

AREAS OF CONSERVATION EMPHASIS ACE VERSION 3.0



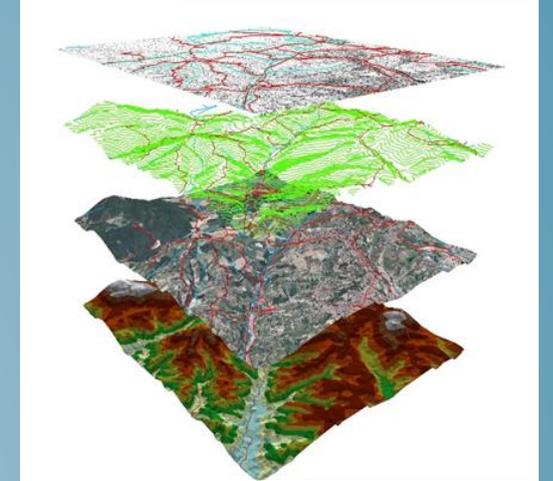
*Biogeographic Data Branch
WCB Meeting, February 22, 2018*

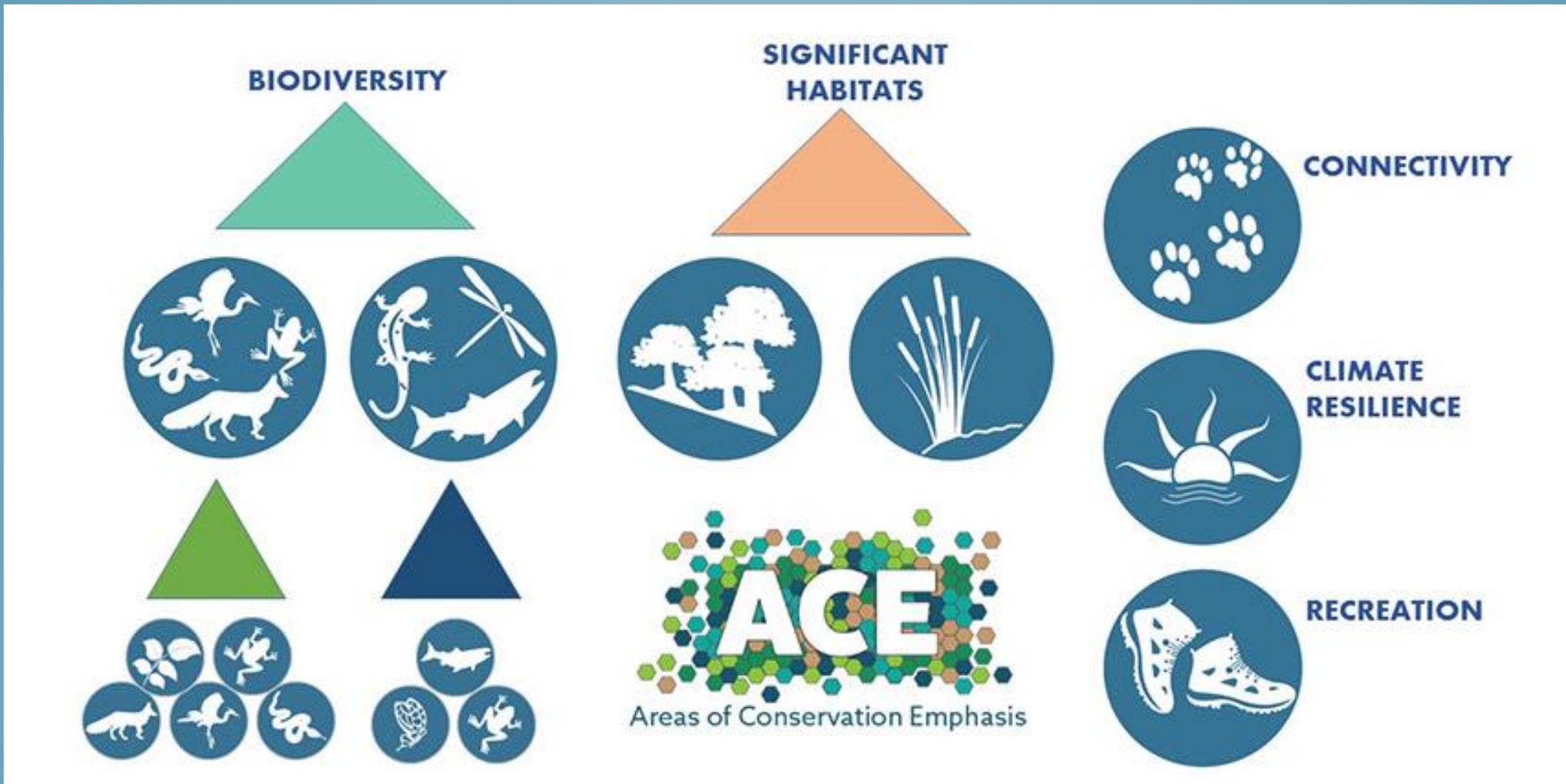


ACE: GOALS AND PURPOSE

<https://www.wildlife.ca.gov/Data/Analysis/ACE>

- Best-available, conservation-relevant spatial data
- Non-regulatory maps and viewer tool
- 2017-2018 update (ACE Version 3.0)
 - Revise and add new models
 - Add 2015 SWAP priorities

