

GLENN COUNTY
Planning & Community Development Services Agency

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STAFF REPORT

MEETING DATE: Wednesday, May 16, 2018, 9:00 a.m.

TO: Glenn County Planning Commission

FROM: Andy Popper, Associate Planner

RE: Knife River Construction, Hambright Property
Biological Characterization Summary Report

SUMMARY:

Baldwin Contracting, doing business as Knife River Construction, has a Conditional Use Permit and Reclamation Plan (94-01) for an aggregate mining operation located northwest of the City of Orland, in the unincorporated area of Glenn County, California (Assessor Parcel Numbers 044-290-008, -009, and -011).

The location is further described as, along the west side of Interstate 5, south of County Road 7, and along approximately one-half mile of Hambright Creek. The site is primarily used for mining material that is transported to a processing facility north of the location.

Condition of Approval #35, of Conditional Use Permit 94-01, states the permittee is to submit an annual report to the Planning Commission documenting the wildlife species that use the site.

Knife River Construction has submitted the required study to the Planning & Public Works Agency to provide to the Planning Commission. No further action or decision is required.

Attachment:

2018 Biological Characterization Summary Report

**Knife River Construction
Company Hambright
Property: 2018 Biological
Characterization Summary
Report**



Prepared for:
Knife River Construction
Company, Inc.
1764 Skyway
Chico, CA 95928
Attn.: Mr. Mason Richardson

Prepared by:
Stantec Consulting Services INC
5000 Bechelli Lane, Suite 203
Redding, CA 96003

April 24, 2018

KNIFE RIVER CONSTRUCTION COMPANY HAMBRIGHT PROPERTY: 2018 BIOLOGICAL CHARACTERIZATION SUMMARY REPORT

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KNIFE RIVER CONSTRUCTION COMPANY HAMBRIGHT PROPERTY: 2018 BIOLOGICAL CHARACTERIZATION SUMMARY REPORT

1.0 INTRODUCTION

Stantec conducted a reconnaissance-level characterization of biological resources at the Hambright Property on 18 April 2018. The characterization describes current wildlife habitat conditions and provides an assessment of wildlife use at the site to meet a requirement of the Glenn County Conditional Use Permit issued for the Knife River Construction Company's Hambright Creek Project.

General vegetation and habitats at the project site were identified and described during the biological characterization. Observations of wildlife use, and other general site conditions were also documented.

2.0 STUDY AREA

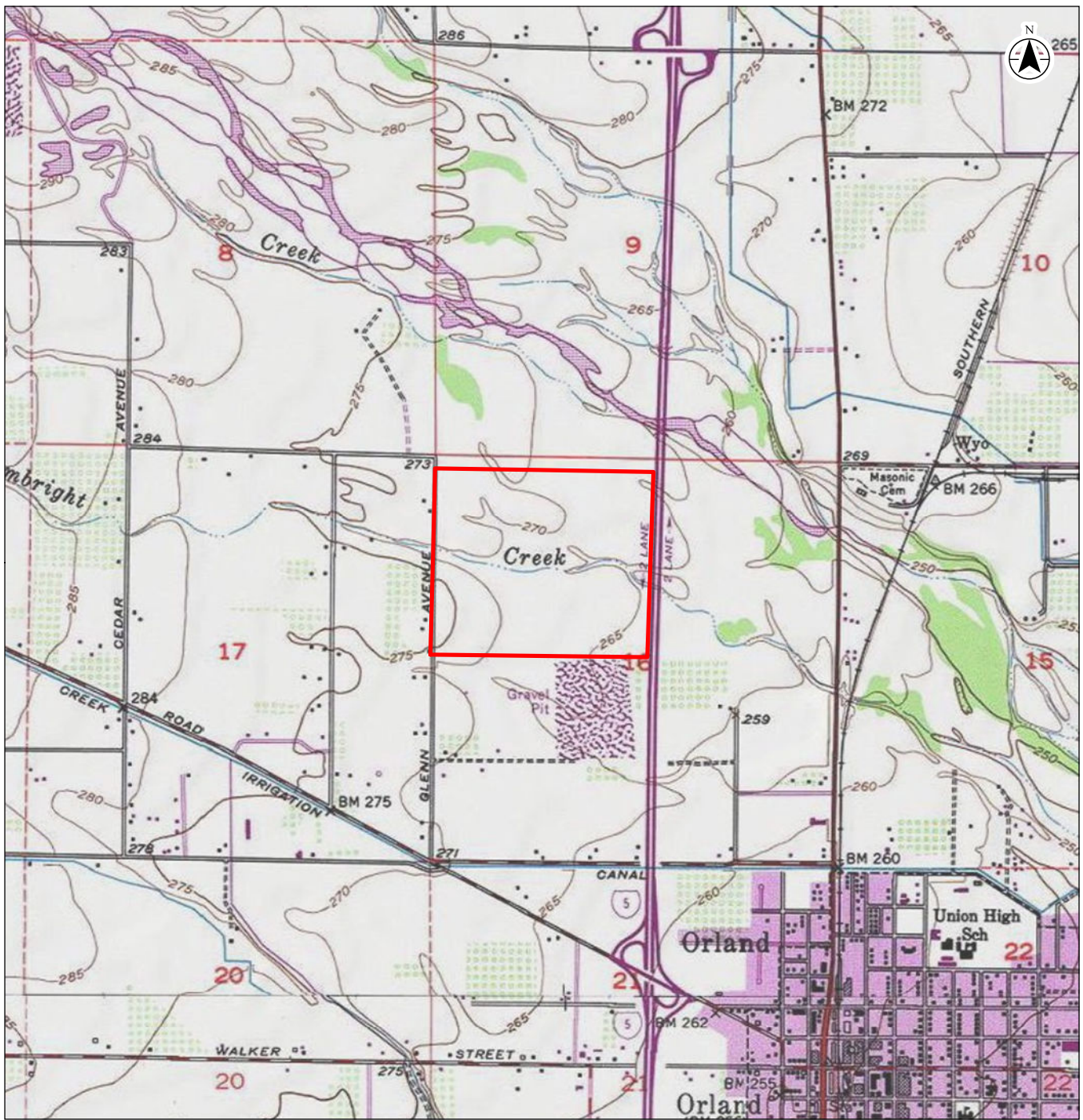
The Hambright Property encompasses approximately 160 acres and is located approximately 1-mile northwest of the city of Orland, Glenn County, California. The Hambright Property is generally flat to gently rolling and situated between rural residential areas to the south and west, Stony Creek to the north, and Interstate-5 to the East. A general location map is presented as Figure 1. The Hambright Property is used as a gravel excavation area, with occasional light agricultural use (e.g., apiary yards, horse paddock).

3.0 METHODS

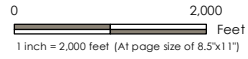
Stantec queried two electronic databases to assist in determining potential wildlife use of the project site: the California Department of Fish and Wildlife (CDFW) Natural Diversity Database RareFind 5 (Version 5.2.14) (CNDDDB), and the CDFW California Wildlife Habitat Relationships System database (Version 9.0) (California Department of Fish and Wildlife 2013).

The CNDDDB is a database maintained by the CDFW consisting of recorded special-status plant and wildlife species observations, and special plant communities. The CNDDDB is limited to reported sightings and is therefore not a comprehensive list of plant and wildlife species that may occur in a specific area. The CNDDDB was reviewed for records in the *Kirkwood, CA* quadrangle. This search produced a list of special-status species and other special habitats recorded in the CNDDDB within the vicinity of the Hambright Property.

Stantec used the CWHR database to help determine wildlife species that potentially occur in the existing habitats on the Hambright Property. CWHR is a predictive system based on scientific information concerning wildlife species and their geographic and habitat relationships. Fish and invertebrate species are not included in the CWHR system. Vegetation on the Hambright Property was classified using the system developed for use with CWHR (Mayer and Laudenslayer



 Study Area (157.82 acres)



Project Location: Glenn County, California
 2272008600
 Prepared by TM on 2018-04-12

Client/Project: Hambright Property Biological Characterization

Figure No.: 1

Title: Project Location

- Notes**
1. Coordinate System: NAD 1983 StatePlane California I FIPS 0401 Feet
 2. Base map: ESRI USA Topo Maps web mapping service
 3. Public Land Survey: T22N, 03W, Sec. 16
 4. USGS 7.5 Quad: Kirkwood 1969

Disclaimer: Stantec assumes no responsibility for data supplied in electronic format. The recipient accepts full responsibility for verifying the accuracy and completeness of the data. The recipient releases Stantec, its officers, employees, consultants and agents, from any and all claims arising in any way from the content or provision of the data.

KNIFE RIVER CONSTRUCTION COMPANY HAMBRIGHT PROPERTY: 2018 BIOLOGICAL CHARACTERIZATION SUMMARY REPORT

1988). No attempt to confirm the CWHR query results (i.e., no focused surveys or habitat evaluations for a specific species) was made as part of this biological characterization. Following the database searches and other preparation, the Hambright Property was traversed on foot to characterize vegetation and wildlife habitats, and to document wildlife use. Wildlife species were identified by direct observation, by identification of vocalizations, or by observations of various wildlife sign.

Observations of wildlife use, and other general site conditions were documented during the site visit. The wildlife observations emphasized species occurrences and documentation of specific habitats in which they were observed. Other pertinent behavioral observations (e.g., nesting) were also noted. Stantec conducted the field survey on 18 April 2018.

