

June 28, 2021

Project # 05002.00001.001

Deston Dishion  
Administrator  
Bishop Area Wastewater Authority  
377 W. Line Street  
Bishop, CA 93514

**Subject: Biological Resources Constraints Analysis for the Bishop Area Wastewater Authority (BAWA) Wastewater Treatment Plant Irrigation Project, Inyo County, CA.**

Dear Mr. Dishion:

HELIX Environmental Planning, Inc. (HELIX) has prepared this biological resources constraints analysis for the Bishop Area Wastewater Authority (BAWA) Wastewater Treatment Plant Irrigation Project (project). The purpose of our assessment was to identify potential constraints related to biological resources in the Study Area. This memorandum includes methodology used to prepare the analysis, a description of the existing condition of the Study Area, an analysis of sensitive biological resources occurring or with the potential to occur in the Study Area, and recommendations that should be taken to address the potential for impacts to special-status species and regulated habitats.

## **PROJECT LOCATION AND DESCRIPTION**

The approximately 450-acre Study Area is located on the south side of the City of Bishop with an approximate center at the intersection of Airport Road and Gus Cashbaugh Lane. Surrounding land uses are comprised of the existing BAWA wastewater treatment plant and agricultural land primarily used for cattle grazing. The Eastern Sierra Regional Airport is located approximately one mile north of the Study Area. The Study Area is currently used for intermittent cattle grazing. Additionally, treated effluent from the wastewater treatment plant is directed through and dispersed on the Study Area via manmade ditches and ponds.

The project proposes the installation of spray irrigation for pasture grass production to dispose of treated effluent from the City of Bishop and Eastern Sierra Community Services District wastewater treatment plant. The proposed project is designed to be implemented in three phases, as indicated in **Attachment A; Figure 1**. The proposed irrigation improvement project may be funded in part through the Natural Resources Conservation Service (NRCS) Environmental Quality Incentives Program (EQIP).

## METHODS

Biological studies conducted in support of this biological resources evaluation consisted of a special-status species evaluation, which included a desktop review and database searches to identify known biological resources in the Study Area and vicinity, and a biological reconnaissance survey conducted at the Study Area.

### Special-Status Species Evaluation

Regulations pertaining to the protection of biological resources in the Study Areas are summarized in **Attachment B**. For the purposes of this report, special-status species are those that fall into one or more of the following categories, including those:

- Listed as endangered or threatened under the FESA (including candidates and species proposed for listing);
- Listed as endangered or threatened under the California Endangered Species Act (CESA; including candidates and species proposed for listing);
- Designated as rare, protected, or fully protected pursuant to California Fish and Game Code;
- Designated as a SSC by the California Department of Fish and Wildlife (CDFW);
- Considered by CDFW to be a Watch List species with potential to become an SSC;
- Defined as rare or endangered under Section 15380 of CEQA; or,
- Having a California Rare Plant Rank (CRPR) of 1A, 1B, 2A, 2B, or 3.

In order to evaluate special-status species and/or their habitats with the potential to occur in the Study Area and/or be impacted by the proposed project, HELIX obtained lists of regionally occurring special-status species from the following information sources:

- California Department of Fish and Wildlife. 2021. *California Natural Diversity Database (CNDDDB)*; For: *Bishop, Poleta Canyon, Fish Slough and Laws*, U.S. Geological Survey (USGS) 7.5-minute series quadrangles. Accessed [11 May 2021];
- California Native Plant Society (CNPS). 2021. *Inventory of Rare and Endangered Plants* (online edition, v8-03 0.39) For: *Bishop, Poleta Canyon, Fish Slough and Laws* USGS 7.5-minute series quadrangles. Accessed [11 May 2021]; and,
- U.S. Fish and Wildlife Service (USFWS). 2021. *Information for Planning and Consultation (IPaC)* List of threatened and endangered species that may occur in the Study Area and/or be affected by the proposed project. Accessed [11 May 2021].

**Attachment C** includes these lists of special-status plant and animal species occurring in the project region. Species listed in Attachment C were analyzed for potential to occur in the Study Area based on factors such as habitat affinities, elevation range, and current and historic geographic range.

## **Biological Reconnaissance Survey**

A biological reconnaissance survey of the Study Area was conducted on May 27 and 28, 2021 by HELIX Biologist, Stephanie McLaughlin, M.S., ISA Certified Arborist (WE-12922A). The Study Area was assessed to identify the habitat type(s) present on-site and the potential to support special-status plant and wildlife species. The survey consisted of a pedestrian survey of the Study Area and the surrounding area. Meandering transects of the Study Area were performed to obtain visual coverage of the site.

An assessment of trees within the Study Area was also performed in order to provide an estimate of the species and approximate numbers and size classes of trees present for general planning purposes. An arborist survey was not performed and individual trees were not assessed for health, vigor, structure, hazard potential, and/or suitability for retention on the site. Trees were categorized according to diameter at breast height (DBH), with a DBH of 0-6 inches classed as small, 6-12 inches classed as medium, and greater than 12 inches classed as large. Individual trees were inventoried by size class. For clumps or dense stands of trees, the number of individuals and size class was estimated.

An assessment of the Study Area for the presence/absence of potential wetlands or other aquatic resources was also conducted by assessing the Study Area for any areas with indicators of hydrophytic vegetation, hydric soils, and wetland hydrology; however, a full wetland delineation was not conducted.

## **EXISTING CONDITIONS**

The Study Area currently supports intermittent cattle grazing and is currently otherwise vacant. Phase 1 of the proposed project is located in the northern portion of the Study Area, which contains several drainages transporting treated effluent from the City of Bishop and Eastern Sierra Community Services District wastewater treatment plant. Portions of Phase 1 are subject to occasional mowing and periodic inundation from tailwater associated with the treatment plant. Additionally, there is a gravel staging area in the northwest corner of Phase 1. Phase 2 of the proposed project is located in the southern and central portion of the Study Area. It contains several dry drainage channels and appears to have been used for cattle grazing in the past. Phase 3 of the proposed project is located in the southeastern portion of the Study Area. It is vacant and in a relatively disturbed condition; Phase 3 contains several unmaintained dirt roads and illegal dump sites. Portions of Phases 2 and 3 appear to have been previously used for gravel mining.

Historic aerial imagery from National Environmental Title Research (NETR)<sup>1</sup> indicates that the Study Area has been influenced by runoff from the adjacent BAWA wastewater treatment plant since 1947, the year of the earliest recorded aerial. The reader may review these images by accessing the following hotlink: <https://www.historicaerials.com>

## Habitat Types in the Project Area

### Upland Habitats

#### Alkali Desert Scrub

Alkali desert scrub is relatively common throughout Inyo County, especially along dry lake beds and river floodplains, and comprises the primary habitat at mid- to low-elevation ranges. This habitat type may intermingle with other arid and semiarid wildlife habitats.

Alkali desert scrub, which totals approximately 292.3-acres, comprises most of the Study Area. The habitat is characterized by various species of saltbush, including fourwing saltbush (*Atriplex canescens*), shadescale (*Atriplex confertifolia*), and allscale saltbrush (*Atriplex polycarpa*). Other species observed within this habitat type include big sagebrush (*Artemisia tridentata*), perennial pepperweed (*Lepidium latifolium*) and saltcedar (*Tamarix ramosissima*). There are solitary Fremont's cottonwood (*Populus fremontii*) and black locust (*Robinia pseudoacacia*) scattered throughout this habitat type. An infestation of Russian thistle (*Salsola tragus*) was noted in the northeastern portion of Phase 1. Much of Phase 2 and nearly all of Phase 3 is comprised of alkali desert scrub.

#### Developed

Disturbed habitat occurs in areas that are heavily disturbed by past or ongoing human activities but retain a soil substrate. Disturbed areas may be sparsely to densely vegetated, but do not support a recognizable community or species assemblage.

Disturbed habitat, which totals approximately 6.0-acres, is concentrated in the northwestern corner of the Study Area. The disturbed habitat consists of a staging area used to store gravel and other materials. There is no notable vegetative community in this portion of the Study Area.

### Aquatic Habitats

#### Lacustrine

Lacustrine habitats include permanently flooded lakes and reservoirs, intermittent lakes (e.g., playas), and ponds (including vernal pools) so shallow that rooted plants can grow over the bottom. Suspended organisms such as plankton are found in the open water of lacustrine habitats.

Lacustrine habitat, which totals approximately 3.4-acres, is found only in the northwest portion of Phase 1. This habitat in the Study Area consists of a large pond used as a water source for grazing cattle and appears to exist only intermittently, based off of historical aeriels (NETR). The pond is fed, at least in part, by treated effluent from the BAWA wastewater treatment plant.

#### Freshwater Emergent Wetland

Freshwater emergent wetlands are found at all elevations in permanently or periodically inundated basins as well as depressions associated with terrestrial or aquatic habitats. This habitat is generally characterized by erect, rooted herbaceous hydrophytic plants, the composition of which is dependent

on the hydrology. Wetland areas supporting trees were also included in this habitat type as they are interspersed within a larger matrix of wetland dominated by herbaceous species.

Freshwater emergent wetland habitat, which totals approximately 137.5-acres, is concentrated in the northwestern portion of the Study Area. It comprises the majority of Phase 1 and parts of Phase 2 and 3. The habitat is dominated by aquatic species, including Baltic rush (*Juncus balticus*), saltgrass (*Distichlis spicata*), bullrush (*Schoenoplectus lacustris*) and yerba mansa (*Anemopsis californica*). Tree species include Fremont's cottonwood and dense stands of red willow (*Salix laevigata*). The wetlands in the Study Area range from permanently to seasonally inundated.

### Drainages

The Study Area has several constructed drainages running through the Phase 1 and Phase 2 areas. All drainages in Phase 1 were actively conveying treated effluent from the BAWA wastewater treatment plant. These drainages are categorized as Freshwater Emergent Wetland for the purposes of this study, as the wet drainages are found within that habitat type and reflect a similar species assemblage. All drainages in Phase 2 were dry and the sluice gates displayed evidence of deferred maintenance, suggesting these drainages have not been used in some time. These drainages are categorized as Alkali Desert Scrub for the purposes of this study, as the dry drainages are found within that habitat type and reflect a similar species assemblage.

### **Wildlife Observations**

Avian species were observed in the Study Area during the biological reconnaissance survey including red-shouldered hawk (*Buteo lineatus*), red-winged blackbird (*Agelaius phoeniceus*), turkey vulture (*Cathartes aura*), song sparrow (*Melospiza melodia*), mallard (*Anas platyrhynchos*), killdeer (*Charadrius vociferus*), roadrunner (*Geococcyx californianus*), and Bullock's oriole (*Icterus bullockii*). The trees and shrubs were visually inspected for bird nests, and several were observed in the Study Area, including northern mockingbird (*Mimus polyglottos*), Bullock's oriole, red-winged blackbird, and northern flicker (*Colaptes auratus*).

Mammal species observed in the Study Area include coyote (*Canis latrans*), mule deer (*Odocoileus hemionus*), and black-tailed jackrabbit (*Lepus californicus*).

### **SPECIAL-STATUS SPECIES EVALUATION**

#### **Special-Status Plant Species**

Potential for Regionally Occurring Special-Status Plants to Occur in the Study Area

No special-status plant species were observed during the biological reconnaissance survey conducted on May 27 and 28, 2021 and there have been no reported occurrences of special-status plant species on or adjacent to the Study Area in the California Natural Diversity Database (CNDDDB). However, according to the database query and evaluation of habitats present, there are numerous special-status plants that have the potential to occur in the Study Area and vicinity; freshwater wetlands and alkali desert scrub habitats provide suitable habitat for several special-status plant species.

A total of 12 regionally occurring special-status plant species were identified as having at least a moderate potential to occur in the Study Area based on the special-status species evaluation conducted for this report. Of the 12 identified with at least a moderate potential to occur, seven are associated with alkali desert scrub habitat, including coyote gilia (*Aliciella triodon*), Shockley's milk-vetch (*Astragalus serenoii* var. *shockleyi*), falcate saltbush (*Atriplex gardneri* var. *falcata*), Booth's hairy evening-primrose (*Eremothera boothii* ssp. *intermedia*), alkali ivesia (*Ivesia kingii* var. *kingii*), Inyo blazing star (*Mentzelia inyoensis*), and Torrey's blazing star (*Mentzelia torreyi*); four are found in mesic microsites in alkali desert scrub habitat, including Inyo County star-tulip (*Calochortus excavates*), Parish's popcornflower (*Plagiobothrys parishii*), Owens Valley checkerbloom (*Sidalcea covillei*), and foxtail thelypodium (*Thelypodium integrifolium* ssp. *complanatum*); and one is found within freshwater emergent wetlands, frog's-bit buttercup (*Ranunculus hydrocharoides*). Other special-status plant species have a low potential to occur within the alkali desert scrub such as silver-leaved milk vetch (*Astragalus argophyllus* var. *argophyllus*), pinyon rockcress (*Boechera dispar*), fiddleleaf hawksbeard (*Crepis runcinata*), Nevada oryctes (*Oryctes nevadensis*), Inyo phacelia (*Phacelia inyoensis*), and prairie wedge grass (*Sphenopholis obtusata*).

Owens Valley checkerbloom is State listed as Endangered. The remaining species are listed as Species of Special Concern by CDFW and/or have a CNPS Rare Plant ranking of 1, 2, or 3.

#### Recommended Measures for Special-Status Plants

No special-status plant species were noted during the biological reconnaissance survey. A second focused surveys for special-status plants should be conducted during the appropriate blooming periods, which ranges from March through September, to confirm absence of special-status plants in the Study Area prior to any construction activities or ground disturbance on the site. If a special-status plant species is found during the second survey, USFWS and/or CDFW should be contacted regarding the potential for impacts to the species and the appropriate mitigation.

Although special-status plant species were not identified during the first focused plant survey, impacts to plant species could occur as a result of construction activities related to construction and operation of the project, vegetation clearing, planting of alfalfa, and/or hydrologic modification. If a non-listed special-status plant species is found and cannot be avoided by the project, avoidance or mitigation measures could include transplanting the individuals to a suitable location outside of the disturbance area or collection and transplanting of seed along with habitat preservation of the transplant area. If Owens Valley checkerbloom is found on the site and impacts could not be avoided, an Incidental Take Permit from CDFW would be required and all permit conditions would have to be met. It is likely that take of Owens Valley checkerbloom would require compensatory mitigation to offset impacts to the species and its habitat such as creation and/or preservation of suitable occupied habitat for the species.

### Special-Status Animal Species

#### Potential for Regionally Occurring Special-Status Plants to Occur in the Study Area

No special-status animal species were observed during the biological reconnaissance survey. However, according to the database query, there are numerous special-status animal species that have the potential to occur in the Study Area and vicinity and freshwater emergent wetlands and alkali desert scrub habitats in the Study Area have the potential to support several of these species for at least a

portion of their life cycle. Species with a moderate to high potential to occur in the Study Area include northern harrier (*Circus cyaneus*), Swainson's hawk (*Buteo swainsoni*), western burrowing owl (*Athene cunicularia*), and Owens Valley vole (*Microtus californicus* vallicola). In addition, several species have a low potential to occur including golden eagle (*Aquila chrysaetos*), northern leopard frog (*Lithobates pipiens*), and several bat species, including western small-footed myotis (*Myotis ciliolabrum*), silver-haired bat (*Lasionycteris noctivagans*), and hoary bat (*Lasiurus cinereus*).

## Recommended Measures for Special-Status Animals

### Special-Status and Common Raptors and Migratory Birds

As noted in **Attachment B**, migratory and non-game birds are protected during the nesting season by California Fish and Game Code. The Study Area and immediate vicinity provides nesting and foraging habitat for a variety of native birds. Four active bird nests were observed in the Study Area and a variety of migratory birds have the potential to nest in and adjacent to the Study Area. Special-Status and common raptors and migratory birds, as well as other nesting birds, have the potential to nest within the project site including northern harrier, Swainson's hawk, western burrowing owl, and golden eagle. Moderate to high quality nesting habitat is present for northern harrier, Swainson's hawk, and burrowing owl as well as common raptors and migratory birds. Low quality nesting habitat is present for golden eagle.

Project activities such as clearing and grubbing during the avian breeding season (approximately February 1 through August 31) could result in injury or mortality of eggs and chicks directly through destruction or indirectly through forced nest abandonment due to noise and other disturbance. Needless destruction of nests, eggs, and chicks would be a violation of the Fish and Game Code and a significant impact. If the project commences during the avian breeding season (approximately February 1 through August 31), a general pre-construction nesting bird survey should be conducted prior to any project related activities that result in vegetation removal or ground disturbance or mobilization of equipment and personnel to the site to determine if common or special-status birds are using the site for nesting. If common or special-status birds are nesting on the site, the nest(s) would need to be avoided until the young have fledged and are no longer dependent on the nest. Species with special survey protocols are discussed below.

#### *Swainson's Hawk; State Listed as Threatened*

Protocol level Swainson's hawk surveys should be conducted prior to construction to determine if this species is nesting in the Study Area or within approximately 0.5-mile of the Study Area. If Swainson's hawk is nesting in or within 0.5-mile of the Study Area, CDFW should be consulted to determine a suitable nest buffer (typically 0.25-mile) and work within the buffer would need to be avoided until the young have fledged and are no longer dependent on the nest. Removal of a Swainson's hawk nest tree during the non-nesting season would require coordination with CDFW and loss of nest trees or impacts to habitat may require compensatory mitigation, although the quality of foraging habitat would likely be higher upon completion of the project.

*Western Burrowing Owl; CDFW Species of Special Concern*

Protocol level western burrowing owl surveys should be conducted prior to construction to determine if this species is occupying burrows in or within approximately 500-feet of the Study Area; surveys would need to be conducted year-around for western burrowing owl. If western burrowing owl are occupying burrows in or within 500-feet of the Study Area, the burrows would need to be avoided by a suitable buffer according to CDFW guidelines (CDFW 2012) or if the burrows could not be avoided CDFW would need to be consulted regarding the potential for passive exclusion and mitigation for impacts to western burrowing owl habitat.

*Golden Eagle; CDFW Fully Protected*

Focused surveys for golden eagle should be conducted prior to construction to determine if this species is nesting in the project site or vicinity. Surveys should be conducted in and within a 2.0-mile radius of the Study Area where accessible. If golden eagle is nesting in or within a 2.0-mile radius of the Study Area, CDFW should be consulted to determine a suitable nest buffer depending on terrain and line of site from the work area to the nest and work within the buffer would need to be avoided until the young have fledged and are no longer dependent on the nest. Loss of nesting or foraging habitat for golden eagle, if this species is determined to be using the site, could require compensatory mitigation.

*Owens Valley Vole; Species of Special Concern*

Potential habitat for this species is present in the Study Area in the alkali scrub desert habitat. All small mammal burrows encountered during the biological reconnaissance survey conducted on May 27 and 28, 2021 were checked for signs of use by Owen's Valley vole (ie. grass "runways") and none were observed. Species specific surveys should be conducted prior to construction to determine if the Study Area is occupied by Owen's Valley vole and CDFW should be consulted regarding the appropriate avoidance measures if this species is present.

*Northern Leopard Frog; Species of Special-Concern*

Northern leopard frog has a low potential to occur within the aquatic habitats in the Study Area. A visual encounter survey should be conducted by a qualified biologist for this species prior to any construction activities in or adjacent to aquatic habitats and CDFW should be consulted regarding the appropriate avoidance measures if this species is present.

*Special-Status Bats*

Several special-status bat species have a low potential to occur within the project site including western small-footed myotis, silver-haired bat, and hoary bat. These bat species have no state or federal protective status but are tracked by the CNDDDB and are of global conservation concern. Pre-construction surveys should be conducted by a qualified biologist for roosting bats prior to removal of any trees or other suitable habitat for roosting bats. If roosting bats are present and would be disturbed by construction, a qualified biologist should be consulted to determine the appropriate steps to prevent impacts to roosting bats such as excluding bats prior to impacting their habitat.



## Evaluation of Jurisdictional Waters of the U.S. and State

The Study Area was assessed for the presence/absence of potential wetlands or other aquatic resources through a combination review of historic aerial imagery, the National Wetlands Inventory (NWI) database, and ground truthing performed during the biological reconnaissance survey. A formal wetland delineation was not conducted.

Based on the wetland assessment conducted during the biological reconnaissance survey performed on May 27 and 28, 2021, there are approximately 140.9-acres of aquatic resources within the Study Area, composed of 137.5-acres of freshwater emergent wetland and 3.4-acres of lacustrine habitat. Historic aerial imagery indicates that the Study Area has been influenced by runoff from the adjacent BAWA wastewater treatment plant since 1947, the year of the earliest recorded aerial. However, it is likely that portions of the main drainage and associated wetlands are part of a natural wetland system with potential connections to Sauders Lake and/or the Owens River.

All aquatic resources in the Study Area are potential waters of the U.S. and potential waters of the State. If aquatic resources cannot be avoided by the proposed project, including ground disturbance, placement of fill, planting of alfalfa, or other disturbance, a formal wetland delineation would need to be prepared and permits for impacts to jurisdictional waters of the U.S./State would need to be obtained from the U.S. Army Corps of Engineers (USACE), the Lahontan Regional Water Quality Control Board (RWQCB), and/or CDFW, pursuant to Sections 404 and 401 of the Clean Water Act and Section 1600 of the Fish and Game Code; compliance with permit conditions, including providing compensatory mitigation, would be required to achieve no net loss of wetlands or other waters.

## Evaluation of Protected Trees

An estimated 659 trees are present in the Study Area, including 340 Fremont's cottonwood, 260 red willow, 55 black locust, and four Osage orange (*Maclura pomifera*). This is an estimate for planning purposes and is not intended to reflect the exact number of trees within the Study Area. As discussed in the methods section, individual trees were inventoried but estimates were made of the numbers and size classes of trees occurring within clumps or dense stands. **Table 1** displays the estimated number and size class of each tree species found in the three project phases within the Study Area. Most of the trees were in fair to good condition.

**Table 1. Estimated Number of Trees Within the Study Area**

Phase 1	Small	Medium	Large	Totals
<i>Cottonwood</i>	5	1	24	30
<i>Willow</i>	6	41	91	138
<i>Locust</i>	--	8	--	8
<i>Osage Orange</i>	--	4	--	4
<b>Totals</b>	<b>11</b>	<b>54</b>	<b>115</b>	<b>180</b>
Phase 2	Small	Medium	Large	Totals
<i>Cottonwood</i>	72	126	109	307
<i>Willow</i>	35	54	32	121
<i>Locust</i>	21	16	3	40
<b>Totals</b>	<b>128</b>	<b>196</b>	<b>144</b>	<b>468</b>

<b>Phase 3</b>	<b>Small</b>	<b>Medium</b>	<b>Large</b>	<b>Totals</b>
<i>Cottonwood</i>	--	--	3	3
<i>Willow</i>	--	--	1	1
<i>Locust</i>	--	7	--	7
<b>Totals</b>	--	<b>7</b>	<b>4</b>	<b>11</b>

Neither the City of Bishop nor Inyo County has a Tree Protection Ordinance that requires permitting or mitigation for the removal of trees. However, the removal of riparian trees may require a Lake and Streambed Alteration Agreement (LSAA) from CDFW. Most of the trees are located in in the freshwater emergent wetland habitat and would likely be considered riparian trees and subject to CDFW jurisdiction. There are an estimated 550 riparian trees within the Study Area. Removal of riparian trees may require in kind mitigation such as replacement on or offsite for any riparian trees removed.

## CONCLUSIONS AND RECOMMENDATIONS

The Study Area contains a variety of sensitive biological and aquatic resources including potential habitat for special-status plants and animals, nesting birds, and waters of the U.S. and State. Focused special-status plant surveys should be conducted as well as focused surveys for northern harrier and common raptors and migratory birds, Swainson's hawk, burrowing owl, golden eagle, Owen's Valley vole, northern leopard frog, and special-status bats. Additionally, there are approximately 140.9-acres of aquatic resources within the Study Area. All aquatic resources in the Study Area are potential waters of the U.S. and potential waters of the State and may require aquatic resources permits for impacts if they cannot be avoided. There are approximately 659 trees present in the Study Area including approximately 550 riparian trees; the removal of riparian trees may require a LSAA from CDFW.

If you have any questions regarding this Biological Resources Constraints Analysis, please contact Robert Edgerton via e-mail at [RobertE@helixepi.com](mailto:RobertE@helixepi.com), or by phone at 916.365.8713.

Sincerely,



Stephen Stringer  
Senior Biologist

### Attachments (4)

- A – Figures
- B – Regulatory Context
- C – Database Query Results
- D – Site Photos

## REFERENCES








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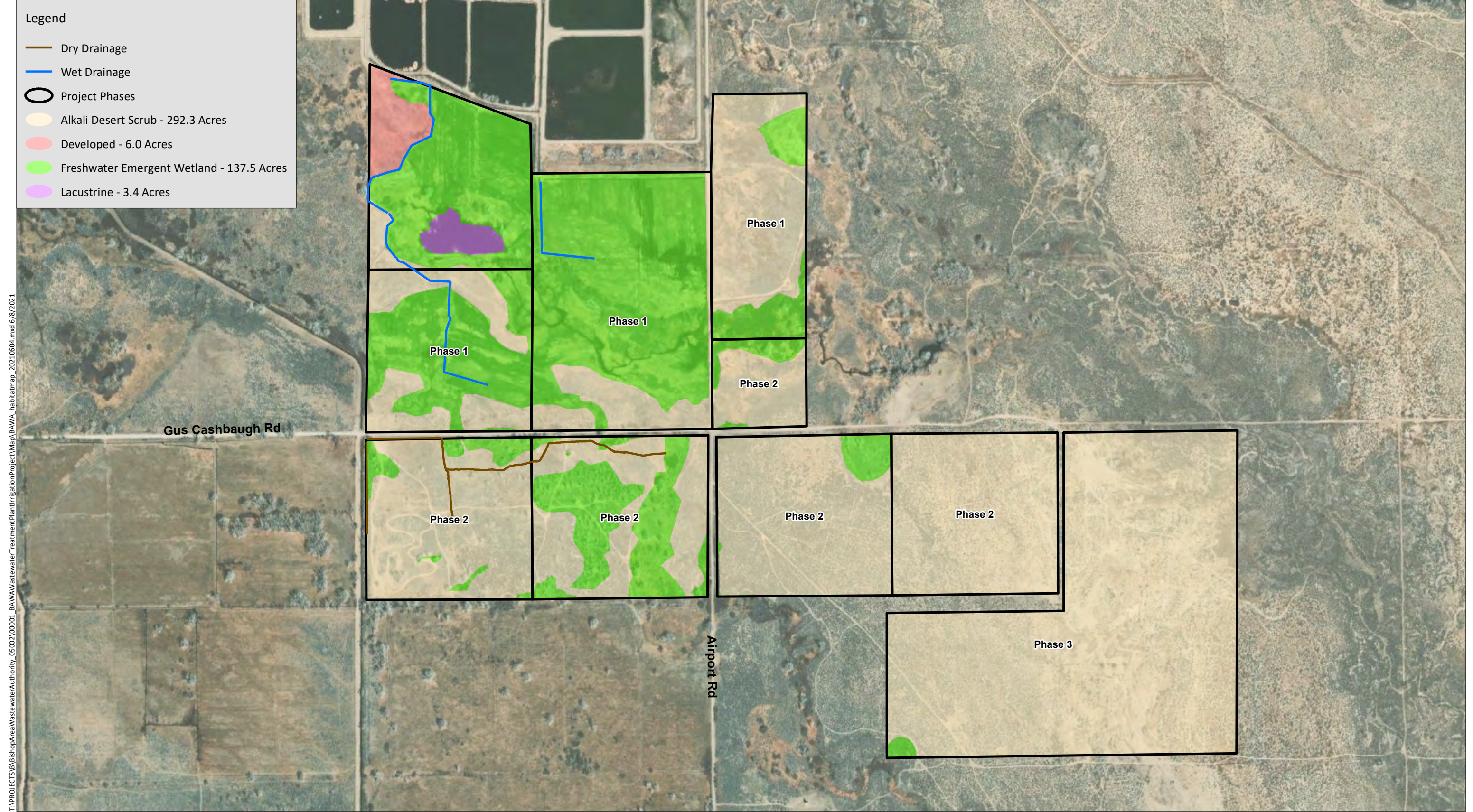
# Appendix A

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Figures

**Legend**

-  Dry Drainage
-  Wet Drainage
-  Project Phases
-  Alkali Desert Scrub - 292.3 Acres
-  Developed - 6.0 Acres
-  Freshwater Emergent Wetland - 137.5 Acres
-  Lacustrine - 3.4 Acres



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Source: Aerial (DigitalGlobe, 2020).

# Appendix B

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## Regulatory Context

## Regulatory Setting

Policies, regulations, and plans pertaining to the protection of biological resources in the Study Area are summarized in the following sections.

### Federal Regulations

#### Federal Endangered Species Act

The U.S. Fish and Wildlife Service (USFWS) enforces the provisions stipulated within the Federal Endangered Species Act of 1973 (FESA; 16 USC 1531 *et seq.*). Species identified as federally threatened or endangered (50 CFR 17.11, and 17.12) are protected from take, defined as direct or indirect harm, unless a Section 10 permit is granted to an entity other than a federal agency or a Biological Opinion with incidental take provisions is rendered to a federal lead agency via a Section 7 consultation. Pursuant to the requirements of FESA, an agency reviewing a proposed project within its jurisdiction must determine whether any federally-listed species may be present in the study area and determine whether the proposed project will jeopardize the continued existence of or result in the destruction or adverse modification of critical habitat of such species (16 USC 1536 (a)[3], [4]). Other federal agencies designate species of concern (species that have the potential to become listed), which are evaluated during environmental review under the National Environmental Protection Act (NEPA) or California Environmental Quality Act (CEQA) although they are not otherwise protected under FESA.

#### Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA) of 1918 established federal responsibilities for the protection of nearly all species of birds, their eggs, and nests. The Migratory Bird Treaty Reform Act of 2004 further defined species protected under the act and excluded all non-native species. Section 16 U.S.C. 703–712 of the Act states “unless and except as permitted by regulations, it shall be unlawful at any time, by any means or in any manner, to pursue, hunt, take, capture, kill, attempt to take, capture, or kill” a migratory bird. A migratory bird is any species or family of birds that live, reproduce or migrate within or across international borders at some point during their annual life cycle. Currently, there are 836 migratory birds protected nationwide by the Migratory Bird Treaty Act, of which 58 are legal to hunt. The U.S. Court of Appeals for the 9<sup>th</sup> Circuit (with jurisdiction over California) has ruled that the MBTA does not prohibit incidental take (952 F 2d 297 – Court of Appeals, 9<sup>th</sup> Circuit 1991).

### State Jurisdiction

#### California Endangered Species Act

The California Endangered Species Act (CESA) (California Fish and Game Code Sections 2050 to 2097) is similar to the FESA. The California Fish and Wildlife Commission is responsible for maintaining lists of threatened and endangered species under CESA. CESA prohibits the take of listed and candidate (petitioned to be listed) species. “Take” under California law means to hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch capture, or kill (California Fish and Game Code, Section 86). The California Department of Fish and Wildlife (CDFW) can authorize take of a state-listed species under Section 2081 of the California Fish and Game Code if the take is incidental to an otherwise lawful

activity, the impacts are minimized and fully mitigated, funding is ensured to implement and monitor mitigation measures, and CDFW determines that issuance would not jeopardize the continued existence of the species. A CESA permit must be obtained if a project will result in the “take” of listed species, either during construction or over the life of the project. For species listed under both FESA and CESA requiring a Biological Opinion under Section 7 of the FESA, CDFW may also authorize impacts to CESA species by issuing a Consistency Determination under Section 2080.1 of the Fish and Game Code.

### California Code of Regulations Title 14 and California Fish and Game Code

The official listing of endangered and threatened animals and plants is contained in the California Code of Regulations Title 14 §670.5. A state candidate species is one that the California Fish and Game Code has formally noticed as being under review by CDFW to include in the state list pursuant to Sections 2074.2 and 2075.5 of the California Fish and Game Code.

Legal protection is also provided for wildlife species in California that are identified as “fully protected animals.” These species are protected under Sections 3511 (birds), 4700 (mammals), 5050 (reptiles and amphibians), and 5515 (fish) of the California Fish and Game Code. These statutes prohibit take or possession of fully protected species at any time. CDFW is unable to authorize incidental take of fully protected species unless any such take authorization is issued in conjunction with the approval of a Natural Community Conservation Plan that covers the fully protected species (California Fish and Game Code Section 2835).

### California Environmental Quality Act

Under the California Environmental Quality Act of 1970 (CEQA; Public Resources Code Section 21000 *et seq.*), lead agencies analyze whether projects would have a substantial adverse effect on a candidate, sensitive, or special-status species (Public Resources Code Section 21001(c)). These “special-status” species generally include those listed under FESA and CESA, and species that are not currently protected by statute or regulation, but would be considered rare, threatened, or endangered under the criteria included CEQA Guidelines Section 15380. Therefore, species that are considered rare are addressed under CEQA regardless of whether they are afforded protection through any other statute or regulation. The California Native Plant Society (CNPS) inventories the native flora of California and ranks species according to rarity; plants ranked as 1A, 1B, 2A, 2B, and 3 are generally considered special-status species under CEQA.<sup>1</sup>

Although threatened and endangered species are protected by specific federal and state statutes, CEQA Guidelines Section 15380(d) provides that a species not listed on the federal or state list of protected species may be considered rare if it can be shown to meet certain specified criteria. These criteria have been modeled after the definition in FESA and the section of the California Fish and Game Code dealing with rare or endangered plants and animals. Section 15380(d) allows a public agency to undertake a review to determine if a significant effect on species that have not yet been listed by either the USFWS or CDFW (*i.e.*, candidate species) would occur.

### Native Plant Protection Act

The California Native Plant Protection Act of 1977 (California Fish and Game Code Sections 1900-1913) empowers the Fish and Game Commission to list native plant species, subspecies, or varieties as

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<sup>1</sup> The California Rare Plant Rank system can be found online at < <http://www.cnps.org/cnps/rareplants/ranking.php>>



endangered or rare following a public hearing. To the extent that the location of such plants is known, CDFW must notify property owners that a listed plant is known to occur on their property. Where a property owner has been so notified by CDFW, the owner must notify CDFW at least 10 days in advance of any change in land use (other than changing from one agricultural use to another), in order that CDFW may salvage listed plants that would otherwise be destroyed. Currently, 64 taxa of native plants have been listed as rare under the act.

### Nesting Birds

California Fish and Game Code Subsections 3503 and 3800 prohibit the possession, take, or needless destruction of birds, their nests, and eggs, and the salvage of dead nongame birds. California Fish and Game Code Subsection 3503.5 protects all birds in the orders of Falconiformes and Strigiformes (birds of prey). Fish and Game Code Subsection 3513 states that it is unlawful to take or possess any migratory nongame bird as designated in the Migratory Bird Treaty Act or any part of such migratory nongame bird except as provided by rules and regulations adopted by the Secretary of the Interior under provisions of the Migratory Bird Treaty Act. The Attorney General of California has released an opinion that the Fish and Game Code prohibits incidental take.

### Jurisdictional Waters

#### Federal Jurisdiction

Any person, firm, or agency planning to alter or work in “waters of the U.S.,” including the discharge of dredged or fill material, must first obtain authorization from the U.S. Army Corps of Engineers (USACE) under Section 404 of the Clean Water Act (CWA; 33 USC 1344). Permits, licenses, variances, or similar authorization may also be required by other federal, state, and local statutes. Section 10 of the Rivers and Harbors Act prohibits the obstruction or alteration of navigable waters of the U.S. without a permit from USACE (33 USC 403).

On April 21, 2020, the Environmental Protection Agency (EPA) and USACE published the Navigable Waters Protection Rule to define “Waters of the United States” in the Federal Register. On June 22, 2020 the Navigable Waters Protection Rule: Definition of “Waters of the United States” (NWPR) became effective in 49 states, including California, and in all US territories.

The NWPR regulates traditional navigable waters and perennial or intermittent tributary systems, and defines four categories of regulated waters including:

- The territorial seas and traditional navigable waters;
- Perennial and intermittent tributaries to those waters;
- Certain lakes, ponds, and impoundments; and
- Wetlands adjacent to jurisdictional waters.

The NWPR also defines 12 categories of exempted aquatic resources:

- Waters not listed as WOTUS
- Groundwater
- Ephemeral features
- Diffuse stormwater run-off
- Ditches not identified as WOTUS

- Prior converted cropland (PCC)
- Artificially irrigated areas
- Artificial lakes and ponds
- Water-filled depressions incidental to mining or construction activity
- Stormwater control features
- Groundwater recharge, water reuse, and wastewater recycling structures
- Waste treatment systems

With non-tidal waters, in the absence of adjacent wetlands, the extent of USACE jurisdiction extends to the ordinary high water mark (OHWM) – the line on the shore established by fluctuations of water and indicated by a clear, natural line impressed on the bank, shelving, changes in soil character, destruction of terrestrial vegetation, or the presence of litter and debris. Wetlands are defined in 33 CFR Part 328 as:

*“those areas that are inundated or saturated by surface or ground water at a frequency and duration to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions.”*

Federal and state regulations pertaining to waters of the U.S., including wetlands, are discussed below.

Clean Water Act (33 USC 1251-1376). The CWA provides guidance for the restoration and maintenance of the chemical, physical, and biological integrity of the nation’s waters.

Section 401 requires that an applicant for a federal license or permit that allows activities resulting in a discharge to waters of the U.S. must obtain a state certification that the discharge complies with other provisions of CWA. The Regional Water Quality Control Board (RWQCB) administers the certification program in California and may require State Water Quality Certification before other permits are issued.

Section 402 establishes a permitting system for the discharge of any pollutant (except dredged or fill material) into waters of the U.S.

Section 404 establishes a permit program administered by USACE that regulates the discharge of dredged or fill material into waters of the U.S. (including wetlands). Implementing regulations by USACE are found at 33 CFR Parts 320-332. The Section 404 (b)(1) Guidelines were developed by the USEPA in conjunction with USACE (40 CFR Part 230), allowing the discharge of dredged or fill material for non-water dependent uses into special aquatic sites only if there is no practicable alternative that would have less adverse impacts. State Jurisdiction

#### Regional Water Quality Control Board

Any action requiring a CWA Section 404 permit, or a Rivers and Harbors Act Section 10 permit, must also obtain a CWA Section 401 Water Quality Certification. The State of California Water Quality Certification (WQC) Program was formally initiated by the State Water Resources Control Board (SWRCB) in 1990 under the requirements stipulated by Section 401 of the Federal CWA. Although the Clean Water Act is a Federal law, Section 401 of the CWA recognizes that states have the primary authority and responsibility for setting water quality standards. In California, under Section 401, the State and Regional Water Boards are the authorities that certify that issuance of a federal license or permit does not violate California’s water quality standards (i.e., that they do not violate Porter-Cologne and the Water Code). The WQC Program currently issues the WQC for discharges requiring USACE's permits for fill and dredge

discharges within Waters of the United States, and now also implements the State's wetland protection and hydromodification regulation program under the Porter Cologne Water Quality Control Act.

On April 2, 2019, the SWRCB adopted a State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State (Procedures), for inclusion in the forthcoming Water Quality Control Plan for Inland Surface Waters and Enclosed Bays and Estuaries and Ocean Waters of California. The Procedures consist of four major elements: 1) a wetland definition; 2) a framework for determining if a feature that meets the wetland definition is a water of the state; 3) wetland delineation procedures; and 4) procedures for the submittal, review and approval of applications for Water Quality Certifications and Waste Discharge Requirements for dredge or fill activities. The Office of Administrative Law approved the Procedures on August 28, 2019, and the Procedures became effective May 28, 2020.

Under the Procedures and the State Water Code (Water Code §13050(e)), "Waters of the State" are defined as "any surface water or groundwater, including saline waters, within the boundaries of the state." Unless excluded by the Procedures, any activity that could result in discharge of dredged or fill material to Waters of the State, which includes Waters of the U.S. and non-federal Waters of the State, requires filing of an application under the Procedures.

The Porter-Cologne Water Quality Control Act (Porter-Cologne Act, Water Code Section 13000 et seq.) is California's statutory authority for the protection of water quality in conjunction with the federal CWA. The Porter-Cologne Act requires the SWRCB and RWQCBs under the CWA to adopt and periodically update water quality control plans, or basin plans. Basin plans are plans in which beneficial uses, water quality objectives, and implementation programs are established for each of the nine regions in California. The Porter-Cologne Act also requires dischargers of pollutants or dredged or fill material to notify the RWQCBs of such activities by filing Reports of Waste Discharge and authorizes the SWRCB and RWQCBs to issue and enforce waste discharge requirements, National Pollution Discharge Elimination System (NPDES) permits, Section 401 water quality certifications, or other approvals.

#### California Department of Fish and Wildlife

The CDFW is a trustee agency that has jurisdiction under Section 1600 et seq. of the California Fish and Game Code. Under Sections 1602 and 1603, a private party must notify CDFW if a proposed project will "substantially divert or obstruct the natural flow or substantially change the bed, channel, or bank of streambeds...except when the department has been notified pursuant to Section 1601." Additionally, CDFW asserts jurisdiction over native riparian habitat adjacent to aquatic features, including native trees over four inches in diameter at breast height (DBH). If an existing fish or wildlife resource may be substantially adversely affected by the activity, CDFW may propose reasonable measures that will allow protection of those resources. If these measures are agreeable to the parties involved, they may enter into an agreement with CDFW identifying the approved activities and associated mitigation measures. Generally, CDFW recommends submitting an application for a Streambed Alteration Agreement (SAA) for any work done within the lateral limit of water flow or the edge of riparian vegetation, whichever is greater.

# Appendix C

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Database Query Results

\*The database used to provide updates to the Online Inventory is under construction. [View updates and changes made since May 2019 here.](#)

## Plant List

27 matches found. [Click on scientific name for details](#)

### Search Criteria

California Rare Plant Rank is one of [1A, 1B, 2A, 2B, 3],  
 FESA is one of [Endangered, Threatened, Candidate, Not Listed],  
 CESA is one of [Endangered, Threatened, Rare, Not Listed], Found in Quads 3711844, 3711843 3711834 and 3711833;

[Modify Search Criteria](#) [Export to Excel](#) [Modify Columns](#) [Modify Sort](#) [Display Photos](#)

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
<a href="#">Aliciella triodon</a>	coyote gilia	Polemoniaceae	annual herb	Apr-Jun	2B.2	S2	G5
<a href="#">Astragalus argophyllus var. argophyllus</a>	silver-leaved milk-vetch	Fabaceae	perennial herb	May-Jul	2B.2	S2	G5T4
<a href="#">Astragalus lentiginosus var. piscinensis</a>	Fish Slough milk-vetch	Fabaceae	perennial herb	Jun-Jul	1B.1	S1	G5T1
<a href="#">Astragalus platytropis</a>	broad-keeled milk-vetch	Fabaceae	perennial herb	Jun-Sep	2B.2	S3	G5
<a href="#">Astragalus serenoii var. shockleyi</a>	Shockley's milk-vetch	Fabaceae	perennial herb	(Apr)May-Jul	2B.2	S2	G4T3
<a href="#">Atriplex gardneri var. falcata</a>	falcate saltbush	Chenopodiaceae	perennial herb	May-Aug	2B.2	S2S3	G4T4Q
<a href="#">Boechera dispar</a>	pinyon rockcress	Brassicaceae	perennial herb	Mar-Jun	2B.3	S3	G3
<a href="#">Calochortus excavatus</a>	Inyo County star-tulip	Liliaceae	perennial bulbiferous herb	Apr-Jul	1B.1	S2	G2
<a href="#">Crepis runcinata</a>	fiddleleaf hawksbeard	Asteraceae	perennial herb	May-Aug	2B.2	S3	G5
<a href="#">Dedeckera eurekaensis</a>	July gold	Polygonaceae	perennial deciduous shrub	May-Aug	1B.3	S3	G3
<a href="#">Elymus salina</a>	Salina Pass wild-rye	Poaceae	perennial rhizomatous herb	May-Jun	2B.3	S2S3	G4G5
<a href="#">Eremothera boothii ssp. intermedia</a>	Booth's hairy evening-primrose	Onagraceae	annual herb	(May)Jun	2B.3	S3	G5T3T4
<a href="#">Erythranthe calcicola</a>	limestone monkeyflower	Phrymaceae	annual herb	Apr-Jun	1B.3	S3	G3
<a href="#">Fimbristylis thermalis</a>	hot springs fimbriatylis	Cyperaceae	perennial rhizomatous herb	Jul-Sep	2B.2	S1S2	G4
<a href="#">Grusonia pulchella</a>	beautiful cholla	Cactaceae	perennial stem	May(Jun)	2B.2	S2	G4

			succulent					
<a href="#">Hecastocleis shockleyi</a>	prickle-leaf	Asteraceae	perennial evergreen shrub	May-Jul	3	S4	G4	
<a href="#">Ivesia kingii var. kingii</a>	alkali ivesia	Rosaceae	perennial herb	May-Aug	2B.2	S2	G4T3Q	
<a href="#">Lupinus magnificus var. hesperius</a>	McGee Meadows lupine	Fabaceae	perennial herb	Apr-Jun	1B.3	S1	G3T1Q	
<a href="#">Mentzelia inyoensis</a>	Inyo blazing star	Loasaceae	perennial herb	Apr-Oct	1B.3	S3	G3	
<a href="#">Mentzelia torreyi</a>	Torrey's blazing star	Loasaceae	perennial herb	Jun-Aug	2B.2	S2	G4	
<a href="#">Oryctes nevadensis</a>	Nevada oryctes	Solanaceae	annual herb	Apr-Jun	2B.1	S2	G3	
<a href="#">Phacelia inyoensis</a>	Inyo phacelia	Hydrophyllaceae	annual herb	Apr-Aug	1B.2	S3	G3	
<a href="#">Plagiobothrys parishii</a>	Parish's popcornflower	Boraginaceae	annual herb	Mar-Jun(Nov)	1B.1	S1	G1	
<a href="#">Ranunculus hydrocharoides</a>	frog's-bit buttercup	Ranunculaceae	perennial herb (aquatic)	(May)Jun-Sep	2B.1	S1	G4	
<a href="#">Sidalcea covillei</a>	Owens Valley checkerbloom	Malvaceae	perennial herb	Apr-Jun	1B.1	S2	G2	
<a href="#">Sphenopholis obtusata</a>	prairie wedge grass	Poaceae	perennial herb	Apr-Jul	2B.2	S2	G5	
<a href="#">Thelypodium integrifolium ssp. complanatum</a>	foxtail thelypodium	Brassicaceae	annual / perennial herb	Jun-Oct	2B.2	S2	G5T4T5	

### Suggested Citation

California Native Plant Society, Rare Plant Program. 2021. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Website <http://www.rareplants.cnps.org> [accessed 11 May 2021].