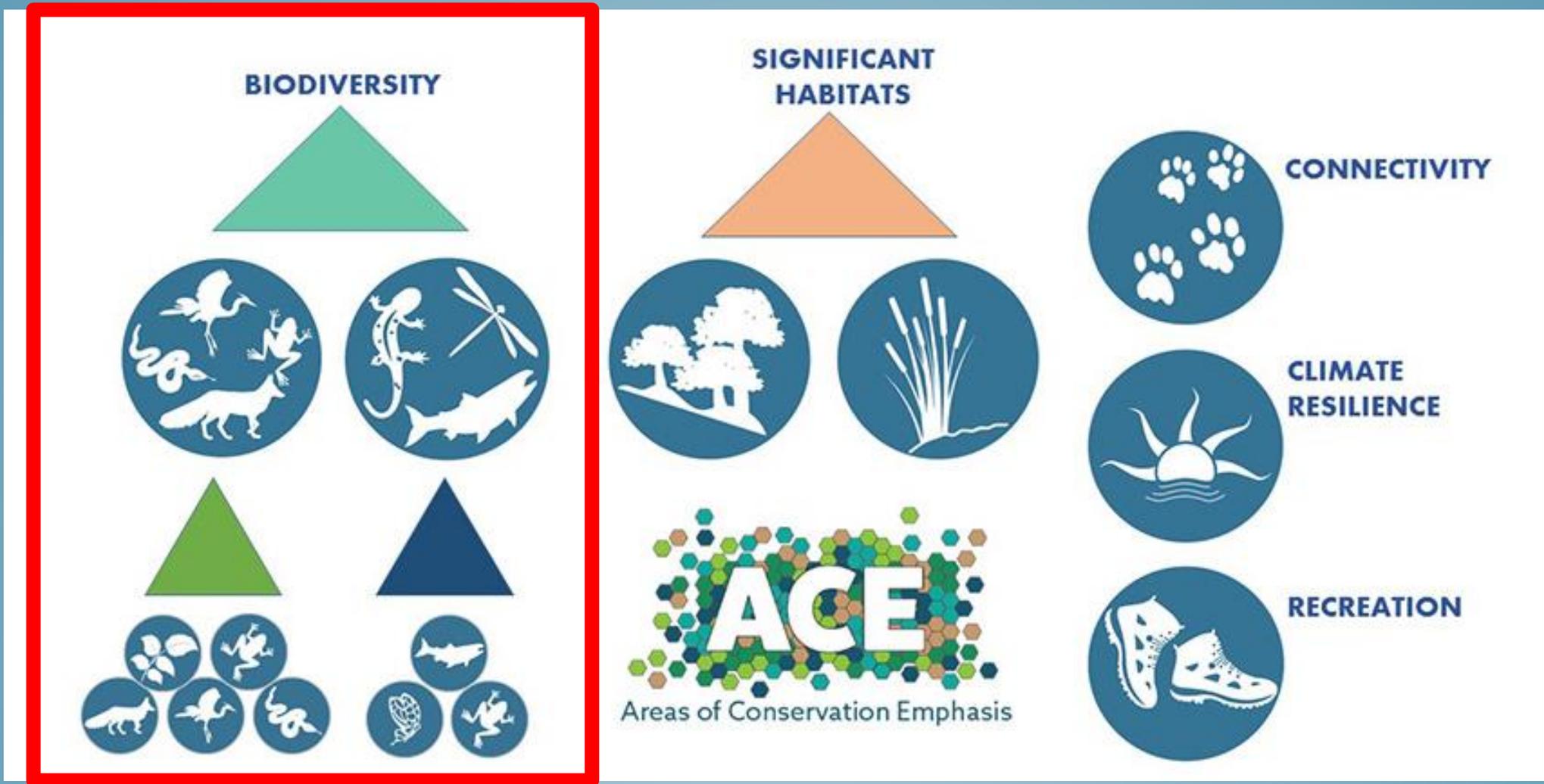




Terrestrial: 2.5 square mile hexagon

Aquatic: HUC 12 watershed

- SWAP and other conservation priorities
- Stressors and land conservation status (overlays)



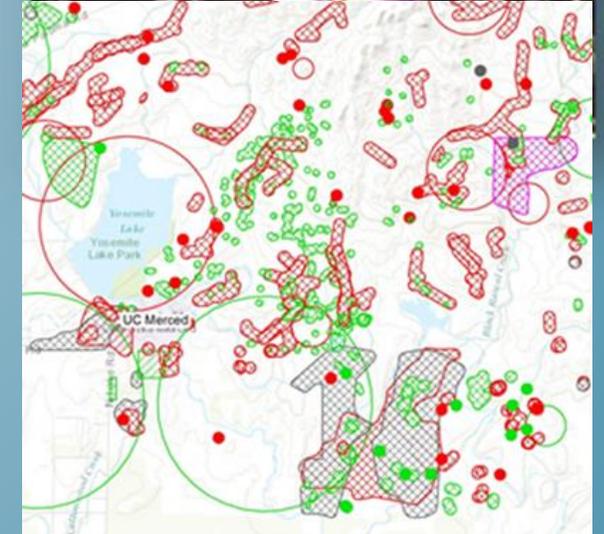
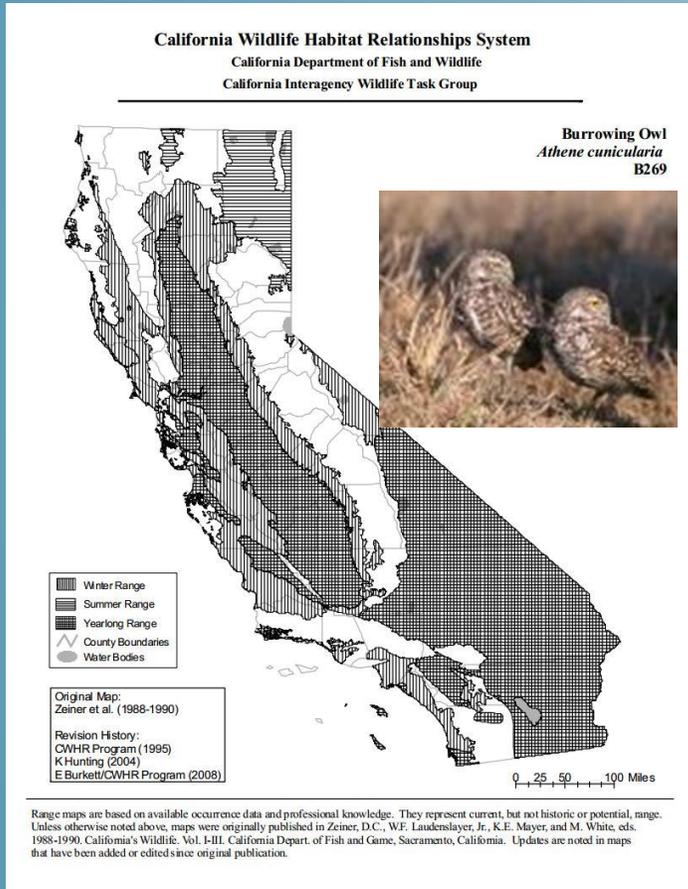
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Species and habitat mapping

California Natural Diversity Database



Vegetation Classification and Mapping

California Wildlife Habitat Relationship System



Add Data: BIOS

Click here to search and see list of datasets

Identify Features

Advanced Tools

Welcome, guest

v3.0.1802

Layer: Terrestrial Species List [ds2700]

Terrestrial Biodiversity

+ Terrestrial Biodiversity Summary [ds2739]

+ Terrestrial Species List [ds2700]

Terrestrial Biodiversity Datasets

Terrestrial Native Richness Datasets

Terrestrial Rarity Datasets

Terrestrial Irreplaceability Datasets

+ Terrestrial Irreplaceability Summary [ds2715]