4.0 RESULTS

The CNDDDB contains no records of special-status plant and wildlife species or special plant communities within or near the Hambright Property. The CWHR wildlife habitats on the Hambright Property currently include annual grassland, eucalyptus, fresh emergent wetland, lacustrine, and riverine. The locations of many of these habitats vary annually, depending on the amount of recent gravel excavation work. The typical result is a dynamic "continuum" of mainly early-seral (i.e., young) fresh emergent wetland and woody riparian habitat mixed among open water and barren areas.

Lacustrine habitat is the dominant habitat type occurring on the Hambright Property. This habitat consists primarily of the open water areas resulting from the gravel excavation activities (i.e., gravel ponds). These areas are typically too deep to support emergent wetland vegetation. Dominate substrates include small cobble, gravel, sand, and silt.

Fresh emergent wetland habitat occurs along the edges of the lacustrine habitat and is characterized by open, barren areas with occasional stands of sparse to moderate herbaceous and woody vegetation cover. The dominant herbaceous species include cocklebur (*Xanthium strumarium*), doc (*Rumex* spp.), water chickweed (*Montia fontana*), and willow-herb (*Epilobium* sp.); with occasional cattail (*Typha* sp.), bulrush (*Schoenoplectus* sp.), smartweed (*Polygonum* sp.), rushes (*Juncus* spp.), nutsedges (*Cyperus* sp.), canary grass (*Phalaris* sp.), and duckweed (*Lemna minor*). Dominant woody species include scattered individuals to moderate-sized patches of giant reed (*Arundo donax*), with occasional narrow-leaf willow (*Salix exigua*), Fremont cottonwood (*Populus fremontii*), mule fat (*Baccharis salicifolia*), black willow (*Salix gooddingii*), and saltcedar (*Tamarisk ramosissima*). Plant taxonomy follows Baldwin et al. (2012).

The annual grassland habitat consists of open to dense growth of ruderal annual grasses and forbs. Annual grassland habitat mainly occurs along the margins of the emergent wetland habitat, and in small areas disturbed by gravel extraction activities that do not retain adequate moisture for wetland vegetation to persist. This habitat often extends into other adjacent habitats present on the site including the eucalyptus groves and upland locations within the fresh emergent wetlands. Dominant species include wild oat (*Avena sativa*), Italian ryegrass

KNIFE RIVER CONSTRUCTION COMPANY HAMBRIGHT PROPERTY: 2018 BIOLOGICAL CHARACTERIZATION SUMMARY REPORT

(*Festuca* sp.), downy brome (*Bromus tectorum*), foxtail barley (*Hordeum jubatum*), filaree (*Erodium* sp.), mustard (*Brassica* sp.), yellow starthistle (*Centaurea solstitialis*), rose clover (*Trifolium hirtum*), fiddleneck (*Amsinckia* sp.), wild radish (*Raphanus sativus*), bicolor lupine (*Lupinus bicolor*), milkthistle (*Silybum* sp.), vetch (*Vicia* sp.), black medic (*Medicago lupulina*), wild geranium (*Geranium dissectum*), pineapple weed (*Matricaria discoidea*), and torilis (*Torilis arvensis*).

The eucalyptus habitat primarily includes two groves of trees planted in rows along the southern and western borders of the Hambright Property. These groves consist mainly of even-aged seedling- to small-sized (2- to 24-inch diameter at breast height) eucalyptus (*Eucalyptus* sp.) trees with open to dense (25-100%) canopy closure. The understory is moderate to dense and dominated by annual grassland vegetation. Some eucalyptus trees are dying or are in poor health, providing snags and occasional open canopy areas in an otherwise dense tree stand. An additional row of eucalyptus and juniper (*Juniperus* sp.) trees occurs on the east side of the Hambright Property near the Interstate 5 right-of-way fence. Tree cover in this area is sparse to moderate (10-59 % canopy closure) with a dense annual grassland understory.

The riverine habitat consists of Hambright Creek. The creek enters the Hambright Property through a well-defined channel from the west. Within the Hambright Property, the creek loses its defined channel, as gravel extraction activities have removed the natural creek banks and floodplain. The stream flows through a network of excavated areas within the site, returning to the natural channel at the eastern portion of the Hambright Property, near Interstate-5. Stream substrates in Hambright Creek are generally small size classes, consisting of small cobble, gravel, sand, and silt.

The Hambright Property provides several wildlife habitats, including emergent and herbaceous wetland areas, shallow gravel/mudflat areas, and small annual grassland and woody riparian inclusions. Open water and riverine habitats also occur; and the lacustrine habitat continues to expand as gravel excavation continues. These habitats are used by numerous wetland and terrestrial wildlife species. Many wildlife species also use the eucalyptus and annual grassland habitats.

Habitats within the Hambright Property range from barren to early- and mid-seral stages, providing a mixture of habitat structure. Overall, each habitat type attracts various wildlife species which use the Hambright Property as a seasonal stopover location, during migration, or as a year-round residence. During these periods wildlife use includes several life history requisites such as roosting, foraging, and nesting.

Stantec noted 53 wildlife species during the 2018 site visit using one or more of the habitat types found on the Hambright Property; including one reptile, 49 birds, and three mammals. A list of wildlife species observed during the 2018 site visit, and a summary of habitat use by each species observed, is included as Appendix A.

KNIFE RIVER CONSTRUCTION COMPANY HAMBRIGHT PROPERTY: 2018 BIOLOGICAL CHARACTERIZATION SUMMARY REPORT

The CNDDDB database search and CWHR query results are included as Appendices B and C, respectively. Photographs showing representative habitats within the Hambright Property site are presented as Appendix D.

5.0 REFERENCES

- California Department of Fish and Wildlife. 2013. California Interagency Wildlife Task Group. CWHR Version 9.0 personal computer program. Sacramento, CA.
- Baldwin, B. G., D. H. Goldman, D. J. Kiel, R. Patterson, T. J. Rosatti, and D. H. Wilken, editors. 2012. The Jepson manual: vascular plants of California. 2nd edition. University of California Press, Berkeley, California, USA.
- Mayer, K. E., and W. F. Laudenslayer Jr., Editors. 1988. A Guide to Wildlife Habitats of California. California Department of Forestry and Fire Protection. Sacramento, California, USA. 166 pp.

Appendix A

List of Wildlife Species Observed and Summary of Habitat Use

**Summary of Wildlife Species Observed and Habitat Use¹. Hambright Property
Biological Characterization, Glenn County, California, 18 April 2018.**

SPECIES (LISTED BY COMMON NAME)	CWHR HABITAT TYPE ²			
	FEW	LAC/RIV	AGS	EUC
Reptiles and Amphibians				
Northwestern pond turtle	X	X		
Birds				
Greater white-fronted goose		X		
Canada goose (nesting)	X	X	X	
Mallard	X	X		
Wild turkey			X	X
Rock pigeon	X		X	X
Eurasian collard-dove			X	X
Mourning dove			X	X
Anna's hummingbird	X		X	X
American coot	X	X		
Killdeer	X	X		
Greater yellowlegs	X	X		
Caspian tern	X	X		
Double-crested cormorant	X	X		
Great blue heron	X	X	X	
Great egret	X	X	X	
Green heron	X	X		X
Turkey vulture	X	X	X	X
Bald eagle	X	X		
Northern harrier	X	X	X	X
Cooper's hawk				X
Red-shouldered hawk (nesting)				X
Red-tailed hawk				X
Belted kingfisher	X	X		X
Nuttall's woodpecker				X
Ash-throated flycatcher			X	X
Western kingbird	X	X	X	X
California scrub jay				X
Yellow-billed magpie			X	X
Purple martin		X	X	X
Tree swallow	X	X	X	X
Northern rough-winged swallow	X	X	X	X
House wren	X		X	X
Bewick's wren	X		X	

**Summary of Wildlife Species Observed and Habitat Use¹. Hambright Property
Biological Characterization, Glenn County, California, 18 April 2018.**

SPECIES (LISTED BY COMMON NAME)	CWHR HABITAT TYPE ²			
	FEW	LAC/RIV	AGS	EUC
American robin			X	X
Northern mockingbird			X	X
European starling	X	X	X	X
House sparrow			X	X
House finch	X		X	X
Lesser goldfinch (nesting)	X			X
Common yellowthroat				X
Yellow-rumped warbler				X
California towhee			X	X
Savannah sparrow			X	
Lincoln's sparrow	X		X	
White-crowned sparrow	X		X	X
Golden-crowned sparrow	X		X	
Red-winged blackbird	X	X	X	
Brown-headed cowbird			X	X
Bullock's oriole			X	X
Mammals				
Black-tailed hare				X
Beaver (sign observed)	X	X	X	X
Black-tailed mule deer	X	X	X	X

¹ An "X" indicates species was observed in designated habitat type.

² California Wildlife Habitat Relationships System (CWHR) Habitat Types (Mayer and Laudenslayer 1988). FEW = Fresh emergent wetland; LAC = Lacustrine; RIV = Riverine; AGS = Annual grassland; EUC = Eucalyptus.

