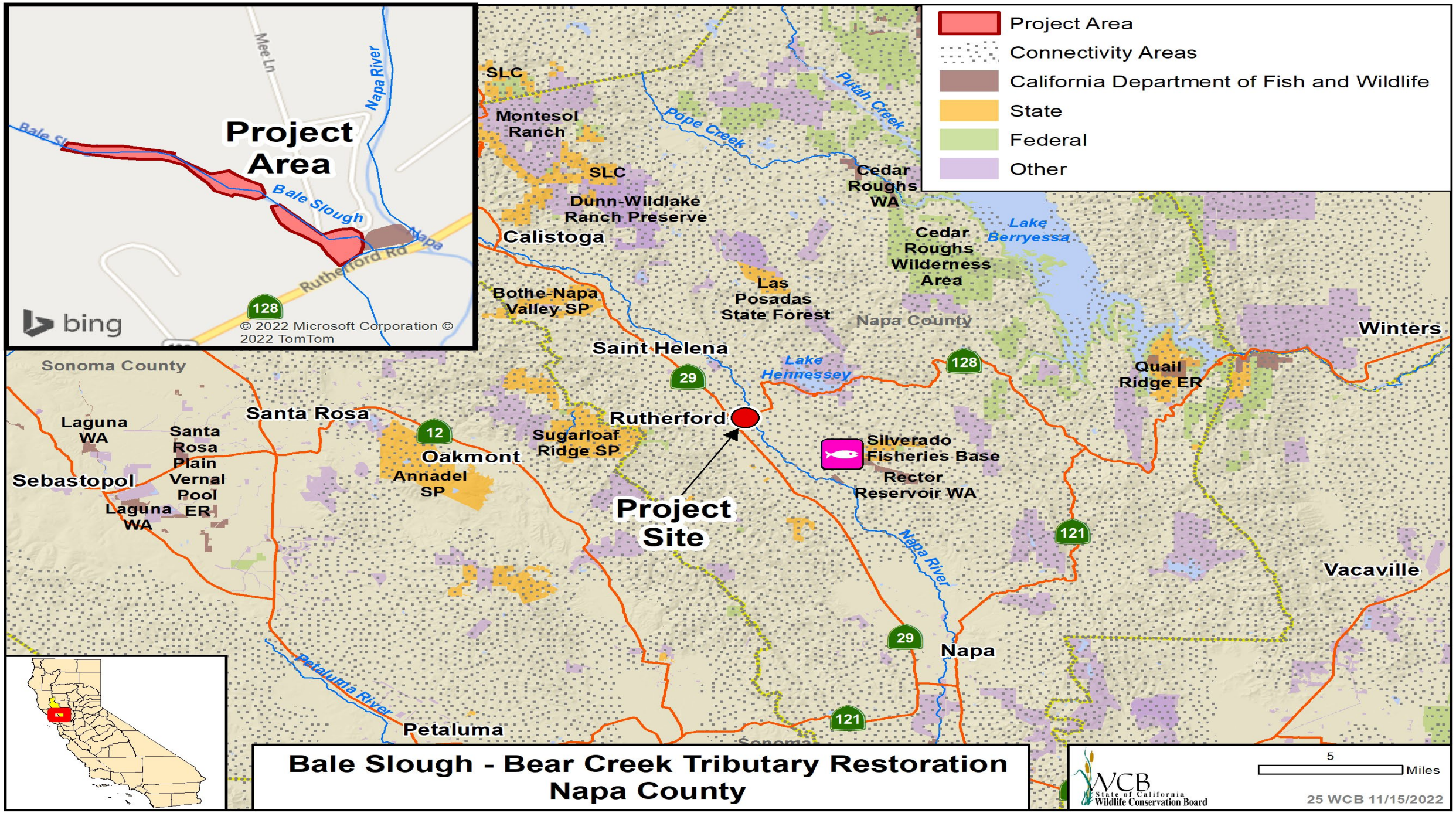
Cistern Construction

24. Salmon Creek School Water Conservation, Augmentation

Slide 4

- Original Project Cost $3,755,390
  - WCB Funded $2,067,390
- Increased Costs $2,230,058
  - WCB Proposed Funding Increase $1,230,000