Irreplaceability By Taxonomic Group

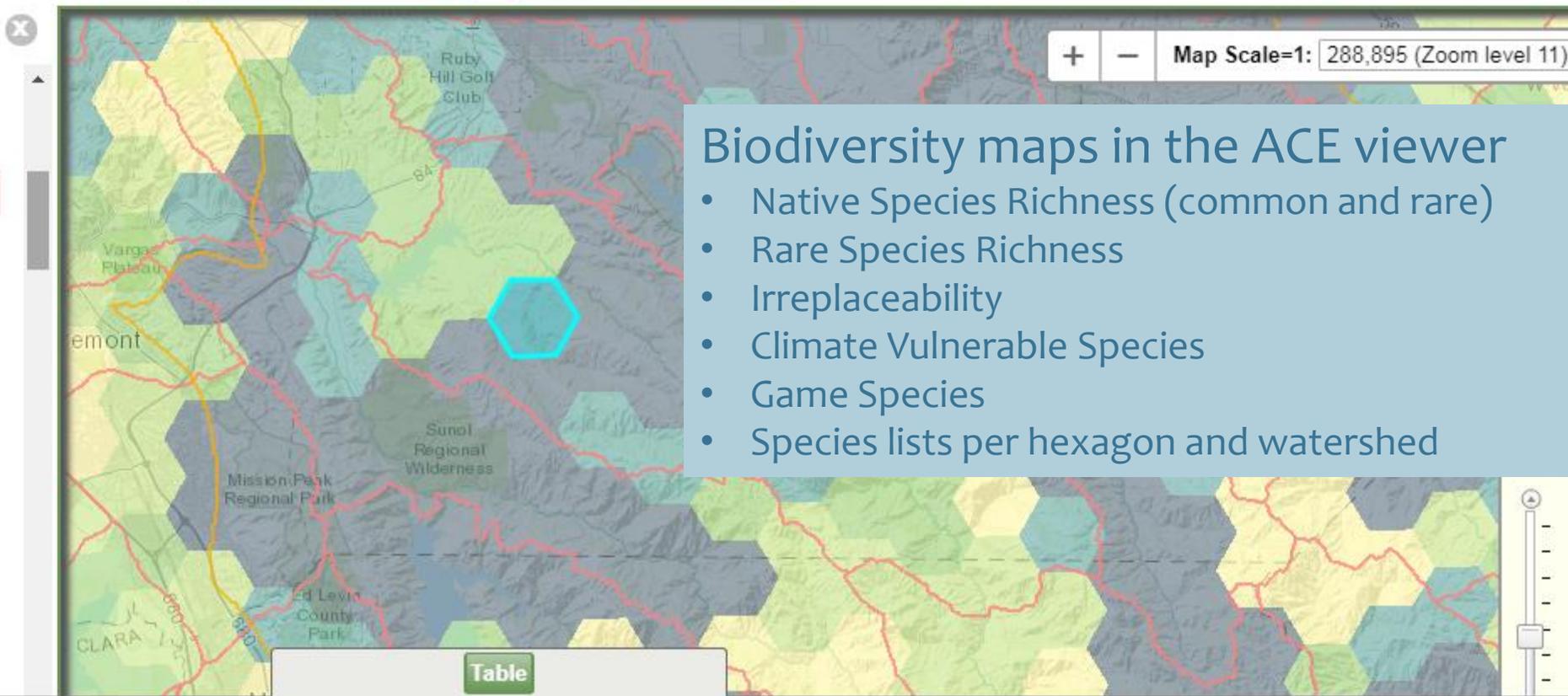
+ Amphibian Irreplaceability [ds2719]

+ Bird Irreplaceability [ds2717]

+ Mammal Irreplaceability [ds2718]

+ Plant Irreplaceability [ds2716]

+ Reptile Irreplaceability [ds2720]

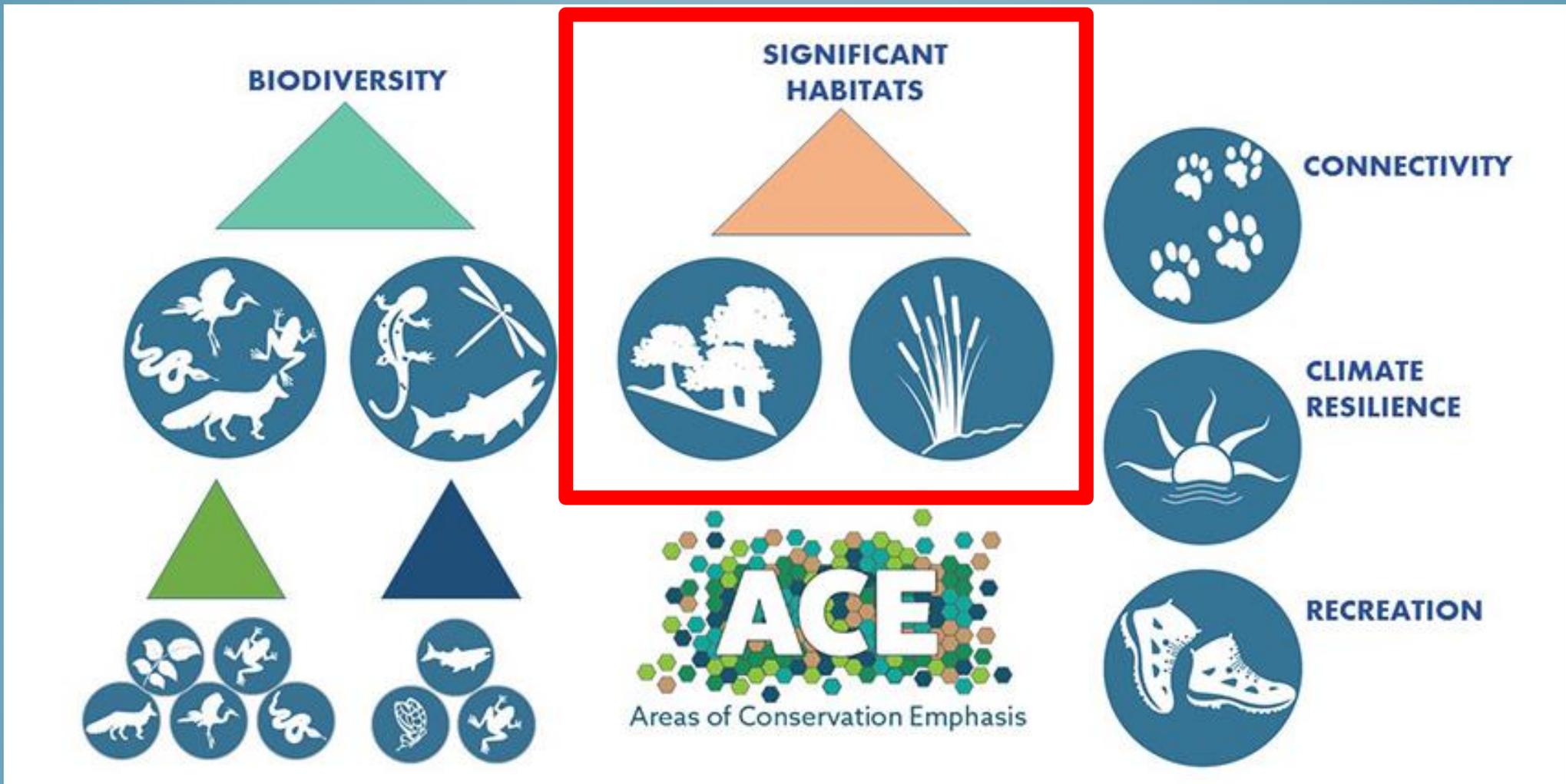


Biodiversity maps in the ACE viewer

- Native Species Richness (common and rare)
- Rare Species Richness
- Irreplaceability
- Climate Vulnerable Species
- Game Species
- Species lists per hexagon and watershed