Appendix B

CNDDDB Database Query Results



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad IS (Kirkwood (3912272))

Map Index Number: 32334	EO Index: 2651
Key Quad: Kirkwood (3912272)	Element Code: AAABF02020
Occurrence Number: 67	Occurrence Last Updated: 1995-06-20

Scientific Name: <i>Spea hammondi</i>	Common Name: western spadefoot
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G3	CDFW_SSC-Species of Special Concern
State: S3	IUCN_NT-Near Threatened

General Habitat: OCCURS PRIMARILY IN GRASSLAND HABITATS, BUT CAN BE FOUND IN VALLEY-FOOTHILL HARDWOOD WOODLANDS.	Micro Habitat: VERNAL POOLS ARE ESSENTIAL FOR BREEDING AND EGG-LAYING.
--	--

Last Date Observed: 1978-04-22	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1978-04-22	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
WEST OF KIRKWOOD; IN RICE CREEK, NEXT TO CAPAY ROAD; APPROX. 1.1 KM EAST OF HIGHWAY 99.

Detailed Location:

Ecological:

Threats:

General:
2 SPADEFOOT TADPOLES OBSERVED.

PLSS: T23N, R03W, Sec. 10, SE (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4412156 E569772	Latitude/Longitude: 39.85657 / -122.18432	Elevation (feet): 232

County Summary: Tehama	Quad Summary: Kirkwood (3912272)
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Sources:
MCC78U0001 MCCRADY, A. (CALIFORNIA STATE UNIVERSITY, SACRAMENTO) - CORRESPONDENCE TO JOHN BRODE (DFG) REGARDING 22 WESTERN SPADEFOOT TOAD OBSERVATIONS DURING SPRING 1978. 1978-12-26



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	88104	EO Index:	89123
Key Quad:	Kirkwood (3912272)	Element Code:	ABNKC19070
Occurrence Number:	1996	Occurrence Last Updated:	2013-02-05

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2006-08-20	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2006-08-20	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
SOUTH SIDE OF COUNTY RD 2, ABOUT 0.3 MI W OF COUNTY RD P JUNCTION & 0.7 MI E OF COUNTY RD N JUNCTION, 3 MI W OF CAPAY.

Detailed Location:
MAPPED TO COORDINATES PROVIDED ON FIELD SURVEY FORM FOR RESSEGUIE'S SITE KIRKWOOD 3.

Ecological:
NEST AT 60% HEIGHT OF COTTONWOOD ON SOUTH SHOULDER OF MALTON SWITCH RD (RD 2).

Threats:
General:
NEST MONITORED 22 JUN TO 29 AUG 2006. 1 ADULT AND 1 JUVENILE OBSERVED, PRESUMED FLEDGED.

PLSS: T22N, R03W, Sec. 01, NE (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4405637 E573043	Latitude/Longitude: 39.79756 / -122.14680	Elevation (feet): 220

County Summary:	Quad Summary:
Glenn, Tehama	Kirkwood (3912272)

Sources:
RES06F0056 RESSEGUIE, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2006-08-10



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 33735	EO Index: 30787
Key Quad: Kirkwood (3912272)	Element Code: ABPBXB0020
Occurrence Number: 323	Occurrence Last Updated: 2016-11-16

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: Candidate Endangered	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, AND FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1999-06-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2000-06-21	Occurrence Rank: Excellent
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
GAY CREEK, JUST PAST THE I-5 AND GLENN/TEHAMA COUNTY LINE.

Detailed Location:
1972 LOCATION WAS "GAY CREEK, JUST PAST GLENN COUNTY." COLONY DATA STORED IN THE UC DAVIS TRBL PORTAL; SITE NAMES WERE "GAY CREEK #1/#2." MAPPED ACCORDING TO PROVIDED COORDINATES AND LOCATION IN PORTAL.

Ecological:
HABITAT IN 1972 WAS TULE, BLACKBERRIES, WILLOWS, AND COTTONWOOD IN VICINITY; NESTS IN TULE, SIZE OF COLONY ABOUT 2 ACRES. FORAGING AT DAIRY, IRRIGATED PASTURE, AND DRY RANGE.

Threats:
General:
ABOUT 2,000 BIRDS AND 1,500 NESTS OBSERVED ON 6 JUN 1972; BIRDS HAD ALREADY FLEDGED. ANECDOTALLY REPORTED AS NESTING IN 1993. ABOUT 5,000 FEMALES OBSERVED ON 11 JUN 1999; INCUBATING, NESTS WITH EGGS CONFIRMED. 0 BIRDS OBS ON APR & JUN 2000.

PLSS: T23N, R03W, Sec. 33, SE (M)	Accuracy: nonspecific area	Area (acres): 74
UTM: Zone-10 N4405823 E568233	Latitude/Longitude: 39.79963 / -122.20297	Elevation (feet): 270

County Summary: Glenn, Tehama	Quad Summary: Kirkwood (3912272)
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Sources:

BEE91R0001	BEEDEY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
DFG04U0002	CALIFORNIA DEPARTMENT OF FISH & GAME - TRICOLORED BLACKBIRD BREEDING OBSERVATIONS 1980-2000, BIOS DS20. 2004-XX-XX
HAM99F0024	HAMILTON, W. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR 1999-06-11
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX
WOL00F0003	WOLDER, M. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR 2000-04-25



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: A0599	EO Index: 102155	
Key Quad: Kirkwood (3912272)	Element Code: ABPBXB0020	
Occurrence Number: 896	Occurrence Last Updated: 2016-07-08	

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: Candidate Endangered	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, AND FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1936-05-27	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1936-05-27	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG STONY CREEK, 1 MILE NE OF I-5 & HWY 32 INTERSECTION, N OF ORLAND.

Detailed Location:
1936 LOCATION DESCRIBED ONLY AS "NEAR ORLAND." EXACT LOCATION UNKNOWN. HABITAT WAS ALONG A CREEK AND THEREFORE MAPPED AS BEST GUESS TO STONY CREEK ON N SIDE OF HISTORIC ORLAND. 2014 SURVEY LIKELY NOT AT THE SAME LOCATION AS 1936 SURVEY.

Ecological:
HABITAT IN 1936 DESCRIBED AS CATTAILS ALONG CREEK.

Threats:
General:
A COLONY COMPOSED OF ABOUT 750 PAIRS OBSERVED ON 27 MAY 1936 (NEFF 1937). 0 BIRDS OBSERVED IN GENERAL AREA OF ORLAND CITY PROPER ON 18 APR 2014. COLONY PRESUMED EXTERMINATED BY BEEDY (1991).

PLSS: T22N, R03W, Sec. 15 (M)	Accuracy: 1 mile	Area (acres): 1,987
UTM: Zone-10 N4401491 E569588	Latitude/Longitude: 39.7605 / -122.1876	Elevation (feet): 247

County Summary: Glenn	Quad Summary: Orland (3912262), Kirkwood (3912272)
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Sources:

BEE91R0001	BEEDY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
NEF37R0001	NEFF, J.A. - DISTRIBUTION OF THE TRICOLORED RED WING. THE CONDOR 39(2): 61-81. 1937-03-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 09754

EO Index: 15612

Key Quad: Foster Island (3912271)

Element Code: CTT61430CA

Occurrence Number: 18

Occurrence Last Updated: 1998-07-23

Scientific Name: *Great Valley Valley Oak Riparian Forest*

Common Name: Great Valley Valley Oak Riparian Forest

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists:

CNDDDB Element Ranks: **Global:** G1

State: S1.1

General Habitat:

Micro Habitat:

Last Date Observed: 1980-XX-XX

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1980-XX-XX

Occurrence Rank: Unknown

Owner/Manager: PVT

Trend: Unknown

Presence: Presumed Extant

Location:

APPROX 0.5 MILE SE OF KIRKWOOD, EAST OF CAPAY ROAD, ALONG RICE CREEK & BURCH CREEK.

Detailed Location:

Ecological:

BROAD CORRIDOR OF CONTIGUOUS OAK WOODLANDS W/BLEUE OAK & VALLEY OAK; TYPICAL OF FOOTHILLS BUT HERE ON VALLEY FLOOR. VALLEY OAK INCREASES IN DOMINANCE CLOSER TO SACRAMENTO RIVER. VARIOUS AGE CLASSES PRESENT BUT NO SAPLING OAKS.

Threats:

DIRT ROADS, CLEARING & GRAZING DISTURBANCE, THREATS.

General:

SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T23N, R02W, Sec. 17 (M)

Accuracy: specific area

Area (acres): 896

UTM: Zone-10 N4410944 E575222

Latitude/Longitude: 39.84518 / -122.12075

Elevation (feet): 190

County Summary:

Quad Summary:

Tehama

Foster Island (3912271), Kirkwood (3912272)

Sources:

BUR80U0001 BURKE, M.T. - ELEMENT PRESERVATION PLAN: VALLEY OAK WOODLAND (THE NATURE CONSERVANCY). 1980-XX-XX

DFG76M0001 CALIFORNIA DEPARTMENT OF FISH & GAME - CENTRAL VALLEY RIPARIAN MAPPING PROJECTS; 7 1/2' MAPS 1976-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 33202	EO Index: 2652
Key Quad: Henleyville (3912283)	Element Code: ICBRA03030
Occurrence Number: 15	Occurrence Last Updated: 2014-07-10

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MOUNTAINS, AND SOUTH COAST MOUNTAINS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2013-03-18	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2013-03-18	Occurrence Rank: Fair
Owner/Manager: PVT-PGE	Trend: Unknown
Presence: Presumed Extant	

Location:
BLACKBURN MITIGATION BANK AND ALONG PG&E PIPELINE AND ACCESS ROAD, 5 MILES SW OF CORNING.

Detailed Location:
1990S DETECTIONS FROM HALL-STONY CREEK RESTORATION SITE; IN >7 MILE SECTION OF PG&E PIPELINE RIGHT-OF-WAY; LOCATION GIVEN ONLY FOR POOL #H-2. MAPPED GENERALLY TO #H-2 & TO SPECIFIC LOCS GIVEN FOR BLACKBURN MITIGATION BANK POOLS (2005-2013).

