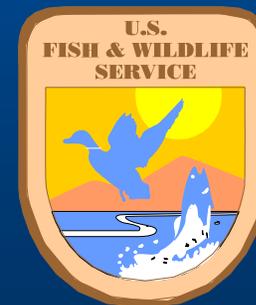


Central Valley Project Improvement Act (CVPIA) Habitat Restoration Program

U.S. Department of the Interior



Management of the HRP

Co-Managers

John Thomson BOR

Caroline Prose FWS



Section 3406(b)(1) “other” Habitat Restoration Program

- **“...in the course of developing and implementing this program the Secretary shall make all reasonable efforts consistent with the requirements of this section to address other identified adverse environmental impacts of the CVP not specifically enumerated in this section.”**

Objectives of HRP

- **Protect and restore native habitats impacted by CVP.**
- **Stabilize and improve populations of native species impacted by CVP. Initial focus is on listed species.**
- **Minimize conflicts with current and ongoing CVP projects and programs.**
- **Effectively coordinate with Bay-Delta Authority Ecosystem Restoration Strategy**



Technical Team

- Bureau of Reclamation
- Fish and Wildlife Service
- California Department of Fish and Game



Proposal Selection Criteria

- CVP nexus
- Program priority
- Listed species baseline benefits
- Species endangerment
- Proposed/candidate species benefits
- Target species (federal species of concern)
- State listed species
- Ecosystem or multiple species benefits

Proposal Selection Criteria (cont...)

- Cumulative & long-term benefits
- Project connectivity
- Partnerships
- Enhancement of biodiversity
- Level of CVP-related impacts
- Cost effectiveness
- Immediacy (degree of imminent threat to habitats and species)

Current Program Priorities

- Reflect the most current evaluation of species needs and habitat trends
- Are complimentary to other ongoing actions within the Central Valley
- Take into account historical levels of investment and future threats to specific ecosystems
- Six current priorities identified

Priority #1: Serpentine and other unique topo-edaphic [area relating to soils] habitats supporting endemic species, such as the bay checkerspot butterfly, in Santa Clara County.



Serpentine soils plants on Coyote Ridge



Bay checkerspot butterfly (FT)



Santa Clara Valley dudleya (FE)



“Most beautiful” jewelflower (FSC)