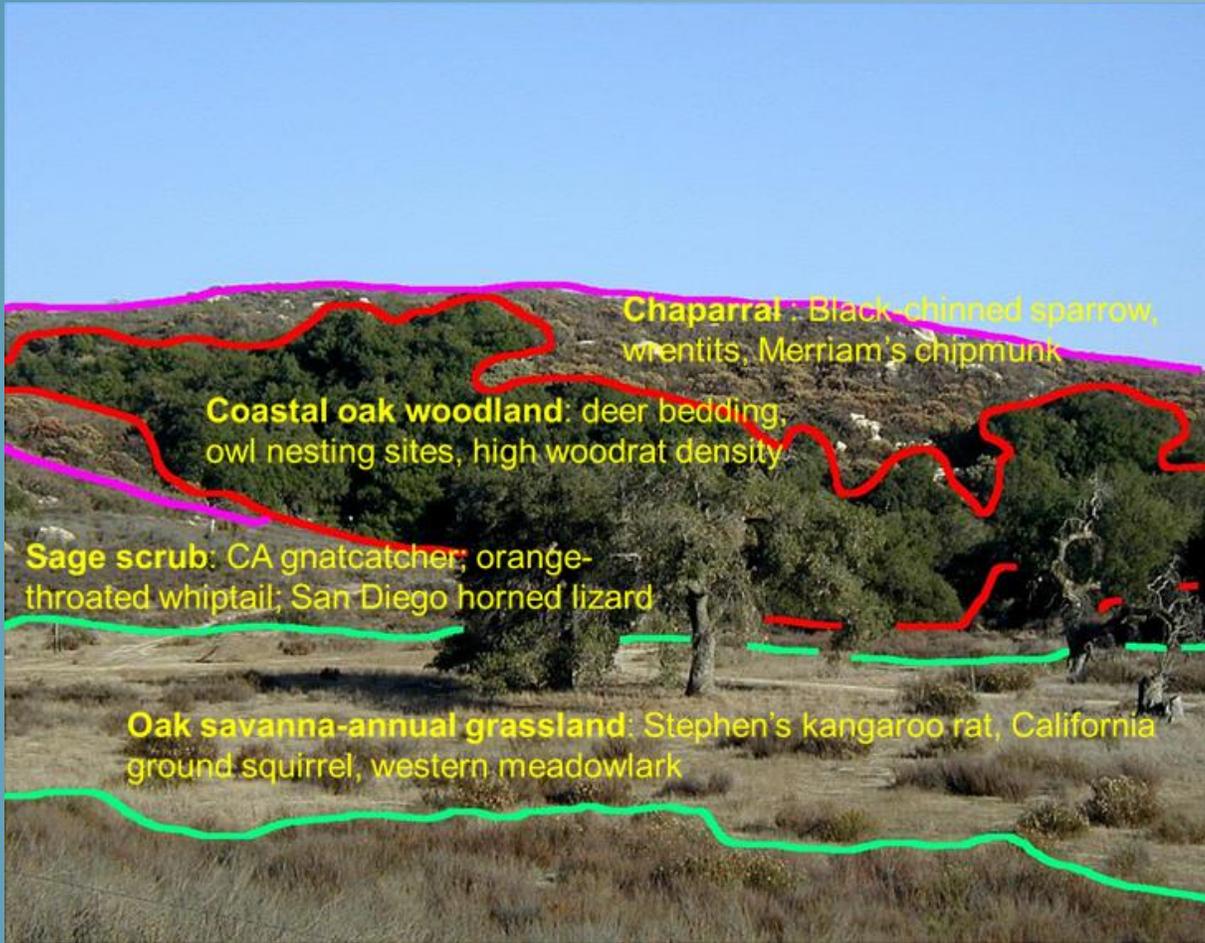
Terrestrial Species List [ds2700] Identified features: 1, Related records: 218

Hex_ID	BioRankEco	Sci_Name	Com_Name	Observation	Model	Rare	Endemic	Climate_Vulnerable	Game	ELMCODE	CWHR_code
7024	5	Accipiter cooperii	cooper's hawk	N	Y			N	N	ABNKC12040	B116
7024	5	Accipiter striatus	sharp-shinned hawk	N	Y			N	N	ABNKC12020	B115
7024	5	Actinemys marmorata	western pond turtle	Y	Y	Y	Y	Y	N	ARAAD02030	R004
7024	5	Actitis macularius	spotted sandpiper	N	Y			N	N	ABNNF04020	B170
7024	5	Aegolius acadicus	northern saw-whet owl	N	Y			Y	N	ABNSR15020	R274