Ecological:
NATURAL VERNAL POOLS AND SWALES IN ANNUAL GRASSLAND WITH SOME EUCALYPTUS STANDS AND OPEN WATER. DETECTIONS FROM 2000S ON 631-ACRE MITIGATION BANK. SURROUNDING LAND USES: CATTLE GRAZING, TIMBER FARMING.

Threats:
POSSIBLE THREATS: ALTERATION OF HYDROLOGIC CONDITIONS DUE TO PLOWING; TIMBER PRODUCTION-CLEARING OF EUCALYPTUS (1995).

General:
PRESENT, 1992. BODY PARTS FOUND IN #H-2, 1995; 1 COLLECTED (CASIZ #102860). 10S-1000S IN 9 POOLS, '96-97. 1000S PRESENT, 2005. IN 30 OF 190 PLS, '07; IN 95/195, '08. EST. POP 1000 IN '09, 100S IN '11. IN 13/205 PLS, '13.

PLSS: T23N, R04W, Sec. 02 (M)	Accuracy: nonspecific area	Area (acres): 472
UTM: Zone-10 N4414281 E562101	Latitude/Longitude: 39.87631 / -122.27379	Elevation (feet): 370

County Summary: Tehama	Quad Summary: Kirkwood (3912272), Black Butte Dam (3912273), Corning (3912282), Henleyville (3912283)
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Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

ARN96F0003	ARNOLD, R. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1996-01-29
ARN96F0004	ARNOLD, R. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1996-01-29
ARN96U0001	ARNOLD, R. - RECORD OF TELEPHONE CONVERSATION REGARDING VERNAL POOL LOCALITIES FROM 1996 SURVEY ON HALL/STONY CREEK SITE OF PGT/PG&E PIPELINE EXPANSION PROJECT. 1996-08-14
ARN97F0001	ARNOLD, R. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1997-12-22
ARN97F0002	ARNOLD, R. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1997-12-22
ARN97R0008	ARNOLD, R. (ENTOMOLOGICAL CONSULTING SERVICES) - PRT-797233 FOR VERNAL POOL CRUSTACEANS, 1997 VERNAL POOL CRUSTACEAN ANNUAL SURVEY REPORT, PGT-PG&E PIPELINE EXPANSION PROJECT 1997-06-28
ARN98R0001	ARNOLD, R. (ENTOMOLOGICAL CONSULTING SERVICES) - PRT-797233 FOR VERNAL POOL CRUSTACEANS, PGT-PG&E PIPELINE EXPANSION PROJECT. 1998 VERNAL POOL CRUSTACEAN SURVEY REPORT. 1998-06-14
FIE95S0003	FIELDS, W. - CASIZ #102860, COLLECTED AT "PG&E GAS PIPELINE CORRIDOR, JUST SOUTH OF MF HALL CREEK, POOL H2." 1995-02-23
GAR95F0006	GARMAN, G. (PRUNUSKE CHATHAM, INC.) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1995-02-23
KIN96R0001	KING, J. ET AL. - HYDROBIOLOGIA (IN PRESS) 1996. ENDEMISM, SPECIES RICHNESS, AND ECOLOGY OF CRUSTACEAN ASSEMBLAGES IN NORTHERN CALIFORNIA VERNAL POOLS 1996-XX-XX
MUN05F0003	MUNSON, S. (WILDLANDS, INC.) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2005-01-13
MUN11F0001	MUNSON, S. (WILDLANDS, INC.) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2011-02-04
PRU95R0001	PRUNUSKE CHATHAM, INC. - 1995 VERNAL POOL CRUSTACEAN SURVEY REPORT FOR PGT-PG&E PIPELINE EXPANSION PROJECT (VERNAL POOL FAIRY SHRIMP, VERNAL POOL TADPOLE SHRIMP, CONSERVANCY FAIRY SHRIMP) 1995-05-XX
ROB09F0005	ROBINSON, J. (WILDLANDS, INC.) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2009-03-05
WIL07R0001	WILDLANDS, INC. - VERNAL POOL BRANCHIOPOD SURVEY, 2007 ANNUAL REPORT 2007-11-XX
WIL08R0001	WILDLANDS, INC. - VERNAL POOL BRANCHIOPOD SURVEY, 2008 ANNUAL REPORT 2008-03-18
WIL13R0001	WILDLANDS, INC. - VERNAL POOL BRANCHIOPOD SURVEY 2013 ANNUAL REPORT, FEDERAL PERMIT NO. TE-035879-5 2013-06-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	79091	EO Index:	80058
Key Quad:	Kirkwood (3912272)	Element Code:	ICBRA03030
Occurrence Number:	629	Occurrence Last Updated:	2014-07-03

Scientific Name:	<i>Branchinecta lynchi</i>	Common Name:	vernal pool fairy shrimp
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	IUCN_VU-Vulnerable
CNDDB Element Ranks:	Global: G3		
	State: S3		

General Habitat:	Micro Habitat:
ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MOUNTAINS, AND SOUTH COAST MOUNTAINS, IN ASTATIC RAIN-FILLED POOLS.	INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Last Date Observed:	2007-01-12	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2007-01-12	Occurrence Rank:	Fair
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
0.5 MILE SOUTH OF INTERSECTION OF COUNTY ROAD 9 AND COUNTY ROAD P, NORTH SIDE OF STONY CREEK, NE OF ORLAND.

Detailed Location:
JUST WEST OF COUNTY ROAD P. 2006: INSTARS COLLECTED FROM 1 BASIN (HBC1); DRY SAMPLES IN CAS FROM WF68, 70, 71, & 72; AND HCB1, 2, 3, & 5. 2007: WET SEASON DETECTIONS FROM WF67, 70, & 71 AND HBC3.

Ecological:
51 BASINS PROVIDING POTENTIAL LARGE BRANCHIOPOD HABITAT, ON 250-ACRE PARCEL SLATED FOR SAND/GRAVEL EXTRACTION FOLLOWED BY RESTORATION.

Threats:
SAND AND GRAVEL EXTRACTION.

General:
HATCHLINGS COLLECTED 11 SEP 2006 REARED TO ADULT B. LYNCHI FROM HBC1; DRY SAMPLES POSITIVELY IDED FROM 7 OTHER POOLS (CASIZ #191946-191948, 191950-191954); CYSTS IN ANOTHER 12 POOLS. ADULTS COMMON IN 3 POOLS, PRESENT IN A 4TH, 12 JAN 2007.

PLSS:	T22N, R03W, Sec. 13, E (M)	Accuracy:	specific area	Area (acres):	25
UTM:	Zone-10 N4401632 E573550	Latitude/Longitude:	39.76144 / -122.14133	Elevation (feet):	225

County Summary:	Quad Summary:
Glenn	Kirkwood (3912272)



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

HEL06F0043	HELM, B. (HELM BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2006-09-11
HEL06S0020	HELM, B. - HELM #WF-68 CASIZ #191954, COLLECTED "E OF TEHAMA CANAL, S OF WYOMING ROAD (COUNTY ROAD 9)" 2006-09-11
HEL06S0021	HELM, B. - HELM #WF-72 CASIZ #191953, COLLECTED "E OF TEHAMA CANAL, S OF WYOMING ROAD (COUNTY ROAD 9)" 2006-09-11
HEL06S0022	HELM, B. - HELM #WF-70 CASIZ #191952, COLLECTED "E OF TEHAMA CANAL, S OF WYOMING ROAD (COUNTY ROAD 9)" 2006-09-11
HEL06S0023	HELM, B. - HELM #HBC-03 CASIZ #191951, COLLECTED "E OF TEHAMA CANAL, S OF WYOMING ROAD (COUNTY ROAD 9)" 2006-09-11
HEL06S0024	HELM, B. - HELM #HBC-02 CASIZ #191950, COLLECTED "E OF TEHAMA CANAL, S OF WYOMING ROAD (COUNTY ROAD 9)" 2006-09-11
HEL06S0025	HELM, B. - HELM #HBC-01 CASIZ #191948, COLLECTED "E OF TEHAMA CANAL, S OF WYOMING ROAD (COUNTY ROAD 9)" 2006-09-11
HEL06S0026	HELM, B. - HELM #HBC-05 CASIZ #191947, COLLECTED "E OF TEHAMA CANAL, S OF WYOMING ROAD (COUNTY ROAD 9)" 2006-09-11
HEL06S0027	HELM, B. - HELM #VF-71 CASIZ #191946, COLLECTED "E OF TEHAMA CANAL, S OF WYOMING ROAD (COUNTY ROAD 9)" 2006-09-11
HEL07R0012	HELM, B. (HELM BIOLOGICAL CONSULTING) - FEDERALLY-LISTED LARGE BRANCHIOPODS SAMPLING AT THE STONY CREEK PROJECT 2007-08-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 92970	EO Index: 94125
Key Quad: Kirkwood (3912272)	Element Code: ICBRA03030
Occurrence Number: 649	Occurrence Last Updated: 2014-06-30

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MOUNTAINS, AND SOUTH COAST MOUNTAINS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 1980-02-05	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1980-02-05	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
WEST SIDE OF OLD HWY 99W, ABOUT 0.4 MILE NORTH OF THE TEHAMA-GLENN COUNTY LINE, 4 MILES NORTH OF ORLAND.