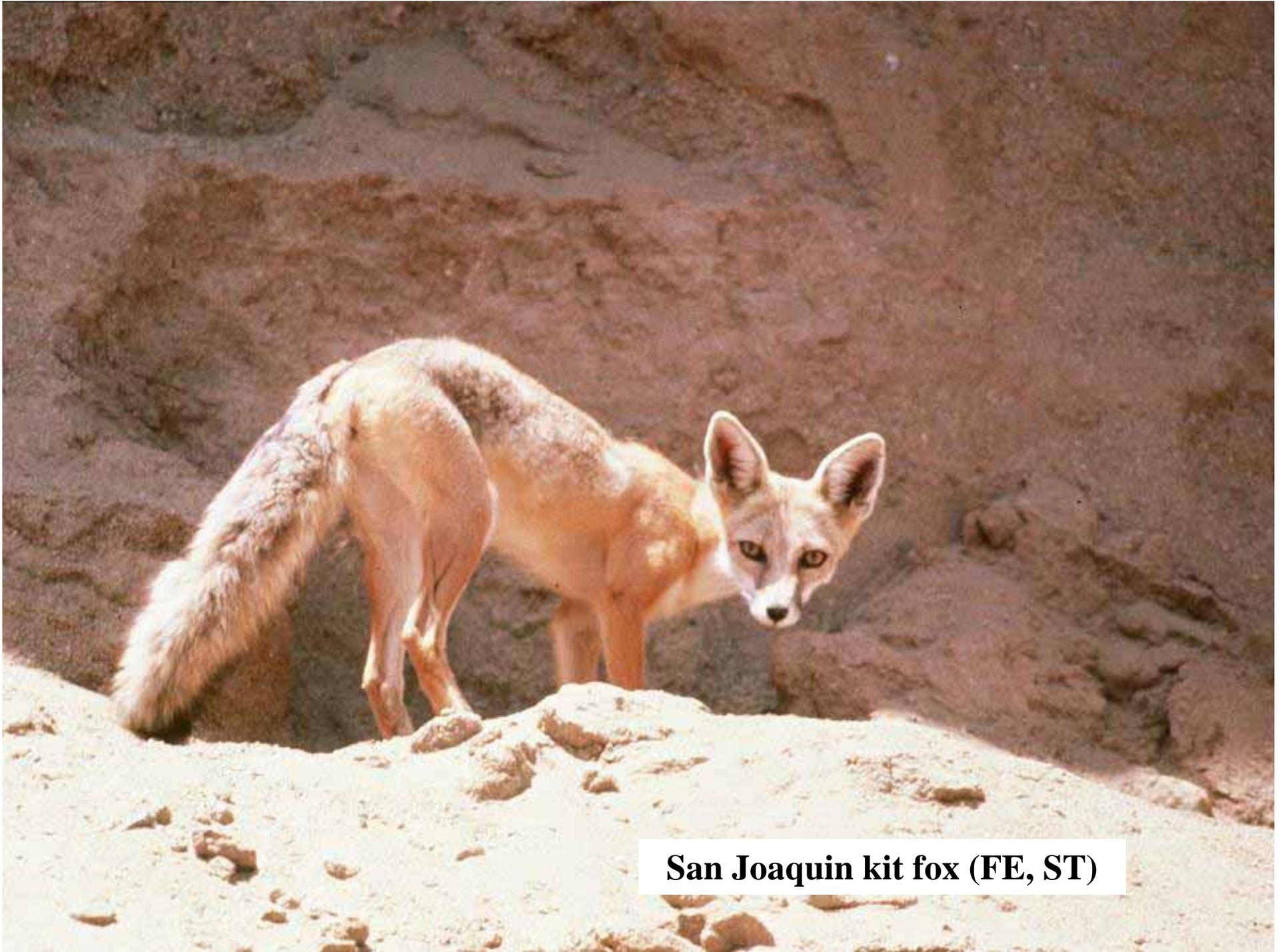
Priority 2: Grassland, alkali sink, and alkali scrub in Central Valley, with emphasis on the Tulare Basin, and on habitat linkages for the SJ kit fox, blunt-nosed leopard lizard, Tipton kangaroo rat, etc.