Terrestrial: 2.5 square mile hexagon

Aquatic: HUC 12 watershed



Significant Habitats

Rare vegetation types

Oak Woodlands

Riparian

Freshwater wetlands

Meadows and Emergent Wetlands

Ponds

Vernal Pools

Seeps and Springs

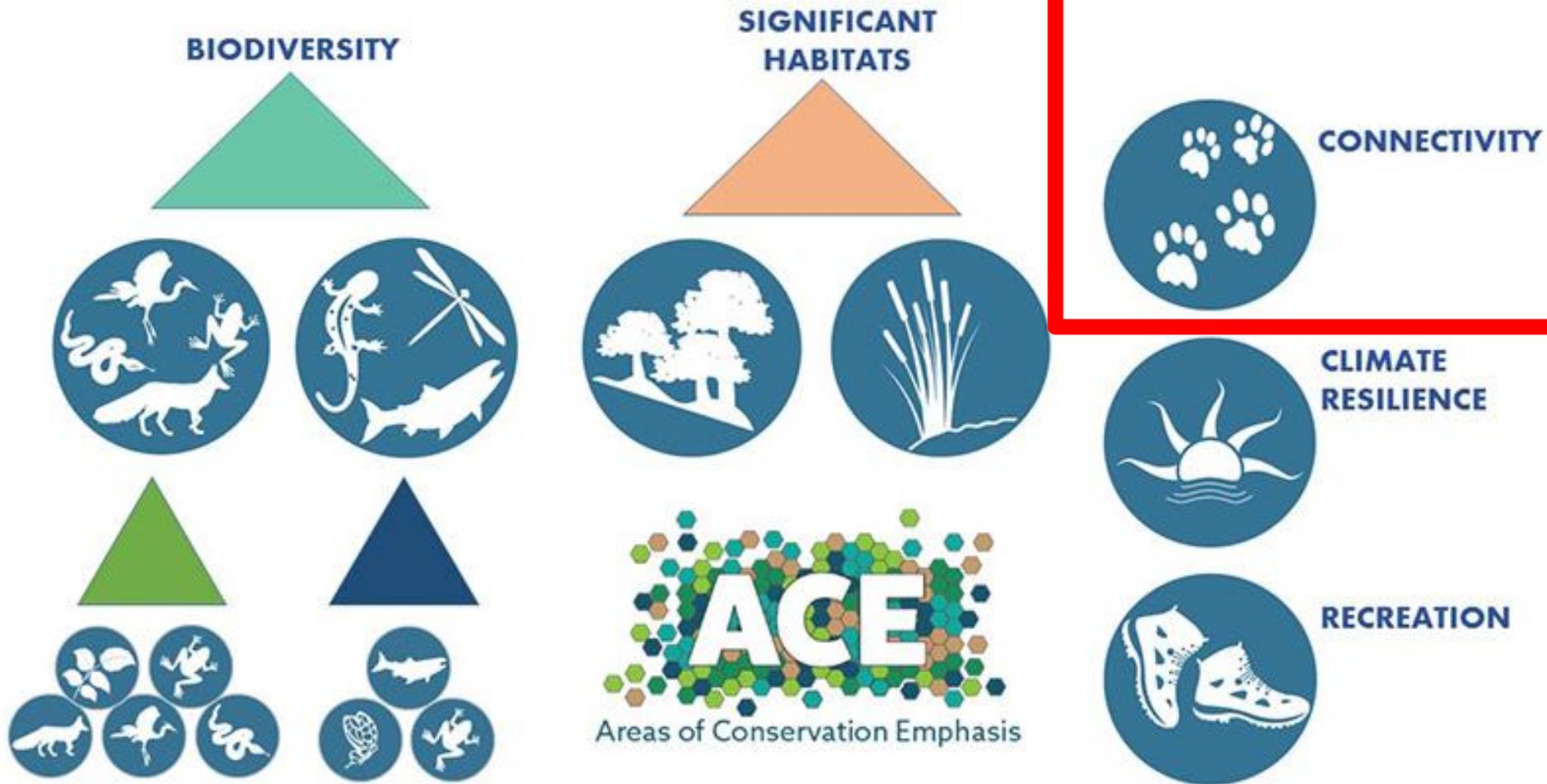
Saline Wetlands

Lakes

Significant Habitat Areas for focal species

Anadromous fish

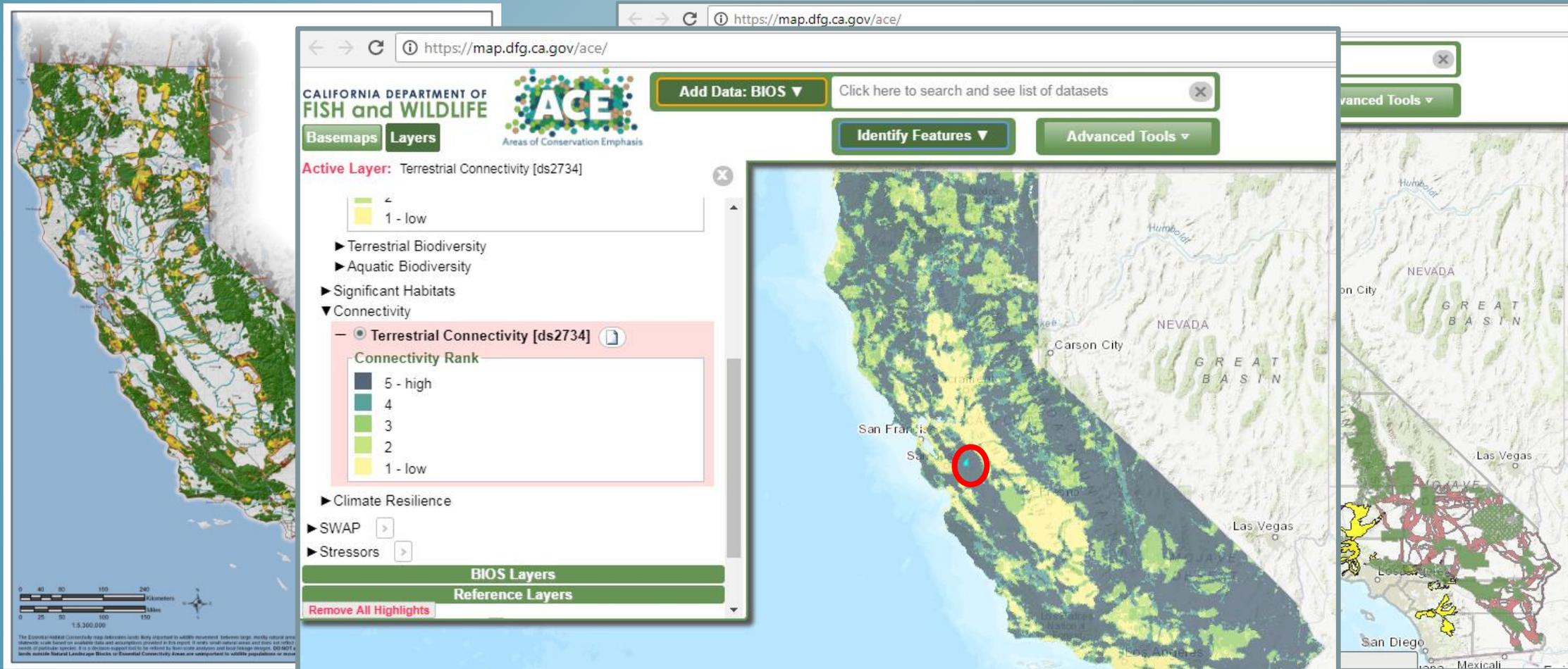
additional species in Phase 2



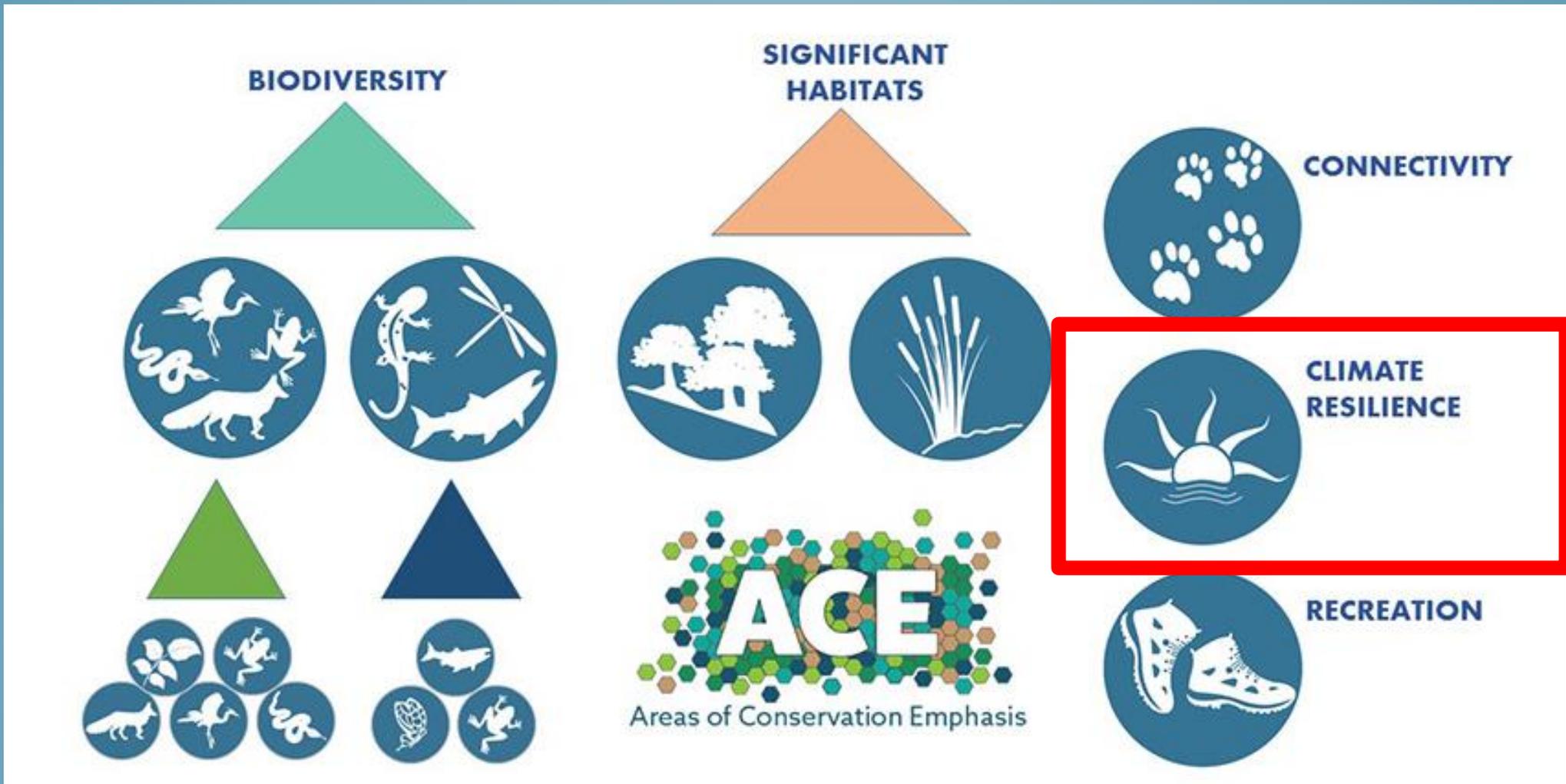
Terrestrial: 2.5 square mile hexagon

California Essential Habitat Connectivity

Regional Connectivity Analyses (11)



