

Cooper Mill Creek Fish Passage & Instream Habitat Improvement Project (Project ID: 1730060) 2023

Introduction:

Trout Unlimited, Inc. (Grantee) will remove two barriers and restore fish passage for all life stages of salmonids to 3.0 miles of Cooper Mill Creek, and will enhance instream and floodplain habitat. Restoration activities include realignment of the lower channel and confluence with Yager Creek, which includes the installation of rock weirs, log steps, and a roughened channel (lower reach); a series of non-engineered large wood features and a low alcove feature (middle reach); and removing an existing concrete sill and placing engineered wood structures upstream and downstream of the sill location (upper reach).

This project will increase stream habitat complexity, pool frequency, pool depth, and over-summer and winter rearing habitat for juvenile and adult salmonids. Large wood will also provide velocity refugia during winter high flow events. Implementation of this project will directly benefit SONNC Coho Salmon, Chinook Salmon, and Steelhead Trout.

This project is necessary because the CDFG *Recovery Strategy for California Coho Salmon* (2004) lists Cooper Mill Creek as having key populations to maintain or improve. The state recovery strategy suggests that efforts should be made to protect, preserve and increase quality of stream habitat conditions year-round to benefit spawning and juvenile rearing of Coho Salmon.

The Grantee shall not proceed with on the ground implementation until all necessary permits, consultations, and/or Notice to Proceed are secured. All habitat improvement(s) will follow techniques in the *California Salmonid Stream Habitat Restoration Manual* (Part VII, Part IX, Part X, and Part XI <https://www.wildlife.ca.gov/Grants/FRGP/Guidance>)

Does the project involve the construction of beaver analogs?

Yes or No

Is the project located in a tidally influenced [California coastal zone](#)?

Yes or No

Project Description

Location:

The proposed project is located on Cooper Mill Creek and is 4.2 miles east of Fortuna in Humboldt County, California; Township 2N, Range 1E, and Section 10 of the Hydesville 7.5 Minutes USGS quadrangle map.. Cooper Mill Creek is a tributary to Yager Creek and is located 2.4 miles upstream of the confluence with the Van Duzen River. The Cooper Mill Creek watershed covers a total area of approximately 3.7 square miles. Project coordinates are: 40.56032 ° north latitude, -124.06023 ° west longitude at the center of the project work reach.

Project Set Up:

The Grantee, Trout Unlimited (TU), will manage the project and lead coordination of the Project Team and stakeholders, grant administration, subcontract execution, meeting facilitation, invoicing and reporting.

Humboldt Redwood Company (HRC) will provide access and in-kind professional services and material cost share (e.g., large wood) towards the project. The HRC Fisheries Biologist will support fish relocation activities under the supervision of the CDFW Grant Manager and will conduct post project biological monitoring surveys.

Pacific Watershed Associates (PWA) will provide staff (Geomorphologist, Senior Engineer, Associate Engineer, Engineering Geologist, Senior Scientist, Project Scientist, Staff Fisheries Biologist, CAD Specialist, Clerical) for construction subcontractor selection to assist with aquatic species relocation, engineering oversight and day to day construction management, paleontological investigation for environmental compliance, water quality monitoring, and post project monitoring.

Construction Contractor (TBD) will be selected to lead all construction activities.

Samara Restoration (SR) will provide a Project Biologist and laborers to propagate and replant the disturbed areas with native plant communities as indicated in the design plans.

Kyle Wear (KW) will provide botanical resources support for this project and will conduct a CNDDDB database query, botanical field surveys, a wetland delineation and associated mapping and reporting to support environmental compliance.

William Rich and Associates (WRA) will provide cultural resources support for this project including a NW Information Center Records Search, conduct site surveys, coordinate with Native American Tribes, and provide a report detailing site pre-history and history, survey results, and avoidance and minimization measures, if required.

Materials:

Fish Exclusion Fencing,

Rock (various sizes)- Rock will be used to create engineered stream bed material, roughened channel segments, and steps in the channel profile along the lowest stream reaches of the project.

Silt fencing- Silt fence will be used to provide water quality protection by isolating the construction area from any aquatic resource.

Rice straw- Rice straw will be used to provide short term erosion control on disturbed areas.

Anchoring hardware- threaded rod with nuts and plates will be procured to anchor large wood material together and keep it in place.

Jute mat- Jute mat (or equivalent) will be employed in disturbed areas that are likely to be subjected to stream flow such as within bankful.

Logs and trees with and without rootwads will be used throughout the project area and will be used to create geomorphic complexity throughout the project area and will be used to create natural steps in the newly formed channel at the downstream end of Cooper Mill Creek.

Container Plants (various/native) will be procured to replant areas disturbed by construction. The plants will be used to provide medium to long term erosion control and ecologic services.

Tree Guards will be installed to protect container plants from browsing. Mulch/Planting medium will be provided to ensure plant survival and revegetation success.

Tasks:

Task 1 - Environmental Compliance

Grantee will provide proof of any required threatened and endangered species surveys; cultural, archaeological, & paleontological resource surveys; and botanical resource surveys. Staff from WRA, HRC, PWA and a qualified botanical subcontractor will perform CEQA-related resource surveys and Kyle Wear will conduct botanical and wetland Delineations. Grantee will work with PWA and the CDFW Grant Manager to secure a 1600 LSAA permit.