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#### Contributors

[The Calflora Database](#)

[The California Lichen Society](#)

[California Natural Diversity Database](#)

[The Jepson Flora Project](#)

[The Consortium of California Herbaria](#)

[CalPhotos](#)

#### Questions and Comments

[rareplants@cnps.org](mailto:rareplants@cnps.org)



# Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad IS (Bishop (3711834) OR Poleta Canyon (3711833) OR Fish Slough (3711844) OR Laws (3711843))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Aliciella triodon</i> coyote gilia	PDPLM041T0	None	None	G5	S2	2B.2
<i>Alkali Meadow</i> Alkali Meadow	CTT45310CA	None	None	G3	S2.1	
<i>Anodonta californiensis</i> California floater	IMBIV04220	None	None	G3Q	S2?	
<i>Antrozous pallidus</i> pallid bat	AMACC10010	None	None	G4	S3	SSC
<i>Aquila chrysaetos</i> golden eagle	ABNKC22010	None	None	G5	S3	FP
<i>Astragalus argophyllus var. argophyllus</i> silver-leaved milk-vetch	PDFAB0F0S1	None	None	G5T4	S2	2B.2
<i>Astragalus lentiginosus var. piscinensis</i> Fish Slough milk-vetch	PDFAB0FB9E	Threatened	None	G5T1	S1	1B.1
<i>Astragalus serenoii var. shockleyi</i> Shockley's milk-vetch	PDFAB0F802	None	None	G4T3	S3	2B.2
<i>Athene cunicularia</i> burrowing owl	ABNSB10010	None	None	G4	S3	SSC
<i>Atriplex gardneri var. falcata</i> falcate saltbush	PDCHE040J0	None	None	G4T4Q	S2S3	2B.2
<i>Boecheria dispar</i> pinyon rockcress	PDBRA060F0	None	None	G3	S3	2B.3
<i>Bombus morrisoni</i> Morrison bumble bee	IIHYM24460	None	None	G4G5	S1S2	
<i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070	None	Threatened	G5	S3	
<i>Calochortus excavatus</i> Inyo County star-tulip	PMLIL0D0F0	None	None	G2	S2	1B.1
<i>Catostomus fumeiventris</i> Owens sucker	AFCJC02090	None	None	G3G4	S3	SSC
<i>Circus hudsonius</i> northern harrier	ABNKC11011	None	None	G5	S3	SSC
<i>Corynorhinus townsendii</i> Townsend's big-eared bat	AMACC08010	None	None	G4	S2	SSC
<i>Crepis runcinata</i> fiddleleaf hawksbeard	PDAST2R0K0	None	None	G5	S3	2B.2
<i>Cyprinodon radiosus</i> Owens pupfish	AFCNB02090	Endangered	Endangered	G1	S1	FP



Selected Elements by Scientific Name  
California Department of Fish and Wildlife  
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<b><i>Dedeckera eurekensis</i></b> July gold	PDPGN06010	None	Rare	G3	S3	1B.3
<b><i>Elgaria panamintina</i></b> Panamint alligator lizard	ARACB01050	None	None	G3	S3	SSC
<b><i>Elymus salina</i></b> Salina Pass wild-rye	PMPOA6P010	None	None	G4G5	S2S3	2B.3
<b><i>Elymus scribneri</i></b> Scribner's wheat grass	PMPOA2H170	None	None	G5	S3	2B.3
<b><i>Empidonax traillii extimus</i></b> southwestern willow flycatcher	ABPAE33043	Endangered	Endangered	G5T2	S1	
<b><i>Eremothera boothii ssp. intermedia</i></b> Booth's hairy evening-primrose	PDONA03056	None	None	G5T3T4	S3	2B.3
<b><i>Erythranthe calcicola</i></b> limestone monkeyflower	PDPHR01010	None	None	G3	S3	1B.3
<b><i>Euderma maculatum</i></b> spotted bat	AMACC07010	None	None	G4	S3	SSC
<b><i>Falco mexicanus</i></b> prairie falcon	ABNKD06090	None	None	G5	S4	WL
<b><i>Fimbristylis thermalis</i></b> hot springs fimbristylis	PMCYP0B0N0	None	None	G4	S1S2	2B.2
<b><i>Grusonia pulchella</i></b> beautiful cholla	PDCAC0D120	None	None	G4	S2	2B.2
<b><i>Ivesia kingii var. kingii</i></b> alkali ivesia	PDROS0X092	None	None	G4T3Q	S2	2B.2
<b><i>Lasionycteris noctivagans</i></b> silver-haired bat	AMACC02010	None	None	G3G4	S3S4	
<b><i>Lasiurus cinereus</i></b> hoary bat	AMACC05030	None	None	G3G4	S4	
<b><i>Lepus townsendii townsendii</i></b> western white-tailed jackrabbit	AMAEB03041	None	None	G5T5	S3?	SSC
<b><i>Lithobates pipiens</i></b> northern leopard frog	AAABH01170	None	None	G5	S2	SSC
<b><i>Mentzelia torreyi</i></b> Torrey's blazing star	PDLOA031S0	None	None	G4	S2	2B.2
<b><i>Microtus californicus vallicola</i></b> Owens Valley vole	AMAFF11033	None	None	G5T3	S3	SSC
<b><i>Myotis ciliolabrum</i></b> western small-footed myotis	AMACC01140	None	None	G5	S3	
<b><i>Myotis volans</i></b> long-legged myotis	AMACC01110	None	None	G4G5	S3	
<b><i>Oryctes nevadensis</i></b> Nevada oryctes	PDSOL0Q010	None	None	G3	S2	2B.1





Selected Elements by Scientific Name  
California Department of Fish and Wildlife  
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<b><i>Phacelia inyoensis</i></b> Inyo phacelia	PDHYD0C2F0	None	None	G2	S2	1B.2
<b><i>Plagiobothrys parishii</i></b> Parish's popcornflower	PDBOR0V0U0	None	None	G1	S1	1B.1
<b><i>Pyrgulopsis owensensis</i></b> Owens Valley springsnail	IMGASJ0280	None	None	G1G2	S1S2	
<b><i>Pyrgulopsis perturbata</i></b> Fish Slough springsnail	IMGASJ0290	None	None	G1	S1	
<b><i>Ranunculus hydrocharoides</i></b> frog's-bit buttercup	PDRAN0L190	None	None	G4	S1	2B.1
<b><i>Rhinichthys osculus ssp. 2</i></b> Owens speckled dace	AFCJB3705F	None	None	G5T1T2Q	S1S2	SSC
<b><i>Riparia riparia</i></b> bank swallow	ABPAU08010	None	Threatened	G5	S2	
<b><i>Sidalcea covillei</i></b> Owens Valley checkerbloom	PDMAL11040	None	Endangered	G2	S2	1B.1
<b><i>Siphateles bicolor snyderi</i></b> Owens tui chub	AFCJB1303J	Endangered	Endangered	G4T1	S1	
<b><i>Sphenopholis obtusata</i></b> prairie wedge grass	PMPOA5T030	None	None	G5	S2	2B.2
<b><i>Thelypodium integrifolium ssp. complanatum</i></b> foxtail thelypodium	PDBRA2N062	None	None	G5T4T5	S2	2B.2
<b><i>Transmontane Alkali Marsh</i></b> Transmontane Alkali Marsh	CTT52320CA	None	None	G3	S2.1	
<b><i>Vulpes vulpes necator</i></b> Sierra Nevada red fox	AMAJA03012	Proposed Endangered	Threatened	G5T1T2	S1	

Record Count: 53

# IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

## Location

Inyo County, California



## Local office

Reno Fish And Wildlife Office

☎ (775) 861-6300

📅 (775) 861-6301

1340 Financial Boulevard, Suite 234  
Reno, NV 89502-7147

<http://www.fws.gov/reno/>

# Endangered species

**This resource list is for informational purposes only and does not constitute an analysis of project level impacts.**

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species<sup>1</sup> and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries<sup>2</sup>).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

## Mammals

NAME

STATUS

Sierra Nevada Bighorn Sheep <i>Ovis canadensis sierrae</i>	Endangered
There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available.	
<a href="https://ecos.fws.gov/ecp/species/3646">https://ecos.fws.gov/ecp/species/3646</a>	

## Birds

NAME	STATUS
Southwestern Willow Flycatcher <i>Empidonax traillii extimus</i>	Endangered
Wherever found	
There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available.	
<a href="https://ecos.fws.gov/ecp/species/6749">https://ecos.fws.gov/ecp/species/6749</a>	
Yellow-billed Cuckoo <i>Coccyzus americanus</i>	Threatened
There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available.	
<a href="https://ecos.fws.gov/ecp/species/3911">https://ecos.fws.gov/ecp/species/3911</a>	

## Fishes

NAME	STATUS
Lahontan Cutthroat Trout <i>Oncorhynchus clarkii henshawi</i>	Threatened
Wherever found	
No critical habitat has been designated for this species.	
<a href="https://ecos.fws.gov/ecp/species/3964">https://ecos.fws.gov/ecp/species/3964</a>	
Owens Pupfish <i>Cyprinodon radiosus</i>	Endangered
Wherever found	
No critical habitat has been designated for this species.	
<a href="https://ecos.fws.gov/ecp/species/4982">https://ecos.fws.gov/ecp/species/4982</a>	
Owens Tui Chub <i>Gila bicolor ssp. snyderi</i>	Endangered
Wherever found	
There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available.	
<a href="https://ecos.fws.gov/ecp/species/7289">https://ecos.fws.gov/ecp/species/7289</a>	

## Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i>	Candidate
Wherever found	
No critical habitat has been designated for this species.	
<a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>	

# Flowering Plants

NAME	STATUS
Fish Slough Milk-vetch <i>Astragalus lentiginosus</i> var. <i>piscinensis</i> Wherever found There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. <a href="https://ecos.fws.gov/ecp/species/7947">https://ecos.fws.gov/ecp/species/7947</a>	Threatened

## Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

## Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>
- Measures for avoiding and minimizing impacts to birds <http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>
- Nationwide conservation measures for birds <http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the

Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)
<p><b>Bald Eagle</b> <i>Haliaeetus leucocephalus</i>            This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.  <a href="https://ecos.fws.gov/ecp/species/1626">https://ecos.fws.gov/ecp/species/1626</a></p>	Breeds Dec 1 to Aug 31
<p><b>Brewer's Sparrow</b> <i>Spizella breweri</i>            This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA  <a href="https://ecos.fws.gov/ecp/species/9291">https://ecos.fws.gov/ecp/species/9291</a></p>	Breeds May 15 to Aug 10
<p><b>Golden Eagle</b> <i>Aquila chrysaetos</i>            This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA  <a href="https://ecos.fws.gov/ecp/species/1680">https://ecos.fws.gov/ecp/species/1680</a></p>	Breeds Dec 1 to Aug 31
<p><b>Green-tailed Towhee</b> <i>Pipilo chlorurus</i>            This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA  <a href="https://ecos.fws.gov/ecp/species/9444">https://ecos.fws.gov/ecp/species/9444</a></p>	Breeds May 1 to Aug 10

<b>Lesser Yellowlegs</b> <i>Tringa flavipes</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9679">https://ecos.fws.gov/ecp/species/9679</a>	Breeds elsewhere
<b>Lewis's Woodpecker</b> <i>Melanerpes lewis</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9408">https://ecos.fws.gov/ecp/species/9408</a>	Breeds Apr 20 to Sep 30
<b>Long-billed Curlew</b> <i>Numenius americanus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/5511">https://ecos.fws.gov/ecp/species/5511</a>	Breeds Apr 1 to Jul 31
<b>Marbled Godwit</b> <i>Limosa fedoa</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9481">https://ecos.fws.gov/ecp/species/9481</a>	Breeds elsewhere
<b>Olive-sided Flycatcher</b> <i>Contopus cooperi</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/3914">https://ecos.fws.gov/ecp/species/3914</a>	Breeds May 20 to Aug 31
<b>Pinyon Jay</b> <i>Gymnorhinus cyanocephalus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9420">https://ecos.fws.gov/ecp/species/9420</a>	Breeds Feb 15 to Jul 15
<b>Sage Thrasher</b> <i>Oreoscoptes montanus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA <a href="https://ecos.fws.gov/ecp/species/9433">https://ecos.fws.gov/ecp/species/9433</a>	Breeds Apr 15 to Aug 10
<b>Sagebrush Sparrow</b> <i>Artemisiospiza nevadensis</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Mar 15 to Jul 31
<b>Tricolored Blackbird</b> <i>Agelaius tricolor</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/3910">https://ecos.fws.gov/ecp/species/3910</a>	Breeds Mar 15 to Aug 10

**Virginia's Warbler** *Vermivora virginiae*

Breeds May 1 to Jul 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9441>

**Willet** *Tringa semipalmata*

Breeds Apr 20 to Aug 5

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

**Willow Flycatcher** *Empidonax traillii*

Breeds May 20 to Aug 31

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

<https://ecos.fws.gov/ecp/species/3482>

## Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

### Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is  $0.25/0.25 = 1$ ; at week 20 it is  $0.05/0.25 = 0.2$ .
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

### Breeding Season (■)



Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

### Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

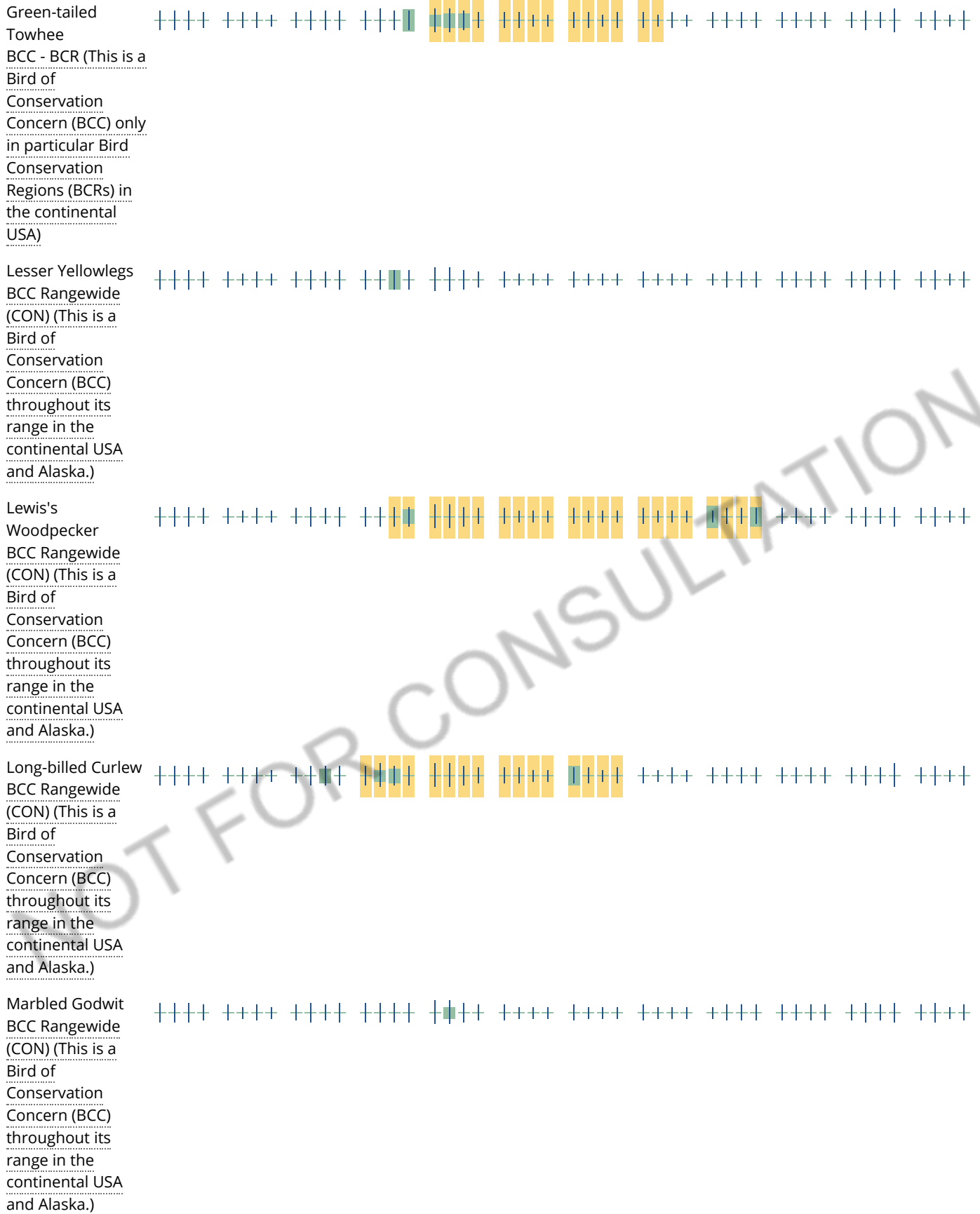
### No Data (-)

A week is marked as having no data if there were no survey events for that week.

### Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Olive-sided Flycatcher  
 BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



Pinyon Jay  
 BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



Sage Thrasher  
 BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)



Sagebrush Sparrow  
 BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)



SPECIES

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

Tricolored Blackbird  
 BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)





**Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.**

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

**What does IPaC use to generate the migratory birds potentially occurring in my specified location?**

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [AKN Phenology Tool](#).

## What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

## How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: [The Cornell Lab of Ornithology All About Birds Bird Guide](#), or (if you are unsuccessful in locating the bird of interest there), the [Cornell Lab of Ornithology Neotropical Birds guide](#). If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

## What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

## Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

## What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

## Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

## Facilities

### National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

### Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

## Wetlands in the National Wetlands Inventory

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

FRESHWATER EMERGENT WETLAND

[PEM1C](#)

[PEM1A](#)

[PEM1Kx](#)

FRESHWATER FORESTED/SHRUB WETLAND

[PSSC](#)

[PFOC](#)

FRESHWATER POND

[PUBKx](#)

[PABHh](#)

[PUBHh](#)

[PABH](#)

[PUBFx](#)

A full description for each wetland code can be found at the [National Wetlands Inventory website](#)

#### Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

#### Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

#### Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.



**Multiple Occurrences per Page**  
**California Department of Fish and Wildlife**  
**California Natural Diversity Database**



**Query Criteria:** Quad IS (Bishop (3711834) OR Poleta Canyon (3711833) OR Fish Slough (3711844) OR Laws (3711843))

<b><i>Lithobates pipiens</i></b>		<b>Element Code:</b> AAABH01170	
northern leopard frog			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDB Element Ranks:</b>	<b>Global:</b> G5
	<b>State:</b> None		<b>State:</b> S2
	<b>Other:</b> CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern		
<b>Habitat:</b>	<b>General:</b> NATIVE RANGE IS EAST OF SIERRA NEVADA-CASCADE CREST. NEAR PERMANENT OR SEMI-PERMANENT WATER IN A VARIETY OF HABITATS.		
	<b>Micro:</b> HIGHLY AQUATIC SPECIES. SHORELINE COVER, SUBMERGED AND EMERGENT AQUATIC VEGETATION ARE IMPORTANT HABITAT CHARACTERISTICS.		

<b>Occurrence No.</b>	4	<b>Map Index:</b> 73687	<b>EO Index:</b> 74653	<b>Element Last Seen:</b>	1953-07-12
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1953-07-12
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2009-02-24
<b>Quad Summary:</b>	Poleta Canyon (3711833), Laws (3711843)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.36143 / -118.30434		<b>Accuracy:</b>	1 mile	
<b>UTM:</b>	Zone-11 N4135766 E384493		<b>Elevation (ft):</b>	4370	
<b>PLSS:</b>	T07S, R33E, Sec. 12 (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	0.77 MI ENE OF POLETA RD, EAST OF BISHOP.				
<b>Detailed Location:</b>	LOCATION GIVEN AS, "5 MI E OF BISHOP". MAPPED AT THE COORDINATES GIVEN BY LACM.				
<b>Ecological:</b>					
<b>General:</b>	5 INDIVIDUALS (LACM 13838-41 & 109943) COLLECTED ON 12 JUL 1953 BY R. L. PHELAN.				
<b>Owner/Manager:</b>	UNKNOWN				

<b>Occurrence No.</b>	12	<b>Map Index:</b> 73706	<b>EO Index:</b> 74677	<b>Element Last Seen:</b>	1960-03-27
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1960-03-27
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2009-02-26
<b>Quad Summary:</b>	Fish Slough (3711844)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.42102 / -118.40695		<b>Accuracy:</b>	1 mile	
<b>UTM:</b>	Zone-11 N4142508 E375504		<b>Elevation (ft):</b>	4160	
<b>PLSS:</b>	T06S, R32E, Sec. 13 (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	IN THE VICINITY OF THE CONFLUENCE OF THE OWENS RIVER AND FISH SLOUGH, 5 MI NORTH OF BISHOP.				
<b>Detailed Location:</b>	LOCATION GIVEN AS "5 MI N OF BISHOP". MAPPED ACCORDING TO THIS LOCATION, NOT THE COORDINATES PROVIDED BY MVZ.				
<b>Ecological:</b>					
<b>General:</b>	5 INDIVIDUALS (MVZ #71680-83) COLLECTED ON 27 MAR 1960 BY R. HOCK.				
<b>Owner/Manager:</b>	UNKNOWN				





**Multiple Occurrences per Page**  
**California Department of Fish and Wildlife**  
**California Natural Diversity Database**



<b>Occurrence No.</b>	14	<b>Map Index:</b> 73721	<b>EO Index:</b> 74693	<b>Element Last Seen:</b> 1960-06-01
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1960-06-01
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2009-02-26

**Quad Summary:** Bishop (3711834)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.36125 / -118.48974	<b>Accuracy:</b>	3/5 mile
<b>UTM:</b>	Zone-11 N4135989 E368074	<b>Elevation (ft):</b>	4580
<b>PLSS:</b>	T07S, R32E, Sec. 08 (M)	<b>Acres:</b>	0.0

**Location:** BIRCH CREEK, 4 MI WEST OF BISHOP.

**Detailed Location:** LOCATION GIVEN AS "4 MI W OF BISHOP, ARMSTRONG'S". MAPPED ACCORDING TO THIS LOCATION, NOT THE COORDINATES PROVIDED BY MVZ.

**Ecological:**

**General:** 1 INDIVIDUAL (MVZ #71685) COLLECTED ON 1 JUN 1960 BY R. HOCK.

**Owner/Manager:** UNKNOWN

***Circus hudsonius***

**Element Code:** ABNKC11011

northern harrier

<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDB Element Ranks:</b>	<b>Global:</b> G5
	<b>State:</b> None		<b>State:</b> S3

**Other:** CDFW\_SSC-Species of Special Concern, IUCN\_LC-Least Concern

**Habitat: General:** COASTAL SALT & FRESHWATER MARSH. NEST AND FORAGE IN GRASSLANDS, FROM SALT GRASS IN DESERT SINK TO MOUNTAIN CIENAGAS.

**Micro:** NESTS ON GROUND IN SHRUBBY VEGETATION, USUALLY AT MARSH EDGE; NEST BUILT OF A LARGE MOUND OF STICKS IN WET AREAS.

<b>Occurrence No.</b>	22	<b>Map Index:</b> 22555	<b>EO Index:</b> 8571	<b>Element Last Seen:</b> 1992-06-28
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1992-06-28
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 1992-11-06

**Quad Summary:** Poleta Canyon (3711833)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.26646 / -118.27204	<b>Accuracy:</b>	1/5 mile
<b>UTM:</b>	Zone-11 N4125190 E387212	<b>Elevation (ft):</b>	4100
<b>PLSS:</b>	T08S, R34E, Sec. 08, SW (M)	<b>Acres:</b>	0.0

**Location:** WARM SPRINGS. ABOUT 2 MILES EAST OF THE OWENS RIVER. NE OF BIG PINE.

**Detailed Location:**

**Ecological:** 2 PONDS HAVE BEEN CREATED FOR CYPRINODON RADIOSUS. PONDS ARE CURRENTLY (1992) HEAVILY OVERGROWN WITH CATTAILS. SURROUNDING AREA IS GRASSLAND TO THE WEST AND THE STEEPLY RISING WHITE MTNS TO THE EAST.

**General:** 4 JUVENILES AND 1 ADULT MALE WERE OBSERVED. OTHER ADULT MALES WERE SEEN SOUTH OF BIG PINE & AT KLONDIKE LAKE IN EARLY MAY.

**Owner/Manager:** LADWP, BLM

***Buteo swainsoni***

**Element Code:** ABNKC19070

Swainson's hawk

<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDB Element Ranks:</b>	<b>Global:</b> G5
	<b>State:</b> Threatened		<b>State:</b> S3

**Other:** BLM\_S-Sensitive, IUCN\_LC-Least Concern, USFWS\_BCC-Birds of Conservation Concern

**Habitat: General:**



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BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

**Micro:** REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

<b>Occurrence No.</b>	289	<b>Map Index:</b>	01555	<b>EO Index:</b>	18834	<b>Element Last Seen:</b>	1987-05-21
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		1987-05-21	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2013-10-21	

**Quad Summary:** Fish Slough (3711844), Chidago Canyon (3711854)

**County Summary:** Mono

<b>Lat/Long:</b>	37.51158 / -118.40235	<b>Accuracy:</b>	1 mile
<b>UTM:</b>	Zone-11 N4152550 E376061	<b>Elevation (ft):</b>	4900
<b>PLSS:</b>	T05S, R33E, Sec. 18 (M)	<b>Acres:</b>	0.0

**Location:** FISH SLOUGH, NORTH OF BISHOP.

**Detailed Location:** EXACT NEST LOCATIONS UNKNOWN. MAPPED TO GENERAL VICINITY OF FISH SLOUGH.

**Ecological:** RIPARIAN HABITAT SURROUNDED BY DESERT SCRUB IN A PREDOMINANTLY ARID VALLEY.

**General:** NESTING PAIR OBSERVED, JUL 1984. ACTIVE NEST PRODUCED 2 YOUNG IN 1985. ACTIVE NEST ABANDONED IN 1986. PAIR SEEN MAY 1987, BUT NOT JUN, JUL, OR SEP 1987; ADULT CARRYING FOOD/HAWK ON NEST CITED AS EVIDENCE OF BREEDING.

**Owner/Manager:** LADWP, BLM

<b>Occurrence No.</b>	1246	<b>Map Index:</b>	52007	<b>EO Index:</b>	52007	<b>Element Last Seen:</b>	1986-07-01
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		1986-07-01	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2003-08-05	

**Quad Summary:** Laws (3711843)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.41558 / -118.36316	<b>Accuracy:</b>	non-specific area
<b>UTM:</b>	Zone-11 N4141847 E379370	<b>Elevation (ft):</b>	4115
<b>PLSS:</b>	T06S, R33E, Sec. 21, NW (M)	<b>Acres:</b>	165.7

**Location:** OWENS VALLEY, NORTH OF THE OWENS RIVER, 3.5 MILES NE OF BISHOP.

**Detailed Location:**

**Ecological:** NEST TREE IS A COTTONWOOD; SURROUNDED BY MIXED DESERT SCRUB.

**General:** DFG SWHA #IN004. 2 ADULTS/2 JUVENILES OBSERVED AT THE NEST ON 11 AUG 1983. 2 ADULTS OBSERVED NESTING ON 15 MAY 1984. 2 ADULTS/3 JUVENILES OBSERVED ON 25 JUN 1985. 2 ADULTS/3 JUVENILES OBSERVED ON 1 JUL 1986.

**Owner/Manager:** LADWP



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<b>Occurrence No.</b>	1247	<b>Map Index:</b> 52008	<b>EO Index:</b> 52008	<b>Element Last Seen:</b>	1983-07-XX
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1986-XX-XX
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2003-08-05

**Quad Summary:** Poleta Canyon (3711833)

**County Summary:** Inyo

**Lat/Long:** 37.31093 / -118.34044 **Accuracy:** non-specific area

**UTM:** Zone-11 N4130209 E381216 **Elevation (ft):** 4045

**PLSS:** T07S, R33E, Sec. 27 (M) **Acres:** 639.4

**Location:** 4 MILES SE OF BISHOP.

**Detailed Location:**

**Ecological:** NEST TREE WAS A COTTONWOOD; SURROUNDED BY MIXED DESERT SCRUB.

**General:** DFG SWHA #IN005. 2 ADULTS AND 1 JUVENILE OBSERVED AT THIS ACTIVE NEST SITE IN JUL 1983. SITE INACTIVE, 1984-86.

**Owner/Manager:** LADWP

<b>Occurrence No.</b>	1248	<b>Map Index:</b> 52010	<b>EO Index:</b> 52010	<b>Element Last Seen:</b>	2008-07-09
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2008-07-09
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2013-10-10

**Quad Summary:** Laws (3711843)

**County Summary:** Inyo

**Lat/Long:** 37.45403 / -118.34227 **Accuracy:** non-specific area

**UTM:** Zone-11 N4146087 E381280 **Elevation (ft):** 4215

**PLSS:** T06S, R33E, Sec. 03, SW (M) **Acres:** 322.0

**Location:** 4 MILES NORTH OF LAWS, JUST SOUTH OF RUDOLPH ROAD AND EAST OF HIGHWAY 6.

**Detailed Location:** NE POLYGON REPRESENTS 1994 NEST SITE, TERRITORY IN008 FROM CDFW SWHA DATABASE, MAPPED TO GIVEN TRS. SW POLYGON REPRESENTS 1996 & 1998 SITES PER FIELD SURVEY FORMS; 1996 NEST ON E SIDE OF HWY, 1998 ON W. 2008 COLLECTION TAKEN IN VICINITY.

**Ecological:** 1994 NEST IN 20' ELM, SURROUNDED BY ALFALFA FIELDS. 1996 NEST IN SHORT LOCUST TREE NEXT TO HIGHWAY 6. 2 NESTS APPARENTLY UTILIZED IN 1998, IN LOCUST TREES NORTH AND SOUTH OF N MCNALLY CANAL.

**General:** 2 ADULTS & 2 YOUNG OBSERVED AT NEST 26 JUL 1994. RED-TAILED HAWKS AT RUDOLPH RD SITE, 1996; SWHA AT NEW SITE, UNKNOWN SUCCESS. FEMALE ON NEST OBS 11 JUN 1998; 3 YOUNG IN NEST FURTHER S, 5 AUG; 2 FLEDGED BY 12 AUG. EGGS COLLECTED 9 JUL 2008.

**Owner/Manager:** LADWP



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<b>Occurrence No.</b>	2419	<b>Map Index:</b> 89915	<b>EO Index:</b> 90926	<b>Element Last Seen:</b>	2012-XX-XX
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2012-XX-XX
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2013-08-06
<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.41086 / -118.34488		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4141301 E380981		<b>Elevation (ft):</b>	1258	
<b>PLSS:</b>	T06S, R33E, Sec. 22, SW (M)		<b>Acres:</b>	8.0	
<b>Location:</b>	E SIDE JOE SMITH ROAD, ABOUT 0.6 MILE SOUTH OF THE JEAN BLANC ROAD JUNCTION AND 0.7 MILE NORTH OF LAWS.				
<b>Detailed Location:</b>	MAPPED TO GIVEN COORDINATES.				
<b>Ecological:</b>	NEST TREES WERE LOCUSTS.				
<b>General:</b>	NEST WITH 2 YOUNG OBSERVED DURING 2008 SURVEYS, YOUNG BANDED AT ABOUT 4.5 WEEKS ON 9 JUL 2008. ACTIVE NEST OBSERVED DURING 2012 SURVEYS PRODUCED 3 YOUNG.				
<b>Owner/Manager:</b>	DWR				
<b>Occurrence No.</b>	2572	<b>Map Index:</b> 90438	<b>EO Index:</b> 91551	<b>Element Last Seen:</b>	2008-07-09
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2008-07-09
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2013-09-24
<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.43539 / -118.35019		<b>Accuracy:</b>	80 meters	
<b>UTM:</b>	Zone-11 N4144029 E380550		<b>Elevation (ft):</b>	1260	
<b>PLSS:</b>	T06S, R33E, Sec. 09, SE (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	WEST SIDE OF HIGHWAY 6 ABOUT 1.1 MILES NORTH OF THE JEAN BLANC RD INTERSECTION, 5.1 MILES NNE OF BISHOP.				
<b>Detailed Location:</b>	MAPPED TO COORDINATES GIVEN IN SURVEY DATA TABLE.				
<b>Ecological:</b>	NEST IN COTTONWOOD.				
<b>General:</b>	ACTIVE NEST LAST VISITED 9 JUL 2008; NEST FAILED (EGGS/YOUNG DID NOT SURVIVE).				
<b>Owner/Manager:</b>	LADWP				



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<b>Occurrence No.</b>	2573	<b>Map Index:</b>	90439	<b>EO Index:</b>	91552	<b>Element Last Seen:</b>	2008-07-09
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		2008-07-09	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2013-09-25	
<b>Quad Summary:</b>	Laws (3711843)						
<b>County Summary:</b>	Inyo						
<b>Lat/Long:</b>	37.41653 / -118.34270		<b>Accuracy:</b>	80 meters			
<b>UTM:</b>	Zone-11 N4141927 E381183		<b>Elevation (ft):</b>	1260			
<b>PLSS:</b>	T06S, R33E, Sec. 22, NW (M)		<b>Acres:</b>	0.0			
<b>Location:</b>	ALONG SOUTH MCNALLY CANAL, ABOUT 0.25 MILE SOUTHEAST OF JEAN BLANC ROAD AT JOE SMITH ROAD, 4 MILES NE OF BISHOP.						
<b>Detailed Location:</b>	1994 DETECTION AT TERRITORY IN009 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE, "1 MI NORTH OF LAWS." MAPPED TO COORDINATES PROVIDED IN TABLE OF SURVEY DATA FOR 2008 NEST SITE, LOCATION DESCRIPTION "JOE SMITH/NORTH."						
<b>Ecological:</b>	NEST TREE WAS A COTTONWOOD.						
<b>General:</b>	1 ADULT OBSERVED IN JUL 1994, NEST NOT FOUND. ACTIVE NEST WAS LAST VISITED ON 9 JUL 2008; NEST FAILED (EGGS/CHICKS DID NOT SURVIVE).						
<b>Owner/Manager:</b>	LADWP						
<b>Occurrence No.</b>	2574	<b>Map Index:</b>	90440	<b>EO Index:</b>	91553	<b>Element Last Seen:</b>	2005-07-18
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		2005-07-18	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2013-09-25	
<b>Quad Summary:</b>	Laws (3711843)						
<b>County Summary:</b>	Inyo						
<b>Lat/Long:</b>	37.42226 / -118.33451		<b>Accuracy:</b>	80 meters			
<b>UTM:</b>	Zone-11 N4142553 E381916		<b>Elevation (ft):</b>	1266			
<b>PLSS:</b>	T06S, R33E, Sec. 15 (M)		<b>Acres:</b>	0.0			
<b>Location:</b>	ALONG NORTH MCNALLY CANAL, ABOUT 0.6 MILE NE OF JEAN BLANC ROAD AT JOE SMITH ROAD, 4.6 MILES NE OF BISHOP.						
<b>Detailed Location:</b>	MAPPED TO COORDINATES PROVIDED IN TABLE OF SURVEY DATA.						
<b>Ecological:</b>							
<b>General:</b>	ACTIVE NEST OBSERVED, ADULT FEMALE BANDED ON 18 JUL 2005; NEST SUCCESS UNKNOWN.						
<b>Owner/Manager:</b>	LADWP						



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<b>Occurrence No.</b>	2613	<b>Map Index:</b>	90589	<b>EO Index:</b>	91721	<b>Element Last Seen:</b>	2009-07-15
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		2009-07-15	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2013-10-10	
<b>Quad Summary:</b>	Laws (3711843)						
<b>County Summary:</b>	Inyo						
<b>Lat/Long:</b>	37.44233 / -118.34428			<b>Accuracy:</b>	1/10 mile		
<b>UTM:</b>	Zone-11 N4144792 E381084			<b>Elevation (ft):</b>	1264		
<b>PLSS:</b>	T06S, R33E, Sec. 10, NW (M)			<b>Acres:</b>	0.0		
<b>Location:</b>	EAST SIDE OF HIGHWAY 6 ABOUT 0.5 MILE SE OF THE NORTH MCNALLY CANAL CROSSING AND 2.9 MILES NORTH OF LAWS.						
<b>Detailed Location:</b>	MAPPED TO COORDINATES GIVEN FOR SITE "SO. CHALFANT N. OF LAWS" FROM SURVEY DATA TABLE. NO DISTINCT TREE OR TREE SHADOW IS VISIBLE IN AERIAL PHOTOS AT THIS LOCATION, BUT THIS IS SOMETIMES THE CASE WITH DEAD TREES.						
<b>Ecological:</b>	NEST IN DEAD TREE.						
<b>General:</b>	ACTIVE NEST, WITH 1 YOUNG BANDED ON 15 JUL 2009.						
<b>Owner/Manager:</b>	LADWP						
<b>Occurrence No.</b>	2759	<b>Map Index:</b>	B2092	<b>EO Index:</b>	114017	<b>Element Last Seen:</b>	2017-06-13
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		2017-06-13	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2019-01-28	
<b>Quad Summary:</b>	Laws (3711843)						
<b>County Summary:</b>	Inyo						
<b>Lat/Long:</b>	37.40656 / -118.35103			<b>Accuracy:</b>	80 meters		
<b>UTM:</b>	Zone-11 N4140831 E380431			<b>Elevation (ft):</b>	4118		
<b>PLSS:</b>	T06S, R33E, Sec. 21, SE (M)			<b>Acres:</b>	5.0		
<b>Location:</b>	ABOUT 0.5 MILES NNE OF HWY 6 AT SILVER CANYON RD AND 0.9 MILES SSW OF JOE SMITH RD AT JEAN BLANC RD, LAWS.						
<b>Detailed Location:</b>	MAPPED TO COORDINATES PROVIDED FOR NEST SITE.						
<b>Ecological:</b>	NEST WAS IN COTTONWOOD TREE.						
<b>General:</b>	NEST WITH 2 DEAD HATCHLINGS AND 1 EGG FOUND ON GROUND ON 13 JUN 2017. THE NEST HAD FALLEN OUT OF THE TREE.						
<b>Owner/Manager:</b>	LADWP						



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<b><i>Aquila chrysaetos</i></b>		<b>Element Code:</b> ABNKC22010	
golden eagle			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G5
	<b>State:</b> None		<b>State:</b> S3
<b>Other:</b>	BLM_S-Sensitive, CDF_S-Sensitive, CDFW_FP-Fully Protected, CDFW_WL-Watch List, IUCN_LC-Least Concern, USFWS_BCC-Birds of Conservation Concern		
<b>Habitat:</b>	<b>General:</b> ROLLING FOOTHILLS, MOUNTAIN AREAS, SAGE-JUNIPER FLATS, AND DESERT.		
	<b>Micro:</b> CLIFF-WALLED CANYONS PROVIDE NESTING HABITAT IN MOST PARTS OF RANGE; ALSO, LARGE TREES IN OPEN AREAS.		

<b>Occurrence No.</b>	38	<b>Map Index:</b>	01555	<b>EO Index:</b>	17842	<b>Element Last Seen:</b>	1987-07-12
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		1987-07-12	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		1994-04-20	
<b>Quad Summary:</b>	Fish Slough (3711844), Chidago Canyon (3711854)						
<b>County Summary:</b>	Mono						
<b>Lat/Long:</b>	37.51158 / -118.40235		<b>Accuracy:</b>	1 mile			
<b>UTM:</b>	Zone-11 N4152550 E376061		<b>Elevation (ft):</b>	4900			
<b>PLSS:</b>	T05S, R33E, Sec. 18 (M)		<b>Acres:</b>	0.0			
<b>Location:</b>	FISH SLOUGH, NORTH OF BISHOP.						
<b>Detailed Location:</b>							
<b>Ecological:</b>							
<b>General:</b>	ONE INDIVIDUAL DETECTED ON EACH FOLLOWING DATE: 4/21/75, 3/27/76, 6/22/86, AND 7/12/87. AN INDEPENDENT JUVENILE THAT WAS DETECTED WAS CITED AS EVIDENCE OF BREEDING.						
<b>Owner/Manager:</b>	LADWP, BLM						



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<b>Falco mexicanus</b>		<b>Element Code:</b> ABNKD06090
prairie falcon		
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks: Global:</b> G5
	<b>State:</b> None	<b>State:</b> S4
	<b>Other:</b> CDFW_WL-Watch List, IUCN_LC-Least Concern, USFWS_BCC-Birds of Conservation Concern	
<b>Habitat:</b>	<b>General:</b> INHABITS DRY, OPEN TERRAIN, EITHER LEVEL OR HILLY.	
	<b>Micro:</b> BREEDING SITES LOCATED ON CLIFFS. FORAGES FAR AFIELD, EVEN TO MARSHLANDS AND OCEAN SHORES.	

**\* SENSITIVE \***

<b>Occurrence No.</b>	268	<b>Map Index:</b>	01574	<b>EO Index:</b>	26144	<b>Element Last Seen:</b>	1974-05-20
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		<b>Record Last Updated:</b>	2020-07-24
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown				

**Quad Summary:** Fish Slough (3711844)

**County Summary:** Inyo, Mono

<b>Lat/Long:</b>		<b>Accuracy:</b>	1 mile
<b>UTM:</b>		<b>Elevation (ft):</b>	4570
<b>PLSS:</b>		<b>Acres:</b>	0.0

**Location:** \*SENSITIVE\* LOCATION INFORMATION SUPPRESSED.

**Detailed Location:** PLEASE CONTACT THE CALIFORNIA NATURAL DIVERSITY DATABASE, CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, FOR MORE INFORMATION: (916) 322-2493

**Ecological:** NEST WAS COMPOSED OF STICKS 15 FT UP A ROCK CLIFF. GOLDEN EAGLES OCCUPIED NEST IN 1982.

**General:**

**Owner/Manager:**

<b>Athene cucularia</b>		<b>Element Code:</b> ABNSB10010
burrowing owl		
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks: Global:</b> G4
	<b>State:</b> None	<b>State:</b> S3
	<b>Other:</b> BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFWS_BCC-Birds of Conservation Concern	
<b>Habitat:</b>	<b>General:</b> OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS, AND SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	
	<b>Micro:</b> SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.	





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<b>Occurrence No.</b>	566	<b>Map Index:</b> 01745	<b>EO Index:</b> 51253	<b>Element Last Seen:</b>	1916-04-23
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1916-04-23
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2011-02-15

**Quad Summary:** Laws (3711843)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.40214 / -118.34705	<b>Accuracy:</b>	1/5 mile
<b>UTM:</b>	Zone-11 N4140336 E380775	<b>Elevation (ft):</b>	4120
<b>PLSS:</b>	T06S, R33E, Sec. 27, NW (M)	<b>Acres:</b>	0.0

**Location:** LAWS.

**Detailed Location:** MVZ LOCALITY STATED AS LAWS.

**Ecological:**

**General:** MVZ #26718 FEMALE AND MVZ #1644 (EGG SET) COLLECTED BY JOSEPH S. DIXON ON 23 APR 1916; FEMALE WAS AT NEST WITH 3 EGGS.

**Owner/Manager:** UNKNOWN

<b>Occurrence No.</b>	2039	<b>Map Index:</b> B0530	<b>EO Index:</b> 112393	<b>Element Last Seen:</b>	2017-05-26
<b>Occ. Rank:</b>	Fair		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2017-05-26
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2018-09-07

**Quad Summary:** Laws (3711843)

**County Summary:** Mono

<b>Lat/Long:</b>	37.46492 / -118.34999	<b>Accuracy:</b>	80 meters
<b>UTM:</b>	Zone-11 N4147305 E380616	<b>Elevation (ft):</b>	4255
<b>PLSS:</b>	T05S, R33E, Sec. 33, SE (M)	<b>Acres:</b>	5.0

**Location:** ALONG HWY 6 ABOUT 0.6 MILES N OF THE RUDOLPH RD JUNCTION, ESE OF FISH SLOUGH ER.

**Detailed Location:** MAPPED TO COORDINATES PROVIDED ON 2017 FIELD SURVEY FORM. 2016 EBIRD DETECTIONS APPEAR TO HAVE BEEN IN NEARLY THE SAME PLACE, "EAST SIDE OF HWY 6 JUST NORTH OF THE COUNTY LINE."

**Ecological:** BLACKBUSH SCRUB ADJACENT TO CULVERT AND DRAINAGE DITCH ALONG HWY 6; INVASIVE WEEDS HAVE FILLED IN THE DITCH.

**General:** SIGHTINGS OF SINGLE ADULT REPORTED FROM 25-27 MAY & 18 JUN 2016. 1 OBSERVED PERCHED ON FENCEPOST NEXT TO A BURROW, 26 MAY 2017; SEEN AGAIN ON 13 JUN. REPEATED SIGHTINGS INDICATE THE OWL WAS NOT MERELY TRANSIENT.

**Owner/Manager:** LADWP



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<b>Occurrence No.</b>	2043	<b>Map Index:</b> B1823	<b>EO Index:</b> 113741	<b>Element Last Seen:</b>	2017-06-23
<b>Occ. Rank:</b>	Excellent		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2017-06-23
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2019-01-04

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<b>Quad Summary:</b>	Poleta Canyon (3711833)				
<b>County Summary:</b>	Inyo				

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<b>Lat/Long:</b>	37.2921 / -118.2712	<b>Accuracy:</b>	1/10 mile		
<b>UTM:</b>	Zone-11 N4128034 E387325	<b>Elevation (ft):</b>	4499		
<b>PLSS:</b>	T07S, R34E, Sec. 32, SW (M)	<b>Acres:</b>	18.0		

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<b>Location:</b>	ALONG BLACK CANYON RD, ABOUT 3.0 MILES NW OF THE BLACK MOUNTAIN SUMMIT AND 6.3 MILES NE OF KEOUGH HOT SPRINGS.				
<b>Detailed Location:</b>	DETECTED ALONG AN APPROXIMATELY 200M STRETCH OF THE CREST OF A LOW RIDGE JUST NORTH OF BLACK CANYON RD.				
<b>Ecological:</b>	POSSIBLE NESTING COLONY. BURROWS SEEN NEAR CREST OF ROAD EMBANKMENT; A LOW, FLAT-TOPPED RIDGE AT THE MOUTH OF MARBLE CYN, NEAR EDGE OF BROAD ALLUVIAL FAN VEGETATED W/SPARSE DESERT SCRUB. MINIMAL DISTURBANCE FROM RECREATIONAL ROAD TRAFFIC.				
<b>General:</b>	4 ADULTS OBSERVED ON MULTIPLE VISITS, 21-23 JUN 2017. ADULTS WERE SEEN PERCHED IN AREA WITH MULTIPLE BURROWS, AND FLUSHED WHEN VEHICLES APPROACHED.				
<b>Owner/Manager:</b>	BLM				

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<b><i>Empidonax traillii extimus</i></b>		<b>Element Code:</b> ABPAE33043	
southwestern willow flycatcher			
<b>Listing Status:</b>	<b>Federal:</b> Endangered	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G5T2
	<b>State:</b> Endangered		<b>State:</b> S1
	<b>Other:</b> NABCI_RWL-Red Watch List		
<b>Habitat:</b>	<b>General:</b> RIPARIAN WOODLANDS IN SOUTHERN CALIFORNIA.		
	<b>Micro:</b> <input type="checkbox"/>		

<b>Occurrence No.</b>	52	<b>Map Index:</b>	66239	<b>EO Index:</b>	66321	<b>Element Last Seen:</b>	2003-06-25
<b>Occ. Rank:</b>	Excellent	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		2003-06-25	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2010-03-01	

**Quad Summary:** Fish Slough (3711844), Rovana (3711845)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.39461 / -118.49775	<b>Accuracy:</b>	specific area
<b>UTM:</b>	Zone-11 N4139701 E367423	<b>Elevation (ft):</b>	4370
<b>PLSS:</b>	T06S, R32E, Sec. 30, SE (M)	<b>Acres:</b>	16.0

**Location:** HORTON CRK FROM PLEASANT VALLEY DAM RD W ABOUT 0.2 MI, & E OF PLEASANT VLY DAM RD ABOUT 0.25 MI S OF JCT WITH THE CRK.  
**Detailed Location:** MAPPED TO PROVIDED COORDINATES. 2000 GENETIC STUDY BY PAXTON INDICATES THAT WILLOW FLYCATCHERS IN THE OWENS VALLEY AREA SHOULD BE CLASSIFIED AS SUBSPECIES EXTIMUS.  
**Ecological:** NATIVE RIPARIAN FOREST DOM BY SALIX GOODINGII & SALIX EXIGUA WITH A WELL-DEVELOPED UNDERSTORY. WATER IS PRESENT YEAR-ROUND AT THIS SITE. MAINTAINED AS OPEN SPACE FOR WATERSHED PROTECTION; LIVESTOCK GRAZING & RECREATION ALLOWED.  
**General:** NW: 1 PAIR ON 8 JUL 2001, 1 PAIR ON 30 JUN 2002, & A SINGLE BIRD ON 25 JUN 2003. NE: SINGLE BIRD ON 8 JUL 2001, SINGLE BIRD ON 17 MAY & 30 JUN 2002, & A PAIR ON 25 JUN 2003. S: 2 BIRDS ON 11 MAY 2002, WITH ONLY 1 SUBSEQUENTLY ON 30 JUN.  
**Owner/Manager:** LADWP

<b>Occurrence No.</b>	66	<b>Map Index:</b>	01749	<b>EO Index:</b>	79300	<b>Element Last Seen:</b>	1917-07-13
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		2005-07-14	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2010-03-23	

**Quad Summary:** Laws (3711843)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.39707 / -118.35478	<b>Accuracy:</b>	1 mile
<b>UTM:</b>	Zone-11 N4139783 E380083	<b>Elevation (ft):</b>	4100
<b>PLSS:</b>	T06S, R33E, Sec. 28 (M)	<b>Acres:</b>	0.0

**Location:** VICINITY OF LAWS AND THE OWENS RIVER, OWENS VALLEY.  
**Detailed Location:** MVZ LOCATIONS DESCRIBED AS "LAWS" & "FARRINGTON RANCH, LAWS." 1986 SURVEY OF OWENS RIVER INCLUDED T6S R33E SEC 28. 2005 LOCATION JUST SOUTH OF HWY 6 ABOUT 0.1 MI WEST OF JUNCTION WITH SILVER CANYON RD (COORDS PROVIDED).  
**Ecological:** RIPARIAN HABITAT BORDERING THE OWENS RIVER. DOMINATED BY SANDBAR WILLOW, ARROYO WILLOW & WOOD ROSE. SUITABLE HABITAT FOR SMALL # OF BREEDING BIRDS. SOME FORMERLY GOOD HABITAT BURNED - UNSUITABLE. RAILROAD DEVELOPMENT PROPOSED IN 2005.  
**General:** MVZ SPECIMENS COLLECTED ON 5 JUL 1917 (#27968 - ALSO IN BLM80S), 10 JUL 1917 (#27969 - ALSO IN BLM80S) & 13 JUL 1917 (#27970). NONE DETECTED IN 1986. WIFL MIGRANT DETECTED MAY 2005. SUBSPECIES EXTIMUS OCCURS IN OWENS VALLEY (PAXTON 2000).  
**Owner/Manager:** UNKNOWN



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<b>Riparia riparia</b>		<b>Element Code:</b> ABPAU08010	
bank swallow			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDB Element Ranks:</b>	<b>Global:</b> G5
	<b>State:</b> Threatened		<b>State:</b> S2
	<b>Other:</b> BLM_S-Sensitive, IUCN_LC-Least Concern		
<b>Habitat:</b>	<b>General:</b> COLONIAL NESTER; NESTS PRIMARILY IN RIPARIAN AND OTHER LOWLAND HABITATS WEST OF THE DESERT.		
	<b>Micro:</b> REQUIRES VERTICAL BANKS/CLIFFS WITH FINE-TEXTURED/SANDY SOILS NEAR STREAMS, RIVERS, LAKES, OCEAN TO DIG NESTING HOLE.		