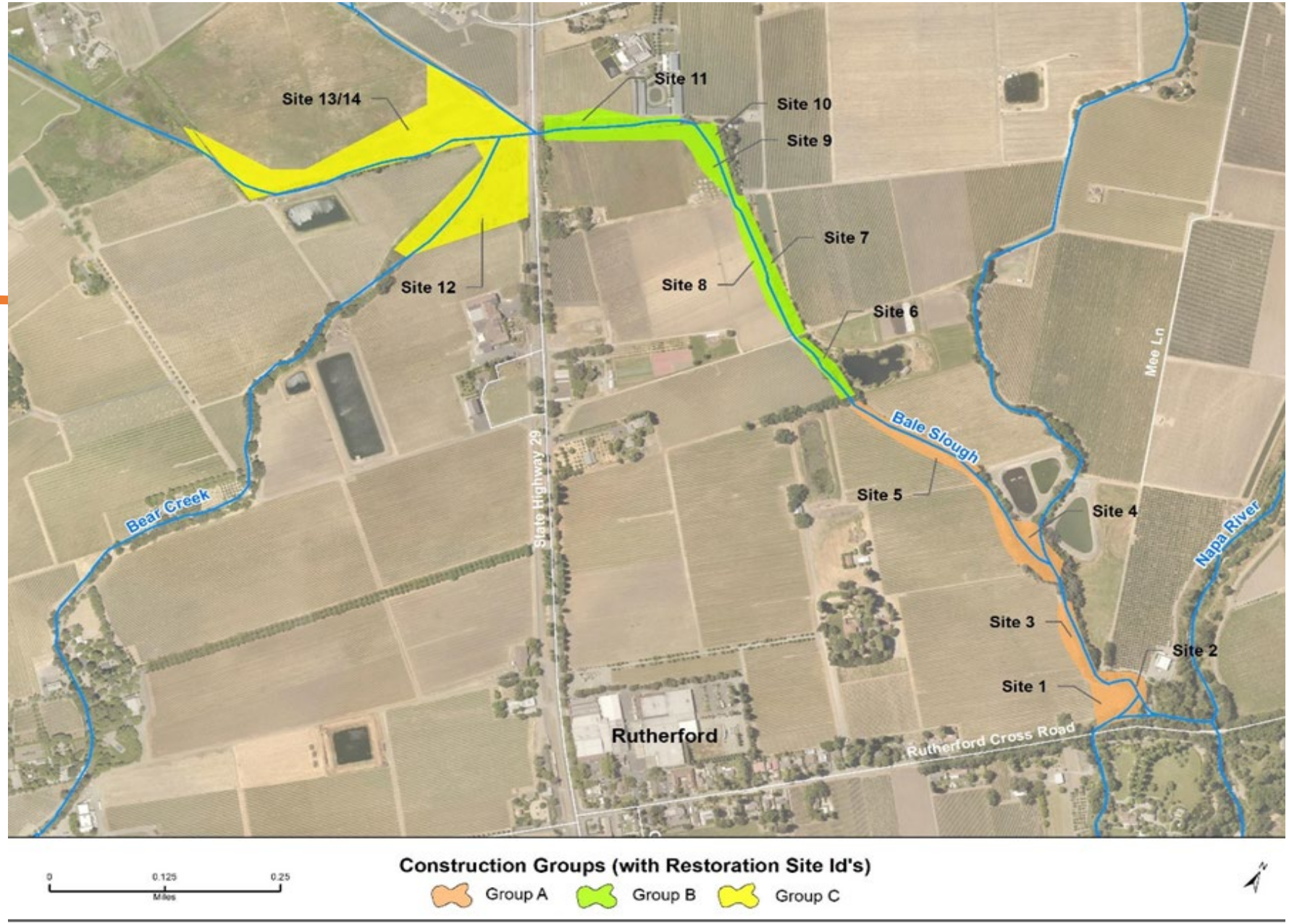
- Summary of Significant Cost Increases:
  - Earthwork costs increased $473,610
  - Concrete costs increased $273,212
  - Cistern costs increased $896,035
  - Utilities relocation and trenching $269,265