Rank	Linkage Rank	Linkage datasets	Natural Landscape Block Rank	Natural Landscape Block Percent	S
5	4	ds852.shp; DS623;	2	0.268461	



Terrestrial: 2.5 square mile hexagon



Add Data: BIOS ▾

ace state

Identify Features ▾

Advanced Tools ▾

Active Layer: Terrestrial Climate Change Resilience [ds2738]

+ Terrestrial Connectivity [ds2734]

▼ Climate Resilience

— ● Terrestrial Climate Change Resilience [ds2738]

Climate Resilience Rank

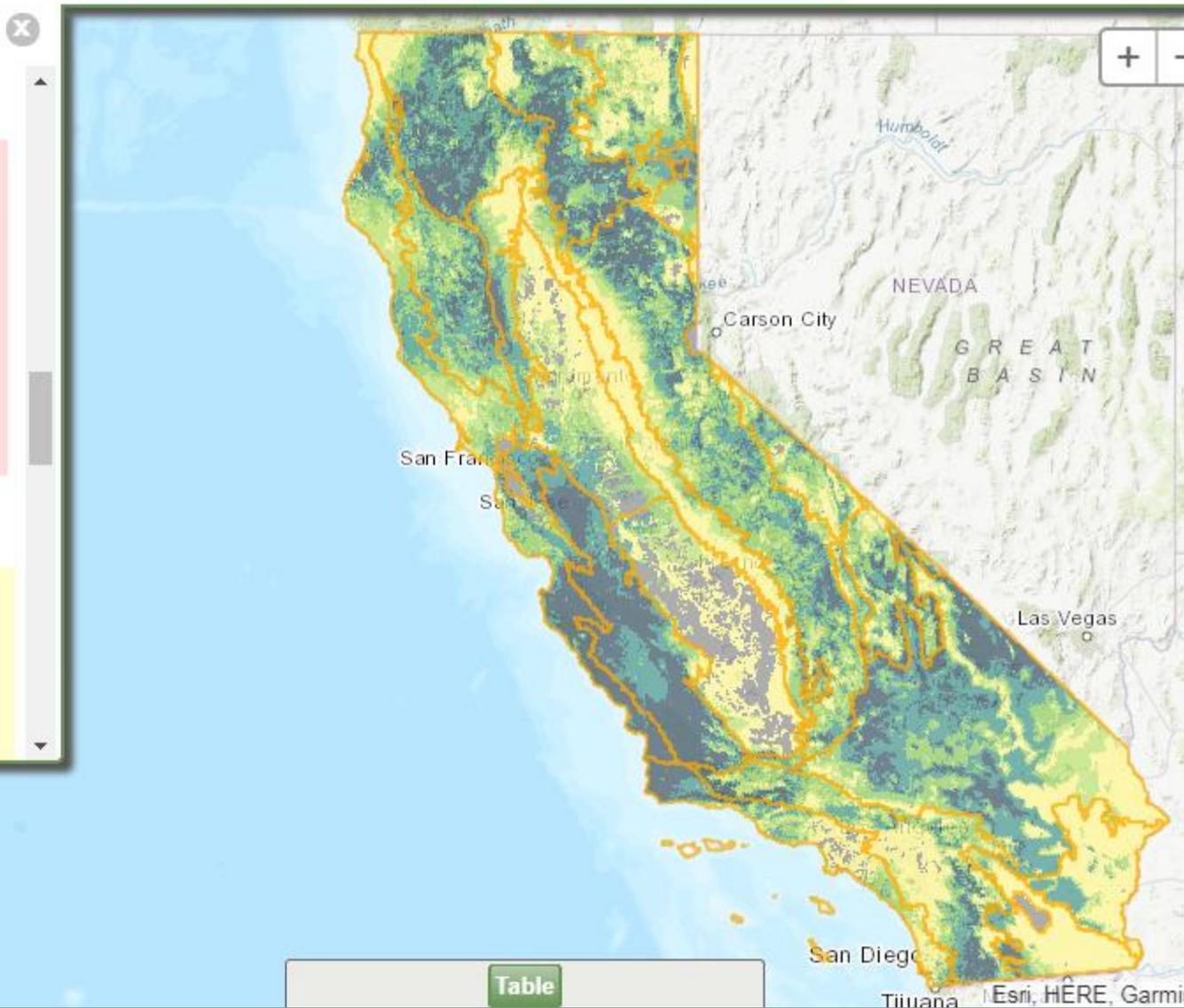
- 5 - high
- 4
- 3
- 2
- 1 - low
- No Data