<b>Occurrence No.</b>	189	<b>Map Index:</b>	22532	<b>EO Index:</b>	9085	<b>Element Last Seen:</b>	1999-06-25
<b>Occ. Rank:</b>	Fair	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		1999-06-25	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Fluctuating	<b>Record Last Updated:</b>		2011-12-02	

**Quad Summary:** Laws (3711843), Fish Slough (3711844)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.38216 / -118.37217	<b>Accuracy:</b>	2/5 mile
<b>UTM:</b>	Zone-11 N4138151 E378520	<b>Elevation (ft):</b>	4115
<b>PLSS:</b>	T06S, R33E, Sec. 32, SE (M)	<b>Acres:</b>	0.0

**Location:** NORTH FORK BISHOP CREEK, JUST NORTH OF THE BISHOP AIRPORT, OWENS VALLEY.  
**Detailed Location:** THIS LOCATION HAS BEEN REFERRED TO AS "HIATT GRAVEL QUARRY" OR "HIATT GRAVEL WORKS." APPEARS TO STILL BE A GRAVEL/SAND MINING OPERATION IN 2010 AIR PHOTOS, & HIATT READY-MIX INC HAS AN ADDRESS OF 906 EAST LINE ST, BISHOP ABOUT 1.5 MI SOUTH.  
**Ecological:** POSSIBLY NESTING ALONG A ROAD CUT LEADING TO GRAVEL PIT.  
**General:** ACTIVE COLONY DURING 1993, 1994, JUN 1995 (289 BURROWS; 20 ACTIVE), APR 1996, MAY 1997 (80 BIRDS), APR 1998, AND JUN 1999 (250 BURROWS). BIRDS DESCRIBED AS "IN AND OUT OF NESTS" DURING YEARS 1996-1999.  
**Owner/Manager:** LADWP

<b>Occurrence No.</b>	293	<b>Map Index:</b>	84388	<b>EO Index:</b>	85417	<b>Element Last Seen:</b>	2013-05-16
<b>Occ. Rank:</b>	Fair	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		2013-05-16	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Fluctuating	<b>Record Last Updated:</b>		2013-07-12	

**Quad Summary:** Fish Slough (3711844)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.41945 / -118.40168	<b>Accuracy:</b>	3/5 mile
<b>UTM:</b>	Zone-11 N4142327 E375968	<b>Elevation (ft):</b>	4150
<b>PLSS:</b>	T06S, R33E, Sec. 19, NW (M)	<b>Acres:</b>	0.0

**Location:** JUST NORTH OF THE OWENS RIVER, BETWEEN 5 BRIDGES ROAD AND FISH SLOUGH ROAD, ABOUT 4 MILES NORTH OF BISHOP.  
**Detailed Location:** THIS LOCATION HAS BEEN REFERENCED AS THE "NIK AND NIK QUARRY" OR AS "DESERT AGGREGATES." IT APPEARS TO NOW BE OWNED BY GRANITE CONSTRUCTION COMPANY.  
**Ecological:** THIS COLONY SITE WAS AT A GRAVEL QUARRY. DURING 1992, BANK SWALLOWS NESTED IN THE ARTIFICIAL CLIFFS AT THIS SITE. 2013 EBIRD NOTES STATED 2 COLONIES IN MUD BANKS; FURTHER DETAILS NEEDED.  
**General:** ACTIVE COLONY WITH 100 BURROWS ON 1 JUN 1992; COLONY DESTROYED BY 22 JUN 1992. COLONY INACTIVE FROM 1993-1995. BREEDING BEGAN AGAIN IN 1996-97 AND HAS BEEN REGULAR THROUGH 2011. SWALLOW NUMBERS HAVE FLUCTUATED 1997-2011. 2 COLONIES IN 2013.  
**Owner/Manager:** PVT, LADWP

<b>Siphateles bicolor snyderi</b>		<b>Element Code:</b> AFCJB1303J	
Owens tui chub			
<b>Listing Status:</b>	<b>Federal:</b> Endangered	<b>CNDDB Element Ranks:</b>	<b>Global:</b> G4T1
	<b>State:</b> Endangered		<b>State:</b> S1



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<b>Habitat:</b>	<b>Other:</b> AFS_EN-Endangered
	<b>General:</b> ENDEMIC TO THE OWENS RIVER BASIN IN A VARIETY OF HABITATS.
	<b>Micro:</b> NEEDS CLEAR, CLEAN WATER, ADEQUATE COVER, AND AQUATIC VEGETATION.

<b>Occurrence No.</b>	1	<b>Map Index:</b> 86450	<b>EO Index:</b> 28644	<b>Element Last Seen:</b> 1934-09-03
<b>Occ. Rank:</b>	None		<b>Presence:</b> Extirpated	<b>Site Last Seen:</b> 1934-09-03
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2012-09-28

**Quad Summary:** Laws (3711843), Fish Slough (3711844)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.38061 / -118.39198	<b>Accuracy:</b>	non-specific area
<b>UTM:</b>	Zone-11 N4138005 E376763	<b>Elevation (ft):</b>	4140
<b>PLSS:</b>	T06S, R33E, Sec. 31 (M)	<b>Acres:</b>	173.0

**Location:** NORTH FORK OF BISHOP CREEK, ABOUT 1.4 TO 3.6 AIR MILES FROM CONFLUENCE WITH OWENS RIVER; 1.25 MILES NORTH OF BISHOP PO.  
**Detailed Location:** MAPPED TO REACH OF BISHOP CREEK DESCRIBED IN LOCALITIES: "N FORK OF BISHOP CREEK, NE OF BISHOP 2 MI FROM OWENS RIVER" AND "BISHOP CR, JUST N OF BISHOP...JUST BELOW SPILLWAY OF LOS ANGELES AQUEDUCT AT WELL NO. 208."  
**Ecological:**  
**General:** SMITH COLLECTED 1 ON 27 JUN 1934. HUBBS & FAMILY COLLECTED 5 ON 3 SEP 1934.  
**Owner/Manager:** LADWP

<b>Occurrence No.</b>	2	<b>Map Index:</b> 01680	<b>EO Index:</b> 28643	<b>Element Last Seen:</b> 1942-09-01
<b>Occ. Rank:</b>	None		<b>Presence:</b> Extirpated	<b>Site Last Seen:</b> 1942-09-01
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2012-09-28

**Quad Summary:** Big Pine (3711823), Coyote Flat (3711824), Poleta Canyon (3711833), Bishop (3711834)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.25158 / -118.37345	<b>Accuracy:</b>	1 mile
<b>UTM:</b>	Zone-11 N4123665 E378196	<b>Elevation (ft):</b>	4200
<b>PLSS:</b>	T08S, R33E, Sec. 17, E (M)	<b>Acres:</b>	0.0

**Location:** VICINITY OF KEOUGH HOT SPRINGS, ABOUT 8 MILES S OF BISHOP.  
**Detailed Location:** MAPPED APPROXIMATE TO LOCALITY STATED AS "IRRIGATION CANAL AND DITCHES, CA 8 MI S OF BISHOP. CA 0.5 MI S OF 1ST RANCH N OF KEOUGH HOT SPRINGS."  
**Ecological:** FWS09R0003 DETAILS THE DECLINE AND EXTIRPATION OF OWENS TUI CHUB.  
**General:** MILLER COLLECTED HOLOTYPE (UMMZ #14158) AND 17 PARATOPOTYPES (UMMZ #140411) ON 1 SEP 1942.  
**Owner/Manager:** PVT



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<b>Occurrence No.</b>	3	<b>Map Index:</b> 01581	<b>EO Index:</b> 28645	<b>Element Last Seen:</b>	1942-09-01
<b>Occ. Rank:</b>	None		<b>Presence:</b> Extirpated	<b>Site Last Seen:</b>	1942-09-01
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2012-09-28

**Quad Summary:** Fish Slough (3711844)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.40548 / -118.39649	<b>Accuracy:</b>	1 mile
<b>UTM:</b>	Zone-11 N4140770 E376405	<b>Elevation (ft):</b>	4140
<b>PLSS:</b>	T06S, R33E, Sec. 19 (M)	<b>Acres:</b>	0.0

**Location:** FIVE BRIDGES ROAD ABOUT 0.25 MILE S OF OWENS RIVER AND 0.6 MILE N OF INTERSECTION WITH HWY 6, 3.2 MILES N OF BISHOP.

**Detailed Location:** MAPPED TO APPROXIMATION OF LOCALITY DESCRIPTION: "IRRIGATION DITCH FROM OWENS RIVER, 3.2 MILES N OF BISHOP ON ROAD TO FISH SLOUGH, DEATH VALLEY SYSTEM."

**Ecological:**

**General:** MILLER COLLECTED 45 (UMMZ #140406) ON 1 SEP 1942.

**Owner/Manager:** LADWP

<b>Occurrence No.</b>	7	<b>Map Index:</b> 36956	<b>EO Index:</b> 28640	<b>Element Last Seen:</b>	1922-11-15
<b>Occ. Rank:</b>	None		<b>Presence:</b> Extirpated	<b>Site Last Seen:</b>	1922-11-15
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2012-09-28

**Quad Summary:** Laws (3711843)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.39707 / -118.35478	<b>Accuracy:</b>	non-specific area
<b>UTM:</b>	Zone-11 N4139783 E380083	<b>Elevation (ft):</b>	4080
<b>PLSS:</b>	T06S, R33E, Sec. 28, E (M)	<b>Acres:</b>	142.1

**Location:** OWENS RIVER AT LAWS, ABOUT 0.2 MILE W OF HWY 6 AT SILVER CANYON ROAD AND 3.5 MI NE OF BISHOP.

**Detailed Location:** SPECIMEN LOCALITIES STATED AS "OWENS RIVER AT LAWS." MAPPED TO OWENS RIVER WEST OF LAWS; ABOUT 0.75 MI STRETCH NORTH OF HWY 6 AND ABOUT A 1 MI STRETCH SOUTH OF HWY 6.

**Ecological:**

**General:** C.H. KENNEDY COLLECTED 63 ON 15 NOV 1922 (UMMZ #65309) AND 37 ON AN UNKNOWN DATE (CAS #SU 23043), BUT PROBABLY BEFORE SNYDER WROTE ABOUT THE COLLECTION IN 1917; POSSIBLY IN 1914-1915 WHEN HE COLLECTED OWENS PUPFISH HERE (OCC #18).

**Owner/Manager:** LADWP



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<b>Occurrence No.</b>	16	<b>Map Index:</b> 21951	<b>EO Index:</b> 41061	<b>Element Last Seen:</b>	2005-XX-XX
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2005-XX-XX
<b>Occ. Type:</b>	Refugium; Artificial Habitat/Occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2012-08-06
<b>Quad Summary:</b>	Poleta Canyon (3711833)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.36045 / -118.32713		<b>Accuracy:</b>	80 meters	
<b>UTM:</b>	Zone-11 N4135685 E382473		<b>Elevation (ft):</b>	4096	
<b>PLSS:</b>	T07S, R33E, Sec. 11, NW (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	WHITE MOUNTAIN RESEARCH STATION (WMRS), ABOUT 0.2 MILE SE OF POLETA ROAD AT POLETA LAWNS ROAD & 3.7 MILES E OF BISHOP.				
<b>Detailed Location:</b>	RESEARCH CENTER OPERATED BY UC NATURAL RESERVE SYSTEM. 4 ARTIFICIAL PONDS: 3 60'X60' LINED "EXPERIMENTAL" PONDS & 1 50'X10' UNLINED POND (= "OFFICE POND," "DECORATIVE POND").				
<b>Ecological:</b>	GROUNDWATER-FED PONDS CONTAIN ALGAE, TYPHA. OWENS CHUB INTRODUCED FROM LOWER OWENS GORGE TO OFFICE POND, 1997; WHOLE POP MOVED TO EXPERIMENTAL POND #3, OCT-NOV 1999. TOIKONA CHUB INTRO'D FROM MULE SPRING IN 2004 (INTO SEPARATE POND).				
<b>General:</b>	24 ADULTS INTRO'D FROM LOWER OWENS GORGE, 1997. MANY JUVENILES SEEN, 1 ADULT TRAPPED, 1998. 0 ADULTS OBS; 40 TRAPPED & MOVED TO EXP. POND #3, 1999. 11 ADULT, 126 YOY TOIKONA INTRO'D FROM MULE SPG, 2003-04. EST. 200+ TOIKONA AT WMRS, 2005.				
<b>Owner/Manager:</b>	LADWP, UC-WHITE MTN RES STN				

<b>Rhinichthys osculus ssp. 2</b>			<b>Element Code:</b> AFCJB3705F		
Owens speckled dace					
<b>Listing Status:</b>	<b>Federal:</b> None		<b>CNDDB Element Ranks:</b>	<b>Global:</b> G5T1T2Q	
	<b>State:</b> None			<b>State:</b> S1S2	
	<b>Other:</b> AFS_TH-Threatened, BLM_S-Sensitive, CDFW_SSC-Species of Special Concern				
<b>Habitat:</b>	<b>General:</b> SMALL STREAMS AND SPRINGS IN OWENS VALLEY.				
	<b>Micro:</b> OCCUPIES A VARIETY OF HABITATS. RARELY FOUND IN WATER > 29 C.				

<b>Occurrence No.</b>	2	<b>Map Index:</b> 86596	<b>EO Index:</b> 28630	<b>Element Last Seen:</b>	1988-08-11
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1988-08-11
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2012-10-25
<b>Quad Summary:</b>	Laws (3711843), Fish Slough (3711844)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.38336 / -118.36974		<b>Accuracy:</b>	non-specific area	
<b>UTM:</b>	Zone-11 N4138281 E378736		<b>Elevation (ft):</b>	4100	
<b>PLSS:</b>	T06S, R33E, Sec. 32 (M)		<b>Acres:</b>	520.0	
<b>Location:</b>	NORTH FORK BISHOP CREEK, NORTHEAST OF BISHOP; FROM ABOUT 0.5 MI W OF HWY 6 INTERSECTION TO OWENS RIVER CONFLUENCE.				
<b>Detailed Location:</b>	1934 LOCALITIES "N FORK OF BISHOP CREEK, NE OF BISHOP 2 MI FROM OWENS RIVER" & "BISHOP CR, JUST N OF BISHOP...BELOW SPILLWAY OF LOS ANGELES AQUEDUCT AT WELL NO. 208." 1988 DETECTION IN SE1/4 T6S R33E SEC 33, NO DACE FOUND IN SW1/4 SEC 34.				
<b>Ecological:</b>	RELATIVELY UNALTERED STREAM HABITAT. SLOW CURRENT, SUBSTRATE 60% MUCK, 40% PEBBLE/SAND. WILLOW & ROSE RIPARIAN. OWENS SUCKERS, BROWN TROUT ALSO PRESENT (1989).				
<b>General:</b>	5 COLLECTED ON 27 JUN AND 50 COLLECTED ON 3 SEP 1934 (UMMZ #133100, 132159). 0 FOUND ON 3 OCT 1980. SADA CAPTURED 3 DACE FROM STREAM MARGIN WHERE DENSE COVER BORDERED MODERATELY SWIFT CURRENT, 11 AUG 1988.				
<b>Owner/Manager:</b>	LADWP				



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<b>Occurrence No.</b>	7	<b>Map Index:</b> 84388	<b>EO Index:</b> 7165	<b>Element Last Seen:</b>	1942-09-01
<b>Occ. Rank:</b>	None		<b>Presence:</b> Extirpated	<b>Site Last Seen:</b>	1988-XX-XX
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2012-09-12

**Quad Summary:** Fish Slough (3711844)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.41945 / -118.40168	<b>Accuracy:</b>	3/5 mile
<b>UTM:</b>	Zone-11 N4142327 E375968	<b>Elevation (ft):</b>	4160
<b>PLSS:</b>	T06S, R33E, Sec. 19, NW (M)	<b>Acres:</b>	0.0

**Location:** DITCHES AND STREAM TRIBUTARIES OF OWENS RIVER, ABOUT 3.3 MILES NW OF LAWS AND 3.5 MILES N OF BISHOP.

**Detailed Location:** 1938 LOCALITY: "RILL, TRIBUTARY TO OWENS R, 1.5 MI N AND 2.25 MI W OF LAWS;" 1942 LOCALITIES "IRRIGATION DITCH OF OWENS RIVER...ON ROAD TO FISH SLOUGH," 3.2 AND 3.7 MI N OF BISHOP, RESPECTIVELY.

**Ecological:** SADA, 1989: "THE IRRIGATION CANAL NORTH OF BISHOP [THAT SUPPORTED DACE] IN 1942 WAS DRY; OTHER AQUATIC HABITATS IN THE VICINITY WERE SEASONAL AND WATERED ONLY BY DIVERSION OR GROUND WATER PUMPING."

**General:** HUBBS & MILLER COLLECTED 16 (UMMZ #124839) FROM A TRIBUTARY ON 26 JUL 1938. MILLER COLLECTED 63 (UMMZ #140405 & 140408) FROM AN IRRIGATION DITCH NORTH OF BISHOP ON 1 SEP 1942. CANAL WAS DRY DURING 1988 SURVEYS BY SADA.

**Owner/Manager:** LADWP, BLM

<b>Occurrence No.</b>	19	<b>Map Index:</b> 01648	<b>EO Index:</b> 28621	<b>Element Last Seen:</b>	1942-09-01
<b>Occ. Rank:</b>	None		<b>Presence:</b> Possibly Extirpated	<b>Site Last Seen:</b>	1988-XX-XX
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2012-08-28

**Quad Summary:** Poleta Canyon (3711833), Bishop (3711834)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.26547 / -118.38122	<b>Accuracy:</b>	1 mile
<b>UTM:</b>	Zone-11 N4125216 E377530	<b>Elevation (ft):</b>	4240
<b>PLSS:</b>	T08S, R33E, Sec. 08 (M)	<b>Acres:</b>	0.0

**Location:** IRRIGATION DITCHES 8 MILES S OF BISHOP; ABOUT 0.5 MI S OF WILKERSON TRACT & 1 MI NW OF HWY 395 AT KEOUGH HOT SPRINGS RD.

**Detailed Location:** SPECIMEN LOCALITY: "IRRIGATION CANAL AND DITCHES, CA 8 MI S OF BISHOP. CA 0.5 MI S OF 1ST RANCH N OF KEOUGH HOT SPRINGS." DFG STAFF (1980) AND SADA (1989) ATTEMPTED TO REVISIT LOCATION IN SUBSEQUENT SURVEYS.

**Ecological:**

**General:** ROBERT MILLER COLLECTED 92 ON 1 SEP 1942 (UMMZ #140410). DFG STAFF SURVEYED AN IRRIGATION DITCH IN SEC 8 AND FOUND NO DACE, 3 OCT 1980. SADA SURVEYED A DITCH IN SEC 8/9 (SITE 123 IN SURVEY) AND FOUND NO DACE IN 1988.

**Owner/Manager:** LADWP





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<b>Occurrence No.</b>	21	<b>Map Index:</b> 22527	<b>EO Index:</b> 19985	<b>Element Last Seen:</b> 1985-07-15
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1985-07-15
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Fluctuating	<b>Record Last Updated:</b> 2012-10-25
<b>Quad Summary:</b>	Bishop (3711834)			
<b>County Summary:</b>	Inyo			
<b>Lat/Long:</b>	37.35013 / -118.40676		<b>Accuracy:</b> non-specific area	
<b>UTM:</b>	Zone-11 N4134642 E375404		<b>Elevation (ft):</b> 4160	
<b>PLSS:</b>	T07S, R32E, Sec. 12 (M)		<b>Acres:</b> 207.0	
<b>Location:</b>	A-1 DRAIN IN BISHOP; FROM W LINE ST AT S BARLOW LANE, SE TO BISHOP CREEK CANAL 0.75 MI N OF WARM SPRINGS RD.			
<b>Detailed Location:</b>	CDFG SURVEYS BETWEEN 5 JUL 1972 AND 15 JUL 1985 FOUND DACE IN VARIOUS PORTIONS OF THE DITCH WEST OF HWY 395, IN T07S R32E SEC 12, & T07S R33E SEC 7 & 18.			
<b>Ecological:</b>	SADA (1989) CONCLUDED THAT SUBPOPULATIONS OF DACE IN BISHOP CANALS FLUCTUATE BUT PERSIST OVER TIME. BROWN TROUT PRESENT, OWENS SUCKER ALSO FOUND IN REACH SHADED WITH RIPARIAN VEGETATION (1985).			
<b>General:</b>	UNCONFIRMED DETECTIONS IN 1972. OBSERVED IN 1979, 1980. DACE SCARCE IN 1983, 1985.			
<b>Owner/Manager:</b>	LADWP			
<b>Occurrence No.</b>	27	<b>Map Index:</b> 21823	<b>EO Index:</b> 16364	<b>Element Last Seen:</b> 1988-08-11
<b>Occ. Rank:</b>	Poor		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1988-08-11
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2012-10-30
<b>Quad Summary:</b>	Laws (3711843)			
<b>County Summary:</b>	Inyo			
<b>Lat/Long:</b>	37.40158 / -118.33891		<b>Accuracy:</b> 80 meters	
<b>UTM:</b>	Zone-11 N4140263 E381495		<b>Elevation (ft):</b> 4140	
<b>PLSS:</b>	T06S, R33E, Sec. 27, NE (M)		<b>Acres:</b> 0.0	
<b>Location:</b>	NORTH MCNALLY CANAL AT SILVER CANYON ROAD, ABOUT 0.5 MILE EAST OF LAWS.			
<b>Detailed Location:</b>	SADA REPORTS 0 DACE FROM SOUTH MCNALLY CANAL, WHICH PARALLELS N MCNALLY JUST 0.2 MILE TO W AT THIS LOCATION.			
<b>Ecological:</b>	IRRIGATION DITCH MAINTAINED BY DIVERSION FROM THE OWENS RIVER & GROUND WATER PUMPING. WATER TEMP WAS 21 DEGREES C, SUBSTRATE 80% MUCK & 20% RUBBLE. 50% ROOTED AQUATIC VEGETATION & 5% FLOATING AQUATIC VEGETATION. NO RIPARIAN VEGETATION.			
<b>General:</b>	DACE RARE, ONLY 2 CAPTURED IN 1988. SADA ALSO FOUND CATOSTOMUS FUMEIVENTRIS, GILA BICOLOR, CYPRINUS CARPIO, AND GAMBUSIA AFFINIS HERE.			
<b>Owner/Manager:</b>	LADWP			



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<b>Occurrence No.</b>	28	<b>Map Index:</b> 22526	<b>EO Index:</b> 19986	<b>Element Last Seen:</b> 1988-11-20
<b>Occ. Rank:</b>	Poor		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1989-05-10
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Fluctuating	<b>Record Last Updated:</b> 2012-10-30
<b>Quad Summary:</b>	Bishop (3711834), Fish Slough (3711844)			
<b>County Summary:</b>	Inyo			
<b>Lat/Long:</b>	37.37024 / -118.40491		<b>Accuracy:</b> 2/5 mile	
<b>UTM:</b>	Zone-11 N4136871 E375601		<b>Elevation (ft):</b> 4145	
<b>PLSS:</b>	T07S, R33E, Sec. 06, NW (M)		<b>Acres:</b> 0.0	
<b>Location:</b>	IRRIGATION DITCH W END OF SIERRA ST, ABOUT 0.5 MI SW OF HWY 395 AT WYE RD & 0.5 MI W OF HWY 395 AT SIERRA ST, BISHOP.			
<b>Detailed Location:</b>	1988 DETECTIONS FROM "DITCH ALONG SIERRA ST." MAPPED GENERALLY TO DITCH AT W END OF SIERRA STREET.			
<b>Ecological:</b>	SLOW CURRENT, CLEAR WATER, GRAVEL SUBSTRATE. DEPTH 3-6". WIDTH 0.75 YDS. 5% ROOTED AQUATIC PLANTS. 10% SHADE. SUPPLIED BY DIVERSION FROM BISHOP CREEK. DITCH DRY DEC 1988 AND RE-WATERED MAR 1989. JUVENILE SUCKERS ALSO OBSERVED.			
<b>General:</b>	ALL AGE CLASSES OBS IN 30+ VISITS TO SIERRA ST DITCH FROM 1 FEB-29 NOV 1988. EXTIRPATED WHEN SIERRA ST DITCH DRIED DEC 1988, DACE HAD NOT REESTABLISHED AS OF 10 MAY 1989. SADA PRESUMED SUBPOP WOULD RECOLONIZE FROM ADJACENT DITCHES.			
<b>Owner/Manager:</b>	CITY OF BISHOP, PVT			
<b>Occurrence No.</b>	29	<b>Map Index:</b> 21949	<b>EO Index:</b> 12543	<b>Element Last Seen:</b> 1988-XX-XX
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1988-XX-XX
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2012-10-25
<b>Quad Summary:</b>	Laws (3711843)			
<b>County Summary:</b>	Inyo			
<b>Lat/Long:</b>	37.45421 / -118.33628		<b>Accuracy:</b> 2/5 mile	
<b>UTM:</b>	Zone-11 N4146099 E381811		<b>Elevation (ft):</b> 4000	
<b>PLSS:</b>	T06S, R33E, Sec. 03, SE (M)		<b>Acres:</b> 0.0	
<b>Location:</b>	UNNAMED CANAL NEAR RUDOLPH RD, ABOUT 1 MILE SWS OF SOUTHERN BELLE MINE, AND ABOUT 7 MILES NNE OF BISHOP.			
<b>Detailed Location:</b>	1941 LOCALITY: "IRRIGATION DITCH ABOUT 8 MI NE OF BISHOP TOWARD BENTON STATION, OWENS R. SYSTEM." SADA (1989) PLACED THIS LOCALITY AT T06S R33E S03.			
<b>Ecological:</b>	OWENS SUCKER WERE ALSO COLLECTED AT THIS LOCALITY IN 1941.			
<b>General:</b>	1 COLLECTED ON 10 SEP 1941 (UMMZ #134679). IN HIS 1989 REPORT, SADA INDICATED THAT DACE WERE STILL PRESENT HERE, BUT DID NOT PROVIDE DETAILS REGARDING THE RE-SURVEY OF THIS LOCATION.			
<b>Owner/Manager:</b>	LADWP, BLM			



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<b>Occurrence No.</b>	30	<b>Map Index:</b> 21917	<b>EO Index:</b> 21721	<b>Element Last Seen:</b>	2002-05-15
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2002-05-15
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Stable	<b>Record Last Updated:</b>	2012-10-05

**Quad Summary:** Fish Slough (3711844), Rovana (3711845)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.40166 / -118.52469	<b>Accuracy:</b>	non-specific area
<b>UTM:</b>	Zone-11 N4140522 E365051	<b>Elevation (ft):</b>	4400
<b>PLSS:</b>	T06S, R31E, Sec. 25 (M)	<b>Acres:</b>	293.0

**Location:** HORTON CREEK, FROM OWENS RIVER CONFLUENCE TO HWY 395, PLEASANT VALLEY.

**Detailed Location:** MAPPED TO REACH IN WHICH DACE WERE FOUND IN 1988, '98, '99, & 2002 ELECTROFISHING SURVEYS, NORTH OF HWY 395. 2 SITES (REACHES UP TO 150 FEET LONG) QUALITATIVELY ELECTROFISHED IN 1998, '99, & '02 SURVEYS.

**Ecological:** DACE FOUND IN STREAM REACHES IN PASTURELAND. HABITAT UPSTREAM DESCRIBED AS TOO SWIFT FOR DACE; SOME AREAS DOWNSTREAM VERY MARSHY (1988). OWENS SUCKERS AND BROWN TROUT ALSO FOUND HERE (1988, 1999). SOME TRAMPLING OF BANKS BY CATTLE (2002).

**General:** GILBERT COLLECTED 35 ON 20 JUL 1893. CDFG COLL 107 IN 1973 & 24 IN '78; OBSERVED, '72-83. 31 COLL IN '80. RARE IN '88 SURVEY. 10 CAUGHT AT SITE 1, 25 AT SITE 2, NOV '98. 19 AT SITE 1 & 9 AT SITE 2, SEP '99. 17 FROM BOTH SITES, MAY '02.

**Owner/Manager:** LADWP

<b>Occurrence No.</b>	32	<b>Map Index:</b> 86610	<b>EO Index:</b> 87609	<b>Element Last Seen:</b>	1964-07-10
<b>Occ. Rank:</b>	None		<b>Presence:</b> Possibly Extirpated	<b>Site Last Seen:</b>	1990-04-XX
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2016-07-29

**Quad Summary:** Fish Slough (3711844)

**County Summary:** Mono

<b>Lat/Long:</b>	37.48934 / -118.40581	<b>Accuracy:</b>	1/5 mile
<b>UTM:</b>	Zone-11 N4150086 E375719	<b>Elevation (ft):</b>	4200
<b>PLSS:</b>	T05S, R32E, Sec. 25, NE (M)	<b>Acres:</b>	0.0

**Location:** "REDISCOVERY POND," FISH SLOUGH; ABOUT 3.4 MI SW OF HWY 6 AT CHALFANT RD & 3.8 MI NW OF HWY 6 AT RUDOLPH RD.

**Detailed Location:** MAPPED TO "REDISCOVERY POND;" REFERENCED TRS & LABELED AERIAL IN MIL71A0001 (MILLER 1971). THE POND DRIED IN THE LATE 1960S. 1989-90 SURVEY SITES 9 & 17 COVERED A SIMILAR AREA, AROUND THE CONFLUENCE OF THE NE & NW TRIBUTARIES OF THE SLOUGH.

**Ecological:** 1964: OWENS PUPFISH REDISCOVERED HERE AFTER PRESUMED EXTINCT; GAMBUSIA ABUNDANT. 1990: AREA AROUND NE-NW CONFLUENCE CHOKED BY CATTAILS; SLUGGISH FLOW, SUBSTRATE IS DEEP MUD; BASS & CARP FOUND IN W FORK BUT NOT IN E, NOR BELOW CONFLUENCE.

**General:** ROBERT MILLER COLLECTED 6 ON 10 JULY 1964. SURVEYS IN 1989-1990 FOUND NO SPECKLED DACE.

**Owner/Manager:** LADWP, BLM



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<b>Occurrence No.</b>	33	<b>Map Index:</b> 86793	<b>EO Index:</b> 87610	<b>Element Last Seen:</b>	2002-06-09
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2002-06-09
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2012-10-19
<b>Quad Summary:</b>	Fish Slough (3711844)				
<b>County Summary:</b>	Mono				
<b>Lat/Long:</b>	37.47702 / -118.40210		<b>Accuracy:</b>	non-specific area	
<b>UTM:</b>	Zone-11 N4148715 E376026		<b>Elevation (ft):</b>	4220	
<b>PLSS:</b>	T05S, R33E, Sec. 31, NW (M)		<b>Acres:</b>	4.0	
<b>Location:</b>	BLM PONDS, FISH SLOUGH; ABOUT 2.7 MILES WNW OF HWY 6 AT PUMICE MILL ROAD IN OWENS VALLEY.				
<b>Detailed Location:</b>	4-5 PONDS SOUTH OF BLM SPRING EXCLOSURE FENCE AND E OF MAIN SPRING OUTFLOW CHANNEL. NAMED B, C1, C2, D, AND E (FROM EAST TO WEST) IN 2002 REPORT; MAPPED TO COORDINATES GIVEN FOR POND SURVEY SITES.				
<b>Ecological:</b>	THIS SITE SURVEYED SINCE 1989, DACE FIRST FOUND HERE IN 2002. THEIR ORIGINS ARE UNKNOWN. HABITAT AT THIS SITE MAY BE EPHEMERAL. RUSHES ENCROACH ALL THE PONDS AND GAMBUSIA ARE ABUNDANT THROUGHOUT (2002).				
<b>General:</b>	1 48 MM DACE TRAPPED FROM POND D ON 17 APR 2002. 6 SPECKLED DACE (YOY, JUV, & ADULT) TRAPPED FROM POND C1, AND 6 FROM POND D, ON 9 JUN 2002. NOT FOUND IN OTHER PONDS DURING 2002 SURVEY.				
<b>Owner/Manager:</b>	BLM				
<b>Occurrence No.</b>	34	<b>Map Index:</b> 86626	<b>EO Index:</b> 87626	<b>Element Last Seen:</b>	1973-11-02
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1973-11-02
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2012-08-30
<b>Quad Summary:</b>	Fish Slough (3711844)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.39789 / -118.41443		<b>Accuracy:</b>	3/5 mile	
<b>UTM:</b>	Zone-11 N4139952 E374804		<b>Elevation (ft):</b>	4170	
<b>PLSS:</b>	T06S, R32E, Sec. 25 (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	CANALS N OF BISHOP, ABOUT 2.5 MILES NNW OF BISHOP POST OFFICE AND 1 MILE E OF RIVERSIDE ROAD AT BROCKMAN LANE.				
<b>Detailed Location:</b>	SPECIMEN LOCALITY: "OWENS RIVER CANAL, T6S, R32E, SEC. 25, 100' BELOW WEIR AT PUMP 238, TO 300' BELOW THAT PUMP." MAPPED TO GIVEN TRS, THOUGH THE "OWENS RIVER CANAL" IS ABOUT 1.5 MILES TO THE WEST.				
<b>Ecological:</b>	SADA (1989) CONCLUDED THAT DACE SUBPOPS IN BISHOP-AREA CANALS FLUCTUATE DUE TO CHANGING WATER SUPPLY, BUT PERSIST OVER TIME.				
<b>General:</b>	CDFG COLLECTED 11 ON 2 NOV 1973. SADA MAY NOT HAVE REVISITED THIS PRECISE LOCATION IN 1988, BUT CONCLUDED FROM HIS SURVEYS THAT DACE PERSIST IN STREAMS AND CANALS AROUND BISHOP.				
<b>Owner/Manager:</b>	LADWP				



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<b>Occurrence No.</b>	35	<b>Map Index:</b> 86632	<b>EO Index:</b> 87629	<b>Element Last Seen:</b>	1985-07-15
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1985-07-15
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2012-10-23
<b>Quad Summary:</b>	Bishop (3711834)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.35960 / -118.40736		<b>Accuracy:</b>	non-specific area	
<b>UTM:</b>	Zone-11 N4135694 E375367		<b>Elevation (ft):</b>	4180	
<b>PLSS:</b>	T07S, R32E, Sec. 12, SE (M)		<b>Acres:</b>	87.0	
<b>Location:</b>	CHINA SLOUGH & IRRIGATION DITCHES AT 1298 W LINE STREET IN BISHOP.				
<b>Detailed Location:</b>	1972 LOCALITY: "IRRIGATION DIVERSION OF PROPERTY AT 1298 W LINE, BISHOP" (VIA GOOGLE MAPS SEARCH). 1985 DETECTIONS IN CHINA SLOUGH. MAPPED TO SEGMENTS OF GIRAUD DITCH & CHINA SLOUGH, PER CDFG SHAPEFILE OF BISHOP-AREA WATERWAYS.				
<b>Ecological:</b>	BROWN TROUT AND OWENS SUCKER PRESENT IN CHINA SLOUGH. SADA MAY NOT HAVE VISITED THESE EXACT LOCATIONS IN 1988, BUT CONCLUDED FROM HIS SURVEYS THAT DACE PERSIST IN THE CANALS AND STREAMS AROUND BISHOP.				
<b>General:</b>	PISTER (CDFG) & FONDA COLLECTED 32 DACE FROM DITCHES ADJACENT TO 1298 W LINE ST PROPERTY ON 22 APR 1972. ABUNDANT DACE FOUND IN NEARBY CHINA SLOUGH DRAINAGE, 15 JUL 1985.				
<b>Owner/Manager:</b>	UNKNOWN, LADWP				
<b>Occurrence No.</b>	36	<b>Map Index:</b> 86633	<b>EO Index:</b> 87630	<b>Element Last Seen:</b>	1973-11-03
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1973-11-03
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2012-08-30
<b>Quad Summary:</b>	Bishop (3711834)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.32787 / -118.38670		<b>Accuracy:</b>	1/5 mile	
<b>UTM:</b>	Zone-11 N4132147 E377144		<b>Elevation (ft):</b>	4110	
<b>PLSS:</b>	T07S, R33E, Sec. 19, NE (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	BISHOP CREEK CANAL JUST NORTH OF WARM SPRINGS ROAD, ABOUT 0.7 MILE SE OF HWY 395 AT SUNLAND RES RD IN BISHOP.				
<b>Detailed Location:</b>	MAPPED TO LOCALITY: "BISHOP CREEK CANAL, 50 YDS UP AND DOWNSTREAM FROM WEIR, NORTH OF WARM SPRINGS RD." LOCATION OF WEIR UNKNOWN, MAPPED TO BISHOP CREEK CANAL JUST NORTH OF INTERSECTION WITH WARM SPRINGS ROAD.				
<b>Ecological:</b>	SADA DID NOT VISIT THIS EXACT LOCATION IN 1988, BUT CONCLUDED FROM HIS SURVEY THAT DACE SUBPOPULATIONS IN BISHOP CANALS AND STREAMS FLUCTUATE, YET PERSIST OVER TIME.				
<b>General:</b>	CDFG COLLECTED 3 ON 3 NOV 1973.				
<b>Owner/Manager:</b>	LADWP				



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<b>Occurrence No.</b>	37	<b>Map Index:</b>	01539	<b>EO Index:</b>	87843	<b>Element Last Seen:</b>	2000-05-10
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		2002-09-13	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2012-11-01	
<b>Quad Summary:</b>	Fish Slough (3711844), Chidago Canyon (3711854)						
<b>County Summary:</b>	Mono						
<b>Lat/Long:</b>	37.50103 / -118.40761			<b>Accuracy:</b>	1/5 mile		
<b>UTM:</b>	Zone-11 N4151386 E375579			<b>Elevation (ft):</b>	4140		
<b>PLSS:</b>	T05S, R32E, Sec. 24, NE (M)			<b>Acres:</b>	0.0		
<b>Location:</b>	MARVINS MARSH, 0.25 MI SSE OF OWENS VALLEY NATIVE FISHES SANCTUARY, ALONG FISH SLOUGH, N OF BISHOP, MONO CO.						
<b>Detailed Location:</b>	ARTIFICIALLY IMPROVED HABITAT E OF MAIN SLOUGH, BELOW OVNFS. SHALLOW ALKALINE MARSH CONNECTED TO MAIN SLOUGH BY CHANNEL BLASTED IN 1986 & EQUIPPED WITH GRAVEL FISH BARRIER. MARSH HABITAT "MIGRATING" N, SOME POOLS PROBABLY EPHEMERAL, 2002.						
<b>Ecological:</b>	DACE FOUND IN 2000 IN NEWLY-WETTED POOLS NEAR THE FENCE CORNER AT THE SOUTHERN EDGE OF THE OVNFS (EO#13); THESE PONDS STILL CONSIDERED PART OF "MARVIN'S MARSH." THIS HABITAT MAY BE EPHEMERAL. ABUNDANT PUPFISH & GAMBUSIA AT THIS SITE IN '02.						
<b>General:</b>	OBSERVED 10 MAY 2000. NOT FOUND IN SURVEYS ON 12 APR, 19 & 21 AUG, & 13 SEP 2002.						
<b>Owner/Manager:</b>	LADWP						

<b>Occurrence No.</b>	39	<b>Map Index:</b>	36956	<b>EO Index:</b>	88064	<b>Element Last Seen:</b>	XXXX-XX-XX
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		XXXX-XX-XX	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2012-10-30	
<b>Quad Summary:</b>	Laws (3711843)						
<b>County Summary:</b>	Inyo						
<b>Lat/Long:</b>	37.39707 / -118.35478			<b>Accuracy:</b>	non-specific area		
<b>UTM:</b>	Zone-11 N4139783 E380083			<b>Elevation (ft):</b>	4080		
<b>PLSS:</b>	T06S, R33E, Sec. 28 (M)			<b>Acres:</b>	142.1		
<b>Location:</b>	OWENS RIVER AT LAWS, ABOUT 0.2 MILE W OF HWY 6 AT SILVER CANYON ROAD AND 3.5 MI NE OF BISHOP.						
<b>Detailed Location:</b>	GIVEN LOCALITY "LAWS, CALIF." OTHER KENNEDY SPECIMENS WERE TAKEN FROM "OWENS RIVER AT LAWS" & "OWENS RIVER SWAMP, LAWS;" SO THIS WAS MAPPED TO THE RIVER (SEE OWENS PUPFISH OCC#18, OWENS SUCKER OCC#32, OWENS TUI CHUB OCC#7).						
<b>Ecological:</b>							
<b>General:</b>	KENNEDY COLLECTED 1 DACE ON UNKNOWN DATE. HIS DACE COLLECTIONS AT THIS SITE WAS DESCRIBED IN SNYDER (1917), SO SPECIMEN WAS PROBABLY TAKEN BEFORE 1917. OTHER KENNEDY SPECIMENS AT LAWS WERE DATED 1914 & 1922, SO THERE IS SOME UNCERTAINTY.						
<b>Owner/Manager:</b>	LADWP						

<b>Catostomus fumeiventris</b>			<b>Element Code:</b> AFCJC02090				
Owens sucker							
<b>Listing Status:</b>	<b>Federal:</b>	None	<b>CNDDB Element Ranks:</b>	<b>Global:</b>	G3G4		
	<b>State:</b>	None		<b>State:</b>	S3		
	<b>Other:</b>	CDFW_SSC-Species of Special Concern					
<b>Habitat:</b>	<b>General:</b>	ENDEMIC TO THE OWENS RIVER DRAINAGE. IN ITS NATIVE RIVER HABITAT IT IS MOST COMMON IN AREAS WITH LONG RUNS AND FEW RIFFLES.					
	<b>Micro:</b>	ADULTS CAN THRIVE IN RESERVOIRS, BUT NEED GRAVELLY RIFFLES IN TRIBUTARY STREAMS FOR SPAWNING.					



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<b>Occurrence No.</b>	1	<b>Map Index:</b> 21820	<b>EO Index:</b> 30777	<b>Element Last Seen:</b>	1980-10-09
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1980-10-09
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2012-10-22
<b>Quad Summary:</b>	Fish Slough (3711844), Rovana (3711845)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.41107 / -118.47028		<b>Accuracy:</b>	non-specific area	
<b>UTM:</b>	Zone-11 N4141489 E369883		<b>Elevation (ft):</b>	4240	
<b>PLSS:</b>	T06S, R32E, Sec. 21 (M)		<b>Acres:</b>	549.3	
<b>Location:</b>	ABOUT 7 MILES OF OWENS RIVER BELOW PLEASANT VALLEY DAM, ABOUT 4 MILES NW OF BISHOP.				
<b>Detailed Location:</b>	SUCKER FOUND IN 9 OUT OF 10 RIVER SEGMENTS SURVEYED BELOW PLEASANT VALLEY DAM, 1980.				
<b>Ecological:</b>	1980: MODERATE TO DEEP RUN, BANKS STABLE TO ERODING. RIPARIAN VEG WILLOWS & GRASSES. LITTLE ALGAE, SOME ROOTED AQUATICS. BROWN & RAINBOW TROUT, LARGEMOUTH BASS, CARP, BROWN BULLHEAD, BLUEGILL, THREESPINE STICKLEBACK, TUI CHUB ALSO PRESENT.				
<b>General:</b>	112 OBSERVED IN 9 SURVEYED SEGMENTS TOTALLING 2,874 FEET OF STREAM IN 1980 SURVEY; ESTIMATES OF SUCKERS PER MILE VARIED FROM 18 TO 845.				
<b>Owner/Manager:</b>	UNKNOWN				
<b>Occurrence No.</b>	6	<b>Map Index:</b> 86596	<b>EO Index:</b> 16369	<b>Element Last Seen:</b>	2011-05-31
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2011-05-31
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2012-10-22
<b>Quad Summary:</b>	Laws (3711843), Fish Slough (3711844)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.38336 / -118.36974		<b>Accuracy:</b>	non-specific area	
<b>UTM:</b>	Zone-11 N4138281 E378736		<b>Elevation (ft):</b>	4100	
<b>PLSS:</b>	T06S, R33E, Sec. 32 (M)		<b>Acres:</b>	520.0	
<b>Location:</b>	NORTH FORK BISHOP CREEK, NORTHEAST OF BISHOP.				
<b>Detailed Location:</b>	1934 SPECIMENS TAKEN FROM CREEK, "2 MI FROM RIVER" & "JUST N OF BISHOP." TRS GIVEN IN SADA (1989): SW1/4 SEC 34 & SE1/4 SEC 33. 2011 SPECIMEN COORDINATES 37.385222, -118.379144.				
<b>Ecological:</b>	1988: RELATIVELY UNALTERED STREAM HABITAT. SLOW/MODERATE CURRENT, MAINLY PEBBLE BOTTOM WITH SAND AND COBBLE. RHINICHTHYS OSCULUS AND GAMBUSIA AFFINIS PRESENT, AS WELL AS BROWN TROUT CLOSER TO THE OWENS RIVER CONFLUENCE.				
<b>General:</b>	62 COLLECTED IN 1934, FROM 18-255 MM SL. 1988: YOY COMMON IN BACKWATERS AND ALONG BORDERS OF SUBMERGED VEGETATION; ONLY 4 REPRODUCTIVE-SIZED SUCKERS OBSERVED, NONE OVER 5 INCHES. 12 LARVAE COLLECTED IN 2011.				
<b>Owner/Manager:</b>	LADWP				



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<b>Occurrence No.</b>	7	<b>Map Index:</b> 21823	<b>EO Index:</b> 16370	<b>Element Last Seen:</b> 1988-08-11
<b>Occ. Rank:</b>	Fair		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1988-08-11
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 1998-12-17

**Quad Summary:** Laws (3711843)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.40158 / -118.33891	<b>Accuracy:</b>	80 meters
<b>UTM:</b>	Zone-11 N4140263 E381495	<b>Elevation (ft):</b>	4140
<b>PLSS:</b>	T06S, R33E, Sec. 27, NE (M)	<b>Acres:</b>	0.0

**Location:** NORTH MCNALLY CANAL AT SILVER CANYON ROAD, ABOUT 0.5 MILE EAST OF LAWS.

**Detailed Location:**

**Ecological:** IRRIGATION DITCH MAINTAINED BY DIVERSION FROM THE OWENS RIVER & GROUND WATER PUMPING. WATER TEMP WAS 21 DEGREES C. NO RIPARIAN VEGETATION. SUBSTRATE 80% MUCK & 20% RUBBLE. 50% ROOTED AQUATIC PLANTS, 5% FLOATING AQUATIC PLANTS.

**General:** SUCKERS COMMON. RHINICHTHYS OSCULUS, SIPHATELES BICOLOR (PRESUMABLY HYBRID), CYPRINUS CARPIO, AND GAMBUSIA AFFINIS ALSO FOUND HERE DURING 1988 SURVEY TARGETING SPECKLED DACE.

**Owner/Manager:** LADWP

<b>Occurrence No.</b>	8	<b>Map Index:</b> 21822	<b>EO Index:</b> 16363	<b>Element Last Seen:</b> 1988-08-07
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1988-08-07
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 1998-12-17

**Quad Summary:** Laws (3711843)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.40118 / -118.34233	<b>Accuracy:</b>	80 meters
<b>UTM:</b>	Zone-11 N4140223 E381192	<b>Elevation (ft):</b>	4120
<b>PLSS:</b>	T06S, R33E, Sec. 27, NW (M)	<b>Acres:</b>	0.0

**Location:** SOUTH MCNALLY CANAL AT SILVER CANYON ROAD CROSSING, JUST EAST OF LAWS.

**Detailed Location:**

**Ecological:** IRRIGATION DITCH. 100% MUCK SUBSTRATE, AVERAGE DEPTH 2 FT, AVERAGE WIDTH 9 FT. ABUNDANT ROOTED AQUATIC PLANTS. WATER TEMPERATURE WAS 68 DEGREES FAHRENHEIT.

**General:** SIPHATELES BICOLOR (PRESUMABLY HYBRID) AND GAMBUSIA AFFINIS WERE ALSO FOUND HERE DURING 1988 SURVEY TARGETING SPECKLED DACE.

**Owner/Manager:** LADWP





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<b>Occurrence No.</b>	9	<b>Map Index:</b> 86696	<b>EO Index:</b> 19987	<b>Element Last Seen:</b> 1985-07-15
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1985-07-15
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2012-10-23

**Quad Summary:** Bishop (3711834)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.34318 / -118.40017	<b>Accuracy:</b>	non-specific area
<b>UTM:</b>	Zone-11 N4133863 E375976	<b>Elevation (ft):</b>	4000
<b>PLSS:</b>	T07S, R33E, Sec. 18, W (M)	<b>Acres:</b>	136.0

**Location:** DRAINAGE DITCH BETWEEN HWY 395 AND SUNLAND DRIVE IN THE VICINITY OF SCHOEBER LANE AND BISHOP COUNTY CLUB, S OF BISHOP.

**Detailed Location:** CDFG SURVEYS IN 1985 FOUND SUCKERS IN A-1 DRAIN WEST OF HWY 395, ALONG BOTH THE SOUTH & WEST SIDES OF THE GOLF COURSE, & 100 M NORTH OF SCHOBER LANE; ALSO IN SOUTH INDIAN DITCH WEST OF SUNLAND DRIVE.

**Ecological:** SLOW-MODERATE RUNS OR RIFFLES. SUBSTRATE VARIOUS: SANDY, COBBLED, SILT & SAND. VEGETATION VARIOUS: SOME DENSE RIPARIAN PROVIDING SHADE, SOME DENSE AQUATIC VEGETATION. OWENS SPECKLED DACE, TUI CHUB, & BROWN TROUT PRESENT.

**General:** OWENS SUCKERS OBSERVED DURING CDFG SPECKLED DACE MONITORING ON 29 AUG 1983 AND 15 JUL 1985.

**Owner/Manager:** LADWP

<b>Occurrence No.</b>	10	<b>Map Index:</b> 22526	<b>EO Index:</b> 8417	<b>Element Last Seen:</b> 1988-11-20
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1988-11-20
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Fluctuating	<b>Record Last Updated:</b> 2012-10-23

**Quad Summary:** Bishop (3711834), Fish Slough (3711844)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.37024 / -118.40491	<b>Accuracy:</b>	2/5 mile
<b>UTM:</b>	Zone-11 N4136871 E375601	<b>Elevation (ft):</b>	4145
<b>PLSS:</b>	T07S, R33E, Sec. 06, NW (M)	<b>Acres:</b>	0.0

**Location:** IRRIGATION DITCH W END OF SIERRA ST, ABOUT 0.5 MI SW OF HWY 395 AT WYE RD & 0.5 MI W OF HWY 395 AT SIERRA ST, BISHOP.

**Detailed Location:** 1973 LOCALITY: "BISHOP CREEK, S. FORK, 100 YDS ABOVE PETTA LN BRIDGE" & T7S R33E SEC 6 NE 1/4. CANNOT LOCATE PETTA LN. 1988 DETECTIONS FROM "DITCH ALONG SIERRA ST." MAPPED GENERALLY TO DITCH AT W END OF SIERRA ST & VIC OF S FORK BISHOP CRK.

**Ecological:** SLOW CURRENT, CLEAR WATER, GRAVEL SUBSTRATE. DEPTH 3-6". WIDTH 0.75 YDS. 5% ROOTED AQUATIC PLANTS. 10% SHADE. SUPPLIED BY DIVERSION FROM BISHOP CREEK. DITCH DRY DEC 1988 BUT SUCKERS FROM CREEK WOULD LIKELY RECOLONIZE; RE-WATERED MAR 1989.

**General:** CDFG COLLECTED 1 ON 3 NOV 1973 FROM S. FORK BISHOP CREEK. SUCKERS WERE SAMPLED FROM THE SIERRA STREET DITCH MORE THAN 30 TIMES FROM 1 FEB - 20 NOV 1988. ONLY JUVENILE SUCKERS WERE OBSERVED. OWENS DACE ALSO PRESENT.