Project Area
Connectivity Areas
California Department of Fish and Wildlife
State
Federal
Other
Project Area
Mee Ln
Napa River
Bale Slough
Napa
Rutherford Rd
128
bing
© 2022 Microsoft Corporation © 2022 TomTom
SLC
Montesol Ranch
Pope Creek
Putah Creek
SLC
Dunn-Wildlake Ranch Preserve
Cedar Roughs WA
Calistoga
Cedar Roughs Wilderness Area
Lake Berryessa
Bothe-Napa Valley SP
Las Posadas State Forest
Napa County
Winters
Saint Helena
29
Lake Hennessey
128
Quail Ridge ER
Sonoma County
Laguna WA
Santa Rosa Plain Vernal Pool ER
Santa Rosa
12
Oakmont
Annadel SP
Sugarloaf Ridge SP
Rutherford
Silverado Fisheries Base
Rector Reservoir WA
Sebastopol
Laguna WA
Project Site
121
Napa River
Vacaville
29
Napa
Petaluma River
Petaluma
121
Bale Slough - Bear Creek Tributary Restoration
Napa County
WCB State of California Wildlife Conservation Board
5
Miles
25 WCB 11/15/2022

25. Bale Slough - Bear Creek Tributary Restoration

Slide 1

- Project detail map showing the three phases of implementation. Group A is being proposed for funding.



25. Bale Slough - Bear Creek Tributary Restoration

Slide 2

- Existing conditions in Bale Slough during high flows. Photos are looking downstream toward the confluence with the Napa River. Credit Napa RCD.

25. Bale Slough - Bear Creek Tributary Restoration

Slide 3

- Severely eroded bank in Bale Slough, June 2022.