Detailed Location:
MAPPED TO GIVEN LOCALITY.

Ecological:
Threats:

General:
2 COLLECTED FROM POOL ON 5 FEB 1980 (USNM #1156050).

PLSS: T23N, R03W, Sec. 33, SE (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4406287 E568594	Latitude/Longitude: 39.80379 / -122.19869	Elevation (feet): 280

County Summary: Tehama	Quad Summary: Kirkwood (3912272)
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Sources:
ENG80S0002 ENG, L. & J. BRODE - USNM #1156050, COLLECTED FROM "POOL, WEST SIDE OF OLD HIGHWAY 99 WEST, 0.4 MI NORTH OF TEHAMA COUNTY LINE." 1980-02-05



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 81460	EO Index: 82436
Key Quad: Kirkwood (3912272)	Element Code: ICBRA06010
Occurrence Number: 385	Occurrence Last Updated: 2011-01-25

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TOTAL DISSOLVED SOLIDS.
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Last Date Observed: 2006-09-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-09-11	Occurrence Rank: Fair
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG SOUTH SIDE OF STONY CREEK, 1 MILE NW JUNCTION OF SR 32 AND COUNTY ROAD P, ABOUT 2.4 MILES NE THE ORLAND PO.

Detailed Location:
BASIN HBC8; STONY CREEK PROJECT SITE. LOCATION MAPPED TO PROVIDED MAP.

Ecological:
HABITAT ON PROJECT SITE CONSISTS OF VERNAL POOLS AND FRESH EMERGENT WETLANDS.

Threats:

General:
UNKNOWN NUMBER OBSERVED ON 11 SEP 2006.

PLSS: T22N, R03W, Sec. 13, SW (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4401303 E572542	Latitude/Longitude: 39.75856 / -122.15314	Elevation (feet): 230

County Summary: Glenn	Quad Summary: Kirkwood (3912272)
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Sources:
HEL06F0047 HELM, B. (HELM BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 2006-09-11



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	81462	EO Index:	82439
Key Quad:	Kirkwood (3912272)	Element Code:	ICBRA06010
Occurrence Number:	386	Occurrence Last Updated:	2011-01-25

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat:	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TOTAL DISSOLVED SOLIDS.
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Last Date Observed:	2006-09-11	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2006-09-11	Occurrence Rank:	Fair
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 JUST SOUTH & (PRIMARILY) NORTH OF STONY CK, FROM COUNTY RD P TO 0.8 MI W OF COUNTY RD P, ABOUT 2.8 MI NE THE ORLAND PO.

Detailed Location:
 BASINS HBC5, HBC14, WF40, WF41, WF42, WF43, WF44, WF48, WF55, WF56, WF60, WF67, WF70, WF77, AND WF96; STONY CREEK PROJECT SITE. LOCATION MAPPED TO PROVIDED MAP.

Ecological:
 HABITAT ON PROJECT SITE CONSISTS OF VERNAL POOLS AND FRESH EMERGENT WETLANDS.

Threats:
General:
 UNKNOWN NUMBER OBSERVED ON 11 SEP 2006.

PLSS: T22N, R03W, Sec. 13 (M)	Accuracy: specific area	Area (acres): 63
UTM: Zone-10 N4401902 E573167	Latitude/Longitude: 39.76390 / -122.14577	Elevation (feet): 225

County Summary:	Quad Summary:
Glenn	Kirkwood (3912272)

Sources:
 HEL06F0047 HELM, B. (HELM BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 2006-09-11



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 79092	EO Index: 80059	
Key Quad: Kirkwood (3912272)	Element Code: ICBRA10010	
Occurrence Number: 270	Occurrence Last Updated: 2015-01-12	

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDDB Element Ranks:	
Global: G4	
State: S3S4	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS-BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED AND HIGHLY TURBID.
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Last Date Observed: 2006-09-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-09-11	Occurrence Rank: Fair
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
AREA 0.6 MILE SOUTH JUNCTION OF COUNTY ROAD 9 AND COUNTY ROAD P, NORTH/SOUTH OF STONY CREEK AND ABOUT 2.5 MI ENE ORLAND.

Detailed Location:
BASIN HBC1 NORTH OF CREEK, JUST WEST OF COUNTY ROAD P AND ABOUT 0.5 MILE SOUTH OF COUNTY ROAD 9. BASINS WF60 AND WF63 SOUTH OF CREEK AND 0.1-0.2 MILES WEST OF COUNTY ROAD P. LOCATION MAPPED TO PROVIDED MAP.

Ecological:
STONY CREEK PROJECT SITE. 42.53 ACRES OF WETLAND ON 250 ACRE PARCEL SLATED FOR SAND AND GRAVEL EXTRACTION FOLLOWED BY HABITAT CREATION AND RESTORATION.

Threats:

General:
CYSTS WERE OBSERVED IN SOILS COLLECTED FROM 3 BASINS ON 11 SEP 2006.

PLSS: T22N, R03W, Sec. 13, SE (M)	Accuracy: specific area	Area (acres): 24
UTM: Zone-10 N4401333 E573231	Latitude/Longitude: 39.75877 / -122.14508	Elevation (feet): 223

County Summary: Glenn	Quad Summary: Kirkwood (3912272)
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Sources:

HEL06F0046	HELM, B. (HELM BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2006-09-11
HEL07R0012	HELM, B. (HELM BIOLOGICAL CONSULTING) - FEDERALLY-LISTED LARGE BRANCHIOPODS SAMPLING AT THE STONY CREEK PROJECT 2007-08-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 79094	EO Index: 80060	
Key Quad: Kirkwood (3912272)	Element Code: ICBRA10010	
Occurrence Number: 271	Occurrence Last Updated: 2015-01-12	

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDDB Element Ranks:	
Global: G4	
State: S3S4	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS-BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED AND HIGHLY TURBID.
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Last Date Observed: 2006-09-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-09-11	Occurrence Rank: Fair
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
AREA 0.5 MILE SW THE JUNCTION OF COUNTY ROAD 9 AND COUNTY ROAD P, NORTH OF STONY CREEK, ABOUT 2.5 MILES ENE ORLAND.

Detailed Location:
BASIN WF41: 0.3 MI S OF COUNTY RD 9 AND 0.5 MI W OF COUNTY RD P. BASIN WF96: 0.3 MI S OF COUNTY RD 9 AND 0.4 MI W OF COUNTY RD P. BASIN WF52: 1/4 MI S OF COUNTY RD 9 & 0.3 MI W OF COUNTY RD P. LOCATIONS MAPPED TO PROVIDED MAP.

Ecological:
STONY CREEK PROJECT SITE. 42.53 ACRES OF WETLAND ON 250 ACRE PARCEL SLATED FOR SAND AND GRAVEL EXTRACTION FOLLOWED BY HABITAT CREATION AND RESTORATION.

Threats:
General:
CYSTS WERE OBSERVED IN SOILS COLLECTED FROM 3 BASINS ON 11 SEP 2006.

PLSS: T22N, R03W, Sec. 13, N (M)	Accuracy: specific area	Area (acres): 17
UTM: Zone-10 N4401904 E572893	Latitude/Longitude: 39.76394 / -122.14897	Elevation (feet): 225

County Summary:	Quad Summary:
Glenn	Kirkwood (3912272)

Sources:

HEL06F0046	HELM, B. (HELM BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2006-09-11
HEL07R0012	HELM, B. (HELM BIOLOGICAL CONSULTING) - FEDERALLY-LISTED LARGE BRANCHIOPODS SAMPLING AT THE STONY CREEK PROJECT 2007-08-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	97275	EO Index:	98541
Key Quad:	Orland (3912262)	Element Code:	IIHYM24480
Occurrence Number:	7	Occurrence Last Updated:	2015-08-19

Scientific Name:	<i>Bombus crotchii</i>	Common Name:	Crotch bumble bee
Listing Status:	Federal: None	Rare Plant Rank:	
	State: None	Other Lists:	
CNDDDB Element Ranks:	Global: G3G4		
	State: S1S2		

General Habitat:	Micro Habitat:
COASTAL CALIFORNIA EAST TO THE SIERRA-CASCADE CREST AND SOUTH INTO MEXICO.	FOOD PLANT GENERA INCLUDE ANTIRRHINUM, PHACELIA, CLARKIA, DENDROMECON, ESCHSCHOLZIA, AND ERIOGONUM.

Last Date Observed:	1952-07-02	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1952-07-02	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
ORLAND.

Detailed Location:
EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB IN THE GENERAL VICINITY OF ORLAND.

Ecological:
Threats:

General:
COLLECTED 2 JUL 1952.

PLSS: T22N, R03W, Sec. 22 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4400031 E569156	Latitude/Longitude: 39.74738 / -122.19279	Elevation (feet): 250

County Summary:	Quad Summary:
Glenn	Orland (3912262), Kirkwood (3912272)

Sources:
ANO52S0010 ANONYMOUS - EMEC #554358 COLLECTED FROM ORLAND 1952-07-02



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	09543	EO Index:	4654
Key Quad:	Kirkwood (3912272)	Element Code:	PDCAR0L0V0
Occurrence Number:	3	Occurrence Last Updated:	2013-07-30

Scientific Name:	<i>Paronychia ahartii</i>	Common Name:	Ahart's paronychia
Listing Status:	Federal: None State: None	Rare Plant Rank:	1B.1
CNDDDB Element Ranks:	Global: G3 State: S3	Other Lists:	BLM_S-Sensitive

General Habitat:	Micro Habitat:
VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS, CISMONTANE WOODLAND.	STONY, NEARLY BARREN CLAY OF SWALES AND HIGHER GROUND AROUND VERNAL POOLS. 30-510 M.