**Owner/Manager:** CITY OF BISHOP, PVT



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<b>Occurrence No.</b>	12	<b>Map Index:</b> 21917	<b>EO Index:</b> 28618	<b>Element Last Seen:</b>	2002-05-15
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2002-05-15
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2012-10-08
<b>Quad Summary:</b>	Fish Slough (3711844), Rovana (3711845)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.40166 / -118.52469		<b>Accuracy:</b>	non-specific area	
<b>UTM:</b>	Zone-11 N4140522 E365051		<b>Elevation (ft):</b>	4400	
<b>PLSS:</b>	T06S, R31E, Sec. 25 (M)		<b>Acres:</b>	293.0	
<b>Location:</b>	HORTON CREEK, FROM OWENS RIVER CONFLUENCE TO HWY 395, PLEASANT VALLEY.				
<b>Detailed Location:</b>	2 SITES IN 1988: AT LEAST 200 YARDS OF STREAM IN NW1/4 T6S R31E SEC 25; & EXTENSIVE MARSH IN E 1/2 T6S R32E SEC 30. 1998, 1999, 2002: SITE 1 (50 FEET D/S OF PLEASANT VALLEY DAM RD) & SITE 2 (150-FOOT REACH, IN NW 1/4 T6S R31E SEC 25).				
<b>Ecological:</b>	HABITAT UPSTREAM FROM PASTURELAND HAS SWIFT CURRENT. SOME AREAS DOWNSTREAM ARE VERY MARSHY. OWENS DACE AND BROWN TROUT ALSO FOUND HERE. ADULT SUCKERS FOUND IN DEEPER POOL HABITAT. BROWN TROUT FOUND IN ALL SURVEYS.				
<b>General:</b>	ADULTS OBSERVED IN DEEPER POOLS, MOSTLY YOY IN MARSH; 8 ADULTS OBTAINED BY ELECTROFISHING ON 11 JUL 1988. SPOT-SHOCKING YIELDED FOUR 4-5.5" SUCKERS FROM SITES 1 & 2 IN 1998, & 2 FROM SITE 2 IN 1999. 1 ADULT FISHED FROM EACH SITE, 2002.				
<b>Owner/Manager:</b>	LADWP				
<b>Occurrence No.</b>	17	<b>Map Index:</b> 34135	<b>EO Index:</b> 30778	<b>Element Last Seen:</b>	1984-06-26
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1984-06-26
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2012-10-24
<b>Quad Summary:</b>	Fish Slough (3711844)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.40889 / -118.42764		<b>Accuracy:</b>	non-specific area	
<b>UTM:</b>	Zone-11 N4141189 E373653		<b>Elevation (ft):</b>	4200	
<b>PLSS:</b>	T06S, R32E, Sec. 23, S (M)		<b>Acres:</b>	123.0	
<b>Location:</b>	BISHOP CANAL, 2.3 MILES NORTH OF BROCKMANS CORNER, AND ABOUT 3 MILES NW OF BISHOP (JUNCTION OF HWY 395 AND HWY 6).				
<b>Detailed Location:</b>	EXACT LOCATION OF 1973 COLLECTIONS UNKNOWN; BOTH LOCALITIES STATE "OWENS RIVER CANAL," AND ONE GIVES TRS SEC 25, THOUGH OWENS RIVER CANAL IS FURTHER WEST AND WAS ABANDONED IN 1969. MAPPED TO TRS GIVEN FOR 1983-84 SURVEY SITES.				
<b>Ecological:</b>	MAN-MADE IRRIGATION DITCH DIVERTED FROM THE OWENS RIVER ABOUT 3 MILES BELOW PLEASANT VALLEY DAM. RIPARIAN VEGETATION VARIES FROM WELL-DEVELOPED TO SPARSE, AQUATIC VEGETATION VARIES FROM DENSE TO SPARSE, SUBSTRATE IS GRAVEL & FINES.				
<b>General:</b>	7 COLLECTED ON 2 NOV 1973. 146 CAUGHT FROM 3 SITES IN 1983, & 45 FROM 2 SITES IN 1984 DURING MULTIPLE-PASS REMOVAL ELECTROFISHING SURVEYS. BROWN TROUT, THREESPINE STICKLEBACK, CUTTHROAT TROUT, TUI CHUB, & BROWN BULLHEAD WERE ALSO PRESENT.				
<b>Owner/Manager:</b>	LADWP				



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<b>Occurrence No.</b>	25	<b>Map Index:</b> 21949	<b>EO Index:</b> 87670	<b>Element Last Seen:</b> 1941-09-10
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1941-09-10
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2012-09-10
<b>Quad Summary:</b>	Laws (3711843)			
<b>County Summary:</b>	Inyo			
<b>Lat/Long:</b>	37.45421 / -118.33628		<b>Accuracy:</b> 2/5 mile	
<b>UTM:</b>	Zone-11 N4146099 E381811		<b>Elevation (ft):</b> 4000	
<b>PLSS:</b>	T06S, R33E, Sec. 03, SE (M)		<b>Acres:</b> 0.0	
<b>Location:</b>	UNNAMED CANAL NEAR RUDOLPH RD, ABOUT 1 MILE SWS OF SOUTHERN BELLE MINE, AND ABOUT 7 MILES NNE OF BISHOP.			
<b>Detailed Location:</b>	1941 LOCALITY: "IRRIGATION DITCH ABOUT 8 MI NE OF BISHOP TOWARD BENTON STATION, OWENS R. SYSTEM." SADA (1989) PLACED THIS LOCALITY AT T06S R33E S03.			
<b>Ecological:</b>	OWENS SPECKLED DACE WERE ALSO COLLECTED AT THIS LOCALITY IN 1941.			
<b>General:</b>	R.G. MILLER COLLECTED 123 JUVENILES (SL 21-50 MM) ON 10 SEP 1941 (UMMZ #134678).			
<b>Owner/Manager:</b>	LADWP, BLM			
<b>Occurrence No.</b>	29	<b>Map Index:</b> 86633	<b>EO Index:</b> 87682	<b>Element Last Seen:</b> 1973-11-08
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1973-11-08
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2012-09-12
<b>Quad Summary:</b>	Bishop (3711834)			
<b>County Summary:</b>	Inyo			
<b>Lat/Long:</b>	37.32787 / -118.38670		<b>Accuracy:</b> 1/5 mile	
<b>UTM:</b>	Zone-11 N4132147 E377144		<b>Elevation (ft):</b> 4110	
<b>PLSS:</b>	T07S, R33E, Sec. 19 (M)		<b>Acres:</b> 0.0	
<b>Location:</b>	BISHOP CREEK CANAL JUST NORTH OF WARM SPRINGS ROAD, ABOUT 0.7 MILE SE OF HWY 395 AT SUNLAND RES ROAD IN BISHOP.			
<b>Detailed Location:</b>	MAPPED PER LOCALITY: "BISHOP CREEK CANAL, 50 YDS UP AND DOWNSTREAM FROM WEIR, NORTH OF WARM SPRINGS RD;" (LOCATION OF WEIR UNKNOWN, MAPPED N OF ROAD). OTHER SPECIMENS WITH "BISHOP CREEK CANAL" LOCALITIES ATTRIBUTED HERE.			
<b>Ecological:</b>				
<b>General:</b>	CDFG COLLECTED 6 SUCKERS ON 3 NOV AND 2 ON 8 NOV 1973.			
<b>Owner/Manager:</b>	LADWP			



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<b>Occurrence No.</b>	30	<b>Map Index:</b> 86692	<b>EO Index:</b> 87687	<b>Element Last Seen:</b>	2011-05-31
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2011-05-31
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2012-09-12

**Quad Summary:** Poleta Canyon (3711833)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.36221 / -118.33888	<b>Accuracy:</b>	1/10 mile
<b>UTM:</b>	Zone-11 N4135896 E381435	<b>Elevation (ft):</b>	4040
<b>PLSS:</b>	T07S, R33E, Sec. 03, SE (M)	<b>Acres:</b>	0.0

**Location:** OWENS RIVER AT E LINE STREET, ABOUT 0.4 MI W OF E LINE STREET AT POLETA LAWNS ROAD, AND ABOUT 3 MILES EAST OF BISHOP.  
**Detailed Location:** MAPPED TO SPECIMEN LOCALITY "OWENS RIVER, AT INTERSECTION WITH LINE STREET" AND GIVEN COORDINATES.  
**Ecological:** COLLECTED FROM WHIRLPOOL, NEAR RUSHES.  
**General:** PARMENTER & FEENEY (CDFG) COLLECTED 208 SUCKERS ON 31 MAY 2011.  
**Owner/Manager:** LADWP

<b>Occurrence No.</b>	31	<b>Map Index:</b> 86697	<b>EO Index:</b> 87691	<b>Element Last Seen:</b>	1985-07-15
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1985-07-15
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2012-09-13

**Quad Summary:** Bishop (3711834), Fish Slough (3711844)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.36872 / -118.43218	<b>Accuracy:</b>	4/5 mile
<b>UTM:</b>	Zone-11 N4136739 E373183	<b>Elevation (ft):</b>	4260
<b>PLSS:</b>	T07S, R32E, Sec. 02 (M)	<b>Acres:</b>	0.0

**Location:** DIVERSION CANALS IN VICINITY OF BROCKMAN LANE AT NORTH FORK BISHOP CREEK, VICINITY OF BISHOP PAIUTE INDIAN RESERVATION.  
**Detailed Location:** EXACT LOCATION OF 1973 COLLECTION UNKNOWN, MAPPED TO BROCKMAN LN AT N FORK BISHOP CRK PER LOCALITY "BISHOP CREEK DIVERSION CANAL NORTH 50 YDS. DOWNSTREAM FROM N. BROCKMAN."  
**Ecological:**  
**General:** CDFG COLLECTED 1 SUCKER ON 2 NOV 1973.  
**Owner/Manager:** LADWP, PVT



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<b>Occurrence No.</b>	32	<b>Map Index:</b> 36956	<b>EO Index:</b> 87692	<b>Element Last Seen:</b> 1934-09-03
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1934-09-03
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2012-09-12
<b>Quad Summary:</b>	Laws (3711843)			
<b>County Summary:</b>	Inyo			
<b>Lat/Long:</b>	37.39707 / -118.35478		<b>Accuracy:</b>	non-specific area
<b>UTM:</b>	Zone-11 N4139783 E380083		<b>Elevation (ft):</b>	4080
<b>PLSS:</b>	T06S, R33E, Sec. 28, E (M)		<b>Acres:</b>	142.1
<b>Location:</b>	OWENS RIVER AT LAWS, ABOUT 0.2 MILE W OF HWY 6 AT SILVER CANYON ROAD AND 3.5 MI NE OF BISHOP.			
<b>Detailed Location:</b>	SPECIMEN LOCALITIES ARE "OWENS RIVER AT LAWS" OR SIMILAR.			
<b>Ecological:</b>				
<b>General:</b>	KENNEDY COLLECTED 17 SUCKERS (UMMZ #65185) ON UNKNOWN DATE, POSSIBLY IN 1914 WHEN HE COLLECTED PUFFISH (OCC #18) HERE, OR 1922 WHEN HE TOOK TUI CHUBS (OCC #7) FROM THE SAME LOCALITY. HUBBS COLLECTED 9 ON 3 SEP 1934 (UMMZ #132155).			
<b>Owner/Manager:</b>	LADWP			
<b>Occurrence No.</b>	33	<b>Map Index:</b> 84388	<b>EO Index:</b> 87693	<b>Element Last Seen:</b> 1973-11-01
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1973-11-01
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2012-10-22
<b>Quad Summary:</b>	Fish Slough (3711844)			
<b>County Summary:</b>	Inyo			
<b>Lat/Long:</b>	37.41945 / -118.40168		<b>Accuracy:</b>	3/5 mile
<b>UTM:</b>	Zone-11 N4142327 E375968		<b>Elevation (ft):</b>	4160
<b>PLSS:</b>	T06S, R33E, Sec. 19 (M)		<b>Acres:</b>	0.0
<b>Location:</b>	DITCHES AND STREAM TRIBUTARIES OF OWENS RIVER, ABOUT 3.3 MILES NW OF LAWS AND 3.5 MILES N OF BISHOP.			
<b>Detailed Location:</b>	1938: "RILL, TRIBUTARY TO OWENS R, 1.5 MI N & 2.25 MI W OF LAWS." 1942: "IRRIGATION DITCH OF OWENS R...ON ROAD TO FISH SLOUGH," 3.2 & 3.7 MI N OF BISHOP. 1968: "NEAR FISH SLOUGH IN OWEN R." 1973: "FISH SLOUGH DRAIN, T6S R33E SEC 19..."			
<b>Ecological:</b>	SADA, 1989: "THE IRRIGATION CANAL NORTH OF BISHOP [WHERE MILLER COLLECTED DACE & SUCKERS] IN 1942 WAS DRY; OTHER AQUATIC HABITATS IN THE VICINITY WERE SEASONAL AND WATERED ONLY BY DIVERSION OR GROUND WATER PUMPING."			
<b>General:</b>	HUBBS & MILLER COLLECTED 6 SUCKERS ON 26 JUL 1938 & MILLER COLLECTED 190 ON 1 SEP 1942; ALL SPECIMENS IN JUVENILE SIZE RANGE, & OWENS DACE ALSO COLLECTED ON BOTH DATES. BIRCHIM COLLECTED 5 ON 4 MAY 1968. CDFG COLLECTED 1 ON 1 NOV 1973.			
<b>Owner/Manager:</b>	LADWP, BLM			



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<b>Occurrence No.</b>	34	<b>Map Index:</b> 86698	<b>EO Index:</b> 87694	<b>Element Last Seen:</b>	1985-07-15
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1985-07-15
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2012-10-24
<b>Quad Summary:</b>	Bishop (3711834)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.35845 / -118.39900		<b>Accuracy:</b>	non-specific area	
<b>UTM:</b>	Zone-11 N4135556 E376105		<b>Elevation (ft):</b>	4140	
<b>PLSS:</b>	T07S, R33E, Sec. 07, N (M)		<b>Acres:</b>	57.0	
<b>Location:</b>	VICINITY OF CHINA SLOUGH IN BISHOP, FROM S FOWLER STREET EAST TO S 3RD STREET, AND FROM WILLOW STREET S TO E JAY STREET.				
<b>Detailed Location:</b>	MAPPED TO SEGMENT OF CHINA SLOUGH BASED ON DESCRIPTION OF SURVEYED SITES IN 1986 LETTER: "20 M SECTION WEST OF FOWLER STREET," AND "30 M SECTION IMMEDIATELY EAST OF SOUTH THIRD STREET." NOT FOUND IN SURVEYED SEGMENT WEST OF SUNLAND DRIVE.				
<b>Ecological:</b>	SECTION WEST OF FOWLER ST WAS 1 M WIDE AND LESS THAN 0.5 M DEEP, WITH SLOW CURRENT AND MODERATE TO DENSE RIPARIAN AND AQUATIC VEGETATION. SECTION E OF S THIRD WAS MOSTLY SHALLOW RIFFLE, 0.5 M WIDE WITH DENSE RIPARIAN AND AQUATIC VEGETATION.				
<b>General:</b>	SUCKERS OBSERVED DURING CDFG DACE MONITORING ON 15 JUL 1985. BROWN TROUT, OWENS SPECKLED DACE, AND TUI CHUB ALSO PRESENT.				
<b>Owner/Manager:</b>	LADWP, PVT				

<b><i>Cyprinodon radiosus</i></b>	<b>Element Code:</b> AFCNB02090				
Owens pupfish					
<b>Listing Status:</b>	<b>Federal:</b> Endangered	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G1		
	<b>State:</b> Endangered		<b>State:</b> S1		
	<b>Other:</b> AFS_EN-Endangered, CDFW_FP-Fully Protected, IUCN_EN-Endangered				
<b>Habitat:</b>	<b>General:</b> SHALLOW WATER HABITATS IN THE OWENS VALLEY.				
	<b>Micro:</b> PREFERS WARM, CLEAR, SHALLOW WATER FREE OF EXOTIC FISHES. NEEDS AREAS OF FIRM SUBSTRATE FOR SPAWNING.				

<b>Occurrence No.</b>	2	<b>Map Index:</b> 81873	<b>EO Index:</b> 21606	<b>Element Last Seen:</b>	2008-XX-XX
<b>Occ. Rank:</b>	Fair		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2008-XX-XX
<b>Occ. Type:</b>	Refugium; Artificial Habitat/Occurrence		<b>Trend:</b> Fluctuating	<b>Record Last Updated:</b>	2012-10-18
<b>Quad Summary:</b>	Fish Slough (3711844)				
<b>County Summary:</b>	Mono				
<b>Lat/Long:</b>	37.47907 / -118.40222		<b>Accuracy:</b>	non-specific area	
<b>UTM:</b>	Zone-11 N4148942 E376019		<b>Elevation (ft):</b>	4200	
<b>PLSS:</b>	T05S, R33E, Sec. 30, SW (M)		<b>Acres:</b>	5.0	
<b>Location:</b>	BLM SPRING REFUGE, ALONG FISH SLOUGH, ABOUT 2.75 MI WNW OF PUMICE MILL RD AT HWY 6, OWENS VALLEY.				
<b>Detailed Location:</b>	FENCED REFUGE ON E SIDE FISH SLOUGH CREATED 1969. DAMMED SPRING POOL FLOWS S INTO CHANNEL & INTO 2 POOLS ABOVE 2ND DAM AT S END. DAM LEAKS MAY FACILITATE EXCHANGE WITH FISH IN POOLS D/S (EO#21), NEW FISH BARRIER INSTALLED AT SPRING IN 2002.				
<b>Ecological:</b>	OPEN WATER IN POOLS. CHANNEL ENCROACHED BY BULRUSH. '69: 400 INTRO'D FROM FISH SLOUGH STOCK (EOS#1&19). ROTENONE TO KILL LARGEMOUTH BASS (LMB) IN '77, 88. 1500 ADDED FROM OVNFS IN 88. LMB ELECTROFISHED IN '98, 99, 2002. POP INCREASING, '08.				
<b>General:</b>	'70: 1K; 101 COLL. 77: 300 INT FROM WARM SPG(EO#3). 78: 9500. 83: EXTANT; 1000S INT FROM OVNFS. 87: 500; LMB FOUND, POP MOVED TO WMRS(EO#13), 1480 REINT IN 88. 92-93: OBS. 97-2002: EXTIRP; LMB. 03: 2841 INT FROM MULE SPG(EO#17). 08: 1K-10K.				
<b>Owner/Manager:</b>	BLM				



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<b>Occurrence No.</b>	3	<b>Map Index:</b> 01917	<b>EO Index:</b> 21308	<b>Element Last Seen:</b>	2009-02-26
<b>Occ. Rank:</b>	None		<b>Presence:</b> Extirpated	<b>Site Last Seen:</b>	2009-02-26
<b>Occ. Type:</b>	Refugium; Artificial Habitat/Occurrence		<b>Trend:</b> Decreasing	<b>Record Last Updated:</b>	2012-10-02

**Quad Summary:** Poleta Canyon (3711833)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.26577 / -118.27501	<b>Accuracy:</b>	non-specific area
<b>UTM:</b>	Zone-11 N4125117 E386948	<b>Elevation (ft):</b>	4000
<b>PLSS:</b>	T08S, R34E, Sec. 08, W (M)	<b>Acres:</b>	27.9

**Location:** WARM SPRINGS REFUGE, OWENS VALLEY.

**Detailed Location:** FENCED REFUGE. UPPER POND (UP) BUILT 1970, 0.9AC; LOWER IN '86, 0.6AC. PUPFISH IN 1ST 0.25 MI OF OUTFLOW DITCH SINCE '86. TRAPPED/RELEASED AS PONDS EXCAVATED TO CONTROL TYPHA, '96. REMAINING 18 IN DITCH RELOCATED TO MULE SPG (EO#17), 2009.

**Ecological:** '70: INTRO'D FROM FISH SLOUGH. '79: EXTIRP BY CRAYFISH. '83: 150 INT FROM OVNFS(EO#1). '85: FEB-STABLE; SEP-ROTENONED TO KILL GAMBUSIA. '86:517 INT FROM OVNFS, BLM SPG(EO#2). '89: GOOD CONDITION. '93: OVERGROWN. 2004: TYPHA REMOVED FROM UP.

**General:** COLLECTED IN 1971, '81. POP EST 2-3K, '77; 6500-UPPER, 5K-LOWER, 500-DITCH, '87. >50 TRAPPED, '89. PRESENT TO ABUNDANT, 1990-99. ABUNDANT, 2001-02. ABSENT FROM PONDS SINCE '03. EST. 100 IN DITCH, '08. LAST 18 FROM DITCH RELOCATED FEB 2009.

**Owner/Manager:** LADWP, DFG

<b>Occurrence No.</b>	6	<b>Map Index:</b> 01759	<b>EO Index:</b> 28587	<b>Element Last Seen:</b>	1986-12-09
<b>Occ. Rank:</b>	None		<b>Presence:</b> Extirpated	<b>Site Last Seen:</b>	1987-XX-XX
<b>Occ. Type:</b>	Refugium; Artificial Habitat/Occurrence		<b>Trend:</b> Decreasing	<b>Record Last Updated:</b>	2012-10-02

**Quad Summary:** Poleta Canyon (3711833), Laws (3711843)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.37325 / -118.34400	<b>Accuracy:</b>	1/5 mile
<b>UTM:</b>	Zone-11 N4137126 E381000	<b>Elevation (ft):</b>	4040
<b>PLSS:</b>	T07S, R33E, Sec. 03, NW (M)	<b>Acres:</b>	0.0

**Location:** ARTESIAN WELL #136, TRIBUTARY TO NORTH FORK BISHOP CREEK.

**Detailed Location:**

**Ecological:** EXPERIMENTAL TRANSPLANT INTO HUMAN-CREATED HABITAT: POOL IN FRESHWATER TULE MARSH SUPPLIED BY THERMAL ARTESIAN WELL DRILLED BY LADWP. WELL CHOKED W/MARSH VEG. MOSQUITOFISH, BULLFROGS & RED SWAMP CRAYFISH PRESENT.

**General:** 91-150 PUPFISH INTRODUCED IN JUN 1986 FROM OWENS VALLEY NATIVE FISH SANCTUARY (OCC #1) AND BLM SPRING (OCC #2). ONLY A FEW OBSERVED DEC 1986 WITH NO EVIDENCE OF SPAWNING. FOUND EXTIRPATED IN 1987.

**Owner/Manager:** LADWP



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<b>Occurrence No.</b>	7	<b>Map Index:</b> 01847	<b>EO Index:</b> 28586	<b>Element Last Seen:</b> 1986-06-XX
<b>Occ. Rank:</b>	None		<b>Presence:</b> Possibly Extirpated	<b>Site Last Seen:</b> 1986-06-XX
<b>Occ. Type:</b>	Refugium; Artificial Habitat/Occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2012-10-18

**Quad Summary:** Poleta Canyon (3711833)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.30631 / -118.30928	<b>Accuracy:</b>	1 mile
<b>UTM:</b>	Zone-11 N4129656 E383971	<b>Elevation (ft):</b>	4000
<b>PLSS:</b>	T07S, R33E, Sec. 25, SW (M)	<b>Acres:</b>	0.0

**Location:** ARTESIAN WELL, TRIBUTARY TO OWENS RIVER; ABOUT 3.5 MI NW OF WARM SPRINGS REFUGE AND 1 MILE NE OF SAUNDERS LAKE.

**Detailed Location:**

**Ecological:** EXPERIMENTAL TRANSPLANT WITHIN NATIVE RANGE.

**General:** 1986: 12 PUPFISH FROM OVNFs (EO#1) & BLM SPRING (EO#2) INTRODUCED IN LIVE CAGES. EXPERIMENTAL TRANSPLANT BY CDFG. ASSUMED EXTIRPATED SINCE NOT INCLUDED IN EXTANT POPULATION SURVEYS FROM 1989 OR LATER (MOS89R01, FWS09R02).

**Owner/Manager:** LADWP

<b>Occurrence No.</b>	9	<b>Map Index:</b> 01658	<b>EO Index:</b> 28585	<b>Element Last Seen:</b> 1987-XX-XX
<b>Occ. Rank:</b>	None		<b>Presence:</b> Extirpated	<b>Site Last Seen:</b> 2000-XX-XX
<b>Occ. Type:</b>	Refugium; Artificial Habitat/Occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2012-10-18

**Quad Summary:** Poleta Canyon (3711833)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.26949 / -118.37413	<b>Accuracy:</b>	80 meters
<b>UTM:</b>	Zone-11 N4125654 E378164	<b>Elevation (ft):</b>	4160
<b>PLSS:</b>	T08S, R33E, Sec. 08, NE (M)	<b>Acres:</b>	0.0

**Location:** "KEOUGH POND", ABOUT 0.8 MILE SOUTH OF COLLINS RD AT HWY 395, AND ABOUT 7 MILES SOUTH OF BISHOP.

**Detailed Location:** POND LOCATED JUST OFF OLD COUNTY RD SOUTH OF COLLINS ROAD ALONG "KEOUGH HOT" DITCH.

**Ecological:** EXPERIMENTAL TRANSPLANT INTO ARTIFICIAL REFUGE POOL, 15 X 7 M, 1-2 FEET DEEP. HUMANS BATHE ABOUT 1 MILE UPSTREAM (FREEMAN CREEK?). HIGH WATER TEMPERATURES MAY HAVE SUPPRESSED PUPFISH REPRODUCTION.

**General:** DEC 1986: 200 ADULTS, NO JUVS OBS. 1987: POP EST 100, NO EVIDENCE OF REPRODUCTION; 160 ADDED FROM WARM SPRINGS (EO#3). EXTIRPATED YEARS PRIOR TO 2000; PROBABLE CAUSE: MALE PREOCCUPATION WITH TERRITORIAL DEFENSE AGAINST GAMBUSIA.

**Owner/Manager:** LADWP





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<b>Occurrence No.</b>	10	<b>Map Index:</b> 01539	<b>EO Index:</b> 13115	<b>Element Last Seen:</b>	2008-XX-XX
<b>Occ. Rank:</b>	Fair		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2008-XX-XX
<b>Occ. Type:</b>	Introduced Back into Native Hab./Range		<b>Trend:</b> Fluctuating	<b>Record Last Updated:</b>	2012-10-19

**Quad Summary:** Fish Slough (3711844), Chidago Canyon (3711854)

**County Summary:** Mono

<b>Lat/Long:</b>	37.50103 / -118.40761	<b>Accuracy:</b>	1/5 mile
<b>UTM:</b>	Zone-11 N4151386 E375579	<b>Elevation (ft):</b>	4140
<b>PLSS:</b>	T05S, R32E, Sec. 24, NE (M)	<b>Acres:</b>	0.0

**Location:** MARVINS MARSH, 0.25 MI SSE OF OWENS VALLEY NATIVE FISHES SANCTUARY, ALONG FISH SLOUGH, N OF BISHOP, MONO CO.

**Detailed Location:** ARTIFICIALLY IMPROVED HABITAT E OF MAIN SLOUGH, BELOW OVNFS. SHALLOW ALKALINE MARSH WITH 1-AC "POND" OF OPEN WATER, 1987. PUPFISH IN PONDS FARTHEST FROM MAIN CHANNEL, 2001. MARSH HABITAT "MIGRATING" N, SOME POOLS PROBABLY EPHEMERAL, 2002.

**Ecological:** '86: CHANNEL BLASTED IN SIDE OF SLOUGH W/FISH BARRIER TO EXCLUDE BASS. '92: CHANNEL FILLED IN. '93: POOR HABITAT. '99: MANY ORIGINAL PONDS FILLED/DRY. 2000: PUPFISH IN NEW POOLS JUST S OF OVNFS (EO#1). TULE S THROUGHOUT, CHARA SUBSTRATE.

**General:** 1K+ INTRO'D, '86. EST. POP 300, '87. 2K ADDED FROM OVNFS, '88. OBS '89-92. 0 OBS '93: BAD WINTER? ABUNDANT, ESP. JUVS, '94-98. LOW #S OBS IN 7 PONDS SURVEYED, '99. ABUNDANT, 2001. OBS AT ALL SITES SURVEYED, '02. EST 100-1K & DECLINING, '08.

**Owner/Manager:** LADWP

<b>Occurrence No.</b>	12	<b>Map Index:</b> 22509	<b>EO Index:</b> 16371	<b>Element Last Seen:</b>	1993-10-14
<b>Occ. Rank:</b>	None		<b>Presence:</b> Extirpated	<b>Site Last Seen:</b>	2000-02-XX
<b>Occ. Type:</b>	Refugium; Artificial Habitat/Occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2012-10-03

**Quad Summary:** Laws (3711843)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.45800 / -118.32810	<b>Accuracy:</b>	80 meters
<b>UTM:</b>	Zone-11 N4146509 E382540	<b>Elevation (ft):</b>	4400
<b>PLSS:</b>	T06S, R33E, Sec. 02, NW (M)	<b>Acres:</b>	0.0

**Location:** JUST OFF RUDOLPH ROAD, ONE MILE EAST OF HIGHWAY 6, ABOUT 4 MILES NNE OF LAWS.

**Detailed Location:** SMALL PRIVATE POND AT THE OWNER'S HOME, JUST SOUTH OF THE HOUSE.

**Ecological:** POND IS BARELY 5 FEET IN DIAMETER AND ABOUT 2 FEET DEEP. IT IS SURROUNDED BY CATTAILS WITH SUBMERGED CHARA. OWNER OCCASIONALLY PULLS OUT MUCH OF THE VEGETATION TO KEEP IT FROM CHOKING THE POND ('92-93).

**General:** 3-4 ADULTS OBSERVED, 5 MAY 1992. NONE SEEN ON 29 OCT 1992 AND 19 MAY 1993. ONE YOY OBS, 14 OCT 1993. OWNER SAID HE HAD SEEN SEVERAL PUPFISH DURING THE SUMMER. POND WAS DRY (LINER CRACKED/POND DRAINED) PRIOR TO FEB 2000 VISIT.

**Owner/Manager:** PVT



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<b>Occurrence No.</b>	13	<b>Map Index:</b> 21951	<b>EO Index:</b> 12898	<b>Element Last Seen:</b>	1995-XX-XX
<b>Occ. Rank:</b>	None		<b>Presence:</b> Extirpated	<b>Site Last Seen:</b>	1999-XX-XX
<b>Occ. Type:</b>	Refugium; Artificial Habitat/Occurrence		<b>Trend:</b> Decreasing	<b>Record Last Updated:</b>	2012-10-19
<b>Quad Summary:</b>	Poleta Canyon (3711833)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.36045 / -118.32713		<b>Accuracy:</b>	80 meters	
<b>UTM:</b>	Zone-11 N4135685 E382473		<b>Elevation (ft):</b>	4096	
<b>PLSS:</b>	T07S, R33E, Sec. 11, NW (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	WHITE MOUNTAIN RESEARCH STATION (WMRS), ABOUT 0.2 MILE SE OF POLETA ROAD AT POLETA LAWNS ROAD & 3.7 MILES E OF BISHOP.				
<b>Detailed Location:</b>	SITE CONSISTS OF 4 ARTIFICIAL PONDS. PUPFISH WERE LAST OBSERVED IN PONDS A AND B IN 1995, & IN POND C AND "OFFICE POND" IN 1993. AFTER 1995, PUPFISH WERE CONSIDERED EXTIRPATED. OWENS TUI CHUB PLANTED IN PONDS AFTER 1997 (OCC#16).				
<b>Ecological:</b>	PUPFISH INTRODUCED TO OFFICE POND SEP 1987. INTRO'D TO A, B & C CA. 1990. OVERGROWTH OF FILAMENTOUS GREEN ALGAE & CHARA IN ALL PONDS. BY '96 ALL PONDS WERE OCCLUDED BY CATTAILS. SURROUNDING AREA MOSTLY BARE DIRT W/A FEW SMALL COTTONWOODS.				
<b>General:</b>	IN SEP 1992 PUPFISH FOUND IN ALL PONDS; YOY ABUNDANT IN POND A, COMMON IN PONDS B & C. OBS IN ALL PONDS MAY & OCT '93. "OFFICE POND" DRAINED IN 1997; NO PUPFISH. PONDS A, B, & C DRAINED/RECONSTRUCTED IN 1999; NO PUPFISH.				
<b>Owner/Manager:</b>	LADWP, UC-WHITE MTN RES STN				
<b>Occurrence No.</b>	18	<b>Map Index:</b> 36956	<b>EO Index:</b> 87759	<b>Element Last Seen:</b>	1915-08-XX
<b>Occ. Rank:</b>	None		<b>Presence:</b> Extirpated	<b>Site Last Seen:</b>	1934-XX-XX
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2012-10-19
<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.39707 / -118.35478		<b>Accuracy:</b>	non-specific area	
<b>UTM:</b>	Zone-11 N4139783 E380083		<b>Elevation (ft):</b>	4080	
<b>PLSS:</b>	T06S, R33E, Sec. 28 (M)		<b>Acres:</b>	142.1	
<b>Location:</b>	OWENS RIVER AT LAWS, ABOUT 0.2 MILE W OF HWY 6 AT SILVER CANYON ROAD AND 3.5 MI NE OF BISHOP.				
<b>Detailed Location:</b>	SPECIMEN LOCATION STATED AS "OWENS RIVER SWAMP, LAWS."				
<b>Ecological:</b>	KENNEDY (1916) FOUND ABUNDANT PUPFISH IN SHALLOW SLOUGHS AT LONE PINE & LAWS; BUT MOST ABUNDANT AT EDGES OF "LARGE TULE SWAMP THAT LIES IN THE BIG BEND OF OWENS RIVER BETWEEN LAWS AND BISHOP." HE COLLECTED OWENS SUCKER & TUI CHUB HERE ALSO.				
<b>General:</b>	61 PARATYPES COLLECTED BY KENNEDY IN 1914 (THOUGH KEN16A0001 STATES HIS TRIP WAS IN 1915). MILLER (1948) REPORTED THAT C. HUBBS FOUND A FEW SHALLOW POOLS ALONG THE RIVER NEAR LAWS IN 1934, BUT NO PUPFISH.				
<b>Owner/Manager:</b>	LADWP				



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<b>Occurrence No.</b>	19	<b>Map Index:</b> 86610	<b>EO Index:</b> 87760	<b>Element Last Seen:</b> 1967-XX-XX
<b>Occ. Rank:</b>	None		<b>Presence:</b> Possibly Extirpated	<b>Site Last Seen:</b> 1990-04-XX
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2012-10-19

**Quad Summary:** Fish Slough (3711844)

**County Summary:** Mono

<b>Lat/Long:</b>	37.48934 / -118.40581	<b>Accuracy:</b>	1/5 mile
<b>UTM:</b>	Zone-11 N4150086 E375719	<b>Elevation (ft):</b>	4200
<b>PLSS:</b>	T05S, R32E, Sec. 25, NE (M)	<b>Acres:</b>	0.0

**Location:** "REDISCOVERY POND," FISH SLOUGH; ABOUT 3.4 MI SW OF HWY 6 AT CHALFANT RD & 3.8 MI NW OF HWY 6 AT RUDOLPH RD.

**Detailed Location:** MAPPED TO TRS & LABELED AERIAL PHOTO IN MILLER ('71). THE POND AS SUCH DRIED BEFORE '69. '89-90 SURVEY SITES 9 & 17 COVERED A SIMILAR AREA, NEAR CONFLUENCE OF SLOUGH'S NE & NW TRIBUTARIES. PISTER SPECIMEN FROM "FISH SLOUGH" ATTRIBUTED HERE.

**Ecological:** OWENS PUPFISH FOUND HERE, AFTER 20 YRS OF PRESUMED EXTINCTION, ARE SOURCE OF ALL STOCK. CDFG STAFF UNKNOWINGLY CAUGHT A FEW HERE, 1956. 1964: FOUND IN CLEAR POOL 300' L, 15-40' W, 2-6" DEEP; CHARA MATS ON FIRM MUD BOTTOM, SCATTERED SCIRPUS.

**General:** SEVERAL PUPFISH CAUGHT IN 1956. SEARCHED IN '63, 0 FOUND. POP OF CA. 200 REDISCOVERED, 10 JUL '64. PRESUMED PRESENT, '67. RELOCATED TO HABITAT S OF NW SPRINGS PRIOR TO '69 (EO#1); HABITAT AT THIS SITE DRIED UP. 0 FOUND IN VICINITY, '89-90.

**Owner/Manager:** LADWP, BLM

<b>Occurrence No.</b>	21	<b>Map Index:</b> 86793	<b>EO Index:</b> 87764	<b>Element Last Seen:</b> 2008-XX-XX
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 2008-XX-XX
<b>Occ. Type:</b>	Introduced Back into Native Hab./Range		<b>Trend:</b> Stable	<b>Record Last Updated:</b> 2012-10-19

**Quad Summary:** Fish Slough (3711844)

**County Summary:** Mono

<b>Lat/Long:</b>	37.47702 / -118.40210	<b>Accuracy:</b>	non-specific area
<b>UTM:</b>	Zone-11 N4148715 E376026	<b>Elevation (ft):</b>	4220
<b>PLSS:</b>	T05S, R33E, Sec. 31, NW (M)	<b>Acres:</b>	4.0

**Location:** BLM PONDS, FISH SLOUGH; ABOUT 2.7 MILES WNW OF HWY 6 AT PUMICE MILL ROAD IN OWENS VALLEY.

**Detailed Location:** 4-5 PONDS S OF BLM SPRING EXCLOSURE FENCE & E OF MAIN SPRING OUTFLOW CHANNEL. AFTER 2002, NAMED B, C1, C2, D, AND E (FROM EAST TO WEST); MAPPED TO BOG02R0001 COORDINATES. ONLY 2 PONDS MENTIONED IN 2009 REPORT; POSSIBLY C (1&2) & D.

**Ecological:** ISOLATED FROM U/S BLM SPRING (EO#2) BY 2 GRAVEL DAMS, BUT SMALL LEAK REPORTED 1989. 2002: RUSHES ENCROACHING ALL PONDS; D HAS MOST OPEN WATER. C2 FIRST MONITORED '02, POSS EPHEMERAL. GAMBUSIA ABUNDANT. DACE FOUND IN C1&D IN '02, ORIGIN UNK.

**General:** PUPFISH INTRO'D HERE BY 1982, FIRST DETECTED IN 1984. PRESENT, 1986, '87, '89. JUVENILES & ADULTS OBS 1998. ADULTS DET IN PONDS B-E, JUVS & ADULTS COMMON IN D, JUN 1999. FOUND ONLY IN C2 & D, APR-JUN 2002. POP EST. 100, "STABLE" AS OF 2008.

**Owner/Manager:** BLM



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<b><i>Myotis volans</i></b>		<b>Element Code:</b> AMACC01110	
long-legged myotis			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDB Element Ranks:</b>	<b>Global:</b> G4G5
	<b>State:</b> None		<b>State:</b> S3
	<b>Other:</b> IUCN_LC-Least Concern, WBWG_H-High Priority		
<b>Habitat:</b>	<b>General:</b> MOST COMMON IN WOODLAND AND FOREST HABITATS ABOVE 4000 FT. TREES ARE IMPORTANT DAY ROOSTS; CAVES AND MINES ARE NIGHT ROOSTS.		
	<b>Micro:</b> NURSERY COLONIES USUALLY UNDER BARK OR IN HOLLOW TREES, BUT OCCASIONALLY IN CREVICES OR BUILDINGS.		

<b>Occurrence No.</b>	14	<b>Map Index:</b>	61375	<b>EO Index:</b>	61411	<b>Element Last Seen:</b>	1992-08-25
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		1992-08-25	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2005-05-19	
<b>Quad Summary:</b>	Laws (3711843)						
<b>County Summary:</b>	Inyo						
<b>Lat/Long:</b>	37.40593 / -118.30437		<b>Accuracy:</b>	non-specific area			
<b>UTM:</b>	Zone-11 N4140704 E384558		<b>Elevation (ft):</b>	10250			
<b>PLSS:</b>	T06S, R33E, Sec. 24 (M)		<b>Acres:</b>	141.3			
<b>Location:</b>	SILVER CANYON, INYO NATIONAL FOREST, WHITE MOUNTAINS.						
<b>Detailed Location:</b>	CAPTURE MADE AT ROAD-STREAM CROSSING IN SEC 24.						
<b>Ecological:</b>							
<b>General:</b>	ONE MALE NETTED 25 AUG 1992.						
<b>Owner/Manager:</b>	USFS-INYO NF						

<b><i>Myotis ciliolabrum</i></b>		<b>Element Code:</b> AMACC01140	
western small-footed myotis			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDB Element Ranks:</b>	<b>Global:</b> G5
	<b>State:</b> None		<b>State:</b> S3
	<b>Other:</b> BLM_S-Sensitive, IUCN_LC-Least Concern, WBWG_M-Medium Priority		
<b>Habitat:</b>	<b>General:</b> WIDE RANGE OF HABITATS MOSTLY ARID WOODED & BRUSHY UPLANDS NEAR WATER. SEEKS COVER IN CAVES, BUILDINGS, MINES, AND CREVICES.		
	<b>Micro:</b> PREFERS OPEN STANDS IN FORESTS AND WOODLANDS. REQUIRES DRINKING WATER. FEEDS ON A WIDE VARIETY OF SMALL FLYING INSECTS.		



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<b>Occurrence No.</b>	12	<b>Map Index:</b> 61375	<b>EO Index:</b> 68509	<b>Element Last Seen:</b>	1996-11-10
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1996-11-10
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2007-04-06
<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.40593 / -118.30437		<b>Accuracy:</b>	non-specific area	
<b>UTM:</b>	Zone-11 N4140704 E384558		<b>Elevation (ft):</b>	4550	
<b>PLSS:</b>	T06S, R33E, Sec. 24 (M)		<b>Acres:</b>	141.3	
<b>Location:</b>	WHITE MOUNTAINS, SILVER CANYON RD, FIRST STREAM CROSSING.				
<b>Detailed Location:</b>	MAPPED ALONG SILVER CANYON IN SECTION 24.				
<b>Ecological:</b>	RIPARIAN CORRIDOR THROUGH DESERT SCRUB/COTTONWOODS.				
<b>General:</b>	1 FORAGING INDIVIDUAL CAPTURED AND RELEASED ON 10 NOV 1996.				
<b>Owner/Manager:</b>	UNKNOWN				
<b>Occurrence No.</b>	13	<b>Map Index:</b> 68341	<b>EO Index:</b> 68510	<b>Element Last Seen:</b>	1997-08-30
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1997-08-30
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2007-04-06
<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.40640 / -118.26955		<b>Accuracy:</b>	non-specific area	
<b>UTM:</b>	Zone-11 N4140714 E387641		<b>Elevation (ft):</b>		
<b>PLSS:</b>	T06S, R34E, Sec. 20 (M)		<b>Acres:</b>	74.0	
<b>Location:</b>	WHITE MOUNTAINS, SILVER CANYON RD, 4TH STREAM CROSSING.				
<b>Detailed Location:</b>	MAPPED IN SIVER CANYON IN SECTION 20.				
<b>Ecological:</b>	RIPARIAN CORRIDOR THROUGH DESERT SCRUB.				
<b>General:</b>	2 FORAGING INDIVIDUALS OBSERVED ON 30 AUG 1997.				
<b>Owner/Manager:</b>	UNKNOWN				
<b>Occurrence No.</b>	14	<b>Map Index:</b> 21896	<b>EO Index:</b> 68511	<b>Element Last Seen:</b>	1997-06-18
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1997-06-18
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2007-03-06
<b>Quad Summary:</b>	Poleta Canyon (3711833)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.26655 / -118.27232		<b>Accuracy:</b>	80 meters	
<b>UTM:</b>	Zone-11 N4125200 E387187		<b>Elevation (ft):</b>	4100	
<b>PLSS:</b>	T08S, R34E, Sec. 08 (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	WARM SPRINGS, EAST OF OWENS RIVER, AT BASE OF BLACK MOUNTAIN.				
<b>Detailed Location:</b>					
<b>Ecological:</b>	SPRING IN ALKALI MEADOW, SURROUNDED BY DESERT SCRUB.				
<b>General:</b>	1 FORAGING FEMALE CAPTURED AND RELEASED ON 18 JUN 1997.				
<b>Owner/Manager:</b>	LADWP, DFG				



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<b>Occurrence No.</b>	15	<b>Map Index:</b> 68342	<b>EO Index:</b> 68512	<b>Element Last Seen:</b> 1999-01-16
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1999-01-16
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2007-03-06

**Quad Summary:** Laws (3711843)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.45861 / -118.27503	<b>Accuracy:</b>	1/10 mile
<b>UTM:</b>	Zone-11 N4146513 E387234	<b>Elevation (ft):</b>	6230
<b>PLSS:</b>	T06S, R34E, Sec. 05, NW (M)	<b>Acres:</b>	0.0

**Location:** WEST SIDE OF WHITE MOUNTAINS, GUNTER CANYON GROUP, SOUTH SIDE OF CANYON.

**Detailed Location:** MAPPED ACCORDING TO LAT/LONG COORDINATES PROVIDED BY SOURCE. OBSERVED IN UPPER LEFT ADIT ON SOUTH SIDE OF CANYON.

**Ecological:** DRY WASH THROUGH SCRUB.

**General:** 1 HIBERNATING INDIVIDUAL OBSERVED ON 16 JAN 1999.

**Owner/Manager:** UNKNOWN

<b><i>Lasionycteris noctivagans</i></b>		<b>Element Code:</b> AMACC02010
silver-haired bat		
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks: Global:</b> G3G4
	<b>State:</b> None	<b>State:</b> S3S4
	<b>Other:</b> IUCN_LC-Least Concern, WBWG_M-Medium Priority	
<b>Habitat:</b>	<b>General:</b> PRIMARILY A COASTAL AND MONTANE FOREST DWELLER, FEEDING OVER STREAMS, PONDS & OPEN BRUSHY AREAS.	
	<b>Micro:</b> ROOSTS IN HOLLOW TREES, BENEATH EXFOLIATING BARK, ABANDONED WOODPECKER HOLES, AND RARELY UNDER ROCKS. NEEDS DRINKING WATER.	

<b>Occurrence No.</b>	41	<b>Map Index:</b> 27957	<b>EO Index:</b> 68920	<b>Element Last Seen:</b> 1977-11-01
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1977-11-01
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2007-03-19

**Quad Summary:** Bishop (3711834), Fish Slough (3711844)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.36463 / -118.39521	<b>Accuracy:</b>	1 mile
<b>UTM:</b>	Zone-11 N4136236 E376451	<b>Elevation (ft):</b>	1260
<b>PLSS:</b>	T07S, R33E, Sec. 06 (M)	<b>Acres:</b>	0.0

**Location:** BISHOP.

**Detailed Location:** EXACT LOCATION UNKNOWN. MAPPED IN GENERAL VICINITY OF BISHOP.

**Ecological:**

**General:** 1 FEMALE SPECIMEN (LACM #55880) COLLECTED BY K.E. STAGER ON 1 NOV 1977.

**Owner/Manager:** UNKNOWN



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<b><i>Lasiurus cinereus</i></b>		<b>Element Code:</b> AMACC05030	
hoary bat			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDB Element Ranks:</b>	<b>Global:</b> G3G4
	<b>State:</b> None		<b>State:</b> S4
	<b>Other:</b> IUCN_LC-Least Concern, WBWG_M-Medium Priority		
<b>Habitat:</b>	<b>General:</b> PREFERS OPEN HABITATS OR HABITAT MOSAICS, WITH ACCESS TO TREES FOR COVER AND OPEN AREAS OR HABITAT EDGES FOR FEEDING.		
	<b>Micro:</b> ROOSTS IN DENSE FOLIAGE OF MEDIUM TO LARGE TREES. FEEDS PRIMARILY ON MOTHS. REQUIRES WATER.		

<b>Occurrence No.</b>	7	<b>Map Index:</b> 68341	<b>EO Index:</b> 68541	<b>Element Last Seen:</b> 1997-06-16
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1997-06-16	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2007-04-06	

<b>Quad Summary:</b>	Laws (3711843)
<b>County Summary:</b>	Inyo

<b>Lat/Long:</b>	37.40640 / -118.26955	<b>Accuracy:</b>	non-specific area
<b>UTM:</b>	Zone-11 N4140714 E387641	<b>Elevation (ft):</b>	5380
<b>PLSS:</b>	T06S, R34E, Sec. 20 (M)	<b>Acres:</b>	74.0

<b>Location:</b>	WHITE MOUNTAINS, SILVER CANYON RD, 6TH STREAM CROSSING.
<b>Detailed Location:</b>	MAPPED IN SIVER CANYON IN SECTION 20.
<b>Ecological:</b>	RIPARIAN CORRIDOR THROUGH DESERT SCRUB.
<b>General:</b>	1 FORAGING FEMALE CAPTURED AND RELEASED ON 16 JUN 1997.
<b>Owner/Manager:</b>	UNKNOWN

<b><i>Euderma maculatum</i></b>		<b>Element Code:</b> AMACC07010	
spotted bat			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDB Element Ranks:</b>	<b>Global:</b> G4
	<b>State:</b> None		<b>State:</b> S3
	<b>Other:</b> BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, WBWG_H-High Priority		
<b>Habitat:</b>	<b>General:</b> OCCUPIES A WIDE VARIETY OF HABITATS FROM ARID DESERTS AND GRASSLANDS THROUGH MIXED CONIFER FORESTS.		
	<b>Micro:</b> FEEDS OVER WATER AND ALONG WASHES. FEEDS ALMOST ENTIRELY ON MOTHS. NEEDS ROCK CREVICES IN CLIFFS OR CAVES FOR ROOSTING.		