Task 2 - Construction

Construction of the project will be conducted by the selected Construction Contractor (TBD). The Construction Contractor will be responsible for providing all the required heavy equipment, labor, and materials required for project implementation. PWA will provide construction and engineering oversight. PWA will be available (daily) to answer any questions that arise during the construction process or to clarify the intent of the designs. PWA will stake out the project disturbance/clearing and excavation boundaries and set up grade stakes to assure the designs are implemented as stated. Spoil locations and temporary staging areas will be flagged by PWA. During construction PWA staff will be responsible for water quality inspections, confirming final grade, and assuring compliance to the special provisions outlined in the design plans. PWA will supervise the construction and ensure the design specifications are being followed. The construction contractor will follow the design specifications and special provisions for construction of the project as guided by the grade stakes and PWA oversight. The construction contractor will use heavy equipment and laborers to create the designed

features, including rock weirs, log steps, roughened channel, roughness elements, and off channel alcove using the large wood, rock, and associated anchoring materials. This recommended construction sequence is for demolitions and construction involving the immediate stream area and its floodplain. Alternate construction sequences recommended by the contractor may be submitted to the engineer for consideration.

Deliverables:

Task 1: Interim Cultural resource, botanical, biological, and paleontological reports (completed prior to receiving Notice to Proceed); Final Cultural resource, botanical, and paleontological reports (to be completed prior to submitting project Final Report); Preparation and payment of CDFW LSAA/1600 Agreement Application (prior to receiving Notice to Proceed).

Task 2: Deliverables include the removal of two fish barriers (cement sills) and three rock weirs. The installation of eight at grade rock weirs, seven log step features, a newly excavated roughened channel, 24 non-engineered large wood structures, 12 engineered log structures, an off-channel alcove with 12 log habitat cover structures and revegetation planting of 1,140 plants.

Timelines:

June 15 through October 31 of the years 2024, 2025, and 2026, Grantee will oversee the implementation of the Project.

Additional Requirements:

The Grantee will not proceed with on the ground implementation until all necessary permits and consultations are secured. Work in flowing streams is restricted per the United States Army Corp of Engineers (USACE) Regional General Permit. Actual project start and end dates, within this timeframe, are at the discretion of the California Department of Fish and Wildlife (CDFW).

No equipment maintenance will be performed within or near the stream channel where pollutants (such as petroleum products) from the equipment may enter the channel via rainfall or runoff. Appropriate spill containment devices (e.g., oil absorbent pads, tarpaulins) will be used when refueling equipment. All equipment will be removed from the streambed and flood plain areas at the end of each workday.

All equipment and gear will be brushed with a stiff brush prior to leaving each stretch of stream to avoid the transport of aquatic invasive species (AIS). When transporting traps out of the area, each numbered trap will be bagged in its own bag to avoid cross contamination during transport in and out of the work area. All crew members will

decontaminate equipment and shoes for AIS according to the standards detailed in the CDFW Aquatic Invasive Species Decontamination Protocol.

During project activities, all trash that may attract predators will be properly contained, removed from the work site, and disposed of regularly. Following construction, all trash and construction debris will be removed from work areas.

All habitat improvements will follow techniques described in the *California Salmonids Stream Habitat Restoration Manual*, Volume I and Volume II.

The Grantee shall notify the CDFW a minimum of five working days before the project site is de-watered and the stream flow diverted. The notification will provide a reasonable time for CDFW personnel to oversee the implementation of the water diversion plan and the safe removal and relocation of salmonids and other fish life from the project area. If the project requires dewatering of the site, and the relocation of salmonids, the Grantee will implement the following measures to minimize harm and mortality to listed salmonids:

Fish dewatering and relocation activities shall only occur between June 15 and October 31 of each year.

Additional measures to minimize injury and mortality of salmonids during fish relocation and dewatering activities shall be implemented as described in Part IX, pages 52 and 53 of the *California Salmonid Stream Habitat Restoration Manual*.