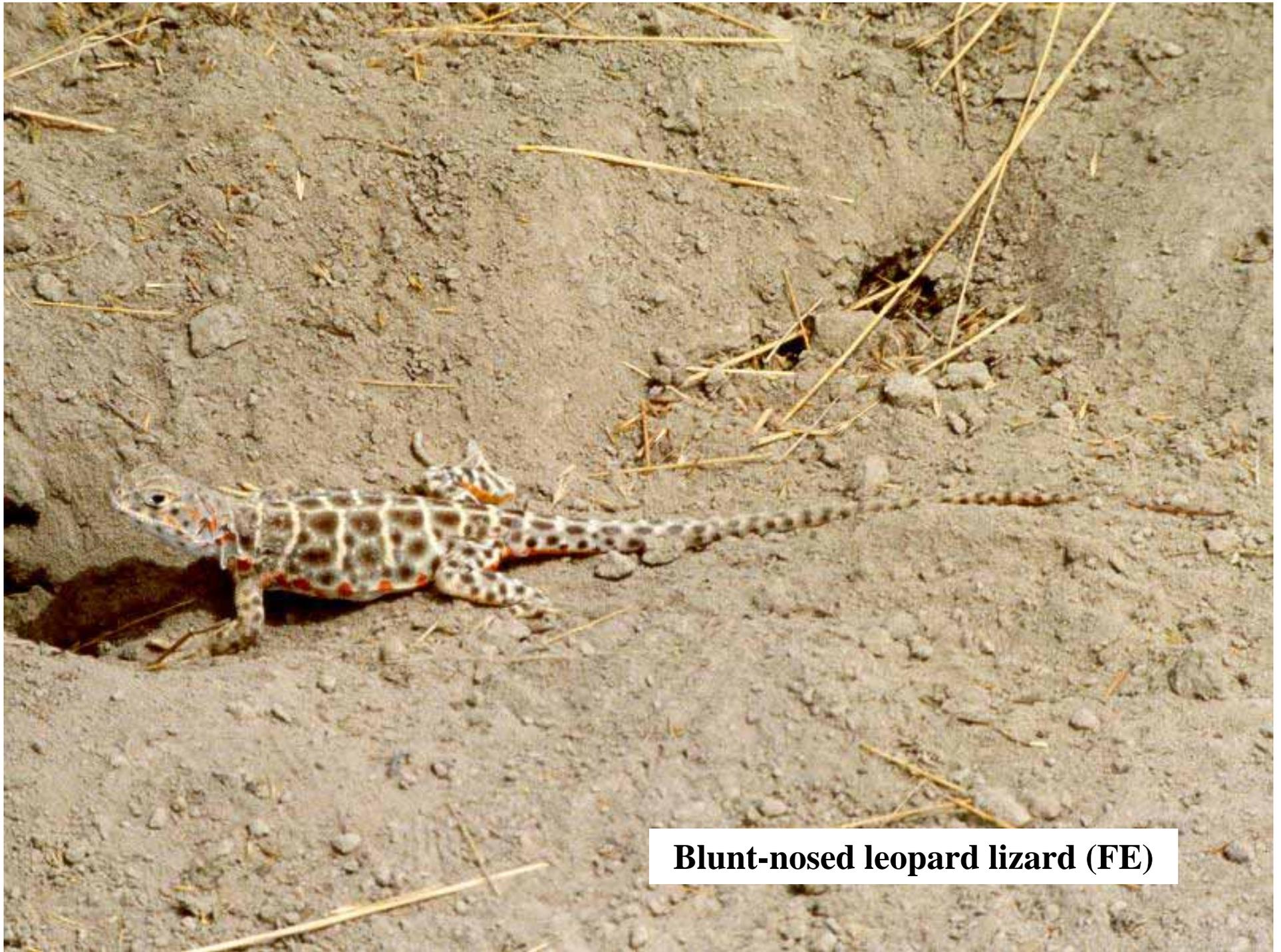
Alkali scrub habitat



Alkali scrub habitat



San Joaquin kit fox (FE, ST)