25. Bale Slough - Bear Creek Tributary Restoration

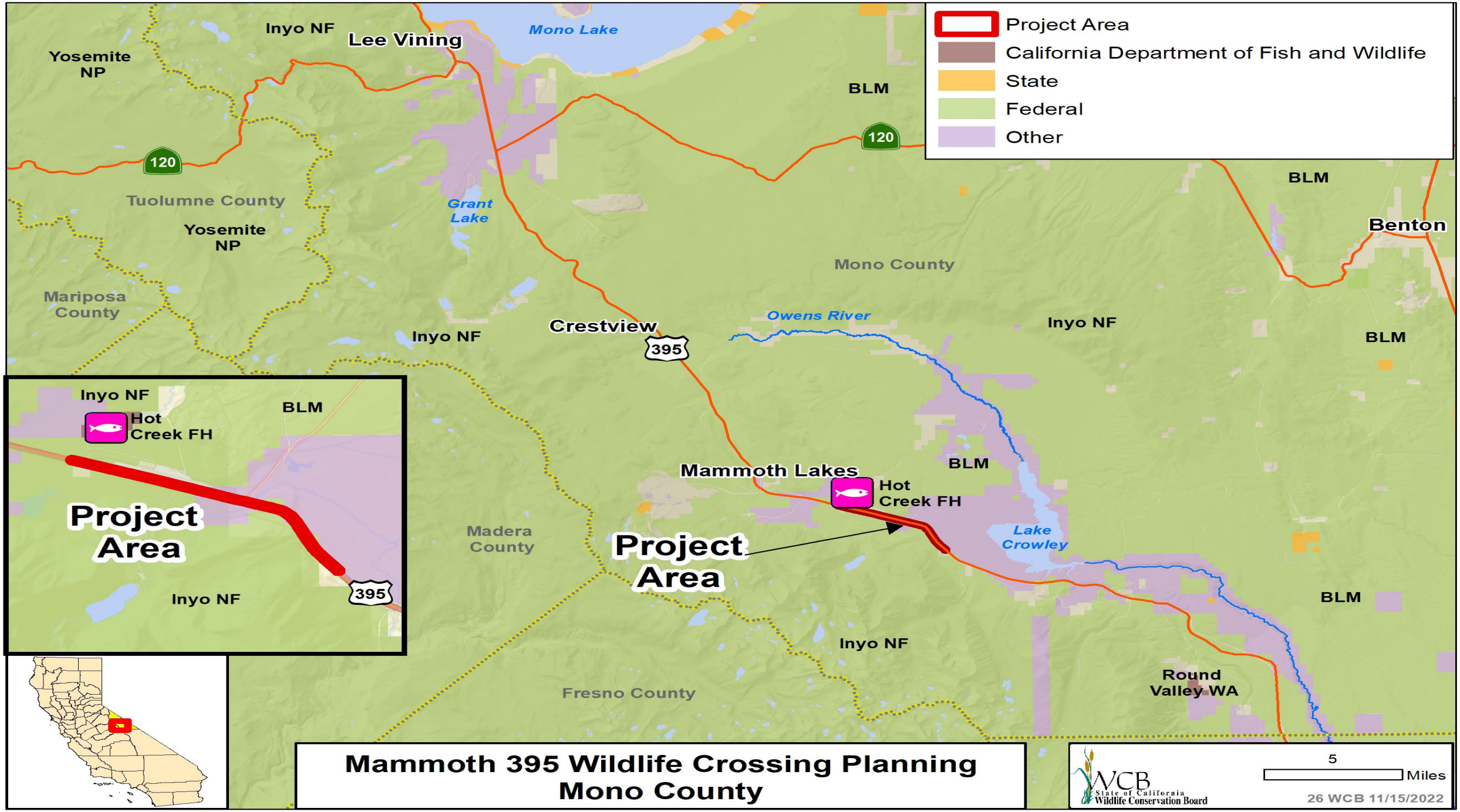
Slide 4

Proposed site of secondary channel and “oak island”. The area shown is reclaimed vineyard donated by the landowner.

25. Bale Slough - Bear Creek Tributary Restoration

Slide 5

Examples of restored conditions on the Napa River, June 2022. Credit Napa RCD.


Project Area
California Department of Fish and Wildlife
State
Federal
Other
Inyo NF
Lee Vining
Mono Lake
Yosemite NP
BLM
120
Tuolumne County
Grant Lake
Benton
Mono County
Mariposa County
Owens River
Crestview
395
Inyo NF
BLM
Hot Creek FH
Project Area
Mammoth Lakes
Madera County
Lake Crowley
Fresno County
Round Valley WA
Mammoth 395 Wildlife Crossing Planning
Mono County
WCB State of California Wildlife Conservation Board
5
Miles
26 WCB 11/15/2022

26. Mammoth 395 Wildlife Crossing Planning

Slide 1

- Eastern Sierra Nevada Region
  - Alpine meets high desert
  - Abundant wildlife
- Mule Deer Migration
  - Summer in High Sierra feeding grounds
  - Winter in lowlands
- Popular recreational and tourist destination
  - Hiking and camping
  - Hunting and fishing
  - Sightseeing

Eastern Sierras

Photo: CDFW

26. Mammoth 395 Wildlife Crossing Planning

Slide 2

Project Location

- U.S. Highway 395 Between Crowley Lake and Town of Mammoth Lakes
  - Worst Wildlife-Vehicle Collision hot spot in the Eastern Sierra Nevada
  - Annual Average of 57 Deer-Vehicle Collisions
- 55% Decline in Casa Diablo Mule Deer Herd Since 2014
- NFWF 2020 California State Action Plan
  - Area identified as a priority mule deer migration corridor
- Listed on California Department of Fish and Wildlife Barrier Priorities List
  - Mule deer
  - Mountain lion
  - Black bear
  - Sage grouse

26. Mammoth 395 Wildlife Crossing Planning
Slide 3

U. S. Highway 395 in Project Area

Photo: Google Maps

26. Mammoth 395 Wildlife Crossing Planning

Slide 4

Culvert Under U. S. Highway 395

Multifaceted Approach

- 18 Miles of Wildlife Exclusion Fencing
  - Wildlife jump-outs
  - Cattleguards
- Undercrossing Improvements
  - One existing and construction of three new undercrossings
- Construction of Two Wildlife Overcrossings
- Intelligent Transportation Systems Elements (i.e., flashing beacons).