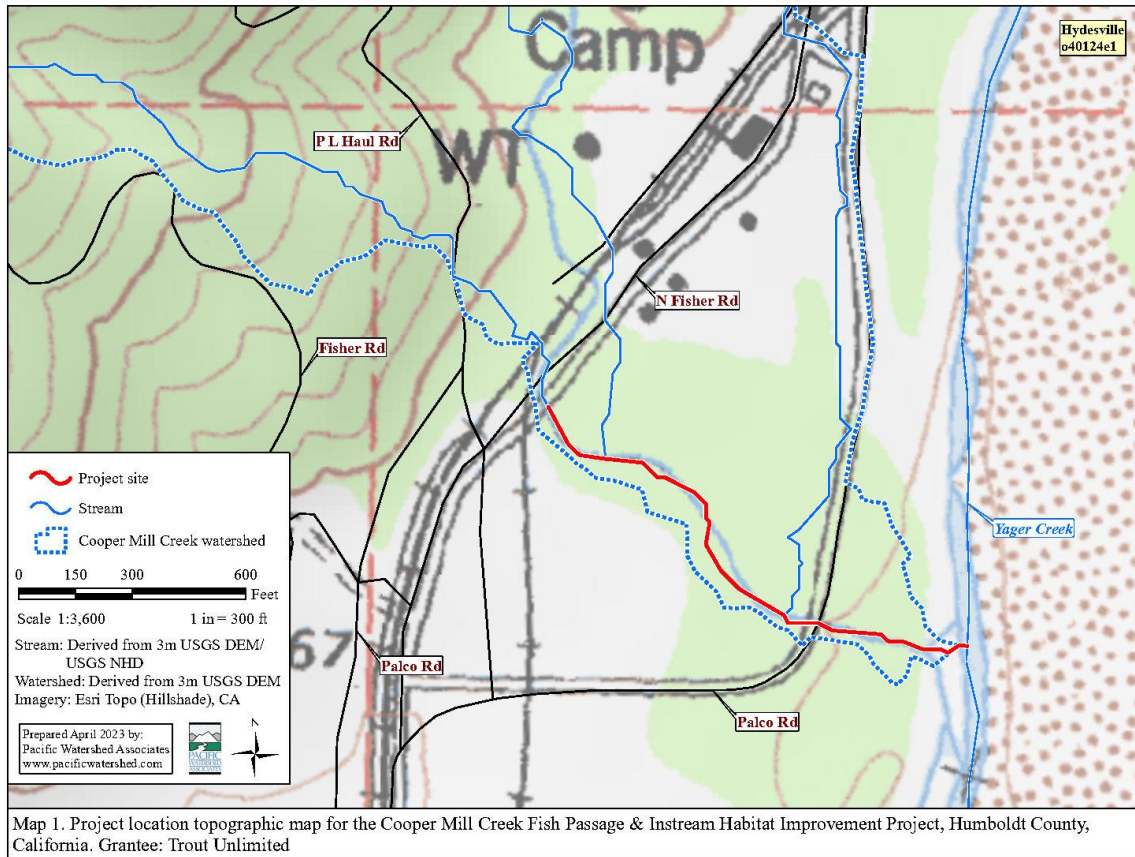
The Grantee shall minimize the amount of wetted stream channel dewatered at each individual project site to the fullest extent possible as approved by the CDFW Grant Manager and pursuant to conditions in the USACE Regional General Permit and National Marine Fisheries Service (NMFS) Biological Opinion.

All electrofishing shall be performed by a qualified fisheries biologist and conducted according to the NMFS, Guidelines for Electrofishing Waters Containing Salmonids Listed under the Endangered Species Act, June 2000.

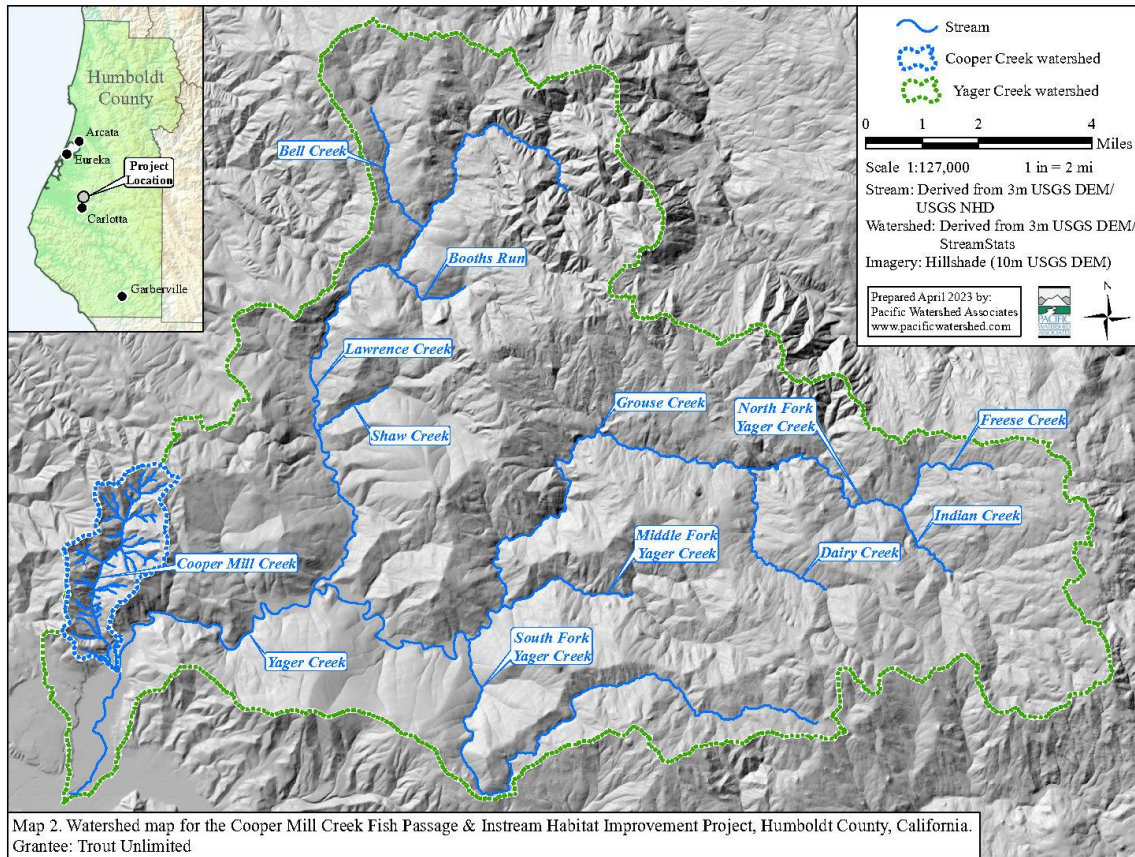
USFWS Approved fisheries biologists will provide fish relocation data via the Grantee to the CDFW personnel on a form provided by CDFW.