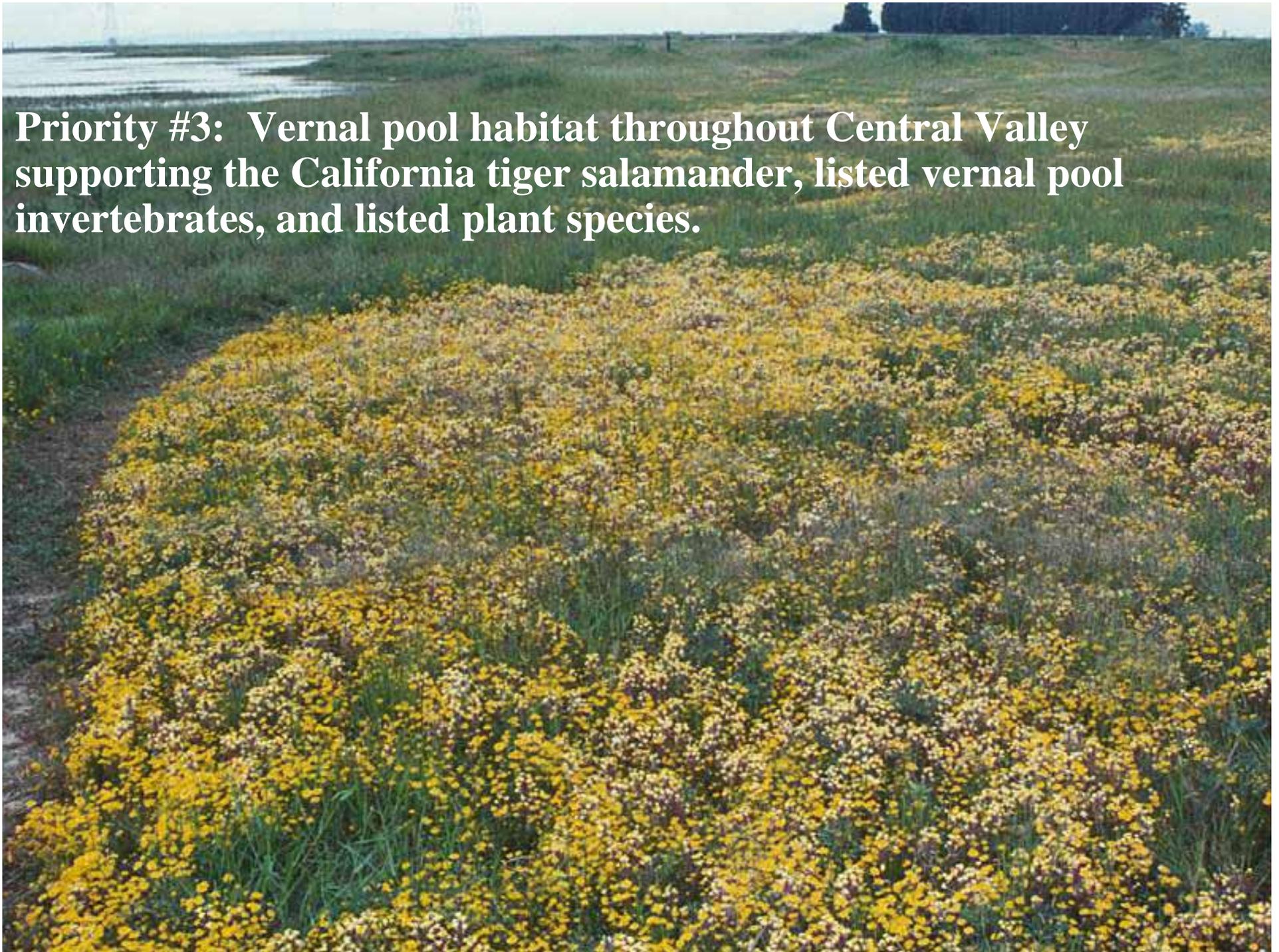


Blunt-nosed leopard lizard (FE)



Palmate-bracted bird's beak (FE)

Priority #3: Vernal pool habitat throughout Central Valley supporting the California tiger salamander, listed vernal pool invertebrates, and listed plant species.





California tiger salamander (FT)