<b>Occurrence No.</b>	29	<b>Map Index:</b> 61936	<b>EO Index:</b> 61972	<b>Element Last Seen:</b> 1995-07-28
<b>Occ. Rank:</b>	Good	<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1995-07-28	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2005-07-08	

<b>Quad Summary:</b>	Bishop (3711834)
<b>County Summary:</b>	Inyo

<b>Lat/Long:</b>	37.37029 / -118.45293	<b>Accuracy:</b>	non-specific area
<b>UTM:</b>	Zone-11 N4136941 E371349	<b>Elevation (ft):</b>	4300
<b>PLSS:</b>	T07S, R32E, Sec. 03, NW (M)	<b>Acres:</b>	36.6

<b>Location:</b>	BETWEEN HWY 395 AND HWY 168 ABOUT 2.5 MILES WEST OF BISHOP.
<b>Detailed Location:</b>	
<b>Ecological:</b>	RESIDENTIAL AREA NEAR DESERT SCRUB.
<b>General:</b>	ONE BAT SEEN FORAGING OVER RESIDENCE.
<b>Owner/Manager:</b>	PVT



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<b>Occurrence No.</b>	30	<b>Map Index:</b> 61937	<b>EO Index:</b> 61973	<b>Element Last Seen:</b>	1995-07-29
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1995-07-29
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2006-09-19
<b>Quad Summary:</b>	Bishop (3711834)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.36648 / -118.39569		<b>Accuracy:</b>	non-specific area	
<b>UTM:</b>	Zone-11 N4136442 E376411		<b>Elevation (ft):</b>	4100	
<b>PLSS:</b>	T07S, R33E, Sec. 06 (M)		<b>Acres:</b>	20.0	
<b>Location:</b>	BISHOP CITY PARK.				
<b>Detailed Location:</b>	BAT SEEN OVER THE BACK (OR NORTHEAST) PART OF THE PARK & COLLECTED AT "687 FOWLER."				
<b>Ecological:</b>	HABITAT IS CITY PARK, WITH IRRIGATED LAWN, COTTONWOOD TREES, AND NEAR-BY FLOOD-IRRIGATED PASTURE.				
<b>General:</b>	1 FEMALE SPECIMEN COLLECTED BY DENNY G. CONSTANTINE ON 11 MAY 1977, MVZ #181851. ONE BAT FORAGING 29 JUL 1995.				
<b>Owner/Manager:</b>	CITY OF BISHOP				

<b>Occurrence No.</b>	63	<b>Map Index:</b> 66286	<b>EO Index:</b> 66368	<b>Element Last Seen:</b>	1997-10-19
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1997-10-19
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2006-09-20
<b>Quad Summary:</b>	Poleta Canyon (3711833)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.36079 / -118.32735		<b>Accuracy:</b>	1/10 mile	
<b>UTM:</b>	Zone-11 N4135724 E382454		<b>Elevation (ft):</b>	4040	
<b>PLSS:</b>	T07S, R33E, Sec. 11, NW (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	EAST OF BISHOP, ABOUT 0.4 MI EAST OF OWENS RIVER, OWENS VALLEY LAB, WHITE MOUNTAIN RESEARCH STATION.				
<b>Detailed Location:</b>					
<b>Ecological:</b>	DESERT SCRUB, SOME COTTONWOODS.				
<b>General:</b>	2 FORAGING BATS DETECTED 14 AUG 1997. 2 FORAGING BATS DETECTED 19 OCT 1997.				
<b>Owner/Manager:</b>	UNKNOWN				

<b><i>Corynorhinus townsendii</i></b>		<b>Element Code:</b> AMACC08010
Townsend's big-eared bat		
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b> <b>Global:</b> G4
	<b>State:</b> None	<b>State:</b> S2
<b>Other:</b>	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive, WBWG_H-High Priority	
<b>Habitat:</b>	<b>General:</b> THROUGHOUT CALIFORNIA IN A WIDE VARIETY OF HABITATS. MOST COMMON IN MESIC SITES.	
	<b>Micro:</b> ROOSTS IN THE OPEN, HANGING FROM WALLS AND CEILINGS. ROOSTING SITES LIMITING. EXTREMELY SENSITIVE TO HUMAN DISTURBANCE.	





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<b>Occurrence No.</b>	7	<b>Map Index:</b> 01356	<b>EO Index:</b> 24333	<b>Element Last Seen:</b>	2004-11-30
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2004-11-30
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2014-10-13
<b>Quad Summary:</b>	Bishop (3711834)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.31930 / -118.45850		<b>Accuracy:</b>	non-specific area	
<b>UTM:</b>	Zone-11 N4131291 E370768		<b>Elevation (ft):</b>	4700	
<b>PLSS:</b>	T07S, R32E, Sec. 22, SW (M)		<b>Acres:</b>	39.0	
<b>Location:</b>	YANEY MINE, ABOUT 2.3 MI SW OF BARLOW LANE AT BIR ROAD AND ABOUT 4.6 MI NNE OF PETERSON MILL.				
<b>Detailed Location:</b>	MAPPED TO PROVIDED COORDINATES AND LOCALITY "YANEY MINE."				
<b>Ecological:</b>	COLONY ORIGINALLY FOUND IN 1940. POPULATION ESTIMATED AT 55 FEMALES IN 1987-1991. JUL 2008 REPORT INDICATED THAT THE MINE HAS A BAT GATE INSTALLED.				
<b>General:</b>	KNOWN MATERNITY COLONY OF ABOUT 50 BATS. 4 COLLECTED ON 29 MAY 1940 BY F. HOOPER (MVZ #93703-93706). AT LEAST 3 BATS HEARD ON 1 AUG 2001 BY J. SZEWCZAK AT 3 LOCATIONS WITHIN YANEY MINE. GUANO FOUND IN MIDDLE ADIT ON 29 AND/OR 30 NOV 2004.				
<b>Owner/Manager:</b>	BLM				
<b>Occurrence No.</b>	8	<b>Map Index:</b> 01283	<b>EO Index:</b> 24330	<b>Element Last Seen:</b>	2001-07-24
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2001-07-24
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2014-06-26
<b>Quad Summary:</b>	Bishop (3711834)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.30381 / -118.47484		<b>Accuracy:</b>	1/5 mile	
<b>UTM:</b>	Zone-11 N4129595 E369294		<b>Elevation (ft):</b>	5200	
<b>PLSS:</b>	T07S, R32E, Sec. 28, SW (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	CHIPMUNK MINE, 4.5 MI SW OF BISHOP.				
<b>Detailed Location:</b>	EXACT LOCATION UNKNOWN. MAPPED GENERALLY TO LOCALITY OF CHIPMUNK MINE AND PROVIDED COORDINATES.				
<b>Ecological:</b>					
<b>General:</b>	2 COLLECTED ON 26 DEC 1939 (MVZ #89919, 89920). 13 BATS DETECTED ON 2 AUG 1988. 10 UNKNOWN BATS ENTERED AND 9 EXITED MINE ON 29 JUL 1999. 1 GROUP OF BATS HEARD ON 24 JUL 2001 BY J. SZEWCZAK.				
<b>Owner/Manager:</b>	UNKNOWN				



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<b>Occurrence No.</b>	19	<b>Map Index:</b> 01912	<b>EO Index:</b> 24322	<b>Element Last Seen:</b>	1999-08-05
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1999-08-05
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2014-10-13
<b>Quad Summary:</b>	Poleta Canyon (3711833)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.35930 / -118.27531		<b>Accuracy:</b>	1/5 mile	
<b>UTM:</b>	Zone-11 N4135495 E387061		<b>Elevation (ft):</b>	5700	
<b>PLSS:</b>	T07S, R34E, Sec. 08, NW (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	POLETA MINE, ABOUT 2.3 MI NNE OF EASTSIDE ROAD AT REDDING CANYON ROAD AND ABOUT 5 MI WNW OF GRANDVIEW CAMPGROUND.				
<b>Detailed Location:</b>	MAPPED TO PROVIDED COORDINATES FOR POLETA MINE; ACCURACY UNKNOWN.				
<b>Ecological:</b>	POPULATION ESTIMATED AT 215 FEMALES DURING SURVEY BETWEEN 1987-1991.				
<b>General:</b>	1 COLLECTED ON 26 DEC 1916 (CSULB MUSEUM #2362). A GROUP OF 25 OBSERVED ON 13 JAN 1991 BY J. SZEWCZAK AT CT53. A GROUP OF AT LEAST 279 OBSERVED IN OUTFLIGHT AND A GROUP OF AT LEAST 31 ENTERING POLETA MINE ON 5 AUG 1999.				
<b>Owner/Manager:</b>	UNKNOWN				
<b>Occurrence No.</b>	79	<b>Map Index:</b> 36932	<b>EO Index:</b> 31929	<b>Element Last Seen:</b>	1995-04-01
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1995-04-01
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	1997-09-29
<b>Quad Summary:</b>	Blanco Mtn. (3711842), Laws (3711843)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.38558 / -118.25061		<b>Accuracy:</b>	1/5 mile	
<b>UTM:</b>	Zone-11 N4138381 E389287		<b>Elevation (ft):</b>	7600	
<b>PLSS:</b>	T06S, R34E, Sec. 33 (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	APPROX. 5.5 MILES ESE OF LAWS, 1.4 MILES S SILVER CANYON CREEK, WHITE MOUNTAINS, INYO NF.				
<b>Detailed Location:</b>	ABOUT 70 FOOT VERTICAL SHAFT ON RIDGE SOUTH OF SILVER CANYON.				
<b>Ecological:</b>	PINYON - JUNIPER FOREST / DOLOMITE ROCK. SITE USED FOR WINTERING AND ROOSTING.				
<b>General:</b>	1 OBSERVED IN 1995.				
<b>Owner/Manager:</b>	USFS-INYO NF				
<b>Occurrence No.</b>	173	<b>Map Index:</b> 21896	<b>EO Index:</b> 68518	<b>Element Last Seen:</b>	1997-06-18
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1997-06-18
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2014-11-04
<b>Quad Summary:</b>	Poleta Canyon (3711833)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.26655 / -118.27232		<b>Accuracy:</b>	80 meters	
<b>UTM:</b>	Zone-11 N4125200 E387187		<b>Elevation (ft):</b>	4100	
<b>PLSS:</b>	T08S, R34E, Sec. 08, SW (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	WARM SPRINGS. 1.5 MILES SOUTH OF THE MOUTH OF BLACK CANYON, IN THE WHITE MOUNTAINS, ON THE EAST SIDE OF OWENS VALLEY.				
<b>Detailed Location:</b>	MAPPED TO PROVIDED COORDINATES. DETAILED LOCALITY OF "WARM SPRINGS, AT BASE OF BLACK MOUNTAIN."				
<b>Ecological:</b>	SPRING IN ALKALI MEADOW.				
<b>General:</b>	2 FORAGING LACTATING FEMALES CAPTURED AND RELEASED ON 18 JUN 1997.				
<b>Owner/Manager:</b>	LADWP, DFG				



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<b>Occurrence No.</b>	175	<b>Map Index:</b>	93094	<b>EO Index:</b>	68520	<b>Element Last Seen:</b>	2014-XX-XX
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		2014-XX-XX	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2014-07-09	
<b>Quad Summary:</b>	Laws (3711843)						
<b>County Summary:</b>	Inyo						
<b>Lat/Long:</b>	37.45827 / -118.27676			<b>Accuracy:</b>	specific area		
<b>UTM:</b>	Zone-11 N4146477 E387081			<b>Elevation (ft):</b>	6230		
<b>PLSS:</b>	T06S, R34E, Sec. 05, NW (M)			<b>Acres:</b>	7.0		
<b>Location:</b>	WEST SIDE OF WHITE MOUNTAINS, GUNTER CANYON GROUP, NORTH SIDE OF CANYON.						
<b>Detailed Location:</b>	MAPPED TO PROVIDED COORDINATES. DETAILED LOCALITY OF GUNTER CREEK. NEARBY DETAILED LOCALITY OF MAIN ADIT ON N SIDE OF CANYON.						
<b>Ecological:</b>	DRY WASH THROUGH SCRUB.						
<b>General:</b>	3 HIBERNATING FEMALES OBSERVED ON 16 JAN 1999. 7 BATS OBSERVED DURING THE WINTER OF 2013-2014.						
<b>Owner/Manager:</b>	UNKNOWN						
<b>Occurrence No.</b>	373	<b>Map Index:</b>	92302	<b>EO Index:</b>	93408	<b>Element Last Seen:</b>	1940-01-09
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		1940-01-09	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2014-05-07	
<b>Quad Summary:</b>	Poleta Canyon (3711833)						
<b>County Summary:</b>	Inyo						
<b>Lat/Long:</b>	37.32180 / -118.33170			<b>Accuracy:</b>	1 mile		
<b>UTM:</b>	Zone-11 N4131403 E382008			<b>Elevation (ft):</b>	4040		
<b>PLSS:</b>	T07S, R33E, Sec. 23 (M)			<b>Acres:</b>	0.0		
<b>Location:</b>	ABOUT 1.4 MI WSW OF EASTSIDE ROAD AT WARM SPRINGS ROAD AND ABOUT 4.5 MI SE OF BISHOP.						
<b>Detailed Location:</b>	EXACT LOCATION UNKNOWN. MAPPED TO LOCALITY OF 4.5 MI SE OF BISHOP.						
<b>Ecological:</b>							
<b>General:</b>	1 FEMALE COLLECTED ON 9 JAN 1940 BY F. HOOPER (UMMZ #83200).						
<b>Owner/Manager:</b>	UNKNOWN						
<b>Occurrence No.</b>	374	<b>Map Index:</b>	92304	<b>EO Index:</b>	93411	<b>Element Last Seen:</b>	2014-XX-XX
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		2014-XX-XX	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2014-08-27	
<b>Quad Summary:</b>	Poleta Canyon (3711833)						
<b>County Summary:</b>	Inyo						
<b>Lat/Long:</b>	37.35056 / -118.25566			<b>Accuracy:</b>	specific area		
<b>UTM:</b>	Zone-11 N4134502 E388788			<b>Elevation (ft):</b>	6233		
<b>PLSS:</b>	T07S, R34E, Sec. 09, SW (M)			<b>Acres:</b>	13.0		
<b>Location:</b>	ABOUT 3.2 MI ENE OF EASTSIDE ROAD AT REDDING CANYON ROAD AND ABOUT 3.9 MI WNW OF GRANDVIEW CAMPGROUND.						
<b>Detailed Location:</b>	MAPPED TO PROVIDED COORDINATES. DETAILED LOCALITY OF REDDING CANYON.						
<b>Ecological:</b>							
<b>General:</b>	1 BAT OBSERVED ON 31 JAN 1991 BY J. SZEWCZAK AT CT50. 1 BAT CAPTURED AND RELEASED ON 24 JAN 1993. ABOUT 4 BATS OBSERVED BETWEEN 1990-1991. ABOUT 4 BATS OBSERVED BETWEEN 1991-1999. 2 BATS OBSERVED DURING THE WINTER OF 2013-2014.						
<b>Owner/Manager:</b>	USFS-INYO NF						



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<b>Occurrence No.</b>	376	<b>Map Index:</b> 92315	<b>EO Index:</b> 93423	<b>Element Last Seen:</b>	1992-08-25
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1992-08-25
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2014-05-07
<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.40570 / -118.30180		<b>Accuracy:</b>	80 meters	
<b>UTM:</b>	Zone-11 N4140675 E384786		<b>Elevation (ft):</b>	4700	
<b>PLSS:</b>	T06S, R33E, Sec. 24, SE (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	ABOUT 1.9 MI ENE OF LAWS POLETA ROAD AT SILVER CANYON ROAD AND ABOUT 8.4 MI SSW OF CAMPITO MOUNTAIN.				
<b>Detailed Location:</b>	MAPPED TO PROVIDED COORDINATES.				
<b>Ecological:</b>					
<b>General:</b>	1 INDIVIDUAL HANDLED ON 25 AUG 1992 BY J. SZEWCZAK.				
<b>Owner/Manager:</b>	USFS-INYO NF				
<b>Occurrence No.</b>	377	<b>Map Index:</b> 92316	<b>EO Index:</b> 93424	<b>Element Last Seen:</b>	1995-01-04
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1995-01-04
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2014-05-07
<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.38810 / -118.27970		<b>Accuracy:</b>	1/10 mile	
<b>UTM:</b>	Zone-11 N4138696 E386715		<b>Elevation (ft):</b>	6450	
<b>PLSS:</b>	T06S, R34E, Sec. 31, NE (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	ABOUT 2.8 MI ESE OF FLYNN ROAD AT STEWARD ROAD AND ABOUT 6.2 MI NW OF GRANDVIEW CAMPGROUND.				
<b>Detailed Location:</b>	MAPPED TO PROVIDED LOCATION. DETAILED LOCALITY OF CT65 AT UN-NAMED MINE.				
<b>Ecological:</b>					
<b>General:</b>	UNKNOWN NUMBER OF BATS DETECTED ON 4 JAN 1995 BY J. SZEWCZAK WITH USE OF ELECTRONIC DETECTION.				
<b>Owner/Manager:</b>	USFS-INYO NF				
<b>Occurrence No.</b>	557	<b>Map Index:</b> 93088	<b>EO Index:</b> 94238	<b>Element Last Seen:</b>	2014-XX-XX
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2014-XX-XX
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2014-10-08
<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Inyo, Mono				
<b>Lat/Long:</b>	37.46190 / -118.31730		<b>Accuracy:</b>	1/5 mile	
<b>UTM:</b>	Zone-11 N4146929 E383501		<b>Elevation (ft):</b>	4950	
<b>PLSS:</b>	T06S, R33E, Sec. 02, NE (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	SOUTHERN BELLE MINE, ABOUT 1.8 MI ENE OF GAR HIGHWAY (US 6) AT RUDOLPH ROAD AND ABOUT 7.3 MI WSW OF COUNTY LINE HILL.				
<b>Detailed Location:</b>	EXACT LOCATION UNKNOWN. MAPPED TO SOUTHERN BELLE MINE IN INYO COUNTY.				
<b>Ecological:</b>	MINE HAS A BAT GATE INSTALLED AS OF 2013-2014 SURVEY.				
<b>General:</b>	KNOWN HIBERNACULUM, REPORTED IN 2008. 4 BATS OBSERVED DURING THE WINTER OF 2013-2014.				
<b>Owner/Manager:</b>	BLM				



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<b><i>Antrozous pallidus</i></b>		<b>Element Code:</b> AMACC10010	
pallid bat			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G4
	<b>State:</b> None		<b>State:</b> S3
<b>Other:</b>	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive, WBWG_H-High Priority		
<b>Habitat:</b>	<b>General:</b>	DESERTS, GRASSLANDS, SHRUBLANDS, WOODLANDS AND FORESTS. MOST COMMON IN OPEN, DRY HABITATS WITH ROCKY AREAS FOR ROOSTING.	
	<b>Micro:</b>	ROOSTS MUST PROTECT BATS FROM HIGH TEMPERATURES. VERY SENSITIVE TO DISTURBANCE OF ROOSTING SITES.	

<b>Occurrence No.</b>	120	<b>Map Index:</b>	66469	<b>EO Index:</b>	66574	<b>Element Last Seen:</b>	1997-06-16
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		1997-06-16	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2006-09-28	

<b>Quad Summary:</b>	Laws (3711843)						
<b>County Summary:</b>	Inyo						
<b>Lat/Long:</b>	37.41201 / -118.32236		<b>Accuracy:</b>	non-specific area			
<b>UTM:</b>	Zone-11 N4141400 E382976		<b>Elevation (ft):</b>	4430			
<b>PLSS:</b>	T06S, R33E, Sec. 23 (M)		<b>Acres:</b>	642.0			
<b>Location:</b>	EAST OF OWENS VALLEY, ABOUT 1.6 MI ENE OF LAWS ON SILVER CANYON RD.						
<b>Detailed Location:</b>	MAPPED IN SECTION 23 AS GIVEN IN SOURCE. NEED BETTER LOCATION INFORMATION.						
<b>Ecological:</b>	DESERT SCRUB, NEAR STREAM. NIGHT ROOST IN ABANDONED BUILDING.						
<b>General:</b>	APPROX. 20 DETECTED IN ROOST 16 JUN 1997.						
<b>Owner/Manager:</b>	UNKNOWN						

<b>Occurrence No.</b>	211	<b>Map Index:</b>	01555	<b>EO Index:</b>	66674	<b>Element Last Seen:</b>	1974-05-23
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		1974-05-23	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2006-10-03	

<b>Quad Summary:</b>	Fish Slough (3711844), Chidago Canyon (3711854)						
<b>County Summary:</b>	Mono						
<b>Lat/Long:</b>	37.51158 / -118.40235		<b>Accuracy:</b>	1 mile			
<b>UTM:</b>	Zone-11 N4152550 E376061		<b>Elevation (ft):</b>	4390			
<b>PLSS:</b>	T05S, R33E, Sec. 18 (M)		<b>Acres:</b>	0.0			
<b>Location:</b>	10.5 MI NORTH OF BISHOP, NEAR FISH SLOUGH.						
<b>Detailed Location:</b>	MAPPED ACCORDING TO DIRECTIONS WHICH PUTS THE SITE AT NORTH END OF FISH SLOUGH.						
<b>Ecological:</b>							
<b>General:</b>	1 FEMALE AND 1 MALE SPECIMEN COLLECTED BY D.R. PATTEN, LACM #44435 AND 44436, RESPECTIVELY.						
<b>Owner/Manager:</b>	LADWP, BLM						



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<b><i>Lepus townsendii townsendii</i></b>		<b>Element Code:</b> AMAEB03041	
western white-tailed jackrabbit			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G5T5
	<b>State:</b> None		<b>State:</b> S3?
	<b>Other:</b> CDFW_SSC-Species of Special Concern		
<b>Habitat:</b>	<b>General:</b> SAGEBRUSH, SUBALPINE CONIFER, JUNIPER, ALPINE DWARF SHRUB & PERENNIAL GRASSLAND.		
	<b>Micro:</b> OPEN AREAS WITH SCATTERED SHRUBS & EXPOSED FLAT-TOPPED HILLS WITH OPEN STANDS OF TREES, BRUSH & HERBACEOUS UNDERSTORY.		

<b>Occurrence No.</b>	3	<b>Map Index:</b> 01608	<b>EO Index:</b> 58797	<b>Element Last Seen:</b>	1916-10-06
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>	1916-10-06
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>	2004-12-21

**Quad Summary:** Poleta Canyon (3711833), Bishop (3711834), Laws (3711843), Fish Slough (3711844)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.38075 / -118.39067	<b>Accuracy:</b>	1 mile
<b>UTM:</b>	Zone-11 N4138018 E376880	<b>Elevation (ft):</b>	4140
<b>PLSS:</b>	T06S, R33E, Sec. 31 (M)	<b>Acres:</b>	0.0

**Location:** JUST NORTH OF BISHOP.  
**Detailed Location:**  
**Ecological:**  
**General:** ONE SPECIMEN COLLECTED 6 OCT 1916 BY A. JACKSON AT "ABOVE BISHOP." DEPOSITED AT LACM #241.  
**Owner/Manager:** LADWP

<b><i>Microtus californicus vallicola</i></b>		<b>Element Code:</b> AMAFF11033	
Owens Valley vole			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G5T3
	<b>State:</b> None		<b>State:</b> S3
	<b>Other:</b> BLM_S-Sensitive, CDFW_SSC-Species of Special Concern		
<b>Habitat:</b>	<b>General:</b> FOUND IN WETLANDS AND LUSH GRASSY GROUND IN THE OWENS VALLEY.		
	<b>Micro:</b> NEEDS FRIABLE SOIL FOR BURROWING. EATS GRASSES, SEDGES AND HERBS. CLIPS GRASS TO MAKE RUNWAYS LEADING FROM BURROWS.		

<b>Occurrence No.</b>	3	<b>Map Index:</b> 01749	<b>EO Index:</b> 49879	<b>Element Last Seen:</b>	1917-07-10
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>	1917-07-10
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>	2003-01-13

**Quad Summary:** Laws (3711843)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.39707 / -118.35478	<b>Accuracy:</b>	1 mile
<b>UTM:</b>	Zone-11 N4139783 E380083	<b>Elevation (ft):</b>	4100
<b>PLSS:</b>	T06S, R33E, Sec. 28 (M)	<b>Acres:</b>	0.0

**Location:** FARMINGTON (FARRINGTON?) RANCH, LAWS.  
**Detailed Location:**  
**Ecological:**  
**General:** MVZ #26380-84 COLLECTED 6-10 JUL 1917 BY HALSTEAD WHITE.  
**Owner/Manager:** UNKNOWN



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<b>Occurrence No.</b>	5	<b>Map Index:</b> 01841	<b>EO Index:</b> 23793	<b>Element Last Seen:</b>	1957-05-04
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1957-05-04
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	1989-08-10
<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.40548 / -118.31066		<b>Accuracy:</b>	1 mile	
<b>UTM:</b>	Zone-11 N4140661 E384002		<b>Elevation (ft):</b>	4600	
<b>PLSS:</b>	T06S, R33E, Sec. 24, SW (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	MOUTH OF SILVER CANYON, 5 MI E LAWS, WHITE MTS.				
<b>Detailed Location:</b>	FROM SILVER CYN, 5 MI ENE BISHOP.				
<b>Ecological:</b>					
<b>General:</b>	MVZ #26385-87 COLLECTED 21 - 23 AUG 1917. AND #121521 COLLECTED 4 MAY 1957.				
<b>Owner/Manager:</b>	UNKNOWN				
<b>Occurrence No.</b>	8	<b>Map Index:</b> 49880	<b>EO Index:</b> 49880	<b>Element Last Seen:</b>	1935-05-21
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1935-05-21
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2003-01-13
<b>Quad Summary:</b>	Poleta Canyon (3711833)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.36032 / -118.35401		<b>Accuracy:</b>	1 mile	
<b>UTM:</b>	Zone-11 N4135705 E380093		<b>Elevation (ft):</b>		
<b>PLSS:</b>	T07S, R33E, Sec. 09 (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	2 MILES EAST OF BISHOP.				
<b>Detailed Location:</b>	MAPPED IN THE VICINITY OF BISHOP CREEK BETWEEN BISHOP AND THE OWENS RIVER.				
<b>Ecological:</b>					
<b>General:</b>	MVZ #66622 COLLECTED 21 MAY 1935 BY EMMET HOOPER. INCLUDES A MARGINAL RECORD REPORTED IN HALL 1981 ONLY AS BISHOP CREEK.				
<b>Owner/Manager:</b>	UNKNOWN				
<b>Occurrence No.</b>	16	<b>Map Index:</b> 21917	<b>EO Index:</b> 66962	<b>Element Last Seen:</b>	XXXX-XX-XX
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	XXXX-XX-XX
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2006-10-23
<b>Quad Summary:</b>	Fish Slough (3711844), Rovana (3711845)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.40166 / -118.52469		<b>Accuracy:</b>	non-specific area	
<b>UTM:</b>	Zone-11 N4140522 E365051		<b>Elevation (ft):</b>	4350	
<b>PLSS:</b>	T06S, R31E, Sec. 25 (M)		<b>Acres:</b>	293.0	
<b>Location:</b>	PLEASANT VALLEY IN THE OWENS VALLEY.				
<b>Detailed Location:</b>					
<b>Ecological:</b>					
<b>General:</b>	INFORMATION TAKEN FROM "OWENS BASIN WETLAND AND AQUATIC SPECIES RECOVERY PLAN." NO OTHER INFORMATION GIVEN.				
<b>Owner/Manager:</b>	LADWP				



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<b><i>Vulpes vulpes necator</i></b>		<b>Element Code:</b> AMAJA03012	
Sierra Nevada red fox			
<b>Listing Status:</b>	<b>Federal:</b> Proposed Endangered	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G5T1T2
	<b>State:</b> Threatened		<b>State:</b> S1
	<b>Other:</b> USFS_S-Sensitive		
<b>Habitat:</b>	<b>General:</b> HISTORICALLY FOUND FROM THE CASCADES DOWN TO THE SIERRA NEVADA. FOUND IN A VARIETY OF HABITATS FROM WET MEADOWS TO FORESTED AREAS.		
	<b>Micro:</b> USE DENSE VEGETATION AND ROCKY AREAS FOR COVER AND DEN SITES. PREFER FORESTS INTERSPERSED WITH MEADOWS OR ALPINE FELL-FIELDS.		

<b>Occurrence No.</b>	187	<b>Map Index:</b>	27957	<b>EO Index:</b>	78307	<b>Element Last Seen:</b>	192X-XX-XX
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		192X-XX-XX	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>	2013-09-06		

**Quad Summary:** Bishop (3711834), Fish Slough (3711844)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.36463 / -118.39521	<b>Accuracy:</b>	1 mile
<b>UTM:</b>	Zone-11 N4136236 E376451	<b>Elevation (ft):</b>	4150
<b>PLSS:</b>	T07S, R33E, Sec. 06 (M)	<b>Acres:</b>	0.0

**Location:** VICINITY OF BISHOP, INYO COUNTY.  
**Detailed Location:** LOCATION DESCRIBED AS "BISHOP, INYO COUNTY." MAPPED TO THE VICINITY OF BISHOP.  
**Ecological:** THIS IS LOWER IN ELEVATION THAN EXPECTED; LIKELY COLLECTED FROM NEARBY MOUNTAINS. DNA ANALYSIS MUST BE DONE ORDER TO CONCLUSIVELY DETERMINE IF A RED FOX FOUND IN THE SIERRA NEVADA REGION IS VULPES VULPES NECATOR OR AN INTRODUCED SUBSPECIES.  
**General:** 1 CROSS-PHASE TRAPPED BY C.R. ADAMS IN WINTER 1922-23.  
**Owner/Manager:** UNKNOWN

<b><i>Elgaria panamintina</i></b>		<b>Element Code:</b> ARACB01050	
Panamint alligator lizard			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G3
	<b>State:</b> None		<b>State:</b> S3
	<b>Other:</b> BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_VU-Vulnerable, USFS_S-Sensitive		
<b>Habitat:</b>	<b>General:</b> FOUND IN THE WHITE AND INYO MOUNTAINS TO THE NORTH AND WEST, AND THE PANAMINT MOUNTAINS TO THE SOUTH AND EAST; 2800-6800 FT ELEV.		
	<b>Micro:</b> INHABITS AREAS NEAR PERMANENT WATER, IN CANYONS, DAMP GULLIES, AND ROCKY AREAS NEAR DENSE VEGETATION.		





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<b>Occurrence No.</b>	11	<b>Map Index:</b> 21231	<b>EO Index:</b> 8952	<b>Element Last Seen:</b>	1992-04-10
<b>Occ. Rank:</b>	Excellent		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1992-04-10
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	1992-05-19
<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.44961 / -118.30520		<b>Accuracy:</b>	80 meters	
<b>UTM:</b>	Zone-11 N4145550 E384553		<b>Elevation (ft):</b>	5000	
<b>PLSS:</b>	T06S, R33E, Sec. 01, S (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	JUST BELOW THE JUNCTION OF GUNTER CANYON AND AN UNNAMED CANYON TO THE SOUTH, ON A WEST-FACING SLOPE OF THE WHITE MTNS.				
<b>Detailed Location:</b>					
<b>Ecological:</b>	HABITAT CONSISTS OF A SHALE OUTCROP WITH A SPARSE COVER OF EPHEDRA NEVADENSIS, SARCOBATUS VERMICULATUS, ATRIPLEX CONFERTIFOLIA, PSOROTHAMNUS ARBORESCENS VAR. MINUTIFOLIUS, AND STIPA SPECIOSA.				
<b>General:</b>	ONE ADULT OBSERVED. LOCAL MINING (ALTHOUGH NOT CURRENT) IN THE SURROUNDING AREA.				
<b>Owner/Manager:</b>	USFS-INYO NF				
<b>Occurrence No.</b>	13	<b>Map Index:</b> 50380	<b>EO Index:</b> 50380	<b>Element Last Seen:</b>	2015-05-31
<b>Occ. Rank:</b>	Excellent		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2015-05-31
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2017-01-19
<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.40621 / -118.26949		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4140692 E387647		<b>Elevation (ft):</b>	5491	
<b>PLSS:</b>	T06S, R34E, Sec. 20, S (M)		<b>Acres:</b>	26.0	
<b>Location:</b>	SILVER CANYON, ABOUT 2.0 MILES SE OF WHITE GULL PIT AND 7.5 MILES ENE OF BISHOP, IN THE WHITE MOUNTAINS.				
<b>Detailed Location:</b>	MAPPED TO PROVIDED COORDINATES. 2006 COLLECTION LOCATION ALSO DESCRIBED AS "SILVER CREEK CANYON, 5.0 MILES EAST (BY ROAD) OF HIGHWAY 6 AT LAWS." 2003 LOCATION DESCRIBED AS "JUST ABOVE 6TH ROAD CROSSING OF THE CREEK."				
<b>Ecological:</b>	2002: CANYON BOTTOM, NEAR WATER, AMONG LARGE & SMALL TALUS; VEGETATED BY WILLOWS; ROADWAY NEARBY. 2003: PITFALL TRAPS SET AT BASE OF SLOPE & RIPARIAN EDGE. 2015: DENSE THICKETS OF ARROYO WILLOW AT EDGE OF ROAD ALONG CREEK IN ROCKY CANYON.				
<b>General:</b>	3 CAPTURED APR 2002, TISSUE SAMPLES TAKEN (SDSU #7870, 7846, 7848); 2 CAPTIVE AT SAN DIEGO ZOO, 1 RELEASED. 5 JUVENILES TRAPPED & RELEASED IN 2003. 1 COLLECTED 18 JUN 2006. 1 OBSERVED 20 APR 2013. 2 ADULTS OBS BASKING/FORAGING, 31 MAY 2015.				
<b>Owner/Manager:</b>	USFS-INYO NF				



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<b>Occurrence No.</b>	26	<b>Map Index:</b> B2214	<b>EO Index:</b> 114140	<b>Element Last Seen:</b>	2017-06-19
<b>Occ. Rank:</b>	Excellent		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2017-06-19
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2019-02-04
<b>Quad Summary:</b>	Poleta Canyon (3711833)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.3485 / -118.27419		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4134295 E387145		<b>Elevation (ft):</b>	5186	
<b>PLSS:</b>	T07S, R34E, Sec. 8, S (M)		<b>Acres:</b>	12.0	
<b>Location:</b>	REDDING CANYON, ABOUT 0.8 MILES SSE OF POLETA MINE AND 2.2 MILES E OF REDDING CANYON RD AT EASTSIDE RD, WHITE MOUNTAINS.				
<b>Detailed Location:</b>	MAPPED TO INCLUDE POINT FROM NRIS DATASET (2005 DETECTION), COORDINATES PROVIDED FOR 2017 DETECTION AND ADDITIONAL 2017 DETECTION LOCATIONS (180M DUE WEST OF GIVEN COORDINATES).				
<b>Ecological:</b>	2017: LIZARDS FOUND PERCHED IN BRANCHES OF WILLOW & CLEMATIS THICKET; AND IN STICKY TRAP DEPLOYED IN SAME HABITAT. DENSE RIPARIAN HABITAT IN BOTTOM OF RUGGED, ROCKY CANYON WITH EXTENSIVE TALUS PILES, WELL BELOW PINYON-JUNIPER BELT.				
<b>General:</b>	1 OBSERVED ON 1 JAN 2005. 2 ADULTS OBSERVED SIT-AND-WAIT HUNTING IN BRANCHES OF THICKET THE NIGHT OF 18-19 JUN 2017; A THIRD WAS CAUGHT IN A STICKY TRAP; ALL 3 LIZARDS WERE CAUGHT AND RELEASED (TISSUE SAMPLES AT LACM).				
<b>Owner/Manager:</b>	USFS-INYO NF				
<b>Occurrence No.</b>	27	<b>Map Index:</b> B2279	<b>EO Index:</b> 114203	<b>Element Last Seen:</b>	2017-06-21
<b>Occ. Rank:</b>	Excellent		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2017-06-21
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2019-02-08
<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Mono				
<b>Lat/Long:</b>	37.47626 / -118.31158		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4148516 E384030		<b>Elevation (ft):</b>	5153	
<b>PLSS:</b>	T05S, R33E, Sec. 36, NW (M)		<b>Acres:</b>	36.0	
<b>Location:</b>	COLDWATER CANYON, ABOUT 1.0 MI NNE OF SOUTHERN BELLE MINE & 2.3 MI ENE OF US HWY 6 AT PUMICE MILL RD, WHITE MTS.				
<b>Detailed Location:</b>	MAPPED CENTERED ON COORDINATES PROVIDED FOR LIZARD COLLECTED ON 16 JUN 2017; OTHER DETECTIONS WERE IN DRAINAGE, WITHIN 0.4 KILOMETERS.				
<b>Ecological:</b>	LIZARDS WERE DETECTED HUNTING AT NIGHT, ON SALIX LASIOLEPIS TWIGS, ROCKS, OR ON THE GROUND AT THE EDGE OF THE WILLOW RIPARIAN ZONE, SURROUNDED BY EXTENSIVE TALUS ON CANYON SLOPES. FAINT TRAIL PARALLELED RIPARIAN ZONE.				
<b>General:</b>	1 ADULT MALE WAS COLLECTED ON 16 JUN 2017. 1 FEMALE CAUGHT & RELEASED ON 16 JUN, 1 MALE & 1 FEMALE ON 17 JUN, & 1 MALE ON 21 JUN 2017 (TISSUE SAMPLES TAKEN).				
<b>Owner/Manager:</b>	BLM, USFS-INYO NF				



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<b>Alkali Meadow</b>		<b>Element Code:</b> CTT45310CA	
Alkali Meadow			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G3
	<b>State:</b> None		<b>State:</b> S2.1
	<b>Other:</b>		
<b>Habitat:</b>	<b>General:</b> <input type="checkbox"/>		
	<b>Micro:</b> <input type="checkbox"/>		

<b>Occurrence No.</b>	8	<b>Map Index:</b>	17119	<b>EO Index:</b>	12905	<b>Element Last Seen:</b>	1985-05-30
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		1985-05-30	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		1998-07-15	

**Quad Summary:** Bishop (3711834)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.36298 / -118.41180	<b>Accuracy:</b>	non-specific area
<b>UTM:</b>	Zone-11 N4136075 E374980	<b>Elevation (ft):</b>	4160
<b>PLSS:</b>	T07S, R32E, Sec. 01, SE (M)	<b>Acres:</b>	14.0

**Location:** NORTH OF LAKE SABRINA ROAD BETWEEN SEE VEE LANE & NORTHERN INYO HOSPITAL, SHOSHONE INDIAN RESERVATION, WEST OF BISHOP.

**Detailed Location:** MAPPED ACCORDING TO SIDALCEA COVILLEI DISTRIBUTION, ACTUAL MEADOW BOUNDARY MAY BE DIFFERENT.

**Ecological:** DISTICHLIS SPICATA, JUNCUS BALTICUS, ELYMUS TRITICOIDES, E. CINEREUS, IRIS SP, SIDALCEA COVILLEI, CAREX SP, GLYCYRRHIZA LEPIDOTA, CALOCHORTUS EXCAVATUS, AND POA SP PRESENT. ALSO SOME WOODY VEG INCLUDING CHRYSOTHAMNUS NAUSEOSUS AND ROSA SP.

**General:** SEE [WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL\\_COMM\\_BACKGROUND.ASP](http://WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP) TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

**Owner/Manager:** BIA-SHOSHONE RES



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<b><i>Transmontane Alkali Marsh</i></b>		<b>Element Code:</b> CTT52320CA	
Transmontane Alkali Marsh			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDB Element Ranks:</b>	<b>Global:</b> G3
	<b>State:</b> None		<b>State:</b> S2.1
	<b>Other:</b>		
<b>Habitat:</b>	<b>General:</b> <input type="checkbox"/>		
	<b>Micro:</b> <input type="checkbox"/>		

<b>Occurrence No.</b>	3	<b>Map Index:</b>	01531	<b>EO Index:</b>	12509	<b>Element Last Seen:</b>	1983-04-27
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		1983-04-27	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		1998-07-20	
<b>Quad Summary:</b>	Fish Slough (3711844), Chidago Canyon (3711854)						
<b>County Summary:</b>	Inyo, Mono						
<b>Lat/Long:</b>	37.48676 / -118.40624		<b>Accuracy:</b>	specific area			
<b>UTM:</b>	Zone-11 N4149801 E375676		<b>Elevation (ft):</b>	4200			
<b>PLSS:</b>	T05S, R32E, Sec. 25, NE (M)		<b>Acres:</b>	1402.1			
<b>Location:</b>	FISH SLOUGH, NORTH OF BISHOP.						
<b>Detailed Location:</b>							
<b>Ecological:</b>	SCIRPUS SP, TYPHA SP, DISTICHLIS SPICATA, JUNCUS SP, CAREX SP, ETC.						
<b>General:</b>	SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.						
<b>Owner/Manager:</b>	DFG, BLM, LADWP, PVT						

<b><i>Bombus morrisoni</i></b>		<b>Element Code:</b> IIHYM24460	
Morrison bumble bee			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDB Element Ranks:</b>	<b>Global:</b> G4G5
	<b>State:</b> None		<b>State:</b> S1S2
	<b>Other:</b> IUCN_VU-Vulnerable		
<b>Habitat:</b>	<b>General:</b> FROM THE SIERRA-CASCADE RANGES EASTWARD ACROSS THE INTERMOUNTAIN WEST.		
	<b>Micro:</b> FOOD PLANT GENERA INCLUDE CIRSIUM, CLEOME, HELIANTHUS, LUPINUS, CHRYSOTHAMNUS, AND MELILOTUS.		

<b>Occurrence No.</b>	40	<b>Map Index:</b>	27957	<b>EO Index:</b>	98360	<b>Element Last Seen:</b>	1940-07-28
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		1940-07-28	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2015-08-04	
<b>Quad Summary:</b>	Bishop (3711834), Fish Slough (3711844)						
<b>County Summary:</b>	Inyo						
<b>Lat/Long:</b>	37.36463 / -118.39521		<b>Accuracy:</b>	1 mile			
<b>UTM:</b>	Zone-11 N4136236 E376451		<b>Elevation (ft):</b>	4100			
<b>PLSS:</b>	T07S, R33E, Sec. 06 (M)		<b>Acres:</b>	0.0			
<b>Location:</b>	BISHOP.						
<b>Detailed Location:</b>	EXACT LOCATION UNKNOWN. MAPPED BY CNDDB IN THE GENERAL VICINITY OF BISHOP.						
<b>Ecological:</b>							
<b>General:</b>	COLLECTED IN THIS VICINITY ON 28 JUL 1940.						
<b>Owner/Manager:</b>	UNKNOWN						



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<b>Anodonta californiensis</b>		<b>Element Code:</b> IMBIV04220	
California floater			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G3Q
	<b>State:</b> None		<b>State:</b> S2?
	<b>Other:</b> USFS_S-Sensitive		
<b>Habitat:</b>	<b>General:</b> FRESHWATER LAKES AND SLOW-MOVING STREAMS AND RIVERS. TAXONOMY UNDER REVIEW BY SPECIALISTS.		
	<b>Micro:</b> GENERALLY IN SHALLOW WATER.		

<b>Occurrence No.</b>	2	<b>Map Index:</b> 53000	<b>EO Index:</b> 53000	<b>Element Last Seen:</b> 2000-XX-XX
<b>Occ. Rank:</b>	Poor	<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 2000-XX-XX	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2003-10-21	

**Quad Summary:** Fish Slough (3711844)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.40095 / -118.42598	<b>Accuracy:</b>	non-specific area
<b>UTM:</b>	Zone-11 N4140307 E373787	<b>Elevation (ft):</b>	4200
<b>PLSS:</b>	T06S, R32E, Sec. 26 (M)	<b>Acres:</b>	238.1

**Location:** OWENS RIVER AT BISHOP CREEK CANAL AND BISHOP CREEK CANAL FROM THE OWENS RIVER TO DIXON LANE. NORTH OF BISHOP.  
**Detailed Location:**  
**Ecological:** IN OWENS RIVER THE MUSSELS ARE FOUND ALONG BANKS IN THE SHALLOWS MAINLY IN SAND/SILT SUBSTRATE.  
**General:** FEWER THAN 100 ADULTS OBSERVED IN 1999. AREA RECHECKED BETWEEN APRIL & THE FALL OF 2000.  
**Owner/Manager:** LADWP

<b>Pyrgulopsis owensensis</b>		<b>Element Code:</b> IMGASJ0280	
Owens Valley springsnail			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G1G2
	<b>State:</b> None		<b>State:</b> S1S2
	<b>Other:</b> USFS_S-Sensitive		
<b>Habitat:</b>	<b>General:</b> FOUND ALONG ESCARPMENTS OF WHITE AND INYO MOUNTAINS ON THE EAST SIDE OF THE OWENS VALLEY.		
	<b>Micro:</b> LIVES IN SMALL SPRINGBROOKS WHERE SNAILS ARE TYPICALLY COMMON IN WATERCRESS AND/OR ON BITS OF TRAVERTINE AND STONE.		



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<b>Occurrence No.</b>	6	<b>Map Index:</b> 21896	<b>EO Index:</b> 13422	<b>Element Last Seen:</b> 1998-07-09
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1998-07-09
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2005-04-05

**Quad Summary:** Poleta Canyon (3711833)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.26655 / -118.27232	<b>Accuracy:</b>	80 meters
<b>UTM:</b>	Zone-11 N4125200 E387187	<b>Elevation (ft):</b>	1230
<b>PLSS:</b>	T08S, R34E, Sec. 08, SW (M)	<b>Acres:</b>	0.0

**Location:** WARM SPRINGS, 1.5 MILES SOUTH OF THE MOUTH OF BLACK CANYON, IN THE WHITE MOUNTAINS, ON THE EAST SIDE OF OWENS VALLEY.  
**Detailed Location:** THERMAL SPRING AND STREAM, TERMINATES IN FENCED OWENS PUPFISH SANCTUARY. SPRING SEEP WITH WATERCRESS.  
**Ecological:** HABITAT IS UPFLOW RHEOCRENE, WITH OUTFLOWS TRUNCATED BY AN ARTIFICIAL POOL; ALSO SMALLER, HIGHLY-DISTURBED SPRING TO THE NORTH.  
**General:** USNM #853544, COLLECTED 7 FEB 1985; #857988, 19 APR 1987 (MAIN SPRING). USNM#853545, COLLECTED 7 FEB 1985; #857989, 19 APR 1987 (SMALL SPRING NORTH OF MAIN SPRING). ABUNDANT AT MAIN SPRING, 1998; COMMON TO ABUNDANT IN OTHER SPRING CHANNELS.  
**Owner/Manager:** LADWP, DFG

<b>Occurrence No.</b>	7	<b>Map Index:</b> 21898	<b>EO Index:</b> 16357	<b>Element Last Seen:</b> 1987-04-22
<b>Occ. Rank:</b>	Fair		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1987-04-22
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 1996-09-09

**Quad Summary:** Laws (3711843)  
**County Summary:** Mono

<b>Lat/Long:</b>	37.49375 / -118.33372	<b>Accuracy:</b>	1/5 mile
<b>UTM:</b>	Zone-11 N4150483 E382100	<b>Elevation (ft):</b>	1380
<b>PLSS:</b>	T05S, R33E, Sec. 22, SE (M)	<b>Acres:</b>	0.0

**Location:** SPRINGS ON BENCH OF PAIUTE CREEK, 1.25 MILES NNW OF THE MOUTH OF COLDWATER CANYON, IN THE WHITE MOUNTAINS.  
**Detailed Location:** TWO SPRINGS ON BENCH, SOUTH OF PIUTE CREEK (NORTH AND SOUTH SPRINGS).  
**Ecological:** SNAILS INHABIT TRAVERTINE AND GRASS OF SEVERAL SMALL, CLOSELY-SPACED SPRINGS.  
**General:** USNM #857986, COLLECTED 21 APRIL 1987, FROM THE NORTH SPRING, AND #857987, COLLECTED 22 APRIL 1987, FROM THE SOUTH SPRING. LOCATED JUST UPHILL FROM A HOUSING DEVELOPMENT.  
**Owner/Manager:** BLM



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<b>Occurrence No.</b>	8	<b>Map Index:</b> 21897	<b>EO Index:</b> 16361	<b>Element Last Seen:</b> 1998-05-08
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1998-05-08
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2005-01-25

**Quad Summary:** Laws (3711843), Chalfant Valley (3711853)

**County Summary:** Mono

<b>Lat/Long:</b>	37.50039 / -118.31940	<b>Accuracy:</b>	1/5 mile
<b>UTM:</b>	Zone-11 N4151202 E383376	<b>Elevation (ft):</b>	5040
<b>PLSS:</b>	T05S, R33E, Sec. 23, SE (M)	<b>Acres:</b>	0.0

**Location:** STREAM IN CANYON SOUTH OF PAIUTE CREEK, 3 MILES SE OF CHALFANT VALLEY, IN THE WHITE MOUNTAINS.

**Detailed Location:** WATERCRESS SPRING STREAM. ALSO RECORDED FROM SPRING.

**Ecological:** SNAILS ARE COMMON IN SILTED MINT(?) MAT OF A SMALL, SWIFT STREAM IN THE CANYON FLOOR.

**General:** USNM #860404 (HOLOTYPE) AND #857955 (PARATYPES) COLLECTED 8 MAY 1987.

**Owner/Manager:** BLM

<b>Occurrence No.</b>	10	<b>Map Index:</b> 59602	<b>EO Index:</b> 59638	<b>Element Last Seen:</b> 1998-05-08
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1998-05-08
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2005-01-25

**Quad Summary:** Laws (3711843)

**County Summary:** Mono

<b>Lat/Long:</b>	37.48998 / -118.33153	<b>Accuracy:</b>	1/10 mile
<b>UTM:</b>	Zone-11 N4150062 E382287	<b>Elevation (ft):</b>	4590
<b>PLSS:</b>	T05S, R33E, Sec. 27, NE (M)	<b>Acres:</b>	0.0

**Location:** BEHIND WHITE MOUNTAIN ESTATES. ABOUT 3.8 AIR MILES SE OF CHALFANT VALLEY.

**Detailed Location:** SNAILS FOUND NEAR THE BEGINNING OF THE ACCESSIBLE PORTION OF THE CULVERT LEADING TO THE PRIVATE RESIDENCE (I.E. DITCHLINE) TO APPROXIMATELY 150 FT DOWNSTREAM.

**Ecological:** ASSOCIATED WITH CALCAREOUS NODULES AND ROOTS OF WATER PARSNIP AND GRASSES.

**General:** UNKNOWN NUMBER OBSERVED.

**Owner/Manager:** UNKNOWN



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<b><i>Pyrgulopsis perturbata</i></b>		<b>Element Code:</b> IMGASJ0290	
Fish Slough springsnail			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G1
	<b>State:</b> None		<b>State:</b> S1
	<b>Other:</b>		
<b>Habitat:</b>	<b>General:</b> FOUND IN THREE OF THE FOUR MAIN SPRINGS IN FISH SLOUGH.		
	<b>Micro:</b> FOUND ONLY IN SMALL VESTIGES OF RHEOCRENE HABITAT AT SMALL ORIFICES IN NW SPRINGS AND AT START OF OUTFLOW OF NE SPRINGS.		