Final structure design and placement will be determined by field consultation between the Grantee and the CDFW Personnel.

Planting of tree seedlings will take place after December 1 or when sufficient rainfall has occurred to insure the best chance of survival of the seedlings.



Document Path: P:\GIS\10610 Cooper Mill\10610_Project\Location\TopographicMap_FRGP_07042023.mxd



CDFW RAREFIND

Query Summary:

Quad IS (Hydesville (4012451) OR Fortuna (4012452) OR Owl Creek (4012358) OR Taylor Peak (4012442)
 OR Scotia (4012441) OR Redcrest (4012348) OR Fields Landing (4012462) OR McWhinney Creek (4012461)
 OR Iaqua Buttes (4012368))

CNDDDB Element Query Results

| Scientific Name | Common Name | Taxonomic Group | Element Code | Total Occs | Returned Occs | Federal Status | State Status | Global Rank | State Rank | CA Rare Plant Rank | Other Status | Habitats |
|---|-------------------------------|-----------------|--------------|------------|---------------|----------------|--------------|-------------|------------|--------------------|---|---|
| <i>Abronia umbellata</i> var. <i>breviflora</i> | pink sand-verbena | Dicots | PDNYC010N4 | 61 | 3 | None | None | G4G5T2 | S2 | 1B.1 | BLM_S-Sensitive, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden | Coastal dunes |
| <i>Accipiter cooperii</i> | Cooper's hawk | Birds | ABNKC12040 | 118 | 6 | None | None | G5 | S4 | null | CDFW_WL-Watch List, IUCN_LC-Least Concern | Cismontane woodland, Riparian forest, Riparian woodland, Upper montane coniferous forest |
| <i>Accipiter striatus</i> | sharp-shinned hawk | Birds | ABNKC12020 | 22 | 10 | None | None | G5 | S4 | null | CDFW_WL-Watch List, IUCN_LC-Least Concern | Cismontane woodland, Lower montane coniferous forest, Riparian forest, Riparian woodland |
| <i>Acipenser medirostris</i> pop. 1 | green sturgeon - southern DPS | Fish | AFCAA01031 | 14 | 1 | Threatened | None | G2T1 | S1 | null | AFS_VU-Vulnerable, IUCN_EN-Endangered | Aquatic, Estuary, Marine bay, Sacramento/San Joaquin flowing waters |
| <i>Agelaius tricolor</i> | tricolored blackbird | Birds | ABPBXB0020 | 955 | 1 | None | Threatened | G1G2 | S2 | null | BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_EN-Endangered, USFWS_BCC-Birds of Conservation Concern | Freshwater marsh, Marsh & swamp, Swamp, Wetland |
| <i>Ammodramus savannarum</i> | grasshopper sparrow | Birds | ABPBXA0020 | 27 | 1 | None | None | G5 | S3 | null | CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern | Valley & foothill grassland |
| <i>Anodonta californiensis</i> | California floater | Mollusks | IMBIV04220 | 6 | 1 | None | None | G3Q | S2? | null | USFS_S-Sensitive | Aquatic |
| <i>Antrozous pallidus</i> | pallid bat | Mammals | AMACC10010 | 420 | 1 | None | None | G4 | S3 | null | BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive | Chaparral, Coastal scrub, Desert wash, Great Basin grassland, Great Basin scrub, Mojavean desert scrub, Riparian woodland, Sonoran desert scrub, Upper montane coniferous forest, Valley & foothill grassland |
| <i>Aplodontia rufa humboldtiana</i> | Humboldt mountain beaver | Mammals | AMAF01017 | 28 | 6 | None | None | G5TNR | SNR | null | null | Coastal scrub, Redwood, Riparian forest |
| <i>Aquila chrysaetos</i> | golden eagle | Birds | ABNKC22010 | 325 | 7 | None | None | G5 | S3 | null | BLM_S-Sensitive, CDF_S-Sensitive, CDFW_FP-Fully Protected, CDFW_WL-Watch List, IUCN_LC-Least Concern | Broadleaved upland forest, Cismontane woodland, Coastal prairie, Great Basin grassland, Great Basin scrub, |