Last Date Observed:	1955-06-12	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1955-06-12	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
8.5 MILES SOUTH OF CORNING.

Detailed Location:
EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB AROUND 8.5 MILES SOUTH OF CORNING IN THE VICINITY OF I-5.

Ecological:
HIGHER GROUND AROUND VERNAL POOL DEPRESSIONS. ASSOC WITH CHLOROGALUM ANGUSTIFOLIUM, POLYGONUM CALIFORNICUM, NAVARRETIA PUBESCENS, N. HETERANDRA, AND N. TAGETINA. ON THE VERNAL POOL BEDS WERE BOISDUVALIA CLEISTOGAMA, ERYNGIUM VASEYI, ETC.

Threats:

General:
TYPE LOCALITY. ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1955 COLLECTION BY HOWELL. NEEDS FIELDWORK.

PLSS:	T23N, R03W, Sec. 27 (M)	Accuracy:	1 mile	Area (acres):	0
UTM:	Zone-10 N4407980 E568777	Latitude/Longitude:	39.81903 / -122.19638	Elevation (feet):	280

County Summary:	Quad Summary:
Tehama	Kirkwood (3912272)

Sources:
HOW55S0003 HOWELL, J. - HOWELL #30307 CAS #637932, CHSC #47401, GH #37783, NY #342566, SEINET #4855735, RM #0002173 1955-06-12



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 09545	EO Index: 5892	
Key Quad: Kirkwood (3912272)	Element Code: PDCAR0L0V0	
Occurrence Number: 4	Occurrence Last Updated: 2013-07-30	

Scientific Name: <i>Paronychia ahartii</i>	Common Name: Ahart's paronychia
Listing Status:	Rare Plant Rank: 1B.1
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS, CISMONTANE WOODLAND.	Micro Habitat: STONY, NEARLY BARREN CLAY OF SWALES AND HIGHER GROUND AROUND VERNAL POOLS. 30-510 M.
--	---

Last Date Observed: 1958-04-23	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1958-04-23	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
LOWER PORTIONS OF THE KIRKWOOD PLAINS; 2 MILES WEST OF KIRKWOOD, 0.5 MILE WEST OF HWY 99, AND ABOUT 7 MI S OF CORNING.

Detailed Location:
EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB AROUND 0.5 MILE WEST OF I-5 BETWEEN RICE CREEK AND SOUR GRASS CREEK.

Ecological:

Threats:

General:

ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1958 COLLECTION BY BACIGALUPI. NEEDS FIELDWORK.

PLSS: T23N, R03W, Sec. 16 (M)	Accuracy: nonspecific area	Area (acres): 378
UTM: Zone-10 N4411244 E567871	Latitude/Longitude: 39.84851 / -122.20663	Elevation (feet): 290

County Summary: Tehama	Quad Summary: Kirkwood (3912272)
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Sources:
BAC58S0002 BACIGALUPI, R., ET AL. - BACIGALUPI #6290 JEPS #22646, #82504, RSA #18692, SD #131826, UCR #71528, HSC #89828, SBBG #100031, DAV #98357, LA #106659 1958-04-23



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 56512	EO Index: 56528
Key Quad: Kirkwood (3912272)	Element Code: PDEUP0D1P1
Occurrence Number: 4	Occurrence Last Updated: 2011-09-16

Scientific Name: <i>Euphorbia ocellata ssp. rattanii</i>	Common Name: Stony Creek spurge
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDDB Element Ranks:	
Global: G4T3	
State: S3	

General Habitat: VALLEY AND FOOTHILL GRASSLAND, CHAPARRAL.	Micro Habitat: SANDY OR ROCKY SOILS. 85-800 M.
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Last Date Observed: 1935-10-16	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1935-10-16	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
STONY CREEK, 2 MILES NORTH OF ORLAND.

Detailed Location:
EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB IN THE VICINITY OF STONY CREEK, 2 MILES N OF ORLAND, NEAR I-5.

Ecological:
PROSTRATE ON DRY, SUNNY GRAVEL OF FLOOD-BED CREEK. WITH CHRYSOLEPSIS, MENTZELIA LAEVICAILIS AND BRICKELLIA CALIFORNICA.

Threats:
General:
TYPE LOCALITY. MAIN SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1935 WHEELER COLLECTION. 1884 COLLECTION BY RATTAN FROM "STONY CREEK" ATTRIBUTED TO THIS SITE. NEEDS FIELDWORK.

PLSS: T22N, R03W, Sec. 09 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4403311 E567425	Latitude/Longitude: 39.77707 / -122.21265	Elevation (feet): 270

County Summary: Glenn	Quad Summary: Kirkwood (3912272)
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Sources:

RAT84S0002	RATTAN, V. - RATTAN SN JEPS #2596 1884-06-XX
TAY93U0004	TAYLOR, D. - LETTER TO CNPS REGARDING SEVERAL PLANTS INCLUDING ATRIPLEX PERSISTENS, ATRIPLEX JOAQUINIANA, ALLIUM SANBORNII SANBORNII, CAREX COMOSA & CAMISSONIA SIERRAE ALTICOLA. 1993-10-06
WHE35S0004	WHEELER, L. - WHEELER #4041 UC #869044, UCR #66588, RSA #498981 & #70382 1935-10-16



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 09543	EO Index: 4653
Key Quad: Kirkwood (3912272)	Element Code: PDPLM0C0E1
Occurrence Number: 17	Occurrence Last Updated: 1994-08-05

Scientific Name: <i>Navarretia leucocephala ssp. bakeri</i>	Common Name: Baker's navarretia
Listing Status:	Rare Plant Rank: 1B.1
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G4T2	
State: S2	

General Habitat: CISMONTANE WOODLAND, MEADOWS AND SEEPS, VERNAL POOLS, VALLEY AND FOOTHILL GRASSLAND, LOWER MONTANE CONIFEROUS FOREST.	Micro Habitat: VERNAL POOLS AND SWALES; ADOBE OR ALKALINE SOILS. 3-1680 M.
--	--

Last Date Observed: 1955-06-12	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1955-06-12	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
8.5 MILES SOUTH OF CORNING.

Detailed Location:
Ecological:
DRIED BED OF VERNAL POOL.

Threats:
General:
ONLY SOURCE OF INFORMATION ON THIS SITE IS 1955 COLLECTION BY HOWELL. COLLECTION LABEL SAYS "NAVARRETIA LEUCOCEPHALA, POSSIBLE VARIANT NEAR SSP. BAKERI."

PLSS: T23N, R03W, Sec. 27 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4407980 E568777	Latitude/Longitude: 39.81903 / -122.19638	Elevation (feet): 280

County Summary: Tehama	Quad Summary: Kirkwood (3912272)
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Sources:
HOW55S0006 HOWELL, J. - HOWELL #30303 CAS #413546 1955-06-12

Appendix C

CWHR Database Query Results



CALIFORNIA WILDLIFE HABITAT RELATIONSHIPS SYSTEM
supported by the
CALIFORNIA INTERAGENCY WILDLIFE TASK GROUP
and maintained by the
CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE
Database Version: 9.0

SPECIES SUMMARY REPORT

FE = Federal Endangered CF = California Fully Protected PT = Federally-Proposed Threatened CD = CDF Sensitive
 FT = Federal Threatened CP = California Protected FC = Federal Candidate HA = Harvest
 CE = California Endangered SC = California Species of Special Concern BL = BLM Sensitive
 CT = California Threatened PE = Federally-Proposed Endangered FS = USFS Sensitive

Note: Any given status code for a species may apply to the full species or to only one or more subspecies or distinct population segments.

ID	Species Name	Status	Native/Introduced
A006	ROUGH-SKINNED NEWT		NATIVE
A012	COMMON ENSATINA	SC BL FS	NATIVE
A014	CALIFORNIA SLENDER SALAMANDER		NATIVE
A020	SPECKLED BLACK SALAMANDER		NATIVE
A022	ARBOREAL SALAMANDER		NATIVE
A028	WESTERN SPADEFOOT	SC BL	NATIVE
A032	WESTERN TOAD		NATIVE
A039	PACIFIC TREEFROG		NATIVE
A043	FOOTHILL YELLOW-LEGGED FROG	SC BL FS	NATIVE
A046	AMERICAN BULLFROG		HA INTRODUCED
A048	COASTAL GIANT SALAMANDER		NATIVE
A071	CALIFORNIA RED-LEGGED FROG	FT SC	NATIVE
B003	COMMON LOON	SC	NATIVE
B006	PIED-BILLED GREBE		NATIVE
B007	HORNED GREBE		NATIVE
B009	EARED GREBE		NATIVE
B010	WESTERN GREBE		NATIVE
B042	AMERICAN WHITE PELICAN	SC	NATIVE
B044	DOUBLE-CRESTED CORMORANT		NATIVE
B049	AMERICAN BITTERN		NATIVE
B050	LEAST BITTERN	SC	NATIVE
B051	GREAT BLUE HERON		CD NATIVE
B052	GREAT EGRET		CD NATIVE
B053	SNOWY EGRET		NATIVE
B057	CATTLE EGRET		NATIVE
B058	GREEN HERON		NATIVE
B059	BLACK-CROWNED NIGHT HERON		NATIVE
B062	WHITE-FACED IBIS		NATIVE
B067	TUNDRA SWAN		NATIVE
B070	GREATER WHITE-FRONTED GOOSE	SC HA	NATIVE
B071	SNOW GOOSE		HA NATIVE
B072	ROSS' S GOOSE		HA NATIVE
B075	CANADA GOOSE		HA NATIVE
B076	WOOD DUCK		HA NATIVE
B077	GREEN-WINGED TEAL		HA NATIVE
B079	MALLARD		HA NATIVE
B080	NORTHERN PINTAIL		HA NATIVE
B082	BLUE-WINGED TEAL		HA NATIVE
B083	CINNAMON TEAL		HA NATIVE