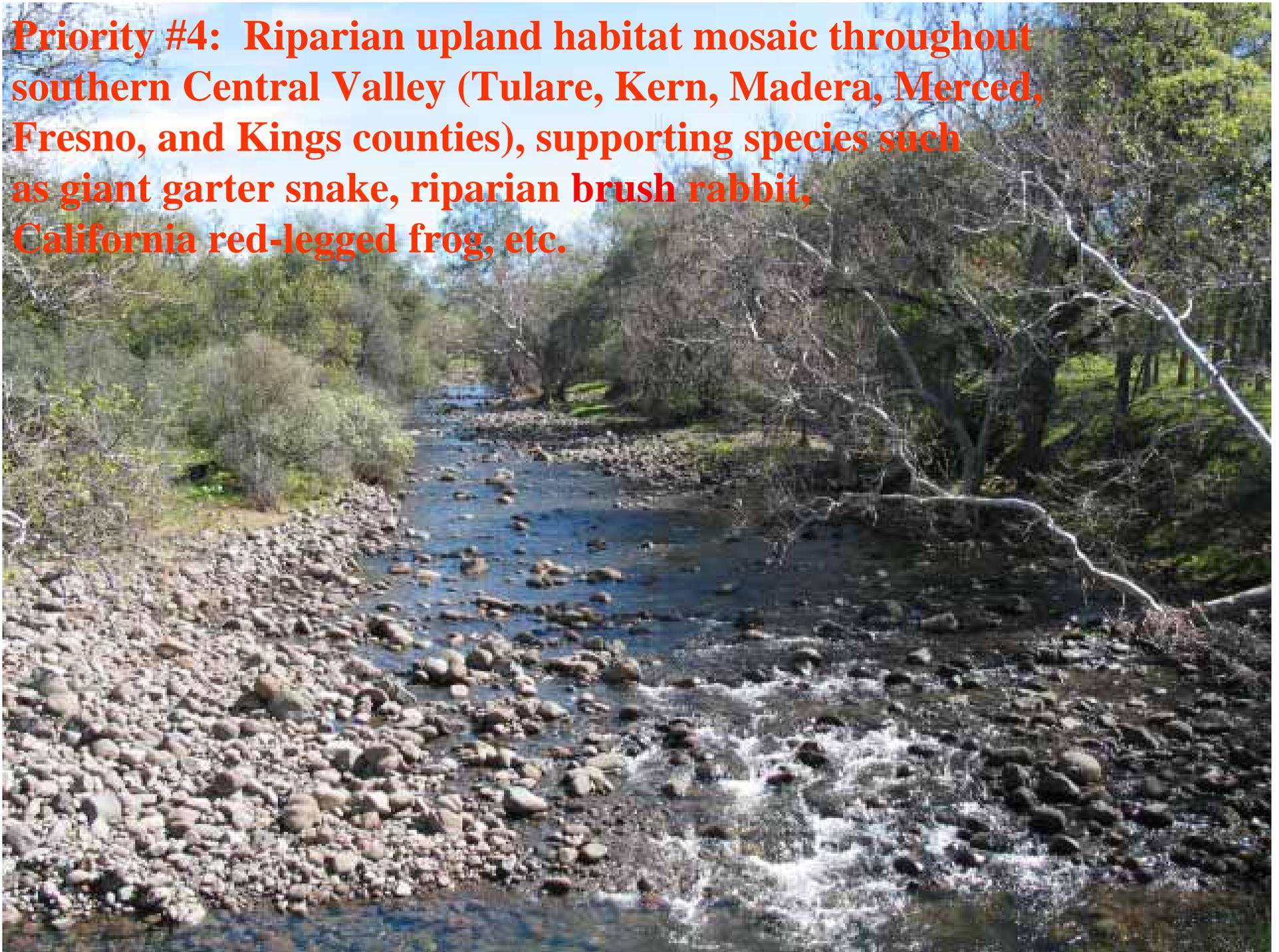


Vernal pool fairy shrimp (FT)



Fleshy owl's clover (FT)

Priority #4: Riparian upland habitat mosaic throughout southern Central Valley (Tulare, Kern, Madera, Merced, Fresno, and Kings counties), supporting species such as giant garter snake, riparian brush rabbit, California red-legged frog, etc.





Giant garter snake (FT)



Riparian brush rabbit (FE)



California red-legged frog (FT)

Priority #5: Habitat protection and management of gabbro soils chaparral habitat in El Dorado County, supporting federally listed plant species, with special emphasis in the southern region of the Pine Hills Preserve.



Gabbro soils chaparral habitat



Stebbins morning glory (FE)