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|---------------------------------------|---------------------------|------------|------------|-----|----|------------|----------------------|-------|------|------|--|---|--|
| | | | | | | | | | | | | | Lower montane coniferous forest, Pinon & juniper woodlands, Upper montane coniferous forest, Valley & foothill grassland |
| Arborimus pomus | Sonoma tree vole | Mammals | AMAFF23030 | 222 | 24 | None | None | G3 | S3 | null | CDFW_SSC-Species of Special Concern, IUCN_NT-Near Threatened | North coast coniferous forest, Oldgrowth, Redwood | |
| Ardea alba | great egret | Birds | ABNGA04040 | 43 | 3 | None | None | G5 | S4 | null | CDF_S-Sensitive, IUCN_LC-Least Concern | Brackish marsh, Estuary, Freshwater marsh, Marsh & swamp, Riparian forest, Wetland | |
| Ardea herodias | great blue heron | Birds | ABNGA04010 | 156 | 7 | None | None | G5 | S4 | null | CDF_S-Sensitive, IUCN_LC-Least Concern | Brackish marsh, Estuary, Freshwater marsh, Marsh & swamp, Riparian forest, Wetland | |
| Ascaphus truei | Pacific tailed frog | Amphibians | AAABA01010 | 491 | 6 | None | None | G4 | S3S4 | null | CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern | Aquatic, Klamath/North coast flowing waters, Lower montane coniferous forest, North coast coniferous forest, Redwood, Riparian forest | |
| Bombus caliginosus | obscure bumble bee | Insects | IIHYM24380 | 181 | 6 | None | None | G2G3 | S1S2 | null | IUCN_VU-Vulnerable | null | |
| Bombus occidentalis | western bumble bee | Insects | IIHYM24252 | 306 | 5 | None | Candidate Endangered | G3 | S1 | null | IUCN_VU-Vulnerable, USFS_S-Sensitive | null | |
| Brachyramphus marmoratus | marbled murrelet | Birds | ABNNN06010 | 110 | 25 | Threatened | Endangered | G3 | S2 | null | CDF_S-Sensitive, IUCN_EN-Endangered | Lower montane coniferous forest, Oldgrowth, Redwood | |
| Cardamine angulata | seaside bittercress | Dicots | PDBRA0K010 | 38 | 1 | None | None | G4G5 | S3 | 2B.1 | null | Lower montane coniferous forest, North coast coniferous forest, Wetland | |
| Carex arcta | northern clustered sedge | Monocots | PMCYP030X0 | 13 | 3 | None | None | G5 | S1 | 2B.2 | IUCN_LC-Least Concern | Bog & fen, North coast coniferous forest, Wetland | |
| Carex leptalea | bristle-stalked sedge | Monocots | PMCYP037E0 | 8 | 1 | None | None | G5 | S1 | 2B.2 | IUCN_LC-Least Concern | Bog & fen, Freshwater marsh, Marsh & swamp, Meadow & seep, Wetland | |
| Castilleja ambigua var. humboldtensis | Humboldt Bay owl's-clover | Dicots | PDSCR0D402 | 31 | 1 | None | None | G4T2 | S2 | 1B.2 | BLM_S-Sensitive, SB_UCBG-UC Botanical Garden at Berkeley | Marsh & swamp, Salt marsh, Wetland | |
| Castilleja litoralis | Oregon coast paintbrush | Dicots | PDSCR0D012 | 44 | 1 | None | None | G3 | S3 | 2B.2 | null | Coastal bluff scrub, Coastal dunes, Coastal scrub | |
| Charadrius montanus | mountain plover | Birds | ABNNB03100 | 90 | 1 | None | None | G3 | S2 | null | BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_NT-Near Threatened, USFWS_BCC-Birds of Conservation Concern | Chenopod scrub, Valley & foothill grassland | |
| Charadrius nivosus nivosus | western snowy plover | Birds | ABNNB03031 | 138 | 1 | Threatened | None | G3T3 | S3 | null | CDFW_SSC-Species of Special Concern | Great Basin standing waters, Sand shore, Wetland | |
| Chloropyron maritimum ssp. | Point Reyes salty bird's- | Dicots | PDSCR0J0C3 | 80 | 2 | None | None | G4?T2 | S2 | 1B.2 | BLM_S-Sensitive, SB_CalBG/RSABG- | Marsh & swamp, Salt marsh, | |