<b>Occurrence No.</b>	3	<b>Map Index:</b> 01550	<b>EO Index:</b> 18072	<b>Element Last Seen:</b> 1998-06-24
<b>Occ. Rank:</b>	Poor	<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1998-06-24	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2012-02-07	

**Quad Summary:** Fish Slough (3711844)  
**County Summary:** Mono

<b>Lat/Long:</b>	37.47991 / -118.40264	<b>Accuracy:</b>	non-specific area
<b>UTM:</b>	Zone-11 N4149036 E375983	<b>Elevation (ft):</b>	1290
<b>PLSS:</b>	T05S, R33E, Sec. 30, SW (M)	<b>Acres:</b>	3.3

**Location:** BLM SPRING, FISH SLOUGH, NORTH OF BISHOP.  
**Detailed Location:** SNAILS OBSERVED IN 1998 WERE FOUND ATTACHED TO GRAVELS WITHIN THE UPSTREAM-MOST DAM.  
**Ecological:** HABITAT CONSISTS OF A FENCE-LINED IMPOUNDMENT, WITH TWO DAMS BELOW THE SPRINGHEAD. IMPOUNDMENT CREATED AS REFUGE FOR OWENS PUFFISH.  
**General:** USNM 853549 COLLECTED 7 FEB 1985. 1987 SAMPLING INCLUDED UNDERWATER SEARCH OF ALL POSSIBLE MICROHABITATS IN THE SPRING; NO SNAILS FOUND & THOUGHT EXTIRPATED. FEW SNAILS FOUND IN 1998, NONE WERE FOUND AROUND THE UPSTREAM DAM BOARD.  
**Owner/Manager:** BLM

<b><i>Crepis runcinata</i></b>		<b>Element Code:</b> PDAST2R0K0	
fiddleleaf hawksbeard			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G5
	<b>State:</b> None		<b>State:</b> S3
	<b>Other:</b> Rare Plant Rank - 2B.2		
<b>Habitat:</b>	<b>General:</b> MOJAVEAN DESERT SCRUB, PINYON AND JUNIPER WOODLAND.		
	<b>Micro:</b> MOIST, ALKALINE VALLEY BOTTOMS. 380-3110 M.		





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<b>Occurrence No.</b>	3	<b>Map Index:</b> 27957	<b>EO Index:</b> 29118	<b>Element Last Seen:</b> 1927-06-17
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1927-06-17
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2010-08-02

**Quad Summary:** Bishop (3711834), Fish Slough (3711844)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.36463 / -118.39521	<b>Accuracy:</b>	1 mile
<b>UTM:</b>	Zone-11 N4136236 E376451	<b>Elevation (ft):</b>	1250
<b>PLSS:</b>	T07S, R33E, Sec. 06 (M)	<b>Acres:</b>	0.0

**Location:** BISHOP, MOJAVE DESERT.

**Detailed Location:** EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB AS BEST GUESS AROUND THE TOWN OF BISHOP.

**Ecological:**

**General:** SITE BASED ON A 1911 DAVIDSON COLLECTION AND A 1927 JONES COLLECTION FROM "BISHOP" AND "NEAR BISHOP". NEEDS FIELDWORK. IF SUBSPECIES ARE RECOGNIZED, THIS WOULD BE C. RUNCINATA SSP. HALLII.

**Owner/Manager:** UNKNOWN

<b>Occurrence No.</b>	4	<b>Map Index:</b> 27956	<b>EO Index:</b> 29146	<b>Element Last Seen:</b> 1976-07-15
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1976-07-15
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2010-08-02

**Quad Summary:** Fish Slough (3711844)

**County Summary:** Mono

<b>Lat/Long:</b>	37.48059 / -118.40335	<b>Accuracy:</b>	1/5 mile
<b>UTM:</b>	Zone-11 N4149112 E375922	<b>Elevation (ft):</b>	4200
<b>PLSS:</b>	T05S, R33E, Sec. 30, SW (M)	<b>Acres:</b>	0.0

**Location:** BLM SPRING AREA, EAST SIDE OF FISH SLOUGH, NW OF BISHOP.

**Detailed Location:** SITE MAPPED WITHIN THE SW 1/4 OF THE SW 1/4 OF SECTION 30.

**Ecological:** ALKALI SLOUGH. MOIST ALKALINE BANK WITH SALTGRASS.

**General:** SITE BASED ON TWO 1974 DEDECKER COLLECTIONS FROM "POND BELOW BLM SPRING" AND A 1976 DEDECKER COLLECTION FROM "BLM SPRING AREA". CNDDDB NEEDS BETTER LOCATION DATA. IF SUBSPECIES ARE RECOGNIZED, THIS WOULD BE C. RUNCINATA SSP. HALLII.

**Owner/Manager:** BLM



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<b>Occurrence No.</b>	6	<b>Map Index:</b> 27954	<b>EO Index:</b> 5888	<b>Element Last Seen:</b>	1978-06-02
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1978-06-02
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2010-08-03
<b>Quad Summary:</b>	Fish Slough (3711844), Rovana (3711845)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.39267 / -118.49825		<b>Accuracy:</b>	1/5 mile	
<b>UTM:</b>	Zone-11 N4139487 E367375		<b>Elevation (ft):</b>	4410	
<b>PLSS:</b>	T06S, R32E, Sec. 30, SE (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	PLEASANT VALLEY ROAD AT HORTON CREEK, NW OF BISHOP.				
<b>Detailed Location:</b>	MAPPED ABOUT 4 MILES WNW OF BISHOP ALONG HORTON CREEK AT PLEASANT VALLEY DAM ROAD. MAPPED TO ENCOMPASS A KNOWN SIDALCEA COVILLEI POPULATION WHICH WAS MENTIONED AS AN ASSOCIATE ON COLLECTION LABEL.				
<b>Ecological:</b>	WITH SIDALCEA COVILLEI IN A JUNCUS-SALTGRASS MEADOW.				
<b>General:</b>	ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1978 DEDECKER COLLECTION. IF SUBSPECIES ARE RECOGNIZED, THIS WOULD BE C. RUNCINATA SSP. HALLII.				
<b>Owner/Manager:</b>	LADWP				
<b>Occurrence No.</b>	14	<b>Map Index:</b> 79518	<b>EO Index:</b> 80491	<b>Element Last Seen:</b>	1917-06-04
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1917-06-04
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2010-08-03
<b>Quad Summary:</b>	Bishop (3711834)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.27960 / -118.38745		<b>Accuracy:</b>	3/5 mile	
<b>UTM:</b>	Zone-11 N4126793 E376999		<b>Elevation (ft):</b>		
<b>PLSS:</b>	T08S, R33E, Sec. 06 (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	GERKIN RANCH, SOUTH OF BISHOP.				
<b>Detailed Location:</b>	EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB AS BEST GUESS AROUND KNOWN SIDALCEA COVILLEI AND CALOCHORTUS EXCAVATUS OCCURRENCES IN VICINITY OF GERKIN ROAD; THESE TWO RARE SPECIES WERE ALSO COLLECTED ON GERKIN RANCH BY NORDYKE IN 1917.				
<b>Ecological:</b>					
<b>General:</b>	ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1917 NORDYKE COLLECTION. NEEDS FIELDWORK. IF SUBSPECIES ARE RECOGNIZED, THIS WOULD BE C. RUNCINATA SSP. HALLII.				
<b>Owner/Manager:</b>	UNKNOWN				



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<b>Occurrence No.</b>	15	<b>Map Index:</b>	79520	<b>EO Index:</b>	80492	<b>Element Last Seen:</b>	1991-08-28
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>	1991-08-28	<b>Record Last Updated:</b>	2010-08-03
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown				

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<b>Quad Summary:</b>	Fish Slough (3711844)						
<b>County Summary:</b>	Inyo						

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<b>Lat/Long:</b>	37.43320 / -118.40628	<b>Accuracy:</b>	non-specific area				
<b>UTM:</b>	Zone-11 N4143859 E375584	<b>Elevation (ft):</b>	4000				
<b>PLSS:</b>	T06S, R32E, Sec. 13, NE (M)	<b>Acres:</b>	67.0				

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<b>Location:</b>	1 MILE NORTH OF FIVE BRIDGES ROAD, FISH SLOUGH.						
<b>Detailed Location:</b>	LOCATION DESCRIPTION ALSO SAYS "NEAR THE MONO COUNTY LINE" BUT 1 MILE NORTH OF FIVE BRIDGES ROAD IS ABOUT 2 MILES SOUTH OF THE MONO/INYO COUNTY LINE. MAPPED BY CNDDDB AS BEST GUESS ~1 MILE N OF FIVE BRIDGES RD ALONG FISH SLOUGH.						
<b>Ecological:</b>	STREAM, DITCHES, PERMANENTLY AND TEMPORARILY SATURATED ALKALINE SOILS, ALKALINE MEADOWS, ASH FLATS, AND TUFFACEOUS UPLANDS. UPLANDS WITH ATRIPLEX, SARCOBATUS, EPHEDRA, CHRYSOTHAMNUS, TETRADYMIA, ETC.						
<b>General:</b>	ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1991 CHARLTON COLLECTION; MENTIONED AS "UNCOMMON IN DRY MEADOWS" IN 1991. IF SUBSPECIES ARE RECOGNIZED, THIS WOULD BE C. RUNCINATA SSP. HALLII.						
<b>Owner/Manager:</b>	UNKNOWN						

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<b><i>Plagiobothrys parishii</i></b>		<b>Element Code:</b> PDBOR0V0U0	
Parish's popcornflower			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G1
	<b>State:</b> None		<b>State:</b> S1
	<b>Other:</b> Rare Plant Rank - 1B.1, BLM_S-Sensitive, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, USFS_S-Sensitive		
<b>Habitat:</b>	<b>General:</b> GREAT BASIN SCRUB, JOSHUA TREE WOODLAND.		
	<b>Micro:</b> ALKALINE SOILS; MESIC SITES. 515-2210 M.		

<b>Occurrence No.</b>	7	<b>Map Index:</b> 55476	<b>EO Index:</b> 55476	<b>Element Last Seen:</b> 1913-05-XX
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1913-05-XX	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2004-05-12	

**Quad Summary:** Poleta Canyon (3711833), Bishop (3711834), Laws (3711843), Fish Slough (3711844)

**County Summary:** Inyo

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**Lat/Long:** 37.38801 / -118.37152      **Accuracy:** 1 mile

**UTM:** Zone-11 N4138800 E378587      **Elevation (ft):** 4100

**PLSS:** T06S, R33E, Sec. 32 (M)      **Acres:** 0.0

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**Location:** MEADOW BETWEEN BISHOP AND LAWS.

**Detailed Location:** EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB APPROXIMATELY 1.5 MILES NORTHEAST OF BISHOP AND 1.5 MILES SOUTHWEST OF LAWS.

**Ecological:** IN MEADOW.

**General:** UNKNOWN NUMBER OF PLANTS SEEN. PER THOMAS, TAXONOMIC IDENTITY QUESTIONABLE. NEEDS FIELDWORK.

**Owner/Manager:** UNKNOWN

<b>Occurrence No.</b>	8	<b>Map Index:</b> 55477	<b>EO Index:</b> 55477	<b>Element Last Seen:</b> 1978-05-22
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1978-05-22	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2010-08-10	

**Quad Summary:** Fish Slough (3711844)

**County Summary:** Inyo

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**Lat/Long:** 37.37587 / -118.45073      **Accuracy:** non-specific area

**UTM:** Zone-11 N4137558 E371554      **Elevation (ft):** 4300

**PLSS:** T07S, R32E, Sec. 03, N (M)      **Acres:** 71.2

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**Location:** HIGHWAY 395, 4.1 MILES NORTH OF THE JUNCTION WITH HIGHWAY 168, OWENS VALLEY.

**Detailed Location:** EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB ALONG HIGHWAY 395, 3.5-4.6 MILES NORTH OF HIGHWAY 168, NORTHWEST OF BISHOP.

**Ecological:** SALINE PLAYA.

**General:** UNKNOWN NUMBER OF PLANTS SEEN IN 1978 BY TAYLOR. NEEDS FIELDWORK.

**Owner/Manager:** UNKNOWN



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<b>Boechera dispar</b>		<b>Element Code:</b> PDBRA060F0	
pinyon rockcress			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G3
	<b>State:</b> None		<b>State:</b> S3
	<b>Other:</b> Rare Plant Rank - 2B.3, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden		
<b>Habitat:</b>	<b>General:</b> JOSHUA TREE WOODLAND, PINYON AND JUNIPER WOODLAND, MOJAVEAN DESERT SCRUB.		
	<b>Micro:</b> GRANITIC, GRAVELLY SLOPES & MESAS. OFTEN UNDER DESERT SHRUBS WHICH SUPPORT IT AS IT GROWS. 1005-2805 M.		

<b>Occurrence No.</b>	47	<b>Map Index:</b>	27957	<b>EO Index:</b>	78567	<b>Element Last Seen:</b>	1927-05-13
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		1927-05-13	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>	2009-12-21		

**Quad Summary:** Bishop (3711834), Fish Slough (3711844)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.36463 / -118.39521	<b>Accuracy:</b>	1 mile
<b>UTM:</b>	Zone-11 N4136236 E376451	<b>Elevation (ft):</b>	
<b>PLSS:</b>	T07S, R33E, Sec. 06 (M)	<b>Acres:</b>	0.0

**Location:** NEAR BISHOP.  
**Detailed Location:** EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB AS BEST GUESS IN VICINITY OF BISHOP.  
**Ecological:**  
**General:** ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1927 JONES COLLECTION. NEEDS FIELDWORK.  
**Owner/Manager:** UNKNOWN

<b>Occurrence No.</b>	48	<b>Map Index:</b>	77672	<b>EO Index:</b>	78568	<b>Element Last Seen:</b>	2006-06-02
<b>Occ. Rank:</b>	Fair	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>	2006-06-02		
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>	2019-06-17		

**Quad Summary:** Bishop (3711834)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.30566 / -118.48190	<b>Accuracy:</b>	specific area
<b>UTM:</b>	Zone-11 N4129811 E368672	<b>Elevation (ft):</b>	6800
<b>PLSS:</b>	T07S, R32E, Sec. 29, SE (M)	<b>Acres:</b>	9.0

**Location:** WEST OF CHIPMUNK MINE; COYOTE VALLEY ROAD, EAST SIDE OF COYOTE CREEK, SW OF BISHOP.  
**Detailed Location:** NON-SYSTEM ROAD PARALLEL TO COYOTE VALLEY ROAD.  
**Ecological:** ROCKY, GRANITIC SOIL (SCORIA/BASALT-RED). CHEATGRASS AND TANSY MUSTARD PRESENT. ASTRAGALUS INYOENSIS ALSO AT THIS SITE.  
**General:** 10 PLANTS SEEN IN 2006. INYO NF ARDI 011.  
**Owner/Manager:** USFS-INYO NF



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***Thelypodium integrifolium ssp. complanatum***

Element Code: PDBRA2N062

foxtail thelypodium

<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDB Element Ranks:</b>	<b>Global:</b> G5T4T5
	<b>State:</b> None		<b>State:</b> S2
	<b>Other:</b> Rare Plant Rank - 2B.2		
<b>Habitat:</b>	<b>General:</b> GREAT BASIN SCRUB, MEADOWS AND SEEPS.		
	<b>Micro:</b> ALKALINE OR SUBALKALINE SOILS; MESIC SITES. 1160-2440 M.		

<b>Occurrence No.</b>	5	<b>Map Index:</b> 53409	<b>EO Index:</b> 53409	<b>Element Last Seen:</b> 1985-08-25
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1985-08-25
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2010-11-09

**Quad Summary:** Laws (3711843)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.39625 / -118.31449	<b>Accuracy:</b>	1/5 mile
<b>UTM:</b>	Zone-11 N4139642 E383648	<b>Elevation (ft):</b>	4250
<b>PLSS:</b>	T06S, R33E, Sec. 26, SE (M)	<b>Acres:</b>	0.0

**Location:** AT THE SPRING 1 MILE SOUTH OF THE MOUTH OF SILVER CANYON, 1.5 MILES ESE OF LAWS, OWENS VALLEY DRAINAGE.

**Detailed Location:** EXACT LOCATION UNKNOWN; MAPPED AS BEST GUESS BY CNDDB IN THE VICINITY OF DRY LAKE SPRING.

**Ecological:** MOIST SOIL IN DESERT ALKALINE WETLAND WITH CHRYSOTHAMNUS, SPOROBOLUS, ROSA, ATRIPLEX, PHRAGMITES, AND SALIX.

**General:** ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1985 COLLECTION BY MOREFIELD.

**Owner/Manager:** LADWP

<b>Occurrence No.</b>	6	<b>Map Index:</b> 53411	<b>EO Index:</b> 53411	<b>Element Last Seen:</b> 1984-07-14
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1984-07-14
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2003-11-20

**Quad Summary:** Fish Slough (3711844), Chidago Canyon (3711854)

**County Summary:** Mono

<b>Lat/Long:</b>	37.50144 / -118.40118	<b>Accuracy:</b>	non-specific area
<b>UTM:</b>	Zone-11 N4151423 E376147	<b>Elevation (ft):</b>	
<b>PLSS:</b>	T05S, R33E, Sec. 19 (M)	<b>Acres:</b>	56.0

**Location:** FISH SLOUGH, 1.5 MILES SOUTH OF ROCKED-IN-SPRING ON EAST SIDE OF SLOUGH.

**Detailed Location:**

**Ecological:** ALKALI FLAT WITH ELYMUS CINEREUS, GLYCYRRHIZA LEPIDOTA, AND SPOROBOLUS AIROIDES.

**General:** 1983 COLLECTION BY FERREN FROM "FISH SLOUGH, 1.45 MILES NORTH OF BLM SPRING" ALSO ATTRIBUTED TO THIS SITE. PLANTS WERE DESCRIBED AS "COMMON" IN 1984.

**Owner/Manager:** LADWP



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<b><i>Grusonia pulchella</i></b>		<b>Element Code:</b> PDCAC0D120	
beautiful cholla			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G4
	<b>State:</b> None		<b>State:</b> S2
	<b>Other:</b> Rare Plant Rank - 2B.2		
<b>Habitat:</b>	<b>General:</b> DESERT DUNES, MOJAVEAN DESERT SCRUB, GREAT BASIN SCRUB.		
	<b>Micro:</b> SAND OF DUNES, DRY LAKE BORDERS, RIVER BOTTOMS, WASHES, VALLEYS AND SAGEBRUSH DESERT. 1500-2305 M.		

<b>Occurrence No.</b>	9	<b>Map Index:</b> 84223	<b>EO Index:</b> 85248	<b>Element Last Seen:</b> 2002-04-26
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 2002-04-26	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2011-11-09	
<b>Quad Summary:</b>	Laws (3711843)			
<b>County Summary:</b>	Inyo, Mono			
<b>Lat/Long:</b>	37.47702 / -118.30774		<b>Accuracy:</b> 1 mile	
<b>UTM:</b>	Zone-11 N4148595 E384370		<b>Elevation (ft):</b>	
<b>PLSS:</b>	T05S, R33E, Sec. 36 (M)		<b>Acres:</b> 0.0	
<b>Location:</b>	COLDWATER CANYON, WHITE MOUNTAINS.			
<b>Detailed Location:</b>	EXACT LOCATION WITHIN CANYON UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB AT THE WEST END OF COLDWATER CANYON TO ENCOMPASS THE GIVEN ELEVATION RANGE FOR THIS SPECIES: 1500-1700 M.			
<b>Ecological:</b>				
<b>General:</b>	ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 2002 GREENHOUSE OBSERVATION IN CALFLORA. NEEDS FIELDWORK.			
<b>Owner/Manager:</b>	UNKNOWN			

<b><i>Atriplex gardneri var. falcata</i></b>		<b>Element Code:</b> PDCHE040J0	
falcate saltbush			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G4T4Q
	<b>State:</b> None		<b>State:</b> S2S3
	<b>Other:</b> Rare Plant Rank - 2B.2		
<b>Habitat:</b>	<b>General:</b> CHENOPOD SCRUB, GREAT BASIN SCRUB.		
	<b>Micro:</b> USUALLY ON SUBALKALINE SOILS IN LOW CHENOPOD SCRUB. 1245-1375 M.		

<b>Occurrence No.</b>	9	<b>Map Index:</b> 22555	<b>EO Index:</b> 78516	<b>Element Last Seen:</b> 1974-06-26
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1974-06-26	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2009-12-10	
<b>Quad Summary:</b>	Poleta Canyon (3711833)			
<b>County Summary:</b>	Inyo			
<b>Lat/Long:</b>	37.26646 / -118.27204		<b>Accuracy:</b> 1/5 mile	
<b>UTM:</b>	Zone-11 N4125190 E387212		<b>Elevation (ft):</b> 4100	
<b>PLSS:</b>	T08S, R34E, Sec. 08 (M)		<b>Acres:</b> 0.0	
<b>Location:</b>	OWENS VALLEY, SE OF BISHOP. LOWER MCNALLY CANAL (GEIGER CANAL) EAST OF WARM SPRING, AGAINST HILL.			
<b>Detailed Location:</b>	EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB IN VICINITY OF WARM SPRINGS.			
<b>Ecological:</b>				
<b>General:</b>	ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1974 COLLECTION BY DEDECKER. NEEDS FIELDWORK.			
<b>Owner/Manager:</b>	UNKNOWN			



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<b><i>Astragalus argophyllus</i> var. <i>argophyllus</i></b>			<b>Element Code:</b> PDFAB0F0S1	
silver-leaved milk-vetch				
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b>		<b>Global:</b> G5T4
	<b>State:</b> None		<b>State:</b> S2	
	<b>Other:</b> Rare Plant Rank - 2B.2, BLM_S-Sensitive			
<b>Habitat:</b>	<b>General:</b> MEADOWS AND SEEPS, PLAYAS.			
	<b>Micro:</b> ALKALINE AND SALINE MEADOWS, STREAM BANKS AND LAKE SHORES, IN STIFF ALLUVIAL CLAYS AND LOAMS. 1220-1405 M.			

<b>Occurrence No.</b>	1	<b>Map Index:</b> 21819	<b>EO Index:</b> 17099	<b>Element Last Seen:</b> 1992-08-05
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1992-08-05
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2015-01-23

**Quad Summary:** Fish Slough (3711844)  
**County Summary:** Mono

<b>Lat/Long:</b>	37.47954 / -118.40105	<b>Accuracy:</b>	specific area
<b>UTM:</b>	Zone-11 N4148993 E376123	<b>Elevation (ft):</b>	4200
<b>PLSS:</b>	T05S, R33E, Sec. 30, SW (M)	<b>Acres:</b>	85.0

**Location:** FISH SLOUGH, FROM 0.8 TO 2.6 KM NORTH OF MONO/INYO COUNTY LINE.  
**Detailed Location:** MAPPED AS 2 POLYGONS EAST OF THE SLOUGH PRIMARILY WITHIN THE NW 1/4 OF SECTION 31 AND THE SW 1/4 SECTION 30.  
**Ecological:** IN ALKALI CLAY SOILS WITH SPOROBOLUS AIROIDES, JUNCUS BALTICUS, CENTAURIUM NAMOPHILUM, FIMBRISTYLIS SPADICEA, DISTICHLIS SPICATA VAR. STRICTA, SPARTINA GRACILIS, AND IVESIA KINGII.  
**General:** SOUTHERN PORTION OF POPULATION PROTECTED BY BLM ENCLOSURE; 48 PLANTS IN 1982, 6 PLANTS IN 1992. 26 PLANTS IN NORTHERN POLYGON IN 1992. COLLECTIONS FROM 1974, 1976, 1978, AND 1983 ARE ALSO ATTRIBUTED TO THIS OCCURRENCE.  
**Owner/Manager:** BLM, LADWP

<b>Occurrence No.</b>	2	<b>Map Index:</b> 21887	<b>EO Index:</b> 20741	<b>Element Last Seen:</b> 1989-XX-XX
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1989-XX-XX
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2015-01-26

**Quad Summary:** Fish Slough (3711844)  
**County Summary:** Mono

<b>Lat/Long:</b>	37.49069 / -118.40396	<b>Accuracy:</b>	80 meters
<b>UTM:</b>	Zone-11 N4150234 E375885	<b>Elevation (ft):</b>	4200
<b>PLSS:</b>	T05S, R33E, Sec. 30, NW (M)	<b>Acres:</b>	0.0

**Location:** FISH SLOUGH, 3.0 KM NORTH OF MONO/INYO COUNTY LINE.  
**Detailed Location:** JUST SOUTH OF BEND IN DIRT ROAD, BETWEEN ROAD AND SLOUGH. WITHIN THE NW 1/4 OF THE NW 1/4 OF SECTION 30.  
**Ecological:** ALKALI FLAT GROWING IN ASSOCIATION WITH SPARTINA GRACILIS, SPOROBOLUS AIROIDES, JUNCUS BALTICUS, DISTICHLIS SPICATA, AND IVESIA KINGII.  
**General:** PLANTES NOTED AS "RARE" AT THIS LOCATION ON A 1989 MAP.  
**Owner/Manager:** BLM





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<b>Occurrence No.</b>	4	<b>Map Index:</b> 21478	<b>EO Index:</b> 16356	<b>Element Last Seen:</b>	2004-05-21
<b>Occ. Rank:</b>	Poor		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2004-05-21
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2015-01-26
<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Mono				
<b>Lat/Long:</b>	37.49223 / -118.33225		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4150313 E382227		<b>Elevation (ft):</b>	4600	
<b>PLSS:</b>	T05S, R33E, Sec. 27, NE (M)		<b>Acres:</b>	11.0	
<b>Location:</b>	CHALFANT VALLEY, EAST OF TUNGSTEN ROAD, 0.5 KM SE OF WATER TOWER, 2.3 KM EAST OF HWY 6.				
<b>Detailed Location:</b>	IN SOUTHEASTERN-MOST CORNER OF SECTION 22, NEAR SURVEY MARKER. 10 MILES NORTH OF THE JUNCTION OF HWY 395 AND HWY 6. SITE IS ABOUT 2 MI E OF HWY 6 AND 1 MI NORTH OF COLDWATER CANYON. USGS SURVEY MARKER IS NEAR THIS POPULATION.				
<b>Ecological:</b>	ALKALI SLOPE NORTHEAST OF A RIPARIAN AREA IN HEAVY CLAY SOIL. POPULATION IS BETWEEN FAULT-CONTROLLED SPRINGS AN OPEN, SUNNY SLOPE (N FACING). ASSOCIATED WITH SPOROBOLUS AIROIDES, ARTEMISIA TRIDENTATA, ATRIPLEX CANESCENS, AND AMSINCKIA.				
<b>General:</b>	APPROXIMATELY 50 PLANTS OBSERVED IN 1988. 7 PLANTS OBSERVED IN 2004.				
<b>Owner/Manager:</b>	LADWP, PVT				
<b>Occurrence No.</b>	8	<b>Map Index:</b> 41354	<b>EO Index:</b> 41354	<b>Element Last Seen:</b>	2008-05-28
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2008-05-28
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2015-01-26
<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.38708 / -118.34633		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4138664 E380816		<b>Elevation (ft):</b>	4080	
<b>PLSS:</b>	T06S, R33E, Sec. 34, NW (M)		<b>Acres:</b>	6.5	
<b>Location:</b>	WEST SIDE OF THE OWENS RIVER ABOUT 1 MILE SOUTH OF LAWS, OWENS VALLEY.				
<b>Detailed Location:</b>	ALONG FLOODPLAIN OF THE RIVER WITHIN THE NW 1/4 NW 1/4 SECTION 34.				
<b>Ecological:</b>	ALKALI MEADOW WITH SPOROBOLUS AIROIDES, LEYMUS TRITICOIDES, DISTICHLIS SPICATA VAR. STRICTA, IRIS MISSOURIENSIS, GLYCYRRHIZA LEPIDOTA, JUNCUS BALTICUS, AND ERICAMERIA NAUSEOSA. SIDALCEA COVILLEI AND CALOCHORTUS EXCAVATUS ALSO FOUND HERE.				
<b>General:</b>	322 PLANTS OBSERVED IN 1994. 107 PLANTS OBSERVED IN 2008.				
<b>Owner/Manager:</b>	LADWP				



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<b>Occurrence No.</b>	9	<b>Map Index:</b> 41355	<b>EO Index:</b> 41355	<b>Element Last Seen:</b>	1995-08-16
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1995-08-16
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	1999-07-06

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<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Inyo				

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<b>Lat/Long:</b>	37.38132 / -118.33766	<b>Accuracy:</b>	specific area		
<b>UTM:</b>	Zone-11 N4138014 E381574	<b>Elevation (ft):</b>	4011		
<b>PLSS:</b>	T06S, R33E, Sec. 34, SE (M)	<b>Acres:</b>	3.2		

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<b>Location:</b>	EAST SIDE OF THE OWENS RIVER ABOUT 1.4 MILES SOUTH OF LAWS, OWENS VALLEY.				
<b>Detailed Location:</b>	BETWEEN THE RIVER AND DIRT ROAD WITHIN THE NW 1/4 SE 1/4 SECTION 34.				
<b>Ecological:</b>	ALKALINE MEADOW, BORDERING ON RIPARIAN WITH SPOROBOLUS AIROIDES, LEYMUS TRITICOIDES, JUNCUS BALICUS, PYRROCOMA RACEMOSA, CIRSIUM, IRIS MISSOURIENSIS, GLYCYRRHIZA LEPIDOTA, CORDYLANTHUS, ET AL. THE RARE IVESIA KINGII IS ALSO FOUND HERE.				
<b>General:</b>	63 PLANTS OBSERVED IN 1993, 171 IN 1995.				
<b>Owner/Manager:</b>	LADWP				

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<b><i>Astragalus serenoii</i> var. <i>shockleyi</i></b>		<b>Element Code:</b> PDFAB0F802
Shockley's milk-vetch		
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDB Element Ranks: Global:</b> G4T3
	<b>State:</b> None	<b>State:</b> S3
	<b>Other:</b> Rare Plant Rank - 2B.2	
<b>Habitat:</b>	<b>General:</b> CHENOPOD SCRUB, PINYON AND JUNIPER WOODLAND, GREAT BASIN SCRUB.	
	<b>Micro:</b> COARSE, GRANITIC ALLUVIUM. 1185-2165 M.	

<b>Occurrence No.</b>	13	<b>Map Index:</b> 64806	<b>EO Index:</b> 64885	<b>Element Last Seen:</b>	2005-04-06
<b>Occ. Rank:</b>	Poor		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2005-04-06
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2010-06-01
<b>Quad Summary:</b>	Poleta Canyon (3711833)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.34946 / -118.27197		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4134398 E387342		<b>Elevation (ft):</b>	5300	
<b>PLSS:</b>	T07S, R34E, Sec. 08, SW (M)		<b>Acres:</b>	0.6	
<b>Location:</b>	REDDING CANYON; ROUGHLY 0.7 MILE SSE OF POLETA MINE, WHITE MOUNTAINS.				
<b>Detailed Location:</b>	MAPPED ALONG ROAD IN REDDING CANYON ABOUT 1.3 ROAD MILES EAST OF JUNCTION WITH MAIN ROAD TO POLETA MINE. MAPPED ABOUT 0.3 MILE NORTHEAST OF PEAK "1688 METERS" IN THE MIDDLE OF THE S 1/2 OF THE SW 1/4 OF SECTION 8.				
<b>Ecological:</b>	SAGEBRUSH SCRUB ON ROADSIDE ON MODERATELY STEEP SLOPE. SOME PLANTS ACTUALLY IN ROAD.				
<b>General:</b>	~10 PLANTS WERE SEEN IN 2005 BY WEIS. INYO NF POPULATION #4.				
<b>Owner/Manager:</b>	USFS-INYO NF				

<b>Occurrence No.</b>	25	<b>Map Index:</b> B5141	<b>EO Index:</b> 118079	<b>Element Last Seen:</b>	2017-03-15
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2017-03-15
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2020-02-21
<b>Quad Summary:</b>	Poleta Canyon (3711833)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.35405 / -118.25855		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4134892 E388538		<b>Elevation (ft):</b>	5800	
<b>PLSS:</b>	T07S, R34E, Sec. 9, SW (M)		<b>Acres:</b>	12.0	
<b>Location:</b>	REDDING CANYON, BETWEEN 1.4 TO 1.9 AIR MILES ENE OF CONFLUENCE WITH POLETA CANYON.				
<b>Detailed Location:</b>	VICINITY OF ROBBIE HOYT MINE. 4 POLYGONS MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE NE 1/4 SE 1/4 OF SECTION 8 AND THE NORTH 1/2 SW 1/4 OF SECTION 9.				
<b>Ecological:</b>	GROWING ALONG ROAD AND ON TOP OF TAILINGS PILE "DAM" IN CANYON BOTTOM.				
<b>General:</b>	UNKNOWN NUMBER OF PLANTS OBSERVED IN 2011. APPROXIMATELY 42 PLANTS OBSERVED IN 2017.				
<b>Owner/Manager:</b>	USFS-INYO NF				

<b><i>Astragalus lentiginosus</i> var. <i>piscinensis</i></b>		<b>Element Code:</b> PDFAB0FB9E
Fish Slough milk-vetch		
<b>Listing Status:</b>	<b>Federal:</b> Threatened	<b>CNDDB Element Ranks: Global:</b> G5T1
	<b>State:</b> None	<b>State:</b> S1
	<b>Other:</b> Rare Plant Rank - 1B.1, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	
<b>Habitat:</b>	<b>General:</b> MEADOWS, PLAYAS.	
	<b>Micro:</b> USUALLY FOUND ON MOUNDS IN ALKALI MEADOWS WITH SPARSE VEGETATIVE COVER. 1120-1300 M.	



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<b>Occurrence No.</b>	3	<b>Map Index:</b> 15957	<b>EO Index:</b> 16740	<b>Element Last Seen:</b>	2010-06-23
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2010-06-23
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2015-09-02
<b>Quad Summary:</b>	Fish Slough (3711844)				
<b>County Summary:</b>	Mono				
<b>Lat/Long:</b>	37.47682 / -118.40016		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4148690 E376198		<b>Elevation (ft):</b>	4160	
<b>PLSS:</b>	T05S, R33E, Sec. 31, W (M)		<b>Acres:</b>	338.0	
<b>Location:</b>	FISH SLOUGH; FROM JUST NORTH OF MONO/INYO COUNTY LINE NORTH FOR 1.5 MILES, WEST AND EAST SIDE OF SLOUGH.				
<b>Detailed Location:</b>	MAPPED BY CNDDDB AS 2 POLYGONS JUST E OF FISH SLOUGH RD, BASED PRIMARILY ON A 1991 FERREN MAP AND A 1992 NOVAK MAP. PART OF THIS SITE IN SEC 31 HAD 200 PLANTS IN 1981 BUT 39 IN 1982 (DECREASE DUE TO PUFFFISH REHAB WORK & CATTLE).				
<b>Ecological:</b>	ON ALKALI CRUST FLATS & SURROUNDING SLOUGH, OFTEN IN SHALLOW SWALES. ASSOC WITH CHRYSOTHAMNUS ALBIDUS, DISTICHLIS SPICATA STRICTA, SPARTINA GRACILIS, LEYMUS CINEREUS, SPOROBOLUS AIROIDES, ASTRAGALUS ARGOPHYLLUS ARGOPHYLLUS, & IVESIA KINGII.				
<b>General:</b>	W POLY: 32 IN N PORTION OF POLY IN 1981 (SEC 25), 5 IN S PORTION IN '81 (SEC 36), 45 IN S PORTION IN '84 (SEC 31), 762 IN '92. E POLY: 166 IN '81, 314 IN '92, OBSERVED IN '10. BOTH POLYS: 747 IN '00, 1,063 IN '08. INCL FORMER OCCS #2 & 8.				
<b>Owner/Manager:</b>	BLM-BISHOP RA, LADWP				
<b>Occurrence No.</b>	4	<b>Map Index:</b> 01561	<b>EO Index:</b> 14716	<b>Element Last Seen:</b>	2008-XX-XX
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2008-XX-XX
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2015-09-02
<b>Quad Summary:</b>	Fish Slough (3711844)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.44756 / -118.40442		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4145449 E375772		<b>Elevation (ft):</b>	4160	
<b>PLSS:</b>	T06S, R33E, Sec. 07, NW (M)		<b>Acres:</b>	13.0	
<b>Location:</b>	FISH SLOUGH, 0.9 MILE SOUTH OF MONO/INYO COUNTY LINE. JUST EAST OF FISH SLOUGH ROAD.				
<b>Detailed Location:</b>	AT THE JUNCTION OF SECTIONS 1, 6, 7, AND 12. BOTH SIDES OF SLOUGH CHANNEL. MAPPED BY CNDDDB ACCORDING TO A 1991 FERREN MAP AND A 1992 NOVAK MAP.				
<b>Ecological:</b>	DRIER AREAS OF ALKALINE MEADOW, IN ALKALI CRUST. ASSOCIATED WITH ELYMUS CINEREUS, CHRYSOTHAMNUS VISCIDIFLORUS, C. ALBIDUS, SPOROBOLUS AIROIDES, JUNCUS BALTICUS, AND DISTICHLIS STRICTA.				
<b>General:</b>	20 INDIVIDUALS SEEN IN 1981 (5 ON E SIDE OF CHANNEL, 15 ON W SIDE), NONE SEEN IN 1989, 67 IN 1992 (5 PLANTS ON E SIDE OF CHANNEL, 62 ON W SIDE). NUMBER OF PLANTS IN EO #4 & EO #5 COMBINED: 79 IN 2000, 131 IN 2008.				
<b>Owner/Manager:</b>	BLM-BISHOP RA, LADWP				



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<b>Occurrence No.</b>	5	<b>Map Index:</b>	01541	<b>EO Index:</b>	16374	<b>Element Last Seen:</b>	2008-XX-XX
<b>Occ. Rank:</b>	Fair	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		2008-XX-XX	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2015-09-02	
<b>Quad Summary:</b>	Fish Slough (3711844)						
<b>County Summary:</b>	Inyo						
<b>Lat/Long:</b>	37.43524 / -118.40747			<b>Accuracy:</b>	specific area		
<b>UTM:</b>	Zone-11 N4144087 E375482			<b>Elevation (ft):</b>	4160		
<b>PLSS:</b>	T06S, R32E, Sec. 12, SE (M)			<b>Acres:</b>	32.0		
<b>Location:</b>	FISH SLOUGH; S END, S OF UPPER MCNALLY CANAL. ABOUT 4 MI N OF BISHOP.						
<b>Detailed Location:</b>	BOTH SIDES OF SLOUGH CHANNEL. MAPPED BY CNDDDB AS 3 POLYGONS: N-MOST POLY BASED ON A 1991 FERREN MAP AND A 1992 NOVAK MAP. MIDDLE POLY BASED ON A 1991 FERREN MAP. S POLY BASED ON A 1983 NOVAK & TOOL MAP AND A 1992 NOVAK MAP.						
<b>Ecological:</b>	ALKALINE MEADOW AT EDGE OF SLOUGH. ASSOCIATED WITH DISTICHLIS STRICTA SPICATA, JUNCUS BALTICUS, CHRYSOTHAMNUS ALBIDUS, SPOROBOLUS AIROIDES, AND CALOCHORTUS EXCAVATUS (ALSO RARE).						
<b>General:</b>	N POLYGON: COMMON IN 1989, 19 PLANTS IN 1992. MIDDLE POLYGON: RARE IN 1989. S POLYGON: 44 PLANTS IN 1983, 29 IN 1985, 8 PLANTS IN 1992. NUMBER OF PLANTS FOR EO #4 & EO #5 COMBINED: 79 IN 2000, 131 IN 2008. INCLUDES FORMER OCC #6.						
<b>Owner/Manager:</b>	LADWP						

<b>Phacelia inyoensis</b>				<b>Element Code:</b> PDHYD0C2F0			
Inyo phacelia							
<b>Listing Status:</b>	<b>Federal:</b>	None	<b>CNDDDB Element Ranks:</b>	<b>Global:</b>	G2		
	<b>State:</b>	None		<b>State:</b>	S2		
	<b>Other:</b>	Rare Plant Rank - 1B.2, BLM_S-Sensitive, USFS_S-Sensitive					
<b>Habitat:</b>	<b>General:</b>	MEADOWS AND SEEPS.					
	<b>Micro:</b>	ALKALINE MEADOWS. 910-2150 M.					

<b>Occurrence No.</b>	7	<b>Map Index:</b>	22555	<b>EO Index:</b>	55750	<b>Element Last Seen:</b>	1986-05-03
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		1986-05-03	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2004-06-06	
<b>Quad Summary:</b>	Poleta Canyon (3711833)						
<b>County Summary:</b>	Inyo						
<b>Lat/Long:</b>	37.26646 / -118.27204			<b>Accuracy:</b>	1/5 mile		
<b>UTM:</b>	Zone-11 N4125190 E387212			<b>Elevation (ft):</b>	3990		
<b>PLSS:</b>	T08S, R34E, Sec. 08 (M)			<b>Acres:</b>	0.0		
<b>Location:</b>	ABOUT WARM SPRINGS AT BASE OF BLACK MOUNTAIN, OWENS VALLEY DRAINAGE.						
<b>Detailed Location:</b>	EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB, IN THE VICINITY OF WARM SPRINGS AT THE WESTERN BASE OF BLACK MOUNTAIN, APPROXIMATELY 1.5 MILES SOUTH OF BLACK CANYON, AND 2.0 MILES EAST OF THE OWENS RIVER.						
<b>Ecological:</b>	ABOUT SHRUBS ON SILTY ALKALINE FLATS.						
<b>General:</b>	UNKNOWN NUMBER OF PLANTS SEEN IN 1986. NEEDS FIELDWORK.						
<b>Owner/Manager:</b>	LADWP, BLM						



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<b>Occurrence No.</b>	8	<b>Map Index:</b> 55735	<b>EO Index:</b> 55751	<b>Element Last Seen:</b>	1995-04-10
<b>Occ. Rank:</b>	Fair		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1995-04-10
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2004-06-06

**Quad Summary:** Fish Slough (3711844)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.44767 / -118.40660	<b>Accuracy:</b>	specific area
<b>UTM:</b>	Zone-11 N4145465 E375579	<b>Elevation (ft):</b>	3700
<b>PLSS:</b>	T06S, R32E, Sec. 12, NE (M)	<b>Acres:</b>	1.7

**Location:** WEST OF FISH SLOUGH ROAD, APPROXIMATELY 2.3 MILES NORTH OF THE OWENS RIVER.

**Detailed Location:** ONE POLYGON MAPPED WITHIN THE NE 1/4 OF THE NE 1/4 OF SECTION 12.

**Ecological:** BLIND SPRINGS GRAVELLY LOAM (MORE COBBLY THAN OTHER AREAS) AT THE BASE OF DESERT SCRUB SHRUB SPECIES. ASSOCIATED WITH TETRADYMIA CANESCENS AND SPOROBOLUS AIROIDES.

**General:** FEWER THAN 100 PLANTS SEEN BY HALFORD IN 1995.

**Owner/Manager:** BLM

<b>Occurrence No.</b>	9	<b>Map Index:</b> 55736	<b>EO Index:</b> 55752	<b>Element Last Seen:</b>	1995-04-10
<b>Occ. Rank:</b>	Excellent		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1995-04-10
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2004-06-06

**Quad Summary:** Fish Slough (3711844)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.44218 / -118.40514	<b>Accuracy:</b>	specific area
<b>UTM:</b>	Zone-11 N4144854 E375700	<b>Elevation (ft):</b>	3600
<b>PLSS:</b>	T06S, R32E, Sec. 12, NE (M)	<b>Acres:</b>	2.3

**Location:** FISH SLOUGH ROAD, APPROXIMATELY TWO MILES NORTH OF THE OWENS RIVER.

**Detailed Location:** TWO COLONIES, ONE IN THE SE 1/4 OF THE NE 1/4 OF SECTION 12 (EAST OF ROAD), AND ONE IN THE NE 1/4 OF THE SE 1/4 OF SECTION 12 (WEST OF ROAD).

**Ecological:** BLIND SPRING GRAVELLY LOAM BETWEEN ROCKY KNOLLS. ASSOCIATED WITH TETRADYMIA CANESCENS AND SARCOBATUS VERMICULATUS.

**General:** UNKNOWN NUMBER OF PLANTS SEEN IN EAST COLONY; SCATTERED INDIVIDUALS IN THE WEST COLONY.

**Owner/Manager:** BLM



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<b>Occurrence No.</b>	10	<b>Map Index:</b> 55737	<b>EO Index:</b> 55753	<b>Element Last Seen:</b>	1995-04-10
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1995-04-10
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2007-05-24
<b>Quad Summary:</b>	Fish Slough (3711844)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.43415 / -118.40644		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4143964 E375571		<b>Elevation (ft):</b>	3700	
<b>PLSS:</b>	T06S, R32E, Sec. 13, NE (M)		<b>Acres:</b>	6.9	
<b>Location:</b>	FISH SLOUGH ROAD, APPROXIMATELY 1.0 TO 1.5 MILES NORTH OF THE OWENS RIVER.				
<b>Detailed Location:</b>	SEVEN COLONIES MAPPED AS SIX POLYGONS BY CNDDDB, THREE IN THE SE 1/4 OF SECTION 12, AND THREE IN THE NE 1/4 OF SECTION 13.				
<b>Ecological:</b>	SCATTERED INDIVIDUALS CONFINED TO THE BASE OF TETRADYMYIA CANESCENS AND SARCOBATUS VERMICULATUS IN SANDY SUBSTRATE (BLIND SPRINGS GRAVELLY LOAM). ASSOCIATED WITH CHRYSOTHAMNUS NAUSEOSUS, CHRYSOTHAMNUS ALBIDUS, AND SPOROBOLUS AIROIDES.				
<b>General:</b>	UNKNOWN NUMBER OF PLANTS SEEN BY HALFORD IN 1995.				
<b>Owner/Manager:</b>	LADWP, BLM				

<b><i>Mentzelia torreyi</i></b>	<b>Element Code:</b> PDLOA031S0
Torrey's blazing star	
<b>Listing Status:</b>	<b>Federal:</b> None
	<b>State:</b> None
	<b>Other:</b> Rare Plant Rank - 2B.2
<b>Habitat:</b>	<b>General:</b> GREAT BASIN SCRUB, MOJAVEAN DESERT SCRUB, PINYON AND JUNIPER WOODLAND.
	<b>Micro:</b> SANDY OR ROCKY SITES; ALKALINE, USUALLY VOLCANIC SOILS. 1165-2155 M.
<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G4
	<b>State:</b> S2

<b>Occurrence No.</b>	3	<b>Map Index:</b> 47721	<b>EO Index:</b> 47721	<b>Element Last Seen:</b>	1991-08-28
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1991-08-28
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2017-01-19
<b>Quad Summary:</b>	Fish Slough (3711844)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.43991 / -118.40448		<b>Accuracy:</b>	non-specific area	
<b>UTM:</b>	Zone-11 N4144600 E375755		<b>Elevation (ft):</b>	4180	
<b>PLSS:</b>	T06S, R33E, Sec. 07, W (M)		<b>Acres:</b>	78.4	
<b>Location:</b>	1.4 MILES NORTH OF JUNCTION OF FISH SLOUGH ROAD AND JEAN BLANC ROAD, FISH SLOUGH.				
<b>Detailed Location:</b>	ON EAST SIDE OF SLOUGH. EXACT LOCATION UNKNOWN, MAPPED BY CNDDDB AS A BEST GUESS.				
<b>Ecological:</b>	ON SANDY SLOPE; WITH SARCOBATUS VERMICULATUS, PSOROTHAMNUS EMORYI, LEPIDIUM FREMONTII.				
<b>General:</b>	SITE IS BASED ON A 1984 FORBES COLLECTION; PLANTS NOTED AS "UNCOMMON" IN 1984. A 1991 CHARLTON COLLECTION FROM "FISH SLOUGH, 5 MI N OF BISHOP & 1 MI N OF JCT WITH FIVE BRIDGES RD" IS ALSO ATTRIBUTED HERE.				
<b>Owner/Manager:</b>	UNKNOWN				



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<b>Occurrence No.</b>	11	<b>Map Index:</b> A3453	<b>EO Index:</b> 105088	<b>Element Last Seen:</b> 1974-05-14
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1974-05-14
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2017-01-20

**Quad Summary:** Fish Slough (3711844)

**County Summary:** Mono

<b>Lat/Long:</b>	37.48219 / -118.40185	<b>Accuracy:</b>	1/5 mile
<b>UTM:</b>	Zone-11 N4149288 E376058	<b>Elevation (ft):</b>	4200
<b>PLSS:</b>	T05S, R33E, Sec. 30, SW (M)	<b>Acres:</b>	70.0

**Location:** FISH SLOUGH: HILLSIDE ABOVE BLM SPRING, LOWER EDGE.  
**Detailed Location:** EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB AROUND HILLSIDE JUST NORTH OF BLM SPRING.  
**Ecological:** GREASEWOOD SCRUB.  
**General:** ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1974 DEDECKER COLLECTION. NEEDS FIELDWORK.  
**Owner/Manager:** BLM

<b>Occurrence No.</b>	12	<b>Map Index:</b> A3455	<b>EO Index:</b> 105089	<b>Element Last Seen:</b> 2014-05-21
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 2014-05-21
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2017-01-20

**Quad Summary:** Fish Slough (3711844)

**County Summary:** Mono

<b>Lat/Long:</b>	37.46539 / -118.40542	<b>Accuracy:</b>	80 meters
<b>UTM:</b>	Zone-11 N4147429 E375714	<b>Elevation (ft):</b>	4232
<b>PLSS:</b>	T05S, R32E, Sec. 36, SE (M)	<b>Acres:</b>	5.0

**Location:** VOLCANIC TABLELAND, ALONG FISH SLOUGH RD, ~3.3 MILES NORTH OF INTERSECTION WITH FIVE BRIDGES ROAD.  
**Detailed Location:** MAPPED IN THE SE 1/4 OF THE SE 1/4 OF SECTION 36 ACCORDING TO 2014 HOWALD COORDINATES.  
**Ecological:** ROADSIDE, SANDY SOIL. ASSOCIATED WITH SARCOBATUS VERMICULATUS, MENTZELIA JONESII, ERIOGONUM, STREPTANTHELLA LONGIROSTRIS, TIQUILIA NUTTALLII, STIPA HYMENOIDES, AND CAMISSONIA.  
**General:** SITE IS BASED ON A 2014 HOWALD COLLECTION; PLANTS NOTED AS "COMMON" IN 2014.  
**Owner/Manager:** LADWP

<b><i>Sidalcea covillei</i></b>		<b>Element Code:</b> PDMAL11040
Owens Valley checkerbloom		
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b> <b>Global:</b> G2
	<b>State:</b> Endangered	<b>State:</b> S2
	<b>Other:</b> Rare Plant Rank - 1B.1, BLM_S-Sensitive	
<b>Habitat:</b>	<b>General:</b> MEADOWS AND SEEPS, CHENOPOD SCRUB.	
	<b>Micro:</b> MOIST ALKALINE MEADOWS & FRESHWATER SEEPS, FINE SANDY LOAM SOIL, ONE OCCURRENCE IN STONY CALCAREOUS SOIL. 1090-1420 M.	