ID	Species	Status	Native/Introduced
B084	NORTHERN SHOVELER		HA NATIVE
B085	GADWALL		HA NATIVE
B086	EURASIAN WIGEON		HA NATIVE
B087	AMERICAN WIGEON		HA NATIVE
B089	CANVASBACK		HA NATIVE
B090	REDHEAD	SC	HA NATIVE
B091	RING-NECKED DUCK		HA NATIVE
B094	LESSER SCAUP		HA NATIVE
B101	COMMON GOLDENEYE		HA NATIVE
B103	BUFFLEHEAD		HA NATIVE
B104	HOODED MERGANSER		HA NATIVE
B105	COMMON MERGANSER		HA NATIVE
B107	RUDDY DUCK		HA NATIVE
B108	TURKEY VULTURE		NATIVE
B110	OSPREY		CD NATIVE
B111	WHITE-TAILED KITE	CF	BL NATIVE
B113	BALD EAGLE	CE CF	BL FS CD NATIVE
B114	NORTHERN HARRIER	SC	NATIVE
B115	SHARP-SHINNED HAWK		NATIVE
B116	COOPER'S HAWK		NATIVE
B117	NORTHERN GOSHAWK	SC	BL FS CD NATIVE
B119	RED-SHOULDERED HAWK		NATIVE
B121	SWAINSON'S HAWK	CT	BL FS NATIVE
B123	RED-TAILED HAWK		NATIVE
B124	FERRUGINOUS HAWK		NATIVE
B125	ROUGH-LEGGED HAWK		NATIVE
B126	GOLDEN EAGLE	CF	BL CD NATIVE
B127	AMERICAN KESTREL		NATIVE
B128	MERLIN		NATIVE
B129	PEREGRINE FALCON	CF	CD NATIVE
B131	PRAIRIE FALCON		NATIVE
B133	RING-NECKED PHEASANT		HA INTRODUCED
B134	SOOTY GROUSE	SC	HA NATIVE
B138	WILD TURKEY		HA INTRODUCED
B140	CALIFORNIA QUAIL	SC	HA NATIVE
B141	MOUNTAIN QUAIL		HA NATIVE
B145	VIRGINIA RAIL		NATIVE
B146	SORA		NATIVE
B148	COMMON GALLINULE		HA NATIVE
B149	AMERICAN COOT		HA NATIVE
B150	SANDHILL CRANE	CT CF SC	BL FS NATIVE
B151	BLACK-BELLIED PLOVER		NATIVE
B156	SEMIPALMATED PLOVER		NATIVE
B158	KILLDEER		NATIVE
B159	MOUNTAIN PLOVER	SC	BL NATIVE
B163	BLACK-NECKED STILT		NATIVE
B164	AMERICAN AVOCET		NATIVE
B165	GREATER YELLOWLEGS		NATIVE
B166	LESSER YELLOWLEGS		NATIVE
B168	WILLET		NATIVE
B170	SPOTTED SANDPIPER		NATIVE
B172	WHIMBREL		NATIVE
B173	LONG-BILLED CURLEW		NATIVE

ID	Species	Status	Native/Introduced
B176	MARBLED GODWIT		NATIVE
B183	WESTERN SANDPIPER		NATIVE
B185	LEAST SANDPIPER		NATIVE
B191	DUNLIN		NATIVE
B193	STILT SANDPIPER		NATIVE
B196	SHORT-BILLED DOWITCHER		NATIVE
B197	LONG-BILLED DOWITCHER		NATIVE
B199	WILSON'S SNIPE		NATIVE
B200	WILSON'S PHALAROPE		NATIVE
B213	MEW GULL		NATIVE
B214	RING-BILLED GULL		NATIVE
B215	CALIFORNIA GULL		NATIVE
B216	HERRING GULL		NATIVE
B217	THAYER'S GULL		NATIVE
B227	CASPIAN TERN		NATIVE
B233	FORSTER'S TERN		NATIVE
B235	BLACK TERN	SC	NATIVE
B250	ROCK PIGEON		INTRODUCED
B255	MOURNING DOVE		HA NATIVE
B260	GREATER ROADRUNNER		NATIVE
B262	BARN OWL		NATIVE
B264	WESTERN SCREECH OWL		NATIVE
B265	GREAT HORNED OWL		NATIVE
B267	NORTHERN PYGMY OWL		NATIVE
B269	BURROWING OWL	SC BL	NATIVE
B272	LONG-EARED OWL	SC	NATIVE
B273	SHORT-EARED OWL	SC	NATIVE
B274	NORTHERN SAW-WHET OWL		NATIVE
B275	LESSER NIGHTHAWK		NATIVE
B277	COMMON POORWILL		NATIVE
B281	VAUX'S SWIFT	SC	NATIVE
B282	WHITE-THROATED SWIFT		NATIVE
B286	BLACK-CHINNED HUMMINGBIRD		NATIVE
B287	ANNA'S HUMMINGBIRD		NATIVE
B289	CALLIOPE HUMMINGBIRD		NATIVE
B291	RUFOUS HUMMINGBIRD		NATIVE
B292	ALLEN'S HUMMINGBIRD		NATIVE
B293	BELTED KINGFISHER		NATIVE
B294	LEWIS' S WOODPECKER		NATIVE
B296	ACORN WOODPECKER		NATIVE
B299	RED-BREASTED SAPSUCKER		NATIVE
B302	NUTTALL'S WOODPECKER		NATIVE
B303	DOWNY WOODPECKER		NATIVE
B304	HAIRY WOODPECKER		NATIVE
B307	NORTHERN FLICKER		NATIVE
B309	OLIVE-SIDED FLYCATCHER	SC	NATIVE
B311	WESTERN WOOD-PEWEE		NATIVE
B317	HAMMOND'S FLYCATCHER		NATIVE
B318	DUSKY FLYCATCHER		NATIVE
B320	PACIFIC-SLOPE FLYCATCHER		NATIVE
B321	BLACK PHOEBE		NATIVE
B323	SAY'S PHOEBE		NATIVE
B326	ASH-THROATED FLYCATCHER		NATIVE

ID	Species	Status	Native/Introduced
B333	WESTERN KINGBIRD		NATIVE
B337	HORNED LARK		NATIVE
B338	PURPLE MARTIN	SC	NATIVE
B339	TREE SWALLOW		NATIVE
B340	VIOLET-GREEN SWALLOW		NATIVE
B341	NORTHERN ROUGH-WINGED SWALLOW		NATIVE
B342	BANK SWALLOW	CT BL	NATIVE
B343	CLIFF SWALLOW		NATIVE
B344	BARN SWALLOW		NATIVE
B346	STELLER'S JAY		NATIVE
B348	WESTERN SCRUB-JAY		NATIVE
B352	YELLOW-BILLED MAGPIE		NATIVE
B353	AMERICAN CROW	HA	NATIVE
B354	COMMON RAVEN		NATIVE
B358	OAK TITMOUSE		NATIVE
B360	BUSHTIT		NATIVE
B361	RED-BREASTED NUTHATCH		NATIVE
B362	WHITE-BREASTED NUTHATCH		NATIVE
B364	BROWN CREEPER		NATIVE
B366	ROCK WREN		NATIVE
B368	BEWICK'S WREN	SC	NATIVE
B369	HOUSE WREN		NATIVE
B370	WINTER WREN		NATIVE
B372	MARSH WREN	SC	NATIVE
B373	AMERICAN DIPPER		NATIVE
B375	GOLDEN-CROWNED KINGLET		NATIVE
B376	RUBY-CROWNED KINGLET		NATIVE
B377	BLUE-GRAY GNATCATCHER		NATIVE
B380	WESTERN BLUEBIRD		NATIVE
B381	MOUNTAIN BLUEBIRD		NATIVE
B382	TOWNSEND'S SOLITAIRE		NATIVE
B385	SWAINSON'S THRUSH		NATIVE
B386	HERMIT THRUSH		NATIVE
B389	AMERICAN ROBIN		NATIVE
B390	VARIED THRUSH		NATIVE
B391	WRENTIT		NATIVE
B393	NORTHERN MOCKINGBIRD		NATIVE
B404	AMERICAN PIPIT		NATIVE
B407	CEDAR WAXWING		NATIVE
B408	PHAINOPEPLA		NATIVE
B410	LOGGERHEAD SHRIKE	FE SC	NATIVE
B411	EUROPEAN STARLING		INTRODUCED
B415	CASSIN'S VIREO		NATIVE
B417	HUTTON'S VIREO	SC	NATIVE
B418	WARBLING VIREO		NATIVE
B425	ORANGE-CROWNED WARBLER		NATIVE
B426	NASHVILLE WARBLER		NATIVE
B430	YELLOW WARBLER	SC	NATIVE
B435	YELLOW-RUMPED WARBLER		NATIVE
B436	BLACK-THROATED GRAY WARBLER		NATIVE
B437	TOWNSEND'S WARBLER		NATIVE
B438	HERMIT WARBLER		NATIVE
B460	MACGILLIVRAY'S WARBLER		NATIVE