▶ SWAP

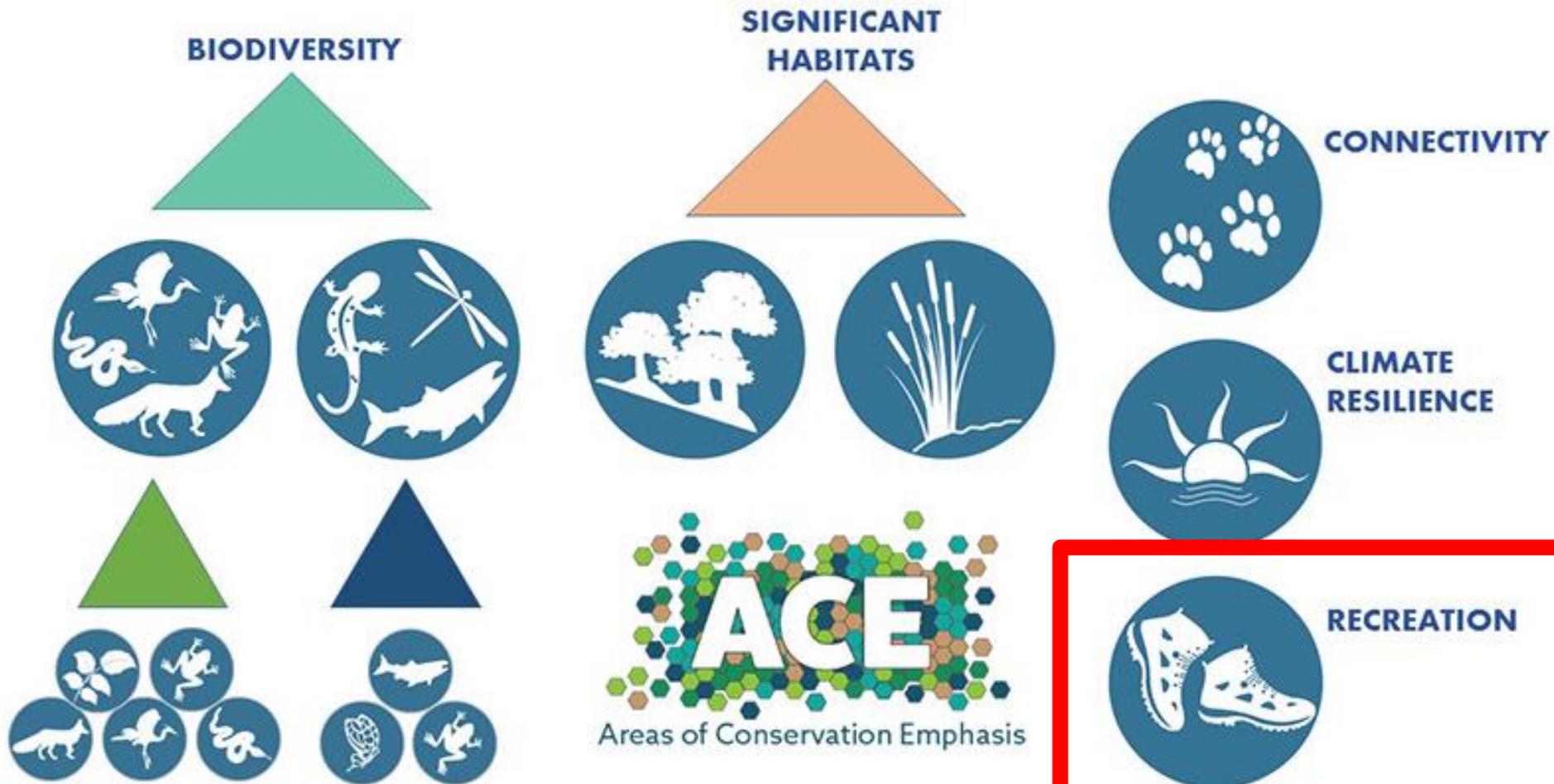
▼ Stressors

▼ Sea Level Rise

- + Sea Level Rise Inundation Model - Sacramento San Joaquin Delta - UC Berkeley [ds2694]
- + Sea Level Rise Inundation Model - San Francisco Bay - UC Berkeley [ds2695]



Table



Terrestrial: 2.5 square mile hexagon

Overview



Disadvantaged Communities Mapping Tool



123 Main Street, CA



Disadvantaged Communities Map

This application shows disadvantaged communities throughout the state, pursuant to [Proposition 1](#) and [Proposition](#)

Disadvantaged Communities

- County Boundaries
- Prop 1 Funding
- Prop 84 Funding
- IRWM Regions
- Disadvantaged Communities
- Disadvantaged Communities
- Disadvantaged Communities

Disadvantaged quality of life already available Resources throughout the

CALIFORNIA DEPARTMENT OF FISH and WILDLIFE BIOS

Add Data: BIOS

Identify Features

Advanced Tools

Hi, mprokurat Logout

v5.62.14 Help

Basemaps Layers

Active Layer: Recent Stocked Waters - California [ds778]

Graphics and Selections

BIOS Layers

Remove All BIOS Layers

+ Deer Hunt Zones - Title 14, Section 360. [ds342] Go X

+ Recent Stocked Waters - California [ds778] Go X

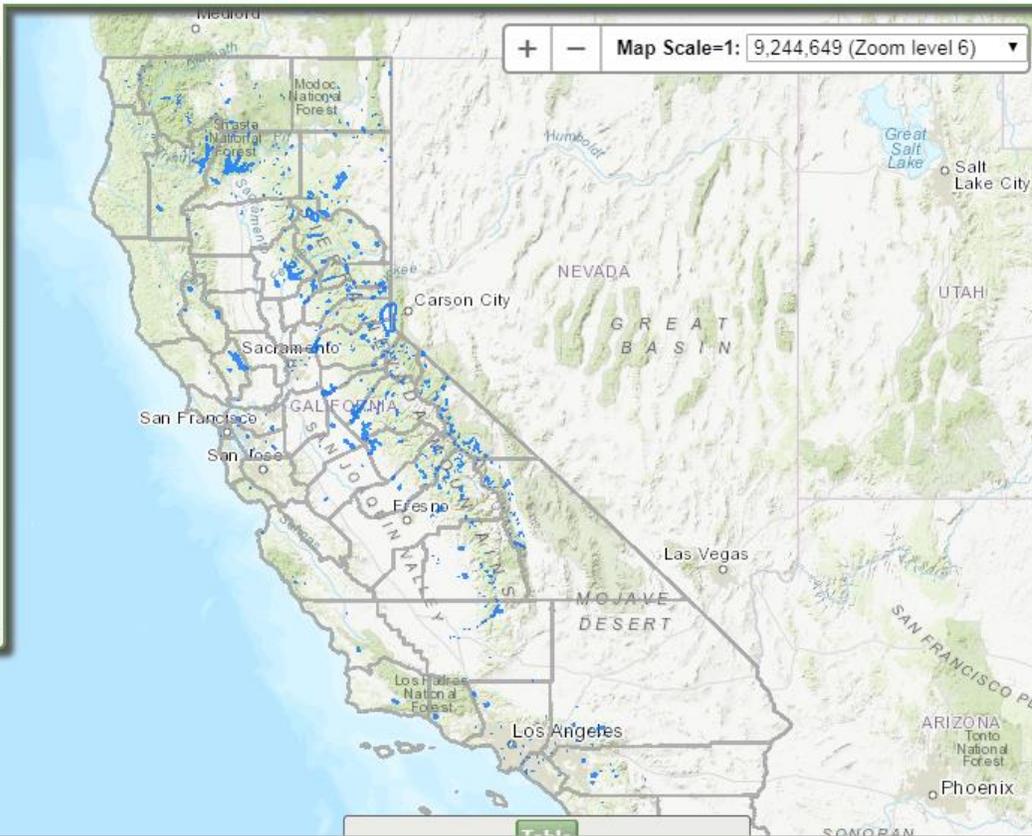
+ Elk Hunt Zones [ds786] Go X

+ Pronghorn Hunt Zones [ds787] Go X

+ Band-tailed Pigeon Hunt Zone [ds1340] Go X

+ Sooty (Blue) and Ruffed Grouse Hunt Zone [ds1341] Go X

+ Quail Hunt Zones [ds1342] Go X



Recent Stocked Waters - California [ds778]

Summary

This dataset represents locations that have been stocked with fish by CDFW during the current year and the two preceding years. It was created to provide a spatial representation of release waters described in the CDFW Statewide Hatchery Database. This spatial representation will make fish stocking information more accessible both to Department staff and to other interested parties and could be utilized as a tool by hatcheries to enhance fish stocking planning and efficiency