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<b>Occurrence No.</b>	11	<b>Map Index:</b> 15958	<b>EO Index:</b> 29047	<b>Element Last Seen:</b>	2008-05-29
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2008-05-29
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2013-04-30

**Quad Summary:** Fish Slough (3711844), Rovana (3711845)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.39266 / -118.49835	<b>Accuracy:</b>	specific area
<b>UTM:</b>	Zone-11 N4139486 E367367	<b>Elevation (ft):</b>	4400
<b>PLSS:</b>	T06S, R32E, Sec. 30, SE (M)	<b>Acres:</b>	27.5

**Location:** PLEASANT VALLEY DAM ROAD 0.4 MILE NORTH HIGHWAY 395, 6 MILES WEST OF BISHOP ALONG HORTON CREEK.

**Detailed Location:** POPULATION PRESENT ON BOTH SIDES OF ROAD; NORTH SIDE OF ROAD HAS THE LARGEST POPULATION. AN EXCLOSURE OF 0.25 ACRE WAS CONSTRUCTED ON THE SOUTH SIDE OF PRIVATE ROAD IN 1978; DENSITY OF PLANTS IN EXCLOSURE HAS INCREASED SINCE 1978.

**Ecological:** IN UPPER MARGINS OF MOIST ALKALINE MEADOW ON CRUSTY ALKALINE CLAY SOIL. ASSOCIATED SPECIES INCLUDE CHYRSOTHAMNUS NAUSEOSUS, DISTICHLIS SPICATA VAR. STRICTA, JUNCUS BALTICUS, CAREX, SALIX, ROSA WOODSII, AND THE RARE CALOCHORTUS EXCAVATUS.

**General:** 100,000+ PLANTS OBSERVED IN 1983, APPROXIMATELY 7400 IN 1992, APPROXIMATELY 33,700 IN 1993, 21,635 IN 1995, 102,300 IN 2001, AND 122,000 SEEN IN 2008.

**Owner/Manager:** LADWP

<b>Occurrence No.</b>	12	<b>Map Index:</b> 01394	<b>EO Index:</b> 12364	<b>Element Last Seen:</b>	1997-06-18
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1997-06-18
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2009-08-03

**Quad Summary:** Fish Slough (3711844)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.40829 / -118.44608	<b>Accuracy:</b>	specific area
<b>UTM:</b>	Zone-11 N4141148 E372020	<b>Elevation (ft):</b>	4240
<b>PLSS:</b>	T06S, R32E, Sec. 22, SE (M)	<b>Acres:</b>	40.8

**Location:** 2.5 MILES WEST OF FIVE BRIDGES ROAD, JUST WEST OF BISHOP CREEK CANAL, SOUTH OF OWENS RIVER, OWENS VALLEY.

**Detailed Location:** MAPPED WITHIN THE SOUTH 1/2 SE 1/4 OF SECTION 22.

**Ecological:** IN ALKALINE MEADOW WITH DISTICHLIS SPICATA VAR. STRICTA, SPOROBOLUS AIROIDES, JUNCUS BALTICUS, ROSA WOODSII, IRIS MISSOURIENSIS, AND CHRYSOTHAMNUS NAUSEOSUS.

**General:** 1000-10,000+ PLANTS IN 1981; 10,000+ PLANTS IN 1983 ON OVER 10 ACRES; 3500+ IN 1992; ~3000 IN 1993; 41,240 IN 1994; 51,002 IN 1995; AND 35,650 IN 1997. OCCURRENCES #12 AND 15 WERE PROBABLY ONE POPULATION AT ONE TIME.

**Owner/Manager:** LADWP



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<b>Occurrence No.</b>	13	<b>Map Index:</b> 21461	<b>EO Index:</b> 20731	<b>Element Last Seen:</b>	2012-05-07
<b>Occ. Rank:</b>	Fair		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2012-05-07
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2013-04-30

**Quad Summary:** Bishop (3711834)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.27594 / -118.38692	<b>Accuracy:</b>	specific area
<b>UTM:</b>	Zone-11 N4126386 E377041	<b>Elevation (ft):</b>	4400
<b>PLSS:</b>	T08S, R33E, Sec. 06, SE (M)	<b>Acres:</b>	66.0

**Location:** 0.5 MILE SOUTH OF COLLINS ROAD AND GERKIN ROAD INTERSECTION, EAST AND WEST OF GERKIN ROAD IN SEEP AREA, OWENS VALLEY.

**Detailed Location:** MAPPED BY CNDDDB AS 2 POLYGONS. A 1917 NORDYKE COLLECTION FROM "GERKIN RANCH" ALSO ATTRIBUTED TO THIS SITE.

**Ecological:** IN SEEP AREA ALONG A DRY SLOPE DOMINATED BY CHRYSOTHAMNUS NAUSEOSUS. ASSOCIATES INCLUDE JUNCUS BALTICUS, ROSA WOODSII, ELYMUS SP, SALIX SP, SPOROBOLUS AIROIDES, HESPEROCHIRON CALIFORNICUS, ETC. THE RARE CALOCHORTUS EXCAVATUS ALSO IN AREA.

**General:** NW POLYGON: APPROXIMATELY 1000 PLANTS OBSERVED IN 1982, 1983 & 1992, 4800 IN 1993, 1200 IN 2007. SE POLYGON: APPROXIMATELY 50 PLANTS OBSERVED IN 1981 & 1983, 1000+ IN 1992, OVER 250 IN 2012. INCLUDES FORMER OCCURRENCE #24.

**Owner/Manager:** LADWP, BLM

<b>Occurrence No.</b>	14	<b>Map Index:</b> 01757	<b>EO Index:</b> 29116	<b>Element Last Seen:</b>	2008-05-28
<b>Occ. Rank:</b>	Fair		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2008-05-28
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Increasing	<b>Record Last Updated:</b>	2013-04-30

**Quad Summary:** Laws (3711843)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.38358 / -118.34430	<b>Accuracy:</b>	specific area
<b>UTM:</b>	Zone-11 N4138273 E380990	<b>Elevation (ft):</b>	4000
<b>PLSS:</b>	T06S, R33E, Sec. 34, W (M)	<b>Acres:</b>	26.9

**Location:** 1 MILE SOUTH OF LAWS BRIDGE, NORTHEAST OF AIRPORT AND WEST OF OWENS RIVER, OWENS VALLEY.

**Detailed Location:** MAPPED WITHIN THE SE 1/4 OF THE NW 1/4 OF SECTION 34 AND THE NE 1/4 OF THE SW 1/4 OF SECTION 34.

**Ecological:** IN MOIST ALKALINE SALTGRASS MEADOW. ASSOCIATED WITH DISTICHLIS SPICATA, JUNCUS BALTICUS, SPOROBOLUS AIROIDES, IRIS MISSOURIENSIS, SISYRINCHIUM HALOPHILUM, CAREX SP, SALIX SP, ETC. THE RARE CALOCHORTUS EXCAVATUS ALSO AT THIS SITE.

**General:** 10,000+ PLANTS SEEN IN 1981 ON 10 ACRES. 10,000+ PLANTS SEEN IN 1982 & 1983 ON 10 ACRES. 1000+ IN 1992, 2500 IN 1993, 78,060 IN 1994, 126,120 IN 1995, 512,000 IN 2001. UNKNOWN NUMBER SEEN IN 2008 DURING SURVEY FOR ASTRAGALUS ARGOPHYLLUS.

**Owner/Manager:** LADWP



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<b>Occurrence No.</b>	15	<b>Map Index:</b> 01464	<b>EO Index:</b> 29147	<b>Element Last Seen:</b>	1997-06-18
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1997-06-18
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2009-07-27
<b>Quad Summary:</b>	Fish Slough (3711844)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.41107 / -118.43061		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4141436 E373394		<b>Elevation (ft):</b>	4240	
<b>PLSS:</b>	T06S, R32E, Sec. 23, SE (M)		<b>Acres:</b>	45.0	
<b>Location:</b>	1.25 MILES WEST OF FIVE BRIDGES, 0.75 MILE EAST OF INTAKE OF BISHOP CREEK CANAL, SOUTH OF OWENS RIVER.				
<b>Detailed Location:</b>	MAPPED WITHIN THE NW 1/4 SE 1/4 OF SECTION 23 AND SW 1/4 NE 1/4 OF SECTION 23.				
<b>Ecological:</b>	ALKALINE MEADOW WITH DISTICHLIS SPICATA, JUNCUS BALTICUS, SPOROBOLUS AIROIDES, ROSA WOODSII, SALIX SPP., POPULUS FREMONTII, AND GLYCYRRHIZA LEPIDOTA. CALOCHORTUS EXCAVATUS IS IN THE VICINITY.				
<b>General:</b>	~10,000 PLANTS SEEN IN 1981; 10,000+ IN 1982 & 1983; 3000 PLANTS SEEN IN 1992; 2500 IN 1993; 115,000 IN 1994; 15,990 IN 1995; 44,700 IN 1996; AND 47,400 IN 1997. OCCURRENCES #12 AND 15 WERE PROBABLY ONCE ONE POPULATION.				
<b>Owner/Manager:</b>	LADWP				
<b>Occurrence No.</b>	16	<b>Map Index:</b> 01797	<b>EO Index:</b> 29120	<b>Element Last Seen:</b>	2001-05-24
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2001-05-24
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Increasing	<b>Record Last Updated:</b>	2013-05-01
<b>Quad Summary:</b>	Poleta Canyon (3711833)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.30167 / -118.32813		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4129165 E382293		<b>Elevation (ft):</b>	4010	
<b>PLSS:</b>	T07S, R33E, Sec. 35, NW (M)		<b>Acres:</b>	23.9	
<b>Location:</b>	1.5 MILES NORTH OF COLLINS ROAD, NORTHWEST OF SAUNDERS LAKE, OWENS VALLEY, SE OF BISHOP.				
<b>Detailed Location:</b>	MAPPED WITHIN THE NW 1/4 OF THE NW 1/4 OF SECTION 35. DENSEST PORTION OF POPULATION IS CONCENTRATED UNDER A COTTONWOOD TREE.				
<b>Ecological:</b>	MOIST ALKALINE MEADOW WITH JUNCUS BALTICUS, DISTICHLIS SPICATA VAR. STRICTA, SPOROBOLUS AIROIDES, CAREX, ROSA WOODSII, SALIX SPP., CHRYSOTHAMNUS NAUSEOSUS, AND GLYCYRRHIZA LEPIDOTA.				
<b>General:</b>	1000+ PLANTS SEEN IN 1981-1983, UNKNOWN NUMBER IN 1984, 1000+ PLANTS IN 1992, 8500 IN 1993, 68,096 IN 1994, 51,180 IN 1995, ~66,500 IN 1997 AND 1998. 1998 & 2001 BLAKELY PHOTOS ALSO ATTRIBUTED TO THIS SITE; UNKNOWN NUMBER OF PLANTS SEEN.				
<b>Owner/Manager:</b>	LADWP				



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<b>Occurrence No.</b>	17	<b>Map Index:</b> 01521	<b>EO Index:</b> 14117	<b>Element Last Seen:</b>	2016-06-10
<b>Occ. Rank:</b>	Fair		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2016-06-10
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2018-05-22
<b>Quad Summary:</b>	Bishop (3711834)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.35957 / -118.40873		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4135693 E375246		<b>Elevation (ft):</b>	4180	
<b>PLSS:</b>	T07S, R32E, Sec. 12, NE (M)		<b>Acres:</b>	40.0	
<b>Location:</b>	PAIUTE RESERVATION ADJACENT TO WEST LINE STREET, BETWEEN SEE VEE LANE AND HIGHWAY 395, BISHOP, OWENS VALLEY.				
<b>Detailed Location:</b>	MAPPED AS 7 POLYGONS. POLYGONS S OF W LINE ST BASED ON 1982 AND 1992 NOVAK MAP. POLYGONS N OF W LINE ST BASED ON 2012 RICHARDSON MAP, 2015 WEIS MAP, AND 2016 PURDY COORDINATES. N-MOST POLY EXTIRPATED IN 2015. INCL FRMR EO #43.				
<b>Ecological:</b>	ALKALINE MEADOW WITH SPOROBOLUS AIROIDES, DISTICHLIS SPICATA VAR. STRICTA, EQUISTEUM SP, CHRYSOTHAMNUS NAUSEOUS, ROSA WOODSII, JUNCUS BALTICUS, CAREX DOUGLASII, IRIS MISSOURIENSIS, ELYMUS TRITICOIDES, SISYRINCHIUM HALOPHILUM, ETC.				
<b>General:</b>	N OF W LINE ST: <500 IN 1981, 1000 IN 1984, 50 IN 2012, 100S IN 2016. S OF LINE ST & W OF SUNLAND: 1000+ IN 1982, 1983, & 1992, ~2000 IN 1993, NONE 1994, ~2000 IN 1995, 4100 IN 1996, 1017 IN 2008. NE OF SUNLAND & MANDITCH: 300+ IN 1992.				
<b>Owner/Manager:</b>	LADWP, BIA-BISHOP RES				
<b>Occurrence No.</b>	18	<b>Map Index:</b> 01622	<b>EO Index:</b> 29117	<b>Element Last Seen:</b>	2001-05-30
<b>Occ. Rank:</b>	Fair		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2001-05-30
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2013-05-01
<b>Quad Summary:</b>	Bishop (3711834)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.37035 / -118.38794		<b>Accuracy:</b>	non-specific area	
<b>UTM:</b>	Zone-11 N4136862 E377104		<b>Elevation (ft):</b>	4140	
<b>PLSS:</b>	T07S, R33E, Sec. 06, E (M)		<b>Acres:</b>	57.0	
<b>Location:</b>	EAST OF HIGHWAY 395, SOUTH OF WYE ROAD, NORTH OF EAST PINE STREET, AND WEST OF BISHOP AIRPORT, BISHOP.				
<b>Detailed Location:</b>	MAPPED BY CNDDDB AS TWO POLYGONS. NORTHERN POLYGON IS BASED ON SPECIFIC MAP INFORMATION FROM THE 1980'S. SOUTHERN POLYGON IS BASED ON NON-SPECIFIC PARCEL INFORMATION FROM 2001.				
<b>Ecological:</b>	ALKALINE MEADOW WITH DISTICHLIS SPICATA VAR. STRICTA, JUNCUS BALTICUS, ROSA WOODSII, ERICAMERIA NAUSEOSA, SISYRINCHIUM HALOPHILUM, IRIS MISSOURIENSIS, SPOROBOLUS AIROIDES, AND CAREX SP. THE RARE CALOCHORTUS EXCAVATUS ALSO AT THIS SITE.				
<b>General:</b>	NORTHERN POLYGON: 10,000 PLANTS OBSERVED IN 1982-1984, APPROXIMATELY 3000 PLANTS IN 1992, APPROXIMATELY 3300 IN 1993, 60,600 IN 1994, 59,758 SEEN IN 1995. SOUTHERN POLYGON: 16 PLANTS OBSERVED IN 2001.				
<b>Owner/Manager:</b>	LADWP				



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<b>Occurrence No.</b>	19	<b>Map Index:</b> 01629	<b>EO Index:</b> 20733	<b>Element Last Seen:</b>	1980-05-XX
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1983-05-XX
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2009-08-03
<b>Quad Summary:</b>	Bishop (3711834)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.28468 / -118.38577		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4127354 E377156		<b>Elevation (ft):</b>	4400	
<b>PLSS:</b>	T08S, R33E, Sec. 05, NW (M)		<b>Acres:</b>	22.0	
<b>Location:</b>	ALONG RAWSON CREEK, W OF JUNCTION OF HWY 395 & COLLINS RD, 5 AIR MI S OF BISHOP.				
<b>Detailed Location:</b>					
<b>Ecological:</b>					
<b>General:</b>	SEEN HERE BY DOWHAN AND KNUDSEN IN 1980. VISITED BY NOVAK IN 1983, BUT PLANTS NOT FOUND; MAY BE ERRONEOUS LOCATION.				
<b>Owner/Manager:</b>	LADWP				
<b>Occurrence No.</b>	25	<b>Map Index:</b> 27969	<b>EO Index:</b> 22079	<b>Element Last Seen:</b>	1995-06-02
<b>Occ. Rank:</b>	Fair		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1995-06-02
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2009-07-27
<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.39945 / -118.36000		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4140053 E379625		<b>Elevation (ft):</b>	4100	
<b>PLSS:</b>	T06S, R33E, Sec. 28, W (M)		<b>Acres:</b>	42.1	
<b>Location:</b>	BOTH SIDES OF HIGHWAY 6 JUST W OF LAWS BRIDGE, NORTH OF BISHOP, OWENS VALLEY.				
<b>Detailed Location:</b>	2 COLONIES; MAPPED WITHIN THE NE 1/4 SW 1/4 OF SECTION 28 AND THE SE 1/4 NW 1/4 OF SECTION 28.				
<b>Ecological:</b>	COLONY ON THE NORTH SIDE OF HWY 6 IN HEAVILY GRAZED ALKALINE MEADOW; POPULATION SOUTH OF HWY 6 IN MOIST ALKALINE MEADOW. ASSOCIATED WITH DISTICHLIS SPICATA, JUNCUS BALTICUS, ANEMOPSIS CALIFORNICA, ROSA WOODSII, AND CHRYSOTHAMNUS NAUSEOSUS.				
<b>General:</b>	NORTH COLONY: ~500 PLANTS IN 1982 & 1983, NONE IN 1992, 3 IN 1993, 10 IN 1994, 5 IN 1995. SOUTH COLONY: 15 PLANTS IN 1985; NONE IN 1992-1995. DROUGHT (MID 1980'S TO 1992) MAY HAVE AFFECTED SITES.				
<b>Owner/Manager:</b>	LADWP				



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<b>Occurrence No.</b>	32	<b>Map Index:</b>	01002	<b>EO Index:</b>	19197	<b>Element Last Seen:</b>	2006-05-22
<b>Occ. Rank:</b>	Fair	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		2006-05-22	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2013-05-01	
<b>Quad Summary:</b>	Fish Slough (3711844)						
<b>County Summary:</b>	Inyo						
<b>Lat/Long:</b>	37.38338 / -118.42739			<b>Accuracy:</b>	specific area		
<b>UTM:</b>	Zone-11 N4138359 E373633			<b>Elevation (ft):</b>	4220		
<b>PLSS:</b>	T06S, R32E, Sec. 35, E (M)			<b>Acres:</b>	90.1		
<b>Location:</b>	SOUTH AND EAST OF BISHOP CREEK BYPASS CANAL, SOUTH OF DIXON LANE AND EAST OF BROCKMAN LANE, ABOUT 2 MILES NW OF BISHOP.						
<b>Detailed Location:</b>	PLANTS LOCATED NEAR RABBITBRUSH AT EDGE OF PASTURE, NOT IN MIDDLE OF PASTURE. MAPPED WITHIN THE SOUTH HALF OF THE NE 1/4 OF SECTION 35 AND THE NORTH HALF OF THE SE 1/4 OF SECTION 35.						
<b>Ecological:</b>	WEEDY IRRIGATED PASTURE. ASSOCIATED WITH ERICAMERIA NAUSEOSA, JUNCUS BALTICUS, SPOROBOLUS AIROIDES, POA PRATENSIS, ZIGADENUS, HORDEUM JUBATUM, IRIS MISSOURIENSIS, POTENTILLA, LEYMUS CINEREUS, L. TRITICOIDES, DISTICHLIS SPICATA, TARAXACUM.						
<b>General:</b>	APPROXIMATELY 100 PLANTS SEEN IN 1984, 1000+ IN 1989, APPROXIMATELY 1400 IN 1992, APPROXIMATELY 1300 IN 1993, 50-100 IN 1994, >200 IN 1995, >26,000 IN 2001. AN UNKNOWN NUMBER OF PLANTS OBSERVED IN 2006 DURING A CALOCHORTUS EXCAVATUS SURVEY.						
<b>Owner/Manager:</b>	LADWP						

<b>Occurrence No.</b>	33	<b>Map Index:</b>	01496	<b>EO Index:</b>	24267	<b>Element Last Seen:</b>	1997-05-30
<b>Occ. Rank:</b>	Poor	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		2009-06-XX	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Decreasing	<b>Record Last Updated:</b>		2010-08-05	
<b>Quad Summary:</b>	Fish Slough (3711844)						
<b>County Summary:</b>	Inyo						
<b>Lat/Long:</b>	37.40986 / -118.41974			<b>Accuracy:</b>	specific area		
<b>UTM:</b>	Zone-11 N4141286 E374355			<b>Elevation (ft):</b>	4180		
<b>PLSS:</b>	T06S, R32E, Sec. 24, SW (M)			<b>Acres:</b>	16.2		
<b>Location:</b>	NORTH OF RIVERSIDE DRIVE BETWEEN FIVE BRIDGES AND BISHOP CREEK BYPASS, ABOUT 3.5 AIR MILES NNW OF BISHOP.						
<b>Detailed Location:</b>	BETWEEN FIVE BRIDGES ROAD AND "C" DRAIN. MAPPED WITHIN THE SW 1/4 SW 1/4 OF SECTION 24 AND SE 1/4 SW 1/4 SECTION 24.						
<b>Ecological:</b>	MOIST ALKALINE MEADOW ASSOCIATED WITH CHRYSOTHAMNUS NAUSEOSUS, SPOROBOLUS AIRIODES, JUNCUS BALTICUS, LEYMUS TRITICOIDES, CAREX SPP., DISTICHLIS SPICATA VAR. STRICTA, AND PHRAGMITES COMMUNIS. THE RARE CALOCHORTUS EXCAVATUS IS ALSO NEARBY.						
<b>General:</b>	~100 PLANTS IN 1984, ~800 PLANTS IN 1985, 4 PLANTS IN 1990 AND 1991, ~70 IN 1992, 329 IN 1993, BETWEEN 67 AND 111 IN 1994, 306 IN 1995, 276 IN 1996, 333 IN 1997. NO PLANTS WERE SEEN AT THE FIVE BRIDGES TREND PLOT IN EARLY 2009.						
<b>Owner/Manager:</b>	LADWP						



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<b>Occurrence No.</b>	40	<b>Map Index:</b> 21459	<b>EO Index:</b> 29122	<b>Element Last Seen:</b> 1993-05-21
<b>Occ. Rank:</b>	Fair		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1993-05-21
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 1996-06-04

**Quad Summary:** Poleta Canyon (3711833)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.26922 / -118.35115	<b>Accuracy:</b>	specific area
<b>UTM:</b>	Zone-11 N4125593 E380202	<b>Elevation (ft):</b>	4040
<b>PLSS:</b>	T08S, R33E, Sec. 09, NE (M)	<b>Acres:</b>	60.4

**Location:** 1.5 MI NORTHEAST OF KEOUGH HOT SPRINGS, 0.7 MI EAST OF HWY 395 AND 1 MI SOUTH OF COLLINS RD.  
**Detailed Location:** NEAR EAST-WEST FENCELINE. SITE MAPPED WITHIN THE E 1/2 OF THE NE 1/4 OF SECTION 9, THE NE 1/4 OF THE SE 1/4 OF SECTION 9, AND THE W 1/2 OF THE NW 1/4 OF SECTION 10.  
**Ecological:** IN ALKALI MEADOW WITH SPOROBOLUS AIROIDES, DISTICHLIS SPICATA VAR. STRICTA, POA JUNCIFOLIA, HAPLOPAPPUS RACEMOSUS, JUNCUS BALTICUS, AND CHRYSOTHAMNUS NAUSEOSUS.  
**General:** APPROX 300 PLANTS OBSERVED IN 1987, 500+ SEEN IN 1992 (SITE VERY DRY), AND 3700 SEEN IN 1993.  
**Owner/Manager:** LADWP

<b>Occurrence No.</b>	41	<b>Map Index:</b> 21460	<b>EO Index:</b> 13906	<b>Element Last Seen:</b> 2010-06-08
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 2010-06-08
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2013-05-01

**Quad Summary:** Poleta Canyon (3711833)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.27416 / -118.31813	<b>Accuracy:</b>	specific area
<b>UTM:</b>	Zone-11 N4126100 E383137	<b>Elevation (ft):</b>	4000
<b>PLSS:</b>	T08S, R33E, Sec. 11, NE (M)	<b>Acres:</b>	10.8

**Location:** ABOUT 0.5 MILE SOUTH OF COLLINS ROAD JUST EAST OF THE BIG PINE CANAL, BETWEEN BISHOP AND BIG PINE, OWENS VALLEY.  
**Detailed Location:** MAPPED WITHIN THE NW 1/4 OF THE NE 1/4 OF SECTION 11.  
**Ecological:** IN ALKALI MEADOW WITH LEYMUS TRITICOIDES, DISTICHLIS SPICATA VAR. STRICTA, JUNCUS BALTICUS, SPOROBOLUS AIROIDES, CAREX SP., ERICAMERIA NAUSEOSA, ANEMOPSIS CALIFORNICA, AND GLYCYRRHIZA LEPIDOTA.  
**General:** ABOUT 100 PLANTS OBSERVED IN 1987, 765 IN 1992, APPROXIMATELY 900 IN 1993, 1100+ IN 1994, 755 IN 1995, 1517 IN 2004, AND 244 PLANTS SEEN IN 2010.  
**Owner/Manager:** LADWP



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<b>Occurrence No.</b>	42	<b>Map Index:</b> 27971	<b>EO Index:</b> 29121	<b>Element Last Seen:</b>	2012-05-21
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2012-05-21
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2012-12-10
<b>Quad Summary:</b>	Poleta Canyon (3711833)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.29324 / -118.32145		<b>Accuracy:</b>	80 meters	
<b>UTM:</b>	Zone-11 N4128221 E382872		<b>Elevation (ft):</b>	3990	
<b>PLSS:</b>	T07S, R33E, Sec. 35, SE (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	ABOUT 0.75 MILE NORTH OF COLLINS ROAD AND 0.6 MILE WEST OF THE OWENS RIVER, 6 MILES SOUTHEAST OF BISHOP.				
<b>Detailed Location:</b>	ALONG EAST SIDE OF SAUNDERS RETURN DITCH WITHIN THE WEST 1/2 OF THE SE 1/4 OF SECTION 35.				
<b>Ecological:</b>	ALKALINE MEADOW WITH DISTICHLIS SPICATA VAR. STRICTA, CAREX SPP., SPOROBOLUS AIROIDES, JUNCUS BALTICUS, ERICAMERIA NAUSEOSA, AND LEYMUS TRITICOIDES.				
<b>General:</b>	59 PLANTS OBSERVED IN 1992, 20 IN 1993, NOT SEEN IN 1994, 46 IN 1995, 54 IN 1996, OVER 50 IN 2001, AND 294 SEEN IN 2012.				
<b>Owner/Manager:</b>	LADWP				
<b>Occurrence No.</b>	44	<b>Map Index:</b> 40267	<b>EO Index:</b> 35272	<b>Element Last Seen:</b>	1996-06-06
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1996-06-06
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	1998-12-01
<b>Quad Summary:</b>	Poleta Canyon (3711833)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.36389 / -118.34231		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4136086 E381135		<b>Elevation (ft):</b>	4060	
<b>PLSS:</b>	T07S, R33E, Sec. 03, SW (M)		<b>Acres:</b>	5.1	
<b>Location:</b>	EAST OF BISHOP AIRPORT, ABOUT 0.15 MILE NORTH OF EAST LINE ST (POLETA RD) ALONG WEST SIDE OF OWENS RIVER, OWENS VALLEY.				
<b>Detailed Location:</b>	MAPPED ABOUT 200-400 METERS NORTH OF E. LINE STREET ON EAST SIDE OF DIRT ROAD WITHIN RIVER FLOOD PLAIN; SE 1/4 SW 1/4 SECTION 3.				
<b>Ecological:</b>	WET ALKALINE MEADOW WITH LEYMUS TRITICOIDES, DISTICHLIS SPICATA, JUNCUS BALTICUS, CREPIS RUNCINATA HALLII, CORDYLANTHUS SP., GLYCYRRHIZA LEPIDOTA, SPOROBOLUS AIROIDES, ROSA WOODSII, BASSIA HYSSOPIFOLIA, HELIANTHUS ANNUUS, CHRYSOTHANMUS ETC.				
<b>General:</b>	19,400 PLANTS OBSERVED IN 1995, 9470 IN 1996. VEGETATION AT THIS SITE IS TALL AND DENSE. SOME SIDALCEA WITH SEVERAL FLOWER STALKS.				
<b>Owner/Manager:</b>	LADWP				





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<b><i>Eremothera boothii ssp. intermedia</i></b>		<b>Element Code:</b> PDONA03056	
Booth's hairy evening-primrose			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G5T3T4
	<b>State:</b> None		<b>State:</b> S3
	<b>Other:</b> Rare Plant Rank - 2B.3		
<b>Habitat:</b>	<b>General:</b> GREAT BASIN SCRUB, PINYON AND JUNIPER WOODLAND.		
	<b>Micro:</b> SANDY SITES. 880-2685 M.		

<b>Occurrence No.</b>	16	<b>Map Index:</b> 53409	<b>EO Index:</b> 83845	<b>Element Last Seen:</b> 1986-05-27
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1986-05-27
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2011-06-08

**Quad Summary:** Laws (3711843)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.39625 / -118.31449	<b>Accuracy:</b>	1/5 mile
<b>UTM:</b>	Zone-11 N4139642 E383648	<b>Elevation (ft):</b>	4240
<b>PLSS:</b>	T06S, R33E, Sec. 26, SE (M)	<b>Acres:</b>	0.0

**Location:** AT THE SPRING 0.7 MILE SOUTH OF THE MOUTH OF SILVER CANYON, 1.7 MILES ESE OF LAWS, OWENS VALLEY.  
**Detailed Location:** EXACT LOCATION UNKNOWN; MAPPED AS BEST GUESS BY CNDDDB IN THE VICINITY OF DRY LAKE SPRING.  
**Ecological:** MIXED ALLUVIUM SLOPING 8 DEGREES SW. ASSOCIATED WITH ATRIPLEX AND PSOROTHAMNUS.  
**General:** ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1986 COLLECTION BY MOREFIELD.  
**Owner/Manager:** LADWP

<b><i>Dedeckera eurekaensis</i></b>		<b>Element Code:</b> PDPGN06010	
July gold			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G3
	<b>State:</b> Rare		<b>State:</b> S3
	<b>Other:</b> Rare Plant Rank - 1B.3, BLM_S-Sensitive, SB_BerrySB-Berry Seed Bank, USFS_S-Sensitive		
<b>Habitat:</b>	<b>General:</b> MOJAVEAN DESERT SCRUB.		
	<b>Micro:</b> ON ROCKY RIDGES, CLIFFS, AND TALUS SLOPES, AND SOMETIMES IN WASHES. RESTRICTED TO CARBONATE SOILS. 910-2075 M.		



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<b>Occurrence No.</b>	6	<b>Map Index:</b> 01868	<b>EO Index:</b> 20939	<b>Element Last Seen:</b>	2009-08-05
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2009-08-05
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2013-05-03
<b>Quad Summary:</b>	Poleta Canyon (3711833), Laws (3711843)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.37418 / -118.29681		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4137172 E385179		<b>Elevation (ft):</b>	4800	
<b>PLSS:</b>	T07S, R33E, Sec. 01, NE (M)		<b>Acres:</b>	20.3	
<b>Location:</b>	UNNAMED CANYON ABOUT 2 MILES NORTH OF POLETA CANYON, EAST OF BISHOP, WEST SLOPE OF WHITE MOUNTAINS.				
<b>Detailed Location:</b>	BETWEEN SILVER AND POLETA CANYONS, ABOUT 2.2 MILES NE OF POLETA ROAD AT JUNCTION WITH POLETA-LAWS ROAD. ON BORDER OF BLM AND FOREST SERVICE LAND. MAPPED ALONG CANYON IN NE 1/4 OF NE 1/4 OF SECTION 1 AND ADJACENT SECTION 6.				
<b>Ecological:</b>	ON A GRAVELLY NORTH-FACING SLOPE, A FEW PLANTS IN WASH. ASSOCIATED WITH ATRIPLEX CONFERTIFOLIA, ERIOGONUM HEERMANNII, PETALONYX NITIDUS, PSOROTHAMNUS FREMONTII, MIRABILIS, DALEA, AND ENCELIA. ON POLETA FORMATION LIMESTONE.				
<b>General:</b>	ABOUT 200 PLANTS SEEN IN 1980, <100 PLANTS IN 1982, 425 IN 1991, 350 IN 1993, 200 IN 1998, AND "HUNDREDS" IN 2000. UNKNOWN NUMBER OF PLANTS OBSERVED IN 2004 AND 2009. INCLUDES FORMER OCCURRENCE #16.				
<b>Owner/Manager:</b>	BLM, USFS-INYO NF				
<b>Occurrence No.</b>	8	<b>Map Index:</b> 01887	<b>EO Index:</b> 14155	<b>Element Last Seen:</b>	2007-05-13
<b>Occ. Rank:</b>	Excellent		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2007-05-13
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2011-06-29
<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Mono				
<b>Lat/Long:</b>	37.47847 / -118.28467		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4148728 E386412		<b>Elevation (ft):</b>	5900	
<b>PLSS:</b>	T05S, R34E, Sec. 30, S (M)		<b>Acres:</b>	323.0	
<b>Location:</b>	ALONG COLDWATER CANYON ABOUT 2 TO 5.5 MILES EAST OF HIGHWAY 6, NORTHEAST OF BISHOP, WEST SLOPE OF WHITE MOUNTAINS.				
<b>Detailed Location:</b>	ON TALUS SLOPES OF CANYON FROM ABOUT 0.15-3.8 MILES UPSTREAM FROM MOUTH OF COLDWATER CANYON. MAPPED MOSTLY WITHIN THE NE 1/4 SEC 35, N 1/4 SEC 36, S 1/4 SEC 30, N 1/4 SEC 31, AND S 1/2 SEC 29. FROM 5150 TO 7200 FEET ELEVATION.				
<b>Ecological:</b>	ON NORTH AND SOUTH-FACING TALUS SLOPES OF THE CANYON. ASSOCIATED WITH ATRIPLEX CONFERTIFOLIA, EPHEDRA NEVADENSIS, PETALONYX NITIDUS, MIRABILIS BIGELOVII, M. FROBELII, CHRYSOTHAMNUS VISCIDIFLORUS, C. TERETIFOLIUS, ERIOGONUM HEERMANNII ET AL.				
<b>General:</b>	THIS IS THE LARGEST CONTINUOUS STAND KNOWN. 2620 PLANTS OBSERVED IN 1987. UNKNOWN NUMBER OBSERVED IN E PORTION IN 2002. 150 PLANTS SEEN IN PORTION OF OCCURRENCE (NEAR MIDDLE OF S 1/2 OF SEC 30) IN 2005. OBSERVED IN "COLDWATER CYN" IN 2007.				
<b>Owner/Manager:</b>	USFS-INYO NF, BLM				



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<b>Occurrence No.</b>	9	<b>Map Index:</b> 01860	<b>EO Index:</b> 20937	<b>Element Last Seen:</b>	1998-07-28
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1998-07-28
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2000-02-29
<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.44919 / -118.29991		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4145497 E385020		<b>Elevation (ft):</b>	5200	
<b>PLSS:</b>	T06S, R33E, Sec. 01, N (M)		<b>Acres:</b>	42.9	
<b>Location:</b>	ALONG GUNTER CREEK CANYON SOUTH TO SOUTHEAST OF SOUTHERN BELLE MINE, NORTHEAST OF BISHOP, WEST SLOPE OF WHITE MOUNTAINS.				
<b>Detailed Location:</b>	ABOUT 2-3 MILES EAST OF HIGHWAY 6. SEVERAL COLONIES INCLUDED WITH THIS OCCURRENCE; MAPPED MOSTLY WITHIN THE W 1/2 NW 1/4 SECTION 12, N 1/4 SEC 12, AND S 1/4 SE 1/4 SECTION 1.				
<b>Ecological:</b>	ON NORTH-FACING CALCAREOUS ROCK. ASSOCIATED WITH ATRIPLEX CONFERTIFOLIA, HECASTOCLEIS SHOCKLEYI, EPHEDRA NEVADENSIS, ARTEMISIA, ACHNATHERUM HYMENOIDES, A. SPECIOSA, ELYMUS ELYMOIDES, MIRABILIS BIGELOVII, STANLEYA ELATA, ET AL.				
<b>General:</b>	195+ PLANTS OBSERVED IN 1987, 47 IN SINGLE COLONY ALONG S-SIDE OF CANYON IN 1991, 50+ IN COLONY IN CANYON BOTTOM IN 1992, AND 418 PLANTS OBSERVED IN 1998. INYO NF POPULATION #2.				
<b>Owner/Manager:</b>	BLM, USFS-INYO NF				
<b>Occurrence No.</b>	15	<b>Map Index:</b> 42461	<b>EO Index:</b> 42461	<b>Element Last Seen:</b>	1981-07-03
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1981-07-03
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2000-02-29
<b>Quad Summary:</b>	Poleta Canyon (3711833)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.36549 / -118.28121		<b>Accuracy:</b>	non-specific area	
<b>UTM:</b>	Zone-11 N4136188 E386548		<b>Elevation (ft):</b>	5900	
<b>PLSS:</b>	T07S, R34E, Sec. 06, SE (M)		<b>Acres:</b>	166.5	
<b>Location:</b>	CANYON ABOUT 2 MILES NNE OF MOUTH OF POLETA CANYON, EAST OF BISHOP, WEST SLOPE WHITE MOUNTAINS.				
<b>Detailed Location:</b>	COLLECTION LABEL PRINTOUT FROM UC GIVES THE FOLLOWING DIRECTIONS "FIRST CANYON NORTH OF POLETA CANYON, T7S R34E S6 SE".				
<b>Ecological:</b>					
<b>General:</b>	ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1981 TAYLOR COLLECTION.				
<b>Owner/Manager:</b>	USFS-INYO NF				



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<b>Occurrence No.</b>	18	<b>Map Index:</b> 42462	<b>EO Index:</b> 42462	<b>Element Last Seen:</b>	2007-05-14
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2007-05-14
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2009-10-21
<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Mono				
<b>Lat/Long:</b>	37.46984 / -118.30666		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4147797 E384454		<b>Elevation (ft):</b>	5500	
<b>PLSS:</b>	T05S, R33E, Sec. 36, SW (M)		<b>Acres:</b>	3.0	
<b>Location:</b>	ALONG CANYON ABOUT 0.9 MILE SOUTHEAST OF MOUTH OF COLDWATER CANYON, NORTHEAST OF BISHOP, WHITE MOUNTAINS.				
<b>Detailed Location:</b>	MAPPED BY CNDDDB AS FOUR COLONIES ALONG CANYON: TWO NEAR THE CENTER OF THE WEST EDGE OF SECTION 36, AND TWO JUST WEST OF THE MIDDLE OF SECTION 36.				
<b>Ecological:</b>	DESERT SCRUB ON POLETA FORMATION (LIMESTONE) AND CAMPITO SANDSTONE. NW SLOPE. ASSOCIATED WITH ERIOGONUM HEERMANNII, BRICKELLIA, ETC.				
<b>General:</b>	TWO WESTERN COLONIES: 50+ PLANTS OBSERVED IN 1991 AND 17 IN 2007. 4 PLANTS OBSERVED IN CENTRAL COLONY IN 1991. 5 PLANTS OBSERVED IN CENTRAL AND EASTERN COLONIES IN 1998.				
<b>Owner/Manager:</b>	USFS-INYO NF				
<b>Occurrence No.</b>	19	<b>Map Index:</b> 42463	<b>EO Index:</b> 42463	<b>Element Last Seen:</b>	1998-07-30
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1998-07-30
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2009-10-14
<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Mono				
<b>Lat/Long:</b>	37.46964 / -118.29376		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4147758 E385595		<b>Elevation (ft):</b>	6020	
<b>PLSS:</b>	T05S, R34E, Sec. 31, SW (M)		<b>Acres:</b>	1.9	
<b>Location:</b>	ABOUT 1.4 MI ENE OF SOUTHERN BELLE MINE BETWEEN COLDWATER CANYON AND GUNTER CANYON, NE OF BISHOP, WEST SLOPE WHITE MTNS.				
<b>Detailed Location:</b>	MAPPED ALONG EAST SIDE OF DRAINAGE ABOUT 0.25 MILE NORTHEAST OF OPEN PIT MINE (ON TOPO), IN THE NW 1/4 OF THE SW 1/4 OF SECTION 31.				
<b>Ecological:</b>	ON ROCKY SANDSTONE RIDGETOP WITH ATRIPLEX CONFERTIFOLIA, TETRADYMIA, ACHNATHERUM SPECIOSUM, PLEURAPHIS JAMESII, AND SYMPHORICARPOS LONGIFLORUS.				
<b>General:</b>	25 PLANTS SEEN IN 1998. INYO NF POPULATION #10.				
<b>Owner/Manager:</b>	USFS-INYO NF				



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<b>Occurrence No.</b>	20	<b>Map Index:</b> 42464	<b>EO Index:</b> 42464	<b>Element Last Seen:</b>	1998-08-06
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1998-08-06
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2010-12-29
<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Mono				
<b>Lat/Long:</b>	37.46897 / -118.28194		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4147670 E386640		<b>Elevation (ft):</b>	6500	
<b>PLSS:</b>	T05S, R34E, Sec. 31, SE (M)		<b>Acres:</b>	40.1	
<b>Location:</b>	ABOUT 1.8 MI ENE OF SOUTHERN BELLE MINE BETWEEN COLDWATER CANYON AND GUNTER CANYON, NE OF BISHOP, WEST SLOPE WHITE MTNS.				
<b>Detailed Location:</b>	4 COLONIES MAPPED ALONG AND ABOVE CANYON THAT DRAINS JUST SOUTH OF SOUTHERN BELLE MINE. MAPPED WITHIN THE SE 1/4 SECTION 31.				
<b>Ecological:</b>	SAGE SCRUB WITH ARTEMISIA SPP., ATRIPLEX CONFERTIFOLIA, HECASTOCLEIS SHOCKLEYI, EPHEDRA NEVADENSIS, ELYMUS ELYMOIDES, ACHNATHERUM SPECIOSUM, A. HYMENOIDES, MENODORA SPINESCENS, AND ERIOGONUM HEERMANNII.				
<b>General:</b>	525+ PLANTS IN 3 COLONIES IN 1991, AND 40 PLANTS OBSERVED OVER PORTION OF OCCURRENCE IN 1998. INYO NF POPULATIONS #5, 6, AND 7.				
<b>Owner/Manager:</b>	USFS-INYO NF				
<b>Occurrence No.</b>	21	<b>Map Index:</b> 51113	<b>EO Index:</b> 51113	<b>Element Last Seen:</b>	2005-06-24
<b>Occ. Rank:</b>	Excellent		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2005-06-24
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2006-07-26
<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Mono				
<b>Lat/Long:</b>	37.49554 / -118.30729		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4150649 E384438		<b>Elevation (ft):</b>	5900	
<b>PLSS:</b>	T05S, R33E, Sec. 24, SW (M)		<b>Acres:</b>	18.2	
<b>Location:</b>	NORTH OF COLDWATER CANYON AND SOUTH OF PIUTE CANYON, NNE OF LAWS, WHITE MOUNTAINS.				
<b>Detailed Location:</b>	OCCURS PRIMARILY ON STEEP, NORTH-FACING SLOPES BUT ABOUT 15-20% DO OCCUR ON SOUTH-FACING ASPECTS. 5 COLONIES MAPPED AROUND AND IN HEAD OF SMALL CANYON IN THE SW 1/4 OF SECTION 24.				
<b>Ecological:</b>	DESERT SCRUB DOMINATED BY ATRIPLEX CONFERTIFOLIA, CHRYSOTHAMNUS TERETIFOLIUS, ERIOGONUM HEERMANNII, HECASTOCLEIS SHOCKLEYI, KRASCHENINNIKOVIA LANATA, TETRADYMIA AXILLARIS, T. GLABRATA. SUBSTRATES ARE CALCAREOUS.				
<b>General:</b>	500+ PLANTS OBSERVED IN 2000, AND UNKNOWN NUMBER SEEN IN 2003. 450 PLANTS SEEN IN SE POLYGON IN 2005. INYO NF POPULATION #11.				
<b>Owner/Manager:</b>	USFS-INYO NF, BLM				



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<b>Occurrence No.:</b>	26	<b>Map Index:</b>	65389	<b>EO Index:</b>	65468	<b>Element Last Seen:</b>	2005-06-20
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		2005-06-20	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2006-07-26	

**Quad Summary:** Laws (3711843)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.44756 / -118.27813	<b>Accuracy:</b>	specific area
<b>UTM:</b>	Zone-11 N4145290 E386943	<b>Elevation (ft):</b>	6140
<b>PLSS:</b>	T06S, R34E, Sec. 07, NE (M)	<b>Acres:</b>	3.2

**Location:** ABOUT 2.3 MILES ESE OF SOUTHERN BELLE MINE AND 1 MILE SOUTH OF INYO/MONO COUNTY LINE, WHITE MOUNTAINS.

**Detailed Location:** BASED ON DIGITAL DATA FROM INYO NF. MAPPED ALONG DIRT ROAD 6S03A IN TRIBUTARY OF GUNTER CREEK, IN THE NE 1/4 OF THE NE 1/4 OF SECTION 7 AND INTO ADJACENT SECTION 8.

**Ecological:**

**General:** 4 PLANTS SEEN IN 2005. INYO NF POPULATION #12.

**Owner/Manager:** USFS-INYO NF

***Erythranthe calycicola*** **Element Code:** PDPHR01010  
 limestone monkeyflower

<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G3
	<b>State:</b> None		<b>State:</b> S3
<b>Other:</b>	Rare Plant Rank - 1B.3, BLM_S-Sensitive, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden		
<b>Habitat:</b>	<b>General:</b> JOSHUA TREE WOODLAND, MOJAVEAN DESERT SCRUB, PINYON AND JUNIPER WOODLAND.		
	<b>Micro:</b> PRIMARILY ON TALUS SLOPES ON SUBSTRATES DERIVED FROM CARBONATE ROCK. 910-2075 M.		

<b>Occurrence No.:</b>	15	<b>Map Index:</b>	90865	<b>EO Index:</b>	91904	<b>Element Last Seen:</b>	1986-04-15
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		1986-04-15	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2013-11-08	

**Quad Summary:** Laws (3711843)

**County Summary:** Mono

<b>Lat/Long:</b>	37.47839 / -118.30436	<b>Accuracy:</b>	1/10 mile
<b>UTM:</b>	Zone-11 N4148743 E384671	<b>Elevation (ft):</b>	5450
<b>PLSS:</b>	T05S, R33E, Sec. 25, SW (M)	<b>Acres:</b>	0.0

**Location:** SIDE DRAINAGE OFF OF COLDWATER CANYON, APPROXIMATELY 1.3 AIR MILES NE OF SOUTHERN BELLE MINE, WHITE MOUNTAINS.

**Detailed Location:** MAPPED BY CNDDDB AROUND THE SIDE DRAINAGE IN SECTION 25 THAT IS AT ABOUT 5450 FT (1662 METERS) IN ELEVATION BASED ON TRS AND ELEVATION INFORMATION ON COLLECTION LABEL.

**Ecological:** CALCAREOUS SHALE COLLUVIUM, SLOPING 10 DEGREES SOUTH. ASSOCIATED WITH ARTEMISIA, CHRYSOTHAMNUS, BRICKELLIA, TETRADYMIA, OPUNTIA, ETC.

**General:** SITE BASED ON A 1986 MOREFIELD & MCCARTY COLLECTION. MOREFIELD (2013) MENTIONS THAT HE HAS MADE SEVERAL ATTEMPTS TO RELOCATE THIS POPULATION IN GOOD RAIN YEARS BUT HAS NOT BEEN ABLE TO RELOCATE IT. NEEDS FIELDWORK.

**Owner/Manager:** USFS-INYO NF



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<b><i>Aliciella triodon</i></b>		<b>Element Code:</b> PDPLM041T0	
coyote gilia			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G5
	<b>State:</b> None		<b>State:</b> S2
	<b>Other:</b> Rare Plant Rank - 2B.2		
<b>Habitat:</b>	<b>General:</b> GREAT BASIN SCRUB, PINYON AND JUNIPER WOODLAND.		
	<b>Micro:</b> FINE CLAYEY SAND OR SAND. 600-1670 M.		

<b>Occurrence No.</b>	5	<b>Map Index:</b>	72197	<b>EO Index:</b>	73145	<b>Element Last Seen:</b>	1969-06-06
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		1969-06-06	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>	2008-09-09		

**Quad Summary:** Laws (3711843)  
**County Summary:** Mono

<b>Lat/Long:</b>	37.47725 / -118.33743	<b>Accuracy:</b>	1 mile
<b>UTM:</b>	Zone-11 N4148657 E381745	<b>Elevation (ft):</b>	4300
<b>PLSS:</b>	T05S, R33E, Sec. 34 (M)	<b>Acres:</b>	0.0

**Location:** NORTH END OF OWENS VALLEY, ON COLDWATER CANYON FAN, NEAR COUNTY LINE.  
**Detailed Location:** EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB AS A BEST GUESS CENTERED ON MOUTH OF COLDWATER CANYON AND VALLEY.  
**Ecological:**  
**General:** ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1969 COLLECTION BY DEDECKER. NEEDS FIELDWORK.  
**Owner/Manager:** UNKNOWN



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<b><i>Ranunculus hydrocharoides</i></b>		<b>Element Code:</b> PDRAN0L190	
frog's-bit buttercup			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G4
	<b>State:</b> None		<b>State:</b> S1
	<b>Other:</b> Rare Plant Rank - 2B.1		
<b>Habitat:</b>	<b>General:</b> MARSHES AND SWAMPS.		
	<b>Micro:</b> IN OR BORDERING SHALLOW SPRINGS OR FRESHWATER MARSHES IN THE MOUNTAINS. 1260-2320 M.		