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|------------------------------|------------------------------|----------|------------|------|----|------|------|------|-----|------|--|---|
| palustre | beak | | | | | | | | | | California/Rancho Santa Ana Botanic Garden | Wetland |
| Clarkia amoena ssp. whitneyi | Whitney's farewell-to-spring | Dicots | PDONA05025 | 8 | 1 | None | None | G5T1 | S1 | 1B.1 | SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_UCBG-UC Botanical Garden at Berkeley | Coastal bluff scrub, Coastal scrub |
| Coptis laciniata | Oregon goldthread | Dicots | PDRAN0A020 | 122 | 3 | None | None | G4? | S3? | 4.2 | null | Meadow & seep, North coast coniferous forest, Wetland |
| Corynorhinus townsendii | Townsend's big-eared bat | Mammals | AMACC08010 | 635 | 5 | None | None | G4 | S2 | null | BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive | Broadleaved upland forest, Chaparral, Chenopod scrub, Great Basin grassland, Great Basin scrub, Joshua tree woodland, Lower montane coniferous forest, Meadow & seep, Mojavean desert scrub, Riparian forest, Riparian woodland, Sonoran desert scrub, Sonoran thorn woodland, Upper montane coniferous forest, Valley & foothill grassland |
| Downingia willamettensis | Cascade downingia | Dicots | PDCAM060E0 | 8 | 4 | None | None | G4 | S2 | 2B.2 | null | Cismontane woodland, Valley & foothill grassland, Vernal pool |
| Egretta thula | snowy egret | Birds | ABNGA06030 | 20 | 1 | None | None | G5 | S4 | null | IUCN_LC-Least Concern | Marsh & swamp, Meadow & seep, Riparian forest, Riparian woodland, Wetland |
| Emys marmorata | western pond turtle | Reptiles | ARAAD02030 | 1477 | 16 | None | None | G3G4 | S3 | null | BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_VU-Vulnerable, USFS_S-Sensitive | Aquatic, Artificial flowing waters, Klamath/North coast flowing waters, Klamath/North coast standing waters, Marsh & swamp, Sacramento/San Joaquin flowing waters, Sacramento/San Joaquin standing waters, South coast flowing waters, South coast standing waters, Wetland |
| Entosphenus tridentatus | Pacific lamprey | Fish | AFBAA02100 | 9 | 3 | None | None | G4 | S3 | null | AFS_VU-Vulnerable, BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive | Aquatic, Klamath/North coast flowing waters, Sacramento/San Joaquin flowing waters, South coast flowing waters |
| Erethizon dorsatum | North American porcupine | Mammals | AMAFJ01010 | 523 | 10 | None | None | G5 | S3 | null | IUCN_LC-Least Concern | Broadleaved upland forest, Cismontane woodland, Closed-cone coniferous forest, Lower montane coniferous |

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|---|---------------------------|------------|------------|-----|----|------------|------------|------|------|------|--|---|
| | | | | | | | | | | | | forest, North coast coniferous forest, Upper montane coniferous forest |
| <i>Erythronium regonum</i> | giant fawn lily | Monocots | PMLIL0U0C0 | 37 | 3 | None | None | G5 | S2 | 2B.2 | SB_UCSC-UC Santa Cruz | Cismontane woodland, Meadow & seep, Ultramafic |
| <i>Erythronium revolutum</i> | coast fawn lily | Monocots | PMLIL0U0F0 | 172 | 29 | None | None | G4G5 | S3 | 2B.2 | SB_UCSC-UC Santa Cruz | Bog & fen, Broadleaved upland forest, North coast coniferous forest, Wetland |
| <i>Eucyclogobius newberryi</i> | tidewater goby | Fish | AFCQN04010 | 127 | 2 | Endangered | None | G3 | S3 | null | AFS_EN-Endangered, IUCN_NT-Near Threatened | Aquatic, Klamath/North coast flowing waters, Sacramento/San Joaquin flowing waters, South coast flowing waters |
| <i>Falco peregrinus anatum</i> | American peregrine falcon | Birds | ABNKD06071 | 73 | 7 | Delisted | Delisted | G4T4 | S3S4 | null | CDF_S-Sensitive | null |
| <i>Fissidens pauperculus</i> | minute pocket moss | Bryophytes | NBMUS2W0U0 | 22 | 1 | None | None | G3? | S2 | 1B.2 | USFS_S-Sensitive | North coast coniferous forest, Redwood |
| <i>Gilia capitata ssp. pacifica</i> | Pacific gilia | Dicots | PDPLM040B6 | 91 | 19 | None | None | G5T3 | S2 | 1B.2 | SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden | Chaparral, Coastal bluff scrub, Coastal prairie, Valley & foothill grassland |
| <i>Gilia millefoliata</i> | dark-eyed gilia | Dicots | PDPLM04130 | 54 | 1 | None | None | G2 | S2 | 1B.2 | BLM_S-Sensitive, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden | Coastal dunes |
| <i>Gonidea angulata</i> | western ridged mussel | Mollusks | IMBIV19010 | 157 | 1 | None | None | G3 | S2 | null | IUCN_VU-Vulnerable | Aquatic |
| <i>Haliaeetus leucocephalus</i> | bald eagle | Birds | ABNKC10010 | 332 | 1 | Delisted | Endangered | G5 | S3 | null | BLM_S-Sensitive, CDF_S-Sensitive, CDFW_FP-Fully Protected, IUCN_LC-Least Concern, USFS_S-Sensitive | Lower montane coniferous forest, Oldgrowth |
| <i>Hesperexax sparsiflora var. brevifolia</i> | short-leaved evax | Dicots | PDASTE5011 | 72 | 1 | None | None | G4T3 | S3 | 1B.2 | BLM_S-Sensitive, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden | Coastal bluff scrub, Coastal dunes, Coastal prairie |
| <i>Lampetra richardsoni</i> | western brook lamprey | Fish | AFBAA02180 | 4 | 3 | None | None | G4G5 | S3S4 | null | CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive | null |
| <i>Lasiurus cinereus</i> | hoary bat | Mammals | AMACC05032 | 238 | 1 | None | None | G3G4 | S4 | null | IUCN_LC-Least Concern | Broadleaved upland forest, Cismontane woodland, Lower montane coniferous forest, North coast coniferous forest |
| <i>Layia carnosa</i> | beach layia | Dicots | PDAST5N010 | 25 | 1 | Threatened | Endangered | G2 | S2 | 1B.1 | SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_SBBG-Santa Barbara Botanic Garden | Coastal dunes, Coastal scrub |
| <i>Lilium occidentale</i> | western lily | Monocots | PMLIL1A0G0 | 16 | 5 | Endangered | Endangered | G1G2 | S1 | 1B.1 | SB_BerrySB-Berry Seed Bank | Bog & fen, Coastal bluff scrub, Coastal prairie, Coastal scrub, Freshwater marsh, Marsh & swamp, North coast coniferous forest, Wetland |