Photo: WCB

26. Mammoth 395 Wildlife Crossing Planning

Slide 5

Mule Deer

Photo: CDFW

Mountain Lion

Photo: CDFW

Project Elements

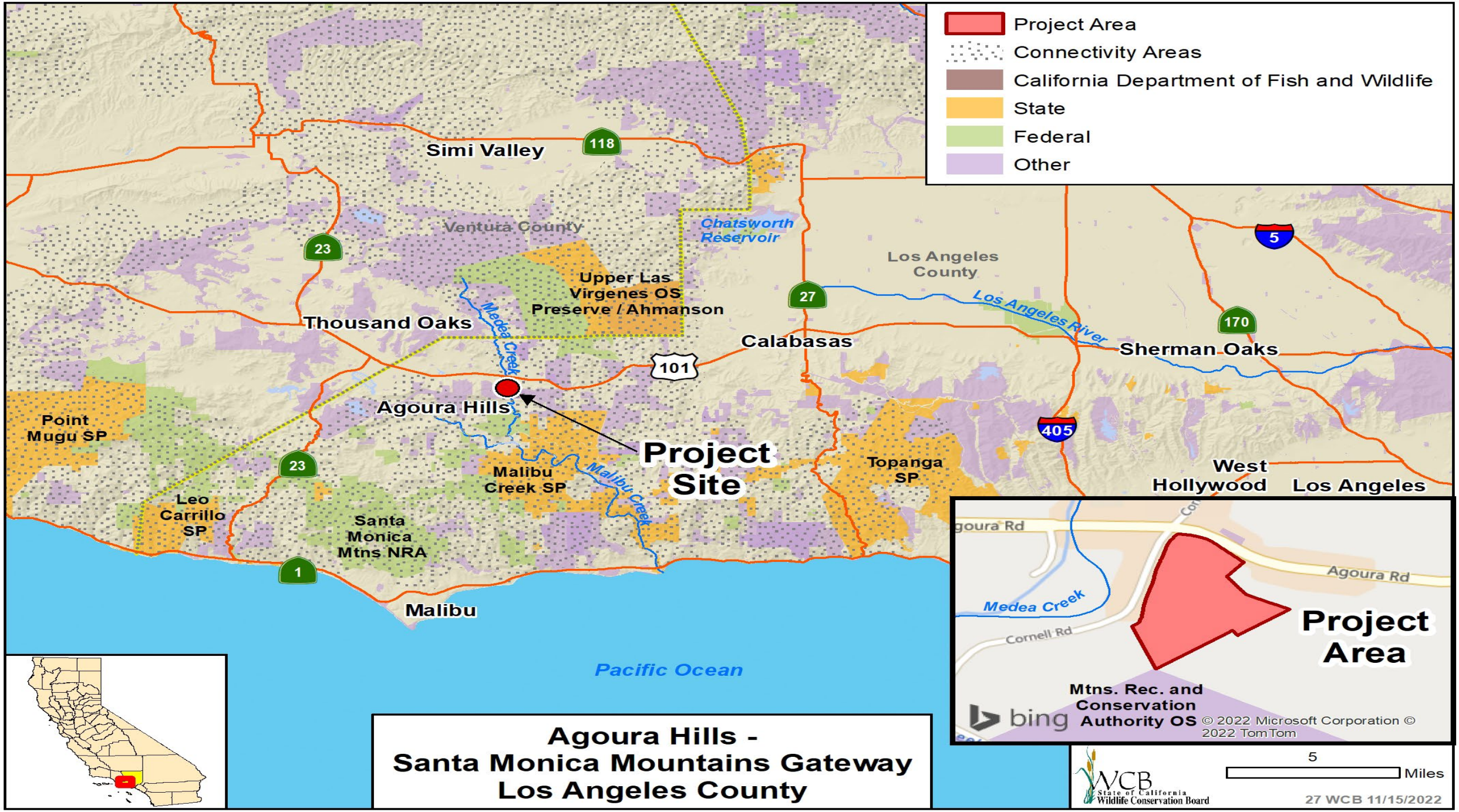
- Technical Studies and Field Surveys
  - Biological, cultural, historical, visual, and paleontological resources
- Environmental Review
  - CEQA and NEPA documents
  - Eastern Sierra Wildlife Stewardship Team review
  - Public review and meeting
- Designs
  - 45% level of design for project components
  - Caltrans Project Report