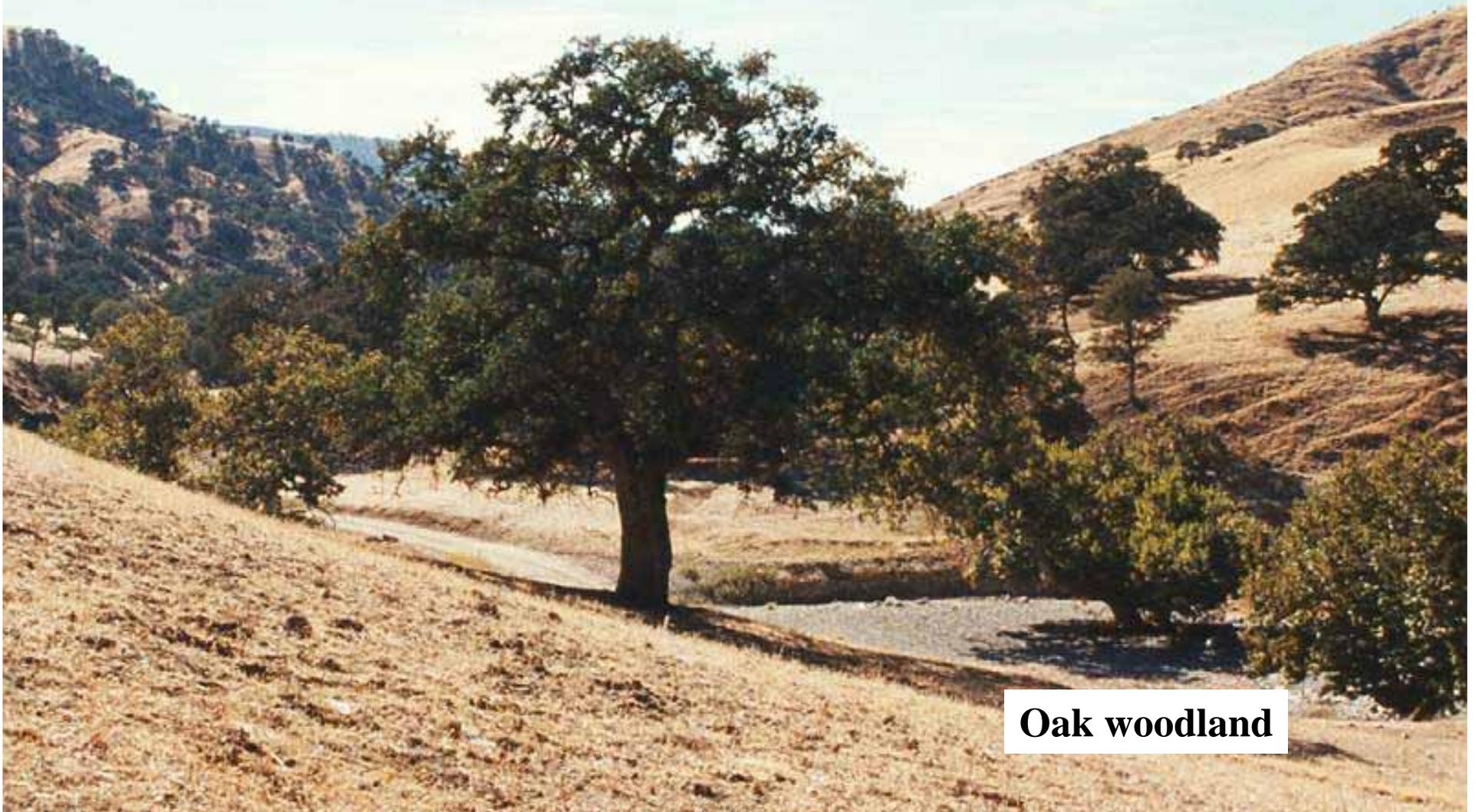


Pine Hill ceanothus (FE)



Pine Hill flannelbush (FE)

Priority #6: Oak woodland habitats found in association with other habitat types discussed above and in the Central Valley.



Oak woodland



Oak woodland

Implementation Activities

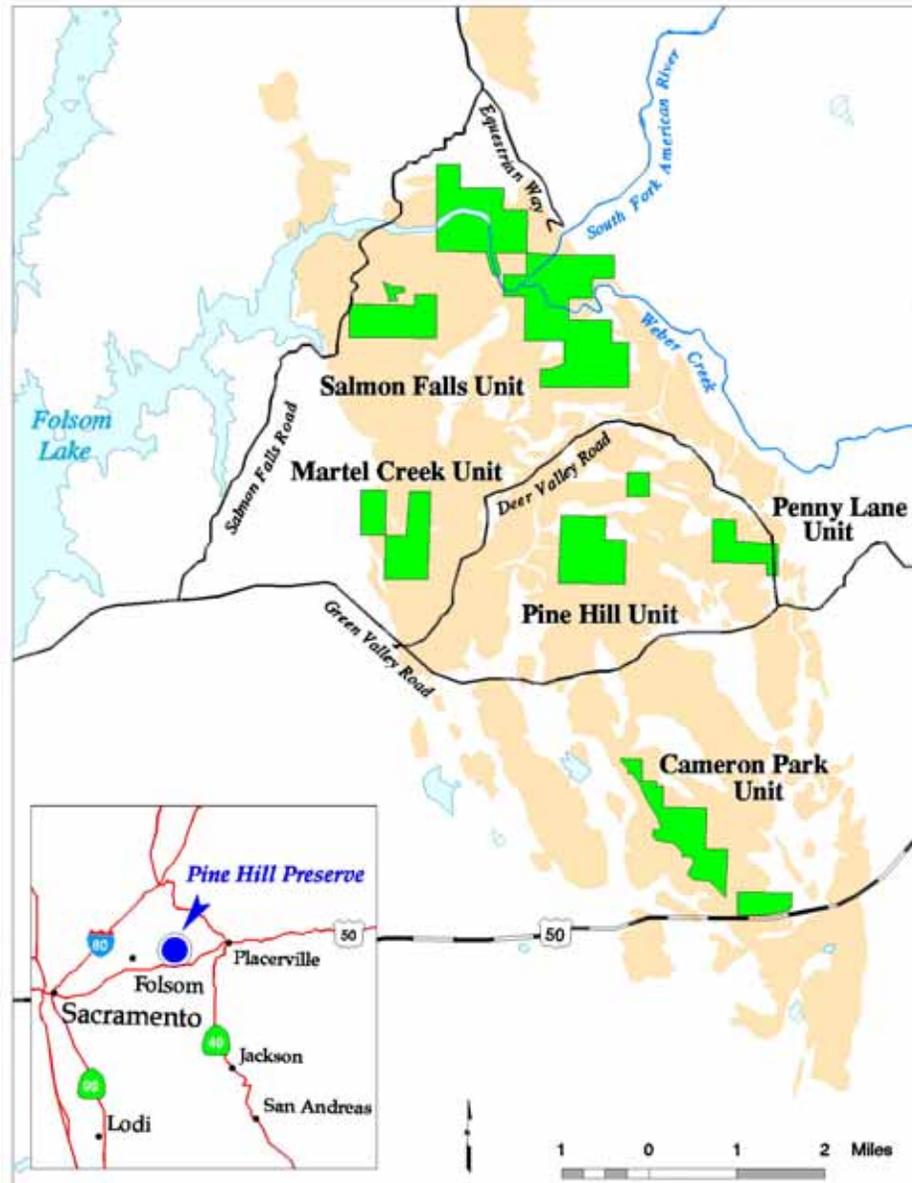
- Acquisition
- Conservation Easement
- Habitat Restoration
- Habitat Management
- Captive Breeding/Reintroduction
- Studies
- Monitoring