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|-------------------------------------|---|----------|------------|-----|----|------------|------------|--------|------|------|--|--|
| Lycopodium clavatum | running-pine | Ferns | PPLYC01080 | 120 | 34 | None | None | G5 | S3 | 4.1 | null | Lower montane coniferous forest, Marsh & swamp, North coast coniferous forest, Wetland |
| Margaritifera falcata | western pearlshell | Mollusks | IMBIV27020 | 78 | 1 | None | None | G4G5 | S1S2 | null | IUCN_NT-Near Threatened | Aquatic |
| Martes caurina humboldtensis | Humboldt marten | Mammals | AMAJF01012 | 44 | 2 | Threatened | Endangered | G4G5T1 | S1 | null | CDFW_SSC-Species of Special Concern, USFS_S-Sensitive | North coast coniferous forest, Oldgrowth, Redwood |
| Mitellastra caulescens | leafy-stemmed mitrewort | Dicots | PDSAX0N020 | 21 | 1 | None | None | G5 | S4 | 4.2 | null | Broadleaved upland forest, Lower montane coniferous forest, Meadow & seep, North coast coniferous forest |
| Montia howellii | Howell's montia | Dicots | PDPOR05070 | 123 | 51 | None | None | G3G4 | S2 | 2B.2 | null | Meadow & seep, North coast coniferous forest, Vernal pool, Wetland |
| Myotis volans | long-legged myotis | Mammals | AMACC01110 | 117 | 1 | None | None | G4G5 | S3 | null | IUCN_LC-Least Concern | Upper montane coniferous forest |
| Myotis yumanensis | Yuma myotis | Mammals | AMACC01020 | 265 | 2 | None | None | G5 | S4 | null | BLM_S-Sensitive, IUCN_LC-Least Concern | Lower montane coniferous forest, Riparian forest, Riparian woodland, Upper montane coniferous forest |
| Navarretia leucocephala ssp. bakeri | Baker's navarretia | Dicots | PDPLM0C0E1 | 64 | 1 | None | None | G4T2 | S2 | 1B.1 | SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden | Cismontane woodland, Lower montane coniferous forest, Meadow & seep, Valley & foothill grassland, Vernal pool, Wetland |
| Noccaea fendleri ssp. californica | Kneeland Prairie pennycress | Dicots | PDBRA2P041 | 1 | 1 | Endangered | None | G5?T1 | S1 | 1B.1 | SB_UCSC-UC Santa Cruz | Broadleaved upland forest, Coastal prairie, Ultramafic |
| Northern Coastal Salt Marsh | Northern Coastal Salt Marsh | Marsh | CTT52110CA | 53 | 1 | None | None | G3 | S3.2 | null | null | Marsh & swamp, Wetland |
| Nycticorax nycticorax | black-crowned night heron | Birds | ABNGA11010 | 37 | 3 | None | None | G5 | S4 | null | IUCN_LC-Least Concern | Marsh & swamp, Riparian forest, Riparian woodland, Wetland |
| Oncorhynchus clarkii clarkii | coast cutthroat trout | Fish | AFCHA0208A | 45 | 5 | None | None | G5T4 | S3 | null | AFS_VU-Vulnerable, CDFW_SSC-Species of Special Concern, USFS_S-Sensitive | Aquatic, Klamath/North coast flowing waters |
| Oncorhynchus kisutch pop. 2 | coho salmon - southern Oregon / northern California ESU | Fish | AFCHA02032 | 10 | 3 | Threatened | Threatened | G5T2Q | S2 | null | AFS_TH-Threatened | Aquatic, Klamath/North coast flowing waters, Sacramento/San Joaquin flowing waters |
| Oncorhynchus mykiss irideus pop. 48 | steelhead - northern California DPS summer-run | Fish | AFCHA0213P | 10 | 4 | Threatened | Endangered | G5T2Q | S2 | null | AFS_TH-Threatened | Aquatic, Estuary, Klamath/North coast flowing waters |
| Oncorhynchus mykiss irideus pop. 49 | steelhead - northern California DPS winter-run | Fish | AFCHA0213Q | 96 | 10 | Threatened | None | G5T3Q | S3 | null | AFS_TH-Threatened | Aquatic, Estuary, Klamath/North coast flowing waters |
| Oncorhynchus tshawytscha pop. 17 | chinook salmon - California coastal ESU | Fish | AFCHA0205S | 1 | 1 | Threatened | None | G5T2Q | S2 | null | AFS_TH-Threatened | Aquatic, Sacramento/San Joaquin flowing waters |