Black Bear

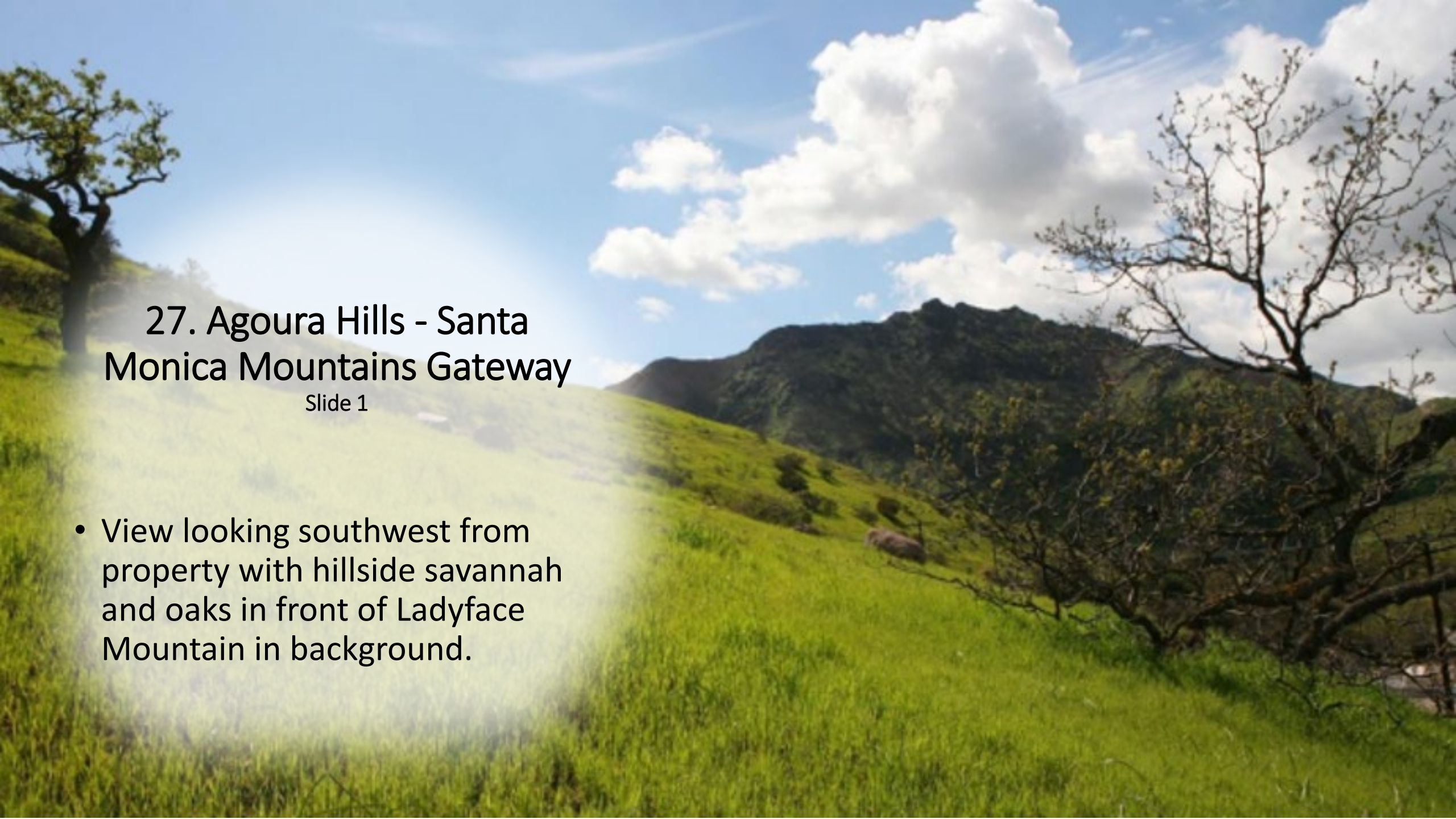
Photo: CDFW

Sage Grouse

Photo: CDFW



Agoura Hills - Santa Monica Mountains Gateway
Los Angeles County



27. Agoura Hills - Santa Monica Mountains Gateway

Slide 1

- View looking southwest from property with hillside savannah and oaks in front of Ladyface Mountain in background.