Accomplishments to Date

- **Initiated in FY 1996**
- **Project funding to date: \$19.5 million**
- **Currently funded @ \$1.5 million/year**
- **Funded 67 projects since 1996**
 - **~98,000 acres protected (fee title or conservation easement)**
 - **Contributed funding towards six riparian restoration projects (~600 acres)**
 - **Provided primary funding (\$1 million) for riparian brush rabbit captive breeding/reintroduction program**
 - **Funded five management/planning actions related to acquisition/restoration projects**
 - **Funded eighteen surveys/studies addressing listed species impacted by the CVP**





Pine Hill Preserve

- Current Preserve Units
- Gabbro Soils and Project Area

















Projects Funded in FY 2004

Giant Garter Snake Surveys at Colusa NWR	\$88,619
Giant Garter Snake Surveys at SLNWR	135,259
Giant Garter Snake Surveys at Grasslands EA	102,620
Adaptive Vegetation Mgt on Serpentine Soils	32,300
Ohm Property Riparian Restoration	62,500
Drumheller Slough Riparian Restoration	325,000
Ansin Property Acquisition in Carrizo Plain	541,000
Fine Gold Creek Acquisition	350,000
Joint Venture GIS Web Page	31,000
Program Administration	276,702

Total = \$1.945 million*

*includes \$445,000 from prior year's funds

Preliminary Project Funding for FY 2005

Giant Garter Snake Surveys at Colusa NWR	\$114,280
Adaptive Vegetation Mgt on Serpentine Soils	64,800
Sno-bird unit Merced NWR, Vernal Pool Restoration	88,676
SacNWR, Vernal Pool, Alkali Wetlands Restoration	93,524
Kern County, Carrizo Plain Land Acquisition (BLM)	400,000
CA Red-legged Frog Surveys in Placer/El Dorado Co	45,137
Vernal Pool Plant Association Study in Central Valley	163,867
Herbert Preserve, Restoration & Adaptive Management	346,861
Dos Rios Ranch, Working Landscape Conservation Easement	144,334
Program Administration	209,094

Total = \$1,670,573*

*includes \$170,573 from prior year's funds

Future Goals of the HRP

- Continue current funding level of \$1.5 million annually.
- Continue on-going prioritization of species and actions targeted by the HRP.
- Expand outreach and coordination.
- Establish “measurable outcomes” related to past and future actions.
 - Identify habitat and species “mitigation” goals related to “other” CVP impacts.
 - Summarize previous restoration efforts.
 - Implement restoration in areas not previously restored.
- Continue funding and implementation of effective project actions.

Partnerships

- We are more effective working together than working individually

BOR TNC UCD
FWS TPL CSUC
USFS ARC CDFG
NRCS NFWF WCB
BLM CALFED