| | | | | | | | | | | | | |
|--|---|------------|------------|------|----|------------|------------|------|------|------|---|---|
| Packera bolanderi var. bolanderi | seacoast ragwort | Dicots | PDAST8H0H1 | 72 | 36 | None | None | G4T4 | S2S3 | 2B.2 | null | Coastal scrub, North coast coniferous forest |
| Pandion haliaetus | osprey | Birds | ABNKC01010 | 504 | 65 | None | None | G5 | S4 | null | CDFW_S-Sensitive, CDFW_WL-Watch List, IUCN_LC-Least Concern | Riparian forest |
| Pekania pennanti | Fisher | Mammals | AMAJF01020 | 555 | 2 | None | None | G5 | S2S3 | null | BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive | North coast coniferous forest, Oldgrowth, Riparian forest |
| Piperia candida | white-flowered rein orchid | Monocots | PMORC1X050 | 222 | 7 | None | None | G3? | S3 | 1B.2 | SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden | Broadleaved upland forest, Lower montane coniferous forest, North coast coniferous forest, Ultramafic |
| Platismatia lacunosa | crinkled rag lichen | Lichens | NLLEC2Q010 | 4 | 1 | None | None | G4 | S1 | 2B.3 | null | North coast coniferous forest, Riparian woodland |
| Plethodon elongatus | Del Norte salamander | Amphibians | AAAAD12050 | 151 | 1 | None | None | G4 | S3 | null | CDFW_WL-Watch List, IUCN_NT-Near Threatened | Oldgrowth |
| Polemonium carneum | Oregon polemonium | Dicots | PDPLM0E050 | 16 | 1 | None | None | G3G4 | S2 | 2B.2 | null | Coastal prairie, Coastal scrub, Lower montane coniferous forest |
| Rana aurora | northern red-legged frog | Amphibians | AAABH01021 | 292 | 31 | None | None | G4 | S3 | null | CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive | Klamath/North coast flowing waters, Riparian forest, Riparian woodland |
| Rana boylei pop. 1 | foothill yellow-legged frog - north coast DPS | Amphibians | AAABH01051 | 1608 | 49 | None | None | G3T4 | S4 | null | BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, USFS_S-Sensitive | Aquatic, Klamath/North coast flowing waters, Riparian forest, Riparian scrub, Riparian woodland |
| Rhyacotriton variegatus | southern torrent salamander | Amphibians | AAAAJ01020 | 416 | 16 | None | None | G3? | S2S3 | null | CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive | Lower montane coniferous forest, Oldgrowth, Redwood, Riparian forest |
| Riparia riparia | bank swallow | Birds | ABPAU08010 | 299 | 4 | None | Threatened | G5 | S3 | null | BLM_S-Sensitive, IUCN_LC-Least Concern | Riparian scrub, Riparian woodland |
| Sidalcea malachroides | maple-leaved checkerbloom | Dicots | PDMAL110E0 | 136 | 60 | None | None | G3 | S3 | 4.2 | null | Broadleaved upland forest, Coastal prairie, Coastal scrub, North coast coniferous forest, Riparian forest |
| Sidalcea malviflora ssp. patula | Siskiyou checkerbloom | Dicots | PDMAL110F9 | 60 | 14 | None | None | G5T2 | S2 | 1B.2 | SB_UCSC-UC Santa Cruz | Coastal bluff scrub, Coastal prairie, North coast coniferous forest |
| Sidalcea oregana ssp. eximia | coast checkerbloom | Dicots | PDMAL110K9 | 19 | 4 | None | None | G5T1 | S1 | 1B.2 | null | Lower montane coniferous forest, Meadow & seep, North coast coniferous forest, Wetland |
| Spergularia canadensis var. occidentalis | western sand-spurrey | Dicots | PDCAR0W032 | 4 | 1 | None | None | G5T4 | S1 | 2B.1 | null | Marsh & swamp, Wetland |
| Spirinchus thaleichthys | longfin smelt | Fish | AFCHB03010 | 46 | 4 | Candidate | Threatened | G5 | S1 | null | IUCN_LC-Least Concern | Aquatic, Estuary |
| Thaleichthys pacificus | eulachon | Fish | AFCHB04010 | 10 | 1 | Threatened | None | G5 | S1 | null | IUCN_LC-Least Concern | Aquatic, Klamath/North coast flowing waters |
| Upland Douglas Fir | Upland Douglas Fir | Forest | CTT82420CA | 15 | 1 | None | None | G4 | S3.1 | null | null | North coast coniferous forest |

| Forest | Forest | | | | | | | | | | | |
|------------------|---------------------------|---------|------------|-----|-----|------|------|----|----|-----|-----------------|--|
| Usnea longissima | Methuselah's beard lichen | Lichens | NLLEC5P420 | 206 | 107 | None | None | G4 | S4 | 4.2 | BLM_S-Sensitive | Broadleaved upland forest, North coast coniferous forest, Oldgrowth, Redwood |