27. Agoura Hills - Santa Monica Mountains Gateway

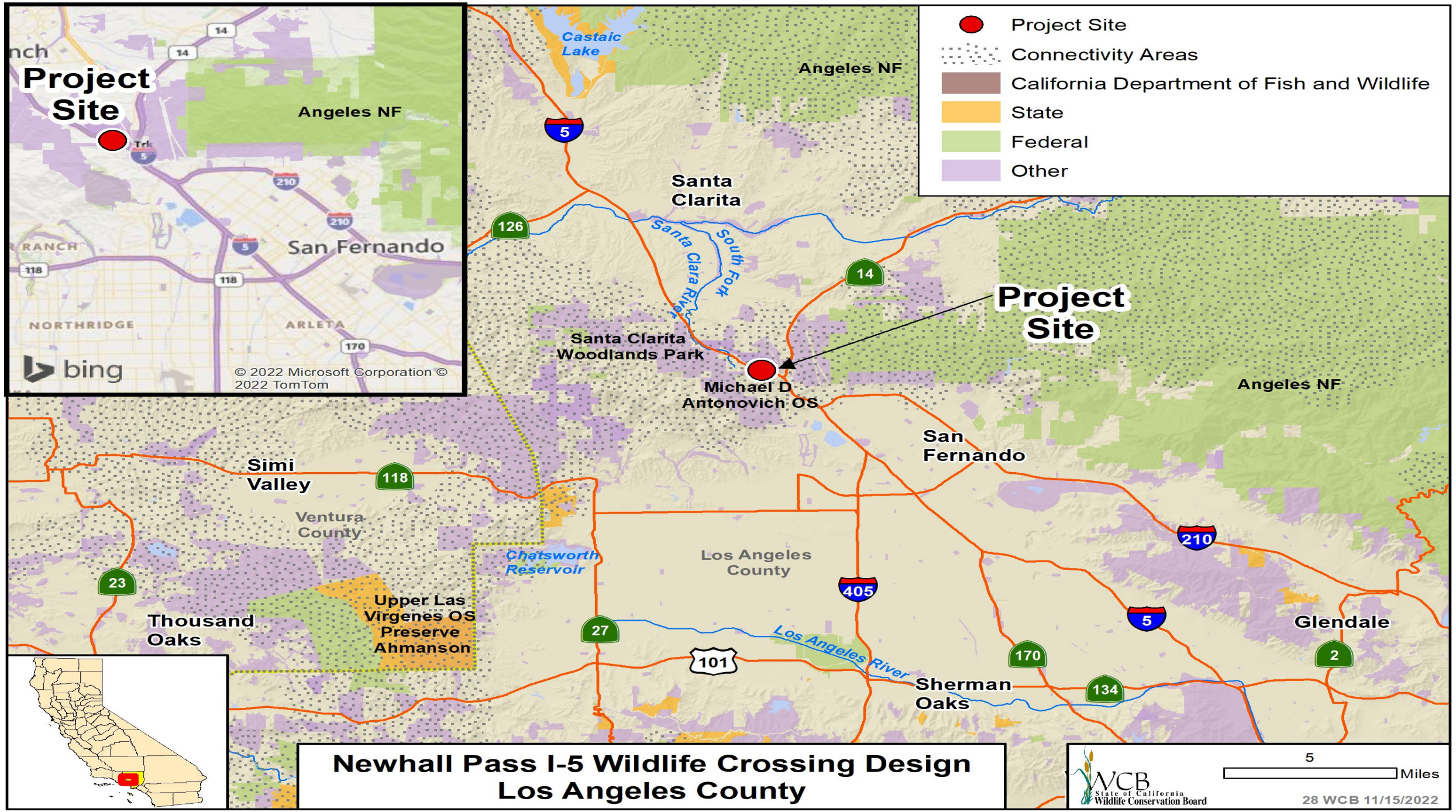
Slide 2

- Looking southeast up short drainage on property with blooming wildflowers and Dudleya. Subject property goes to ridgeline and MRCA's Triangle Ranch is beyond ridgeline.