ID	Species	Status		Native/Introduced
B461	COMMON YELLOWTHROAT		SC	NATIVE
B463	WILSON'S WARBLER			NATIVE
B471	WESTERN TANAGER			NATIVE
B475	BLACK-HEADED GROSBEAK			NATIVE
B476	BLUE GROSBEAK			NATIVE
B477	LAZULI BUNTING			NATIVE
B483	SPOTTED TOWHEE		SC	NATIVE
B484	CALIFORNIA TOWHEE	FT CE		NATIVE
B489	CHIPPING SPARROW			NATIVE
B494	VESPER SPARROW		SC	NATIVE
B495	LARK SPARROW			NATIVE
B499	SAVANNAH SPARROW	CE	SC	NATIVE
B501	GRASSHOPPER SPARROW		SC	NATIVE
B504	FOX SPARROW			NATIVE
B505	SONG SPARROW		SC	NATIVE
B506	LINCOLN'S SPARROW			NATIVE
B509	GOLDEN-CROWNED SPARROW			NATIVE
B510	WHITE-CROWNED SPARROW			NATIVE
B512	DARK-EYED JUNCO			NATIVE
B514	LAPLAND LONGSPUR			NATIVE
B519	RED-WINGED BLACKBIRD		SC	NATIVE
B520	TRICOLORED BLACKBIRD		SC BL	NATIVE
B521	WESTERN MEADOWLARK			NATIVE
B522	YELLOW-HEADED BLACKBIRD		SC	NATIVE
B524	BREWER'S BLACKBIRD			NATIVE
B528	BROWN-HEADED COWBIRD			NATIVE
B530	HOODED ORIOLE			NATIVE
B532	BULLOCK'S ORIOLE			NATIVE
B536	PURPLE FINCH			NATIVE
B538	HOUSE FINCH			NATIVE
B539	RED CROSSBILL			NATIVE
B542	PINE SISKIN			NATIVE
B543	LESSER GOLDFINCH			NATIVE
B544	LAWRENCE'S GOLDFINCH			NATIVE
B545	AMERICAN GOLDFINCH			NATIVE
B546	EVENING GROSBEAK			NATIVE
B547	HOUSE SPARROW			INTRODUCED
B548	CLARK'S GREBE			NATIVE
B554	PLUMBEOUS VIREO			NATIVE
B648	BAIRD'S SANDPIPER			NATIVE
B649	PECTORAL SANDPIPER			NATIVE
B655	RED-NECKED PHALAROPE			NATIVE
B773	AMERICAN REDSTART			NATIVE
B798	WHITE-THROATED SPARROW			NATIVE
B799	HARRIS'S SPARROW			NATIVE
B809	INDIGO BUNTING			NATIVE
M001	VIRGINIA OPOSSUM		HA	INTRODUCED
M010	WATER SHREW			NATIVE
M012	TROWBRIDGE'S SHREW			NATIVE
M015	SHREW-MOLE			NATIVE
M018	BROAD-FOOTED MOLE		SC	NATIVE
M021	LITTLE BROWN BAT			NATIVE
M023	YUMA MYOTIS		BL	NATIVE

ID	Species	Status	Native/Introduced
M025	LONG-EARED MYOTIS		BL NATIVE
M026	FRINGED MYOTIS		BL NATIVE
M027	LONG-LEGGED MYOTIS		NATIVE
M028	CALIFORNIA MYOTIS		NATIVE
M030	SILVER-HAIRED BAT		NATIVE
M031	CANYON BAT		NATIVE
M032	BIG BROWN BAT		NATIVE
M033	WESTERN RED BAT	SC FS	NATIVE
M034	HOARY BAT		NATIVE
M037	TOWNSEND'S BIG-EARED BAT	SC BL FS	NATIVE
M038	PALLID BAT	SC BL FS	NATIVE
M039	BRAZILIAN FREE-TAILED BAT		NATIVE
M042	WESTERN MASTIFF BAT	SC BL	NATIVE
M045	BRUSH RABBIT	FE CE	HA NATIVE
M047	AUDUBON'S COTTONTAIL		HA NATIVE
M051	BLACK-TAILED JACKRABBIT	SC	HA NATIVE
M072	CALIFORNIA GROUND SQUIRREL		NATIVE
M075	GOLDEN-MANTLED GROUND SQUIRREL		NATIVE
M077	WESTERN GRAY SQUIRREL		HA NATIVE
M081	BOTTA'S POCKET GOPHER		NATIVE
M084	MAZAMA POCKET GOPHER		NATIVE
M087	SAN JOAQUIN POCKET MOUSE	SC BL	NATIVE
M105	CALIFORNIA KANGAROO RAT	SC	NATIVE
M112	AMERICAN BEAVER		HA NATIVE
M113	WESTERN HARVEST MOUSE		NATIVE
M117	DEER MOUSE	SC	NATIVE
M119	BRUSH MOUSE		NATIVE
M120	PINYON MOUSE		NATIVE
M127	DUSKY-FOOTED WOODRAT	FE SC	NATIVE
M128	BUSHY-TAILED WOODRAT		NATIVE
M134	CALIFORNIA VOLE	FE CE SC BL	NATIVE
M139	COMMON MUSKRAT		HA NATIVE
M140	BLACK RAT		INTRODUCED
M141	NORWAY RAT		INTRODUCED
M142	HOUSE MOUSE		INTRODUCED
M143	WESTERN JUMPING MOUSE		NATIVE
M145	COMMON PORCUPINE		NATIVE
M146	COYOTE		HA NATIVE
M147	RED FOX	CT FS	HA NATIVE
M149	GRAY FOX		HA NATIVE
M151	BLACK BEAR		HA NATIVE
M152	RINGTAIL	CF	NATIVE
M153	RACCOON		HA NATIVE
M157	LONG-TAILED WEASEL		HA NATIVE
M158	AMERICAN MINK		HA NATIVE
M160	AMERICAN BADGER	SC	HA NATIVE
M161	WESTERN SPOTTED SKUNK	SC	HA NATIVE
M162	STRIPED SKUNK		HA NATIVE
M163	NORTHERN RIVER OTTER	SC	NATIVE
M165	MOUNTAIN LION	SC	NATIVE
M166	BOBCAT		HA NATIVE
M176	WILD PIG		HA INTRODUCED
M177	ELK		HA NATIVE

ID	Species	Status	Native/Introduced
M181	MULE DEER		HA NATIVE
M182	PRONGHORN		HA NATIVE
R004	WESTERN POND TURTLE	SC BL FS	NATIVE
R022	WESTERN FENCE LIZARD		NATIVE
R036	WESTERN SKINK	SC BL	NATIVE
R039	TIGER WHIPTAIL		NATIVE
R040	SOUTHERN ALLIGATOR LIZARD		NATIVE
R042	NORTHERN ALLIGATOR LIZARD		NATIVE
R046	NORTHERN RUBBER BOA	CT FS	NATIVE
R048	RING-NECKED SNAKE		FS NATIVE
R049	COMMON SHARP-TAILED SNAKE		NATIVE
R051	NORTH AMERICAN RACER		NATIVE
R053	STRIPED RACER	FT CT	NATIVE
R057	GOPHERSNAKE	SC	NATIVE
R058	EASTERN KINGSSNAKE		NATIVE
R059	CALIFORNIA MOUNTAIN KINGSSNAKE	SC BL FS	NATIVE
R060	LONG-NOSED SNAKE		NATIVE
R061	COMMON GARTERSNAKE	FE CE CF SC	NATIVE
R062	TERRESTRIAL GARTERSNAKE		NATIVE
R071	DESERT NIGHTSNAKE		NATIVE
R076	WESTERN RATTLESNAKE		NATIVE
R078	AQUATIC GARTERSNAKE		NATIVE
R079	GIANT GARTERSNAKE	FT CT	NATIVE

Total Number of Species: 327

Query Parameters

Included Locations

Glenn Co

Included Location Seasons

All Location Seasons Included

Included Habitats & (Stages)

Annual Grassland (1S, 1P, 1M, 1D, 2S, 2P, 2M, 2D), Eucalyptus (3M, 3D, 4M, 4D), Fresh Emergent Wetland (1S, 1P, 2P, 2S), Lacustrine (4G, 4S, 4M, 4O, 3G, 3S, 3M, 3O, 2G, 2S, 2M, 2O, 1)

Habitat Suitability Threshold

Reproduction - Low, Cover - Low, Feeding - Low

Included Habitat Seasons

All Habitat Seasons Included

Excluded Elements

No Elements Excluded

Included Species

All Species Included

Included Special Statuses

All Statuses Included

Appendix D
Photographs

Appendix D Photographs



Lacustrine and fresh emergent wetland habitats at the northwestern portion of the Hambright Property.



Riverine and fresh emergent wetland habitats, looking west at the location where Hambright Creek enters the Hambright Property.



Fresh emergent wetland and lacustrine habitats at the central portion of the Hambright Property.



Annual grassland habitat at the eastern portion of the Hambright Property.



Annual grassland and eucalyptus habitats at the northwestern portion of the Hambright Property.



Eucalyptus habitat at the southern portion of the Hambright Property.



Lacustrine habitat, looking northwest from the southeastern portion of the Hambright Property.



Lacustrine and fresh emergent wetland habitats at the central portion of the Hambright Property.