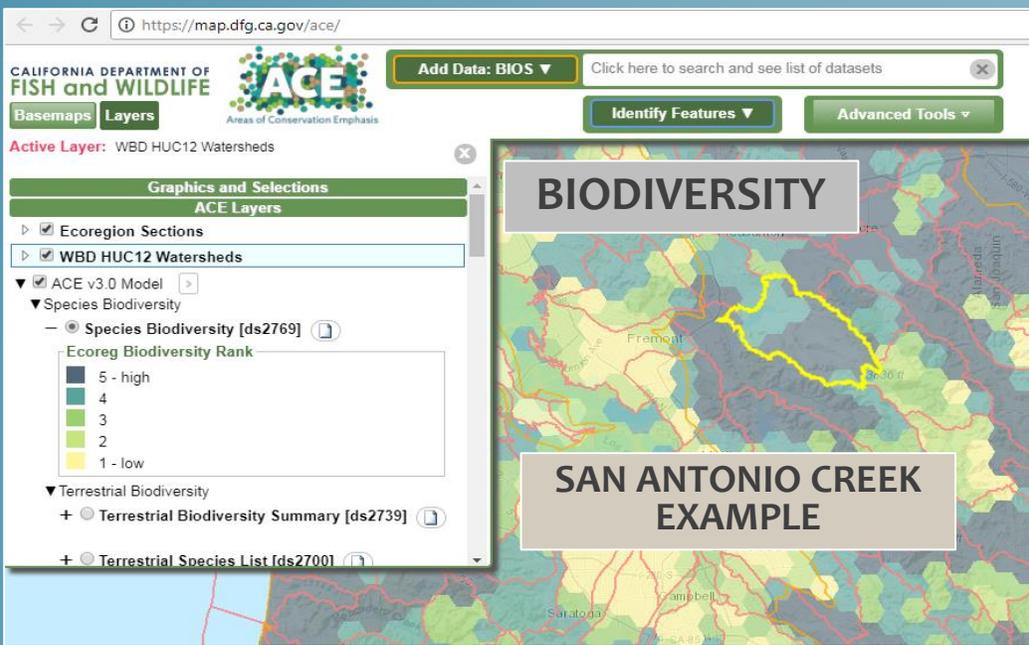
Description

This dataset represents locations that have been stocked with fish by the California Department of Fish and Wildlife during the current year and the two preceding years. Each feature in this dataset represents a California Department of Fish and

ACE: USES

<https://www.wildlife.ca.gov/Data/Analysis/ACE>

- Identify conservation elements present at a site
- Compare relative value between sites
- Evaluate location and relative juxtaposition of conservation elements, land ownership, stressors, etc.



BIODIVERSITY

**SAN ANTONIO CREEK
EXAMPLE**

**CLIMATE
RESILIENCE**

**SWAP
TARGETS**

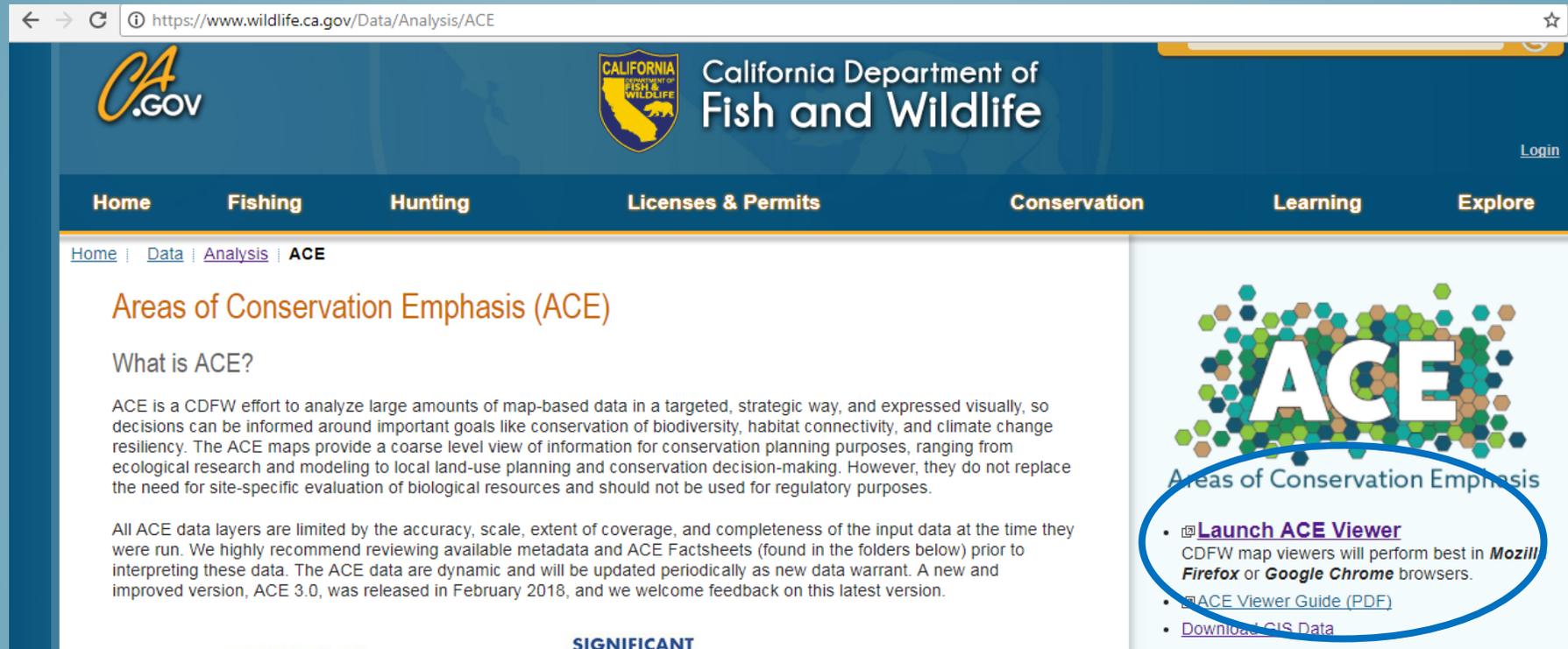
CONNECTIVITY

**PROJECTED
URBAN AND AG
EXPANSION (2100)**

**CONSERVED
LANDS**

SWAP_Province	Conservation_Unit	Province_Chapter	Conservation_Unit_Description	CWHR_Habitat_Type	Habitat_Type_Group	Conservation_Target_1	Target_1_NVCS_Code
Bay Delta and Central Coast	Central Valley Coast Ranges	5.3	13	Annual Grassland	Herbaceous	California Grassland and Flowerfields	M045

<https://www.wildlife.ca.gov/Data/Analysis/ACE>



← → C <https://www.wildlife.ca.gov/Data/Analysis/ACE> ☆

CA.GOV  California Department of Fish and Wildlife [Login](#)

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Areas of Conservation Emphasis (ACE)

What is ACE?

ACE is a CDFW effort to analyze large amounts of map-based data in a targeted, strategic way, and expressed visually, so decisions can be informed around important goals like conservation of biodiversity, habitat connectivity, and climate change resiliency. The ACE maps provide a coarse level view of information for conservation planning purposes, ranging from ecological research and modeling to local land-use planning and conservation decision-making. However, they do not replace the need for site-specific evaluation of biological resources and should not be used for regulatory purposes.

All ACE data layers are limited by the accuracy, scale, extent of coverage, and completeness of the input data at the time they were run. We highly recommend reviewing available metadata and ACE Factsheets (found in the folders below) prior to interpreting these data. The ACE data are dynamic and will be updated periodically as new data warrant. A new and improved version, ACE 3.0, was released in February 2018, and we welcome feedback on this latest version.

SIGNIFICANT



Areas of Conservation Emphasis

- 📄 [Launch ACE Viewer](#)
CDFW map viewers will perform best in **Mozilla Firefox** or **Google Chrome** browsers.
- 📄 [ACE Viewer Guide \(PDF\)](#)
- 📄 [Download GIS Data](#)

For more information, contact:

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