27. Agoura Hills - Santa Monica Mountains Gateway

Slide 3

Aerial overview looking south at subject property. Commercial development and highway 101 to the south.


Project Site
Angeles NF
San Fernando
© 2022 Microsoft Corporation © 2022 TomTom
Project Site
Connectivity Areas
California Department of Fish and Wildlife
State
Federal
Other
Castaic Lake
Angeles NF
Santa Clarita
Santa Clara River
South Fork
Santa Clarita Woodlands Park
Michael D Antonovich OS
Project Site
Angeles NF
San Fernando
Simi Valley
Ventura County
Chatsworth Reservoir
Los Angeles County
Upper Las Virgenes OS Preserve Ahmanson
Thousand Oaks
Los Angeles River
Sherman Oaks
Glendale
Newhall Pass I-5 Wildlife Crossing Design
Los Angeles County
WCB State of California Wildlife Conservation Board
5 Miles
28 WCB 11/15/2022

28. Newhall Pass I-5 Wildlife Crossing Design

Slide 1

Newhall Pass

- Santa Susana Mountains
  - Oak woodlands and chapparal
  - Provide connectivity to the Santa Monica Mountains
- San Gabriel Mountains
  - 346,177 acres protected by the San Gabriel Mountains National Monument
  - High level of biodiversity
- Major Transportation Corridor
  - Interstate 5 (I-5)
  - State Route 14 (SR 14)

Project Location

28. Newhall Pass I-5 Wildlife Crossing Design

Slide 2

Interstate 5 at Newhall Pass

Photo: WCB

28. Newhall Pass I-5 Wildlife Crossing Design

Slide 3

Photo: CDFW

- California Essential Connectivity Area
- Regional Importance
  - Rim of the Valley Corridor
  - Los Angeles County Significant Ecological Areas
- I-5 at Newhall Pass Listed on California Department of Fish and Wildlife Barrier Priorities List (Barrier W047)
  - Mountain Lions
  - Mule Deer

28. Newhall Pass I-5 Wildlife Crossing Design

Slide 4

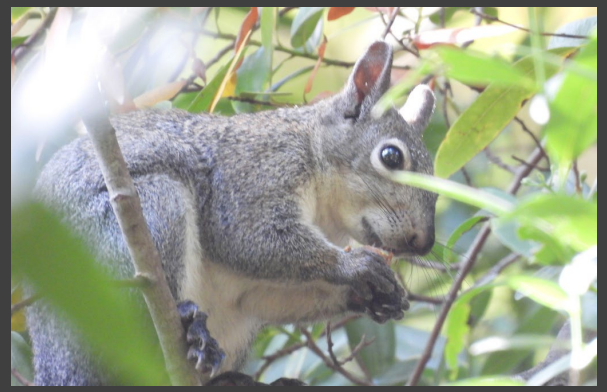
Project Elements

- Public Outreach
- Feasibility Study and Identification of Alternatives
- 30% Designs
- 60% Designs
- Environmental Review
- Caltrans Project Initiation Documentation

Photo: WCB

28. Newhall Pass I-5 Wildlife Crossing Design

Slide 5



Western Gray Squirrel

Photo: George Afghan, www.inaturalist.org

California Quail

Photo: Taylor, www.inaturalist.org

Project Benefits

- Reduce risk of mountain lion extirpation due to inbreeding
- Improve habitat connectivity for several sensitive species
- Reduction of vehicle and wildlife collisions
- Increase climate change resilience

Greater Roadrunner

Photo: Jake Scott, www.inaturalist.org

American Badger

Photo: Chris Fisher, www.inaturalist.org

29. 2023 Board Meeting Dates

- Thursday, February 16, 2023, 10:00 a.m.
- Thursday, May 25, 2023, 10:00 a.m.
- Thursday, August 24, 2023, 10:00 a.m.
- Thursday, November 16, 2023, 10:00 a.m.

Stay Safe and Healthy, Enjoy the Rest of Your Day!

Next Board meeting – February 16, 2023, 10:00 am – CNRA HQ

Trinity Alps