<b>Occurrence No.</b>	1	<b>Map Index:</b>	21870	<b>EO Index:</b>	20447	<b>Element Last Seen:</b>	1994-11-30
<b>Occ. Rank:</b>	Poor	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		1994-11-30	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2010-02-17	

**Quad Summary:** Bishop (3711834)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.37067 / -118.40415	<b>Accuracy:</b>	specific area
<b>UTM:</b>	Zone-11 N4136918 E375669	<b>Elevation (ft):</b>	4140
<b>PLSS:</b>	T07S, R33E, Sec. 06, NW (M)	<b>Acres:</b>	24.0

**Location:** BISHOP; AT WEST END OF SIERRA STREET, BETWEEN HIGHWAY 395 AND BISHOP CREEK.  
**Detailed Location:** PLANTS FOUND BEHIND THE CATHOLIC CHURCH, IN THE DITCH ON SIERRA ST, IN THE MAIN CANAL AT THE END OF SIERRA ST, AND IN ONE OF THE TWO SMALLER DITCHES RUNNING PARALLEL TO THE CANAL. 2 COLONIES MAPPED BY CNDDDB IN NW 1/4 SEC 6 AND NE 1/4 SEC 1.  
**Ecological:** IN WATER CHANNELS THAT RUN THROUGH BISHOP. ASSOCIATED WITH MYOSOTIS SCORPIORDES AND GRASSES.  
**General:** 1979: PLANTS SCATTERED THROUGHOUT CHANNELS, BUT NOT IN GREAT NUMBERS. 1994: TWO PLANTS FOUND IN AUGUST, SITE REVISITED AND MORE PLANTS FOUND IN NOVEMBER. 1941 WOGLUM COLLECTION FROM BISHOP CREEK ALSO ATTRIBUTED TO THIS OCCURRENCE.  
**Owner/Manager:** LADWP

<b><i>Ivesia kingii var. kingii</i></b>		<b>Element Code:</b> PDROS0X092	
alkali ivesia			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G4T3Q
	<b>State:</b> None		<b>State:</b> S2
	<b>Other:</b> Rare Plant Rank - 2B.2, BLM_S-Sensitive		
<b>Habitat:</b>	<b>General:</b> MEADOWS AND SEEPS, GREAT BASIN SCRUB, PLAYAS.		
	<b>Micro:</b> ALKALINE MEADOWS, ALKALINE FLATS, AND LOW-LYING ALKALINE BASINS; W/ DISTICHLIS, SPOROBOLUS, JUNCUS, ETC. 635-2130 M.		





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<b>Occurrence No.</b>	1	<b>Map Index:</b> 21889	<b>EO Index:</b> 12269	<b>Element Last Seen:</b> 1989-XX-XX
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1989-XX-XX
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2009-12-21
<b>Quad Summary:</b>	Fish Slough (3711844)			
<b>County Summary:</b>	Inyo, Mono			
<b>Lat/Long:</b>	37.47166 / -118.40708		<b>Accuracy:</b> specific area	
<b>UTM:</b>	Zone-11 N4148126 E375577		<b>Elevation (ft):</b> 4230	
<b>PLSS:</b>	T05S, R32E, Sec. 31, W (M)		<b>Acres:</b> 573.2	
<b>Location:</b>	FISH SLOUGH, FROM 3 KM NORTH TO 3 KM SOUTH OF MONO/INYO COUNTY LINE.			
<b>Detailed Location:</b>	INCLUDES PORTIONS OF T05S R32E SEC. 19, 30, & 31; T05S R32E SEC. 25 & 36; T06S R33E SEC. 6 & 7; T06S R32E SEC. 12.			
<b>Ecological:</b>	IN ALKALI FLAT HABITATS AND IN LOW LYING ALKALI BASINS. ASSOCIATES INCLUDE SCIRPUS, TYPHA, ELEOCHARIS, ELYMUS, POA, JUNCUS, DISTICHLIS, SPARTINA, SPOROBOLUS, ALLENROLFEA, CHRYSOTHAMNUS, ATRIPLEX, AND GLYCERRIA.			
<b>General:</b>	SEVERAL THOUSAND PLANTS OBSERVED IN 1986. COLLECTIONS FROM 1958, 1974, 1977, 1979, AND 1983 ARE ALSO ATTRIBUTED TO THIS OCCURRENCE. WITHIN THE BLM-BISHOP RESOURCE AREA, SOME OF THE POPULATION ON PRIVATE LAND, SOME ON LDWP LAND.			
<b>Owner/Manager:</b>	BLM, PVT			
<b>Occurrence No.</b>	2	<b>Map Index:</b> 22581	<b>EO Index:</b> 19965	<b>Element Last Seen:</b> 1989-XX-XX
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1989-XX-XX
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2009-12-21
<b>Quad Summary:</b>	Fish Slough (3711844), Chidago Canyon (3711854)			
<b>County Summary:</b>	Mono			
<b>Lat/Long:</b>	37.50897 / -118.40746		<b>Accuracy:</b> specific area	
<b>UTM:</b>	Zone-11 N4152266 E375605		<b>Elevation (ft):</b> 4240	
<b>PLSS:</b>	T05S, R32E, Sec. 24 (M)		<b>Acres:</b> 349.6	
<b>Location:</b>	FISH SLOUGH, UPPER REACHES OF SLOUGH INCLUDING TRIBUTARY SPRINGS.			
<b>Detailed Location:</b>	INCLUDES PORTIONS OF T05S R32E SEC. 13 & 24; T05S R33E SEC. 18 & 19.			
<b>Ecological:</b>	IN ALKALI MEADOW, ALKALI FLAT, AND LOW LYING ALKALI BASIN HABITATS. ASSOCIATES INCLUDE SPOROBOLUS AIROIDES, DISTICHLIS SPICATA VAR. STRICTA, SPARTINA GRAACILIS, JUNCUS BALTICUS, AND CHRYSOTHAMNUS ALBIDUS.			
<b>General:</b>	UNKNOWN NUMBER OF PLANTS OBSERVED IN 1989. SMALL (<1 HA) POPULATION OF LEPIDIUM LATIFOLIUM OCCURS AT NW SPRING, BUT CONTROL MEASURES HAVE BEEN APPLIED AND FULL CONTAINMENT SHOULD OCCUR SOON.			
<b>Owner/Manager:</b>	LADWP			



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<b>Occurrence No.</b>	12	<b>Map Index:</b>	77630	<b>EO Index:</b>	78534	<b>Element Last Seen:</b>	2004-05-21
<b>Occ. Rank:</b>	Poor	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		2004-05-21	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2009-12-15	
<b>Quad Summary:</b>	Laws (3711843)						
<b>County Summary:</b>	Mono						
<b>Lat/Long:</b>	37.49268 / -118.33292			<b>Accuracy:</b>	specific area		
<b>UTM:</b>	Zone-11 N4150364 E382168			<b>Elevation (ft):</b>	4520		
<b>PLSS:</b>	T05S, R33E, Sec. 22, SE (M)			<b>Acres:</b>	1.0		
<b>Location:</b>	ABOUT 3 AIR MILES SSE OF COMMUNITY OF CHALFANT VALLEY, 1.4 AIR MILES EAST OF INTERSECTION OF HIGHWAY 6 AND TUNGSTEN RD.						
<b>Detailed Location:</b>	EXISTING HOUSING 1000 FT DOWNSLOPE TO WEST, BLM/LADWP LAND TO NORTH, EAST, AND SOUTH. POPULATION IS ADJACENT TO A DEVEGETATED OHV TRAIL WITH MANY ATV TRACKS IN SCRUB. MAPPED IN THE SE 1/4 OF THE SE 1/4 OF SECTION 22.						
<b>Ecological:</b>	BIG SAGEBRUSH SCRUB. ALKALINE, POWDERY WHITE SOIL. BETWEEN FAULT-CONTROLLED SPRINGS ON AN OPEN, SUNNY N-FACING SLOPE. ASSOCIATED W/ ASTRAGALUS ARGOPHYLLUS VAR. ARGOPHYLLUS, ERIOGONUM SHOCKLEYI VAR. SHOCKLEYI, CRYPTANTHA CONFERTIFLORA, ETC.						
<b>General:</b>	23 PLANTS OBSERVED IN 2004. POPULATION MAY EXTEND TO BLM LAND AT LARGE SPRING COMPLEX IMMEDIATELY SOUTH.						
<b>Owner/Manager:</b>	PVT						

<b>Occurrence No.</b>	13	<b>Map Index:</b>	41355	<b>EO Index:</b>	78537	<b>Element Last Seen:</b>	1995-08-16
<b>Occ. Rank:</b>	Good	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		1995-08-16	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2009-12-15	
<b>Quad Summary:</b>	Laws (3711843)						
<b>County Summary:</b>	Inyo						
<b>Lat/Long:</b>	37.38132 / -118.33766			<b>Accuracy:</b>	specific area		
<b>UTM:</b>	Zone-11 N4138014 E381574			<b>Elevation (ft):</b>	4000		
<b>PLSS:</b>	T06S, R33E, Sec. 34, SE (M)			<b>Acres:</b>	3.2		
<b>Location:</b>	EAST SIDE OF OWENS RIVER ABOUT 1.4 AIR MILES SSE OF LAWS, OWENS VALLEY.						
<b>Detailed Location:</b>	BETWEEN THE RIVER AND DIRT ROAD WITHIN THE NW 1/4 OF THE SE 1/4 OF SECTION 34.						
<b>Ecological:</b>	SMALL, OPEN ALKALINE SOIL PATCH SURROUNDED BY ALKALI MEADOW. ASSOCIATED WITH DISTICHLIS SPICATA, SPOROBOLUS AIROIDES, JUNCUS BALTICUS, CIRSIUM SP., PYRROCOMA RACEMOSA, GLYCYRRHIZA LEPIDOTA, CORDYLANTHUS MARITIMUS SSP. CANESCENS, ETC.						
<b>General:</b>	100-200 PLANTS OBSERVED IN 1993 AND 1995. THE RARE ASTRAGALUS ARGOPHYLLUS VAR. ARGOPHYLLUS ALSO OCCURS AT THIS SITE.						
<b>Owner/Manager:</b>	LADWP						

<b><i>Oryctes nevadensis</i></b>		<b>Element Code:</b> PDSOL0Q010	
Nevada oryctes			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G3
	<b>State:</b> None		<b>State:</b> S2
	<b>Other:</b> Rare Plant Rank - 2B.1		
<b>Habitat:</b>	<b>General:</b> CHENOPOD SCRUB, MOJAVEAN DESERT SCRUB.		
	<b>Micro:</b> DRY SITES IN LOOSE SANDY SOIL IN WASHES AND DESERT FOOTHILLS IN THE OWENS VALLEY. 975-2535 M.		



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<b>Occurrence No.</b>	1	<b>Map Index:</b> 38229	<b>EO Index:</b> 33236	<b>Element Last Seen:</b> 1990-04-30
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1990-04-30
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 1998-02-26

**Quad Summary:** Laws (3711843)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.38652 / -118.35308	<b>Accuracy:</b>	specific area
<b>UTM:</b>	Zone-11 N4138610 E380217	<b>Elevation (ft):</b>	4100
<b>PLSS:</b>	T06S, R33E, Sec. 33, NE (M)	<b>Acres:</b>	225.7

**Location:** BETWEEN BISHOP CREEK AND OWENS RIVER ABOUT 1 MILE SOUTHWEST OF LAWS, NORTHEAST OF BISHOP, OWENS VALLEY.

**Detailed Location:** MAPPED AREA INCLUDES PORTIONS OF S 1/2 SE 1/4 SECTION 28, NE 1/4 SECTION 33 AND W 1/2 NW 1/4 SECTION 34.

**Ecological:** SHADSCALE SCRUB WITH ATRIPLEX CONFERTIFOLIA, TETRADYMIA AXILLARIS, PSOROTHAMNUS ABORESCENS, P. POLYDENIA, CHRYSOTHAMNUS NAUSEOSUS, AND ORYZOPSIS HYMENOIDES. SURFACE TEXTURE - SAND AND LOAMY SAND.

**General:** 82 PLANTS SCATTERED OVER LARGE AREA IN 1990. PLANTS GROWING ALONG ROADSIDE AND IN OPEN SPACES BETWEEN SHRUBS. 1886 COLLECTION BY SHOCKLEY FROM "BISHOP CREEK" IS ATTRIBUTED TO THIS SITE.

**Owner/Manager:** LADWP

<b>Occurrence No.</b>	20	<b>Map Index:</b> 38210	<b>EO Index:</b> 33217	<b>Element Last Seen:</b> 1992-04-14
<b>Occ. Rank:</b>	Fair		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1992-04-14
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 1998-02-25

**Quad Summary:** Poleta Canyon (3711833)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.26910 / -118.29671	<b>Accuracy:</b>	1/10 mile
<b>UTM:</b>	Zone-11 N4125513 E385029	<b>Elevation (ft):</b>	3985
<b>PLSS:</b>	T08S, R33E, Sec. 12, NE (M)	<b>Acres:</b>	0.0

**Location:** NORTH OF BIG PINE AND SOUTHEAST OF BISHOP, ALONG ROAD ABOUT 1.2 MI SSE OF OWENS RIVER AT BIG PINE CANAL, OWENS VALLEY.

**Detailed Location:** GROWING ALONG (WEST SIDE OF?) OLD DIRT ROAD AND OLD RR GRADE ABOUT 0.8 MILE SOUTH OF COLLINS ROAD; WITHIN THE SE 1/4 NE 1/4 SECTION 12.

**Ecological:** SHADSCALE SCRUB COMMUNITY WITH ATRIPLEX CONFERTIFOLIA, SARCOBATUS VERMICULATUS, CHRYSOTHAMNUS NAUSEOSUS, TETRADYMIA GLABRATA, ORYZOPSIS HYMENOIDES, AND CRYPTANTHA. SOIL SURFACE: LOAMY SAND.

**General:** 9 PLANTS OBSERVED IN 1992.

**Owner/Manager:** LADWP



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<b>Occurrence No.</b>	21	<b>Map Index:</b> 38211	<b>EO Index:</b> 33218	<b>Element Last Seen:</b>	1992-04-14
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1992-04-14
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	1998-02-25
<b>Quad Summary:</b>	Poleta Canyon (3711833)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.27995 / -118.29763		<b>Accuracy:</b>	1/10 mile	
<b>UTM:</b>	Zone-11 N4126718 E384963		<b>Elevation (ft):</b>	3985	
<b>PLSS:</b>	T08S, R33E, Sec. 01, SE (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	NORTH OF BIG PINE AND SOUTHEAST OF BISHOP, ALONG ROAD ABOUT 1.2 MI ESE OF OWENS RIVER AT BIG PINE CANAL, OWENS VALLEY.				
<b>Detailed Location:</b>	MAPPED EAST OF DIRT ROAD AND OLD RR GRADE ABOUT 0.2 MILE SOUTH OF COLLINS ROAD (WRITTEN DIRECTIONS STATE 0.4 MI, MAPPED SITE IS 0.2 MI); WITHIN THE NE 1/4 SE 1/4 SECTION 1.				
<b>Ecological:</b>	SHADSCALE SCRUB COMMUNITY WITH ATRIPLEX CONFERTIFOLIA, SARCOBATUS VERMICULATUS, CHRYSOTHAMNUS NAUSEOSUS, PSOROTHAMNUS POLYDENIA, TETRADYMIA GLABRATA, T. AXILLARIS, OENOTHERA, AND CRYPTANTHA.				
<b>General:</b>	28 PLANTS OBSERVED IN 1992.				
<b>Owner/Manager:</b>	LADWP				
<b>Occurrence No.</b>	22	<b>Map Index:</b> 38212	<b>EO Index:</b> 33219	<b>Element Last Seen:</b>	1991-05-20
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1991-05-20
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	1998-02-25
<b>Quad Summary:</b>	Poleta Canyon (3711833)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.28373 / -118.32035		<b>Accuracy:</b>	1/10 mile	
<b>UTM:</b>	Zone-11 N4127165 E382955		<b>Elevation (ft):</b>	4020	
<b>PLSS:</b>	T08S, R33E, Sec. 02, NE (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	NORTH OF BIG PINE AND SOUTHEAST OF BISHOP, NORTH OF COLLINS RD AND SW OF OWENS RIVER AT BIG PINE CANAL, OWENS VALLEY.				
<b>Detailed Location:</b>	ON BENCH NORTH OF COLLINS ROAD ABOUT 3 MILES FROM HIGHWAY 395 AND 0.15 MILE EAST OF BIG PINE CANAL. MAPPED WITHIN THE SW 1/4 NE 1/4 SECTION 2.				
<b>Ecological:</b>	MIXED DESERT SCRUB WITH EPHEDRA NEVADENSIS, TETRADYMIA AXILLARIS, ATRIPLEX CONFERTIFOLIA, CHRYSOTHAMNUS NAUSEOSUS, AND PSOROTHAMNUS POLYDENIA. INYO SOIL; SANDY SURFACE.				
<b>General:</b>	18 PLANTS OBSERVED IN 1991. NO VISIBLE DISTURBANCES.				
<b>Owner/Manager:</b>	LADWP				



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<b>Occurrence No.</b>	23	<b>Map Index:</b> 38213	<b>EO Index:</b> 33220	<b>Element Last Seen:</b> 1992-04-13
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1992-04-13
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2010-10-05

**Quad Summary:** Poleta Canyon (3711833)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.30094 / -118.30399	<b>Accuracy:</b>	non-specific area
<b>UTM:</b>	Zone-11 N4129054 E384431	<b>Elevation (ft):</b>	4000
<b>PLSS:</b>	T07S, R33E, Sec. 36, N (M)	<b>Acres:</b>	40.0

**Location:** ABOUT 4 AIR MI E OF HWY 395 AND SE OF BISHOP, ALONG DIRT ROAD 1.6 AND 1.9 RD MI S OF WARM SPRINGS RD, OWENS VALLEY.

**Detailed Location:** MAPPED AS TWO COLONIES BASED ON TWO NOVAK 1992 FIELD SURVEY MAPS.

**Ecological:** SHADSCALE SCRUB COMMUNITY WITH EPHEDRA NEVADENSIS, TETRADYMIA GLABRATA, GRAYIA SPINOSA, ATRIPLEX CONFERTIFOLIA, A. CANESCENS, ERIOGONUM, AND PSOROTHAMNUS POLYDENIA. SANDY SOIL.

**General:** 48 PLANTS OBSERVED IN S COLONY AND 18 IN THE NORTH IN 1992. CONTAINS FORMER EO #24.

**Owner/Manager:** LADWP

<b>Occurrence No.</b>	25	<b>Map Index:</b> 38215	<b>EO Index:</b> 33222	<b>Element Last Seen:</b> 1990-05-15
<b>Occ. Rank:</b>	Fair		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1990-05-15
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 1998-02-25

**Quad Summary:** Poleta Canyon (3711833)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.31457 / -118.33580	<b>Accuracy:</b>	1/10 mile
<b>UTM:</b>	Zone-11 N4130606 E381634	<b>Elevation (ft):</b>	4035
<b>PLSS:</b>	T07S, R33E, Sec. 27, NE (M)	<b>Acres:</b>	0.0

**Location:** SOUTHEAST OF BISHOP, ABOUT 0.7 MILE SOUTH OF WARM SPRINGS ROAD AND 1.2 MILES WEST OF THE OWENS RIVER, OWENS VALLEY.

**Detailed Location:** ABOUT 0.75 MILE SOUTH ON DIRT ROAD FROM WARM SPRINGS ROAD AT RAWSON CANAL CROSSING. SITE IS NEAR END OF THE ROAD'S EAST FORK. MAPPED NEAR THE CENTER OF THE NE 1/4 SECTION 27.

**Ecological:** GROWING WITH ATRIPLEX CANESCENS, A. CONFERTIFOLIA, TETRADYMIA AXILLARIS, PSOROTHAMNUS POLYDENIA, CHRYSOTHAMNUS NAUSEOSUS, AND EPHEDRA NEVEDENSIS. SOIL: INYO SAND.

**General:** 61 PLANTS OBSERVED IN 1990.

**Owner/Manager:** LADWP



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<b>Occurrence No.</b>	26	<b>Map Index:</b> 38217	<b>EO Index:</b> 33224	<b>Element Last Seen:</b>	1991-05-20
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1991-05-20
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	1998-02-25
<b>Quad Summary:</b>	Poleta Canyon (3711833)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.32696 / -118.34384		<b>Accuracy:</b>	1/10 mile	
<b>UTM:</b>	Zone-11 N4131991 E380941		<b>Elevation (ft):</b>	4075	
<b>PLSS:</b>	T07S, R33E, Sec. 22, NW (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	SOUTHEAST OF BISHOP, JUST NORTH OF WARM SPRINGS ROAD AND 1.6 MILES WEST OF THE OWENS RIVER, OWENS VALLEY.				
<b>Detailed Location:</b>	BETWEEN WARM SPRINGS ROAD AND DUCK POND WITHIN THE SE 1/4 NW 1/4 SECTION 22.				
<b>Ecological:</b>	MIXED DESERT SCRUB WITH EPHEDRA NEVADENSIS, ATRIPLEX CANESCENS, A. CONFERTIFOLIA, TETRADYMIA AXILLARIS, CHRYSOTHAMNUS NAUSEOSUS, AND GRAYIA SPINOSA. SOIL: INYO SAND, SURFACE TEXTURE - SAND.				
<b>General:</b>	71 PLANTS OBSERVED IN 1991. SITE RECOMMENDED FOR AVOIDANCE DURING MAINTENANCE/CLEAN-UP OF DUCK POND AND ADJOINING CANAL.				
<b>Owner/Manager:</b>	LADWP				
<b>Occurrence No.</b>	27	<b>Map Index:</b> 38218	<b>EO Index:</b> 33225	<b>Element Last Seen:</b>	1990-05-15
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1990-05-15
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	1998-02-25
<b>Quad Summary:</b>	Poleta Canyon (3711833)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.32717 / -118.33338		<b>Accuracy:</b>	1/10 mile	
<b>UTM:</b>	Zone-11 N4132001 E381868		<b>Elevation (ft):</b>	4050	
<b>PLSS:</b>	T07S, R33E, Sec. 22, NE (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	SOUTHEAST OF BISHOP, JUST NORTH OF WARM SPRINGS ROAD AND 1 MILE WEST OF THE OWENS RIVER, OWENS VALLEY.				
<b>Detailed Location:</b>	ON HIGH BENCH EAST OF RAWSON CANAL BETWEEN WARM SPRINGS ROAD AND CANAL ROAD. MAPPED WITHIN THE SE 1/4 NE 1/4 SECTION 22.				
<b>Ecological:</b>	EPHEDRA NEVADENSIS, ATRIPLEX CANESCENS, TETRADYMIA AXILLARIS, PSOROTHAMNUS POLYDENIA, AND GRAYIA SPINOSA. SOIL: INYO SAND.				
<b>General:</b>	30 PLANTS OBSERVED IN 1990. SOME PLANTS CROPPED; POSSIBLY BY SMALL RODENTS OR INSECTS. GRAZING OCCURS NEARBY BUT SITE IS APPARENTLY NOT THREATENED.				
<b>Owner/Manager:</b>	LADWP				



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<b>Occurrence No.</b>	28	<b>Map Index:</b> 38219	<b>EO Index:</b> 33226	<b>Element Last Seen:</b>	1990-05-14
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1990-05-14
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	1998-02-25

**Quad Summary:** Poleta Canyon (3711833)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.32390 / -118.30924	<b>Accuracy:</b>	1/10 mile
<b>UTM:</b>	Zone-11 N4131608 E384002	<b>Elevation (ft):</b>	4020
<b>PLSS:</b>	T07S, R33E, Sec. 24, SW (M)	<b>Acres:</b>	0.0

**Location:** SOUTHEAST OF BISHOP, JUST SOUTHWEST OF WARM SPRINGS ROAD AT EASTSIDE ROAD, EAST OF THE OWENS RIVER, OWENS VALLEY.  
**Detailed Location:** SOUTH OF CORRALS ALONG WARM SPRINGS ROAD WITHIN THE N 1/2 SW 1/4 SECTION 24.  
**Ecological:** MIXED SCRUB WITH ATRIPLEX CONFERTIFOLIA, TETRADYMIA GLABRATA, PSOROTHAMNUS ARBORESCENS, SARCOBATUS VERMICULATUS, CERATOIDES LANATA, COLDENIA, AND OENOTHERA. SOIL: LOOSE SAND.  
**General:** 374 PLANTS OBSERVED IN 1990. PLANTS UP TO 6" HIGH. GRAZING OCCURS IN AREA BUT APPARENTLY NOT A THREAT TO THIS SITE.  
**Owner/Manager:** LADWP

<b>Occurrence No.</b>	29	<b>Map Index:</b> 38220	<b>EO Index:</b> 33227	<b>Element Last Seen:</b>	1991-05-21
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1991-05-21
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	1998-02-25

**Quad Summary:** Poleta Canyon (3711833)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.34154 / -118.33659	<b>Accuracy:</b>	1/10 mile
<b>UTM:</b>	Zone-11 N4133599 E381606	<b>Elevation (ft):</b>	4090
<b>PLSS:</b>	T07S, R33E, Sec. 15, NE (M)	<b>Acres:</b>	0.0

**Location:** EAST OF BISHOP AND SE OF BISHOP AIRPORT, ABOUT 1.1 MI N OF WARM SPRINGS RD AND 0.5 MI WEST OF OWENS RIVER, OWENS VALLEY.  
**Detailed Location:** ABOUT 1.5 MILES SOUTH OF EAST LINE STREET ON SANDY BENCH WEST OF BUCKLEY PONDS. MAPPED WITHIN THE SW 1/4 NE 1/4 SECTION 15.  
**Ecological:** MIXED DESERT SCRUB WITH ATRIPLEX CANESCENS, EPHEDRA NEVADENSIS, PSOROTHAMNUS POLYDENIA, AND CHRYSOTHAMNUS NAUSEOSUS. SOIL: POLETA SAND, SURFACE TEXTURE - SAND.  
**General:** 25 PLANTS OBSERVED IN 1991.  
**Owner/Manager:** LADWP



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<b>Occurrence No.</b>	30	<b>Map Index:</b> 38222	<b>EO Index:</b> 33229	<b>Element Last Seen:</b> 1991-06-17
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1991-06-17
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2010-10-04

**Quad Summary:** Poleta Canyon (3711833)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.35352 / -118.33993	<b>Accuracy:</b>	non-specific area
<b>UTM:</b>	Zone-11 N4134932 E381328	<b>Elevation (ft):</b>	4040
<b>PLSS:</b>	T07S, R33E, Sec. 10, E (M)	<b>Acres:</b>	66.0

**Location:** ABOUT 3 ROAD MI EAST OF BISHOP AND 0.5-1 MI SOUTH OF POLETA RD NEAR BUCKLEY POND AND WEST OF OWENS RIVER, OWENS VALLEY.

**Detailed Location:** SOUTH OF POLETA ROAD (EAST LINE STREET) ON TOPS OF STABILIZED DUNES. MAPPED AS SEVERAL COLONIES ACCORDING TO 1990 AND 1991 FIELD SURVEY MAPS FROM NOVAK AND PAYNE.

**Ecological:** MIXED DESERT SCRUB WITH ATRIPLEX CANESCENS, A. CONFERTIFOLIA, EPHEDRA NEVADENSIS, PSOROTHAMNUS POLYDENIA, P. ARBORESCENS, CERATOIDES LANATA, TETRADYMIA AXILLARIS, ABRONIA, LANGLOSIA, ETC. SOIL: INYO SAND.

**General:** 33 PLANTS SEEN IN THE NORTHERN COLONIES AND 117 PLANTS SEEN IN THE SOUTHERN MOST COLONY IN 1990. 110 OBSERVED IN 1991 IN THE THREE NORTHERNMOST COLONIES, WITH THE HIGHEST DENSITY OF PLANTS CLOSEST TO E LINE ST. CONTAINS FORMER EO #31.

**Owner/Manager:** LADWP

<b>Occurrence No.</b>	32	<b>Map Index:</b> 38225	<b>EO Index:</b> 33232	<b>Element Last Seen:</b> 1990-05-15
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1990-05-15
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 1998-02-26

**Quad Summary:** Big Pine (3711823), Poleta Canyon (3711833)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.25094 / -118.29306	<b>Accuracy:</b>	1/10 mile
<b>UTM:</b>	Zone-11 N4123493 E385325	<b>Elevation (ft):</b>	3975
<b>PLSS:</b>	T08S, R34E, Sec. 18, SW (M)	<b>Acres:</b>	0.0

**Location:** NORTH OF BIG PINE, SE OF BISHOP; 2.3 MI SSE OF OWENS RIVER AT BIG PINE CANAL AND 1.6 MI SW OF WARM SPGS, OWENS VALLEY.

**Detailed Location:** MAPPED BETWEEN OWENS VALLEY RADIO OBSERVATORY ROAD AND COLLINS ROAD WITHIN THE NW 1/4 SW 1/4 SECTION 18.

**Ecological:** SHADSCALE SCRUB WITH ATRIPLEX CONFERTIFOLIA, EPHEDRA NEVADENSIS, CERATOIDES LANATA, PSOROTHAMNUS ARBORESCENS, MENODORA SPINESCENS, AND SARCOBATUS VERMICULATUS. SOIL: MAZOURKA, SURFACE TEXTURE - SANDY LOAM.

**General:** 160 PLANTS OBSERVED IN 1990. PLANTS ADJACENT TO DIRT ROAD AND AMONG SHRUBS.

**Owner/Manager:** LADWP





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<b>Occurrence No.</b>	33	<b>Map Index:</b> 38226	<b>EO Index:</b> 33233	<b>Element Last Seen:</b>	1991-06-05
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1991-06-05
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	1998-02-26
<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.40533 / -118.36790		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4140716 E378935		<b>Elevation (ft):</b>	4120	
<b>PLSS:</b>	T06S, R33E, Sec. 21, SW (M)		<b>Acres:</b>	10.5	
<b>Location:</b>	NORTHEAST OF BISHOP, ABOUT 0.5 MILE NORTH OF HIGHWAY 6 AND 0.25 MILE WEST OF THE OWENS RIVER, OWENS VALLEY.				
<b>Detailed Location:</b>	ALONG HIGHWAY 6 ABOUT 3 MILES FROM JUNCTION WITH HWY 395, THEN NORTH ON DIRT ROAD ABOUT 0.5 MILE. BOTH SIDES OF ROAD. MAPPED WITHIN THE SE CORNER OF SECTION 20, SW CORNER SEC 21, NW CORNER SEC 28 AND NE CORNER SEC 29.				
<b>Ecological:</b>	SHADSCALE SCRUB WITH ATRIPLEX CONFERTIFOLIA, A. TORREYI, A. CANESCENS, EPHEDRA NEVADENSIS, GRAYIA SPINOSA, PSOROTHAMNUS ARBORESCENS, P. POLYDENIA, ORYZOPSIS HYMENOIDES, AND SEVERAL ANNUALS. SANDY SOILS.				
<b>General:</b>	190 PLANTS OBSERVED IN 1990, 65 IN 1991. PLANTS SCATTERED OVER LARGE AREA. SOME PLANTS APPEAR TO HAVE BEEN CROPPED BY RODENTS.				
<b>Owner/Manager:</b>	LADWP				
<b>Occurrence No.</b>	34	<b>Map Index:</b> 38227	<b>EO Index:</b> 33234	<b>Element Last Seen:</b>	1990-04-30
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1990-04-30
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	1998-02-26
<b>Quad Summary:</b>	Fish Slough (3711844)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.39765 / -118.38323		<b>Accuracy:</b>	1/10 mile	
<b>UTM:</b>	Zone-11 N4139884 E377566		<b>Elevation (ft):</b>	4130	
<b>PLSS:</b>	T06S, R33E, Sec. 29, NW (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	NORTH OF BISHOP, ALONG HIGHWAY 6 ABOUT 2 MI FROM JUNCTION WITH HWY 395 AND 1.2 AIR MI FROM FIVE BRIDGES, OWENS VALLEY.				
<b>Detailed Location:</b>	BOTH SIDES OF HIGHWAY NEAR THE CENTER OF THE W 1/2 SECTION 29.				
<b>Ecological:</b>	MIXED SCRUB WITH ATRIPLEX CONFERTIFOLIA, EPHEDRA NEVADENSIS, PSOROTHAMNUS POLYDENIA, P. ARBORESCENS, TETRADYMIA AXILLARIS, SARCOBATUS VERMICULATUS, ORYZOPSIS HYMENOIDES, COLDENIA AND CRYPTANTHA. SANDY SOILS.				
<b>General:</b>	78 PLANTS OBSERVED IN 1990.				
<b>Owner/Manager:</b>	LADWP				



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<b>Occurrence No.</b>	35	<b>Map Index:</b> 38228	<b>EO Index:</b> 33235	<b>Element Last Seen:</b> 1991-05-20
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1991-05-20
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 1998-02-26
<b>Quad Summary:</b>	Fish Slough (3711844)			
<b>County Summary:</b>	Inyo			
<b>Lat/Long:</b>	37.40496 / -118.38262		<b>Accuracy:</b> 1/10 mile	
<b>UTM:</b>	Zone-11 N4140694 E377632		<b>Elevation (ft):</b> 4160	
<b>PLSS:</b>	T06S, R33E, Sec. 29, NW (M)		<b>Acres:</b> 0.0	
<b>Location:</b>	NORTH OF BISHOP, BETWEEN HIGHWAY 6 AND OWENS RIVER ABOUT 0.8 MILE SOUTHEAST OF FIVE BRIDGES, OWENS VALLEY.			
<b>Detailed Location:</b>	SITE IS ABOUT 0.5 MILE NORTH OF HIGHWAY 6 AND 0.75 MILE EAST OF FIVE BRIDGES ROAD. MAPPED WITHIN THE SW 1/4 SECTION 20 AND THE NW 1/4 SECTION 29.			
<b>Ecological:</b>	SHADSCALE SCRUB WITH ATRIPLEX CONFERTIFOLIA, TETRADYMIA AXILLARIS, PSOROTHAMNUS ABORESCENS, EPHEDRA NEVADENSIS, GRAYIA SPINOSA, AND SARCOBATUS VERMICULATUS. SOIL: POLETA SAND.			
<b>General:</b>	109 PLANTS OBSERVED IN 1991. PLANTS GROWING BETWEEN SHRUBS AND IN THE DIRT ROAD THAT BISECTS POPULATION.			
<b>Owner/Manager:</b>	LADWP			
<b><i>Fimbristylis thermalis</i></b>				<b>Element Code:</b> PMCYP0B0N0
hot springs fimbristylis				
<b>Listing Status:</b>	<b>Federal:</b> None		<b>CNDDB Element Ranks:</b>	<b>Global:</b> G4
	<b>State:</b> None			<b>State:</b> S1S2
	<b>Other:</b>	Rare Plant Rank - 2B.2, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden		
<b>Habitat:</b>	<b>General:</b>	MEADOWS AND SEEPS (ALKALINE).		
	<b>Micro:</b>	NEAR HOT SPRINGS. 115-1585 M.		
<b>Occurrence No.</b>	2	<b>Map Index:</b> 21896	<b>EO Index:</b> 16590	<b>Element Last Seen:</b> 2010-10-24
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 2010-10-24
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2015-04-14
<b>Quad Summary:</b>	Poleta Canyon (3711833)			
<b>County Summary:</b>	Inyo			
<b>Lat/Long:</b>	37.26655 / -118.27232		<b>Accuracy:</b> 80 meters	
<b>UTM:</b>	Zone-11 N4125200 E387187		<b>Elevation (ft):</b> 4000	
<b>PLSS:</b>	T08S, R34E, Sec. 08, SW (M)		<b>Acres:</b> 0.0	
<b>Location:</b>	WARM SPRINGS, ABOUT 2.6 MILES WEST OF BLACK MOUNTAIN, EASTERN EDGE OF OWENS VALLEY.			
<b>Detailed Location:</b>	MAPPED AROUND SPRINGS AND OUTFLOW CHANNELS, IN THE NORTH HALF OF THE SW 1/4 OF SECTION 8.			
<b>Ecological:</b>	ALONG SOD BANKS OF WARM EFFLUENT SPRINGS AND OUTFLOW CHANNELS. ASSOCIATED WITH SARCOBATUS, CHRYSOTHAMNUS, DISTICHLIS, CLEOMELLA, JUNCUS, CAREX, ELEOCHARIS, ATRIPLEX, CIRSIUM, ETC.			
<b>General:</b>	UNKNOWN NUMBER OF PLANTS SEEN IN 1977, 1986, AND 2010.			
<b>Owner/Manager:</b>	LADWP			



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<b>Occurrence No.</b>	3	<b>Map Index:</b> 21484	<b>EO Index:</b> 16589	<b>Element Last Seen:</b>	1964-08-XX
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1964-08-XX
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2005-12-28
<b>Quad Summary:</b>	Poleta Canyon (3711833), Bishop (3711834)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.25428 / -118.37574		<b>Accuracy:</b>	1/10 mile	
<b>UTM:</b>	Zone-11 N4123968 E377997		<b>Elevation (ft):</b>	4000	
<b>PLSS:</b>	T08S, R33E, Sec. 17, NW (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	WESTERN EDGE OF OWENS VALLEY, KEOUGH HOT SPRINGS.				
<b>Detailed Location:</b>	BASED ON 1964 COLLECTION FROM "KEOUGH HOT SPRINGS, 4000 FEET.". MAPPED AS BEST GUESS AT SPRINGS.				
<b>Ecological:</b>	SANDY LOAM OF DRY COUNTRY ALONG STREAM. PLANTS CONFINED TO HOTTEST AREA ALONG BANKS.				
<b>General:</b>	ONLY SOURCE IS 1964 COLLECTION BY KRAL. EXACT LOCATION UNKNOWN; NEEDS FIELDWORK.				
<b>Owner/Manager:</b>	UNKNOWN				
<b>Occurrence No.</b>	6	<b>Map Index:</b> 21885	<b>EO Index:</b> 8800	<b>Element Last Seen:</b>	1989-XX-XX
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1989-XX-XX
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2010-05-18
<b>Quad Summary:</b>	Fish Slough (3711844)				
<b>County Summary:</b>	Mono				
<b>Lat/Long:</b>	37.47834 / -118.40251		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4148862 E375992		<b>Elevation (ft):</b>	4220	
<b>PLSS:</b>	T05S, R33E, Sec. 30, SW (M)		<b>Acres:</b>	10.0	
<b>Location:</b>	FISH SLOUGH, APPROX 0.7 AIR MILE EAST OF FISH SLOUGH ROAD AND FROM 0.9 TO 1.2 AIR MILE NORTH OF INYO/MONO COUNTY LINE.				
<b>Detailed Location:</b>	TWO COLONIES, ONE IN THE SW 1/4 OF THE SW 1/4 OF SECTION 30, THE OTHER IN THE NW 1/4 OF THE NW 1/4 OF SECTION 31.				
<b>Ecological:</b>	OCCURS IN SEASONALLY FLOODED MARSH AND ALKALI TRANSITION HABITATS.				
<b>General:</b>	PLANTS WERE COMMON AT BOTH SITES IN 1989.				
<b>Owner/Manager:</b>	BLM				
<b>Occurrence No.</b>	7	<b>Map Index:</b> 21886	<b>EO Index:</b> 8799	<b>Element Last Seen:</b>	1989-XX-XX
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1989-XX-XX
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	1993-08-09
<b>Quad Summary:</b>	Fish Slough (3711844)				
<b>County Summary:</b>	Inyo, Mono				
<b>Lat/Long:</b>	37.46041 / -118.40007		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4146869 E376179		<b>Elevation (ft):</b>	4230	
<b>PLSS:</b>	T06S, R33E, Sec. 06, NW (M)		<b>Acres:</b>	9.2	
<b>Location:</b>	FISH SLOUGH, 0.5 KM EAST OF FISH SLOUGH ROAD, JUST SOUTH OF THE INYO/MONO COUNTY BORDER.				
<b>Detailed Location:</b>	MAPPED BY CNDDDB IN THE NW 1/4 OF SECTION 6 FROM 3 LOCATIONS ON MAP IN 1991 FERREN REPORT.				
<b>Ecological:</b>	OCCURS IN SEASONALLY FLOODED MARSH AND ALKALI TRANSITION HABITATS.				
<b>General:</b>	PLANTS WERE RARE WITHIN POLYGON IN 1989.				
<b>Owner/Manager:</b>	BLM				

Element Code: PMLIL0D0F0



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***Calochortus excavatus***

Inyo County star-tulip

<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDB Element Ranks:</b>	<b>Global:</b> G2
	<b>State:</b> None		<b>State:</b> S2
	<b>Other:</b> Rare Plant Rank - 1B.1, BLM_S-Sensitive, USFS_S-Sensitive		
<b>Habitat:</b>	<b>General:</b> CHENOPOD SCRUB, MEADOWS AND SEEPS (ALKALINE).		
	<b>Micro:</b> MOSTLY ON FINE, SANDY LOAM SOILS WITH ALKALINE SALTS; GRASSY MEADOWS IN SHADSCALE SCRUB. 120-2195 M.		

<b>Occurrence No.</b>	1	<b>Map Index:</b> 01442	<b>EO Index:</b> 22160	<b>Element Last Seen:</b> 2006-05-22
<b>Occ. Rank:</b>	Fair		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 2006-05-22
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2013-04-29

**Quad Summary:** Fish Slough (3711844)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.41047 / -118.43721	<b>Accuracy:</b>	specific area
<b>UTM:</b>	Zone-11 N4141377 E372809	<b>Elevation (ft):</b>	4240
<b>PLSS:</b>	T06S, R32E, Sec. 23, SW (M)	<b>Acres:</b>	8.3

**Location:** OWENS RIVER, 2.25 MILES WEST OF FIVE BRIDGES AND 0.5 MILE EAST OF BISHOP CREEK CANAL INTAKE, NORTHWEST OF BISHOP.

**Detailed Location:** BETWEEN THE CANAL AND RIVER, IN THE NW 1/4 OF THE SW 1/4 OF SECTION 23.

**Ecological:** IN CLAY LOAM IN MOIST ALKALINE MEADOW; ASSOCIATED WITH DISTICHLIS SPICATA STRICTA, SPOROBOLUS AIROIDES, IRIS MISSOURIENSIS, ROSA WOODSII, CHRYSOTHAMNUS NAUSEOSUS, JUNCUS BALTICUS, GLYCYRRHIZA LEPIDOTA, AND ERICAMERIA NAUSEOSA.

**General:** FEWER THAN 10 PLANTS IN A LESS THAN 1 SQ METER AREA IN 1981, 17 SEEN IN 1982, 0 IN 1992 (DROUGHT YEAR), 20 IN 1993, 27 IN 1995, 30 IN 1996, AND 99 IN 2006.

**Owner/Manager:** LADWP

<b>Occurrence No.</b>	2	<b>Map Index:</b> 01604	<b>EO Index:</b> 19984	<b>Element Last Seen:</b> 2008-05-21
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 2008-05-21
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2013-04-23

**Quad Summary:** Fish Slough (3711844)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.40884 / -118.39032	<b>Accuracy:</b>	1/10 mile
<b>UTM:</b>	Zone-11 N4141135 E376956	<b>Elevation (ft):</b>	4140
<b>PLSS:</b>	T06S, R33E, Sec. 19, SE (M)	<b>Acres:</b>	0.0

**Location:** NORTH OF BISHOP AND ABOUT 0.5 MILE EAST OF FIVE BRIDGES ROAD, SOUTH OF OWENS RIVER.

**Detailed Location:** ALONG A DIRT ROAD.

**Ecological:** MOIST, ALKALINE, CLAY MEADOW. ASSOCIATED WITH SPOROBOLUS AIROIDES, JUNCUS BALTICUS, DISTICHLIS SPICATA STRICTA, GLYCYRRHIZA LEPIDOTA, SALIX, AND CHRYSOTHAMNUS NAUSEOSUS.

**General:** FEWER THAN 50 PLANTS OVER 1-5 SQ METERS IN 1981. ABOUT 50 PLANTS SEEN IN 1982. PLANTS SEARCHED FOR BUT NOT SEEN IN 1992 (DUE TO DROUGHT?). 90 PLANTS OBSERVED IN 1993. 327 PLANTS IN 1995, 430 IN 1997, AND 878 IN 2008.

**Owner/Manager:** LADWP



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<b>Occurrence No.</b>	4	<b>Map Index:</b> 01626	<b>EO Index:</b> 22157	<b>Element Last Seen:</b>	2012-05-07
<b>Occ. Rank:</b>	Fair		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2012-05-07
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2013-04-23

**Quad Summary:** Bishop (3711834)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.27572 / -118.38751	<b>Accuracy:</b>	specific area
<b>UTM:</b>	Zone-11 N4126361 E376988	<b>Elevation (ft):</b>	4440
<b>PLSS:</b>	T08S, R33E, Sec. 06, SE (M)	<b>Acres:</b>	22.2

**Location:** WILKERSON RANCH AREA, 0.4 MILE SOUTH OF COLLINS ROAD AT GERKIN ROAD, ABOUT 6 MILES SOUTH OF BISHOP.

**Detailed Location:** MAPPED AS 2 POLYGONS. WESTERN POLYGON IS ABOUT 0.4 MILE SW OF INTERSECTION OF COLLINS ROAD AND GERKIN ROAD. EASTERN POLYGON IS ON WEST SIDE OF GERKIN ROAD JUST NORTH OF LUCAS MEAT PLANT SIGN.

**Ecological:** IN A SEEP ALONG A DRY E-FACING SLOPE. WITHIN SAGEBRUSH/RABBIT BRUSH COMMUNITY ASSOCIATED WITH JUNCUS, SALIX, CHRYSOTHAMNUS NAUSEOSUS, ROSA WOODSII, ARTEMISIA TRIDENTATA, LEYMUS CINEREUS, SPOROBOLUS AIROIDES, AND THE RARE SIDALCEA COVILLEI.

**General:** W POLY: ~500 PLANTS IN 1982, 327+ IN 1992, 798+ IN 1993. E POLY: <100 PLANTS SEEN IN 1981, 1000 IN 1982, 71 IN 1987, 25 IN 1991, 450 IN 1992, 150 IN 1993. UNKNOWN NUMBERS SEEN IN W POLY IN 2007 & E POLY IN 2012. INCLUDES FORMER OCC #16, 18.

**Owner/Manager:** BLM, LADWP

<b>Occurrence No.</b>	5	<b>Map Index:</b> 01194	<b>EO Index:</b> 22154	<b>Element Last Seen:</b>	2002-06-16
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2002-06-16
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Fluctuating	<b>Record Last Updated:</b>	2009-09-01

**Quad Summary:** Fish Slough (3711844), Rovana (3711845)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.39290 / -118.49933	<b>Accuracy:</b>	1/10 mile
<b>UTM:</b>	Zone-11 N4139514 E367280	<b>Elevation (ft):</b>	4400
<b>PLSS:</b>	T06S, R32E, Sec. 30, SE (M)	<b>Acres:</b>	0.0

**Location:** PLEASANT VALLEY, JUST WEST OF PLEASANT VALLEY ROAD AND SOUTH OF HORTON CREEK, NORTHWEST OF BISHOP.

**Detailed Location:** MAPPED WITHIN THE SE 1/4 OF THE SE 1/4 OF SECTION 30.

**Ecological:** IN MOIST, ALKALINE MEADOW WITH DISTICHLIS SPICATA VAR. STRICTA, SPOROBOLUS AIROIDES, CHRYSOTHAMNUS NAUSEOSUS, JUNCUS BALTICUS, ROSA WOODSII, AND LEYMUS CINEREUS. THE RARE SIDALCEA COVILLEI ALSO OCCURS AT THIS SITE.

**General:** FEWER THAN 100 PLANTS IN 1981, MORE THAN 42 PLANTS OBSERVED IN 1993, 72 PLANTS IN 1995, 19 PLANTS IN 1996, AND 28 PLANTS IN 2002.

**Owner/Manager:** LADWP



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<b>Occurrence No.</b>	6	<b>Map Index:</b> 84261	<b>EO Index:</b> 29150	<b>Element Last Seen:</b>	2008-05-28
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2008-05-28
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2013-04-23
<b>Quad Summary:</b>	Laws (3711843)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.38469 / -118.34450		<b>Accuracy:</b>	1/10 mile	
<b>UTM:</b>	Zone-11 N4138397 E380973		<b>Elevation (ft):</b>	4000	
<b>PLSS:</b>	T06S, R33E, Sec. 34, NW (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	WEST OF OWENS RIVER, 1 MILE SOUTH OF LAWS BRIDGE ALONG HIGHWAY 6, NORTHEAST OF BISHOP AIRPORT, BISHOP.				
<b>Detailed Location:</b>	MAPPED JUST WEST OF THE RIVER WITHIN THE SE 1/4 OF THE NW 1/4 OF SECTION 34.				
<b>Ecological:</b>	ON CLAY, ALKALINE SOIL. ASSOCIATED WITH DISTICHLIS SPICATA STRICTA, JUNCUS BALTICUS, IRIS MISSOURIENSIS, SISYRINCHIUM, SIDALCEA COVILLEI, CHRYSOTHAMNUS NAUSEOSUS, SPOROBOLUS AIROIDES, LEYMUS CINEREUS, SALIX, AND GLYCYRRHIZA LEPIDOTA.				
<b>General:</b>	FEWER THAN 100 PLANTS SEEN IN 1981, PLANTS "ALIVE AND WELL" IN 1984, NONE FOUND IN 1992 (DUE TO DROUGHT?), 6 PLANTS OBSERVED IN 1993, AND AN UNKNOWN NUMBER OF PLANTS SEEN IN 2008.				
<b>Owner/Manager:</b>	LADWP				
<b>Occurrence No.</b>	15	<b>Map Index:</b> 22582	<b>EO Index:</b> 2986	<b>Element Last Seen:</b>	2008-05-21
<b>Occ. Rank:</b>	Excellent		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2008-05-21
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2013-04-24
<b>Quad Summary:</b>	Fish Slough (3711844), Chidago Canyon (3711854)				
<b>County Summary:</b>	Mono				
<b>Lat/Long:</b>	37.49627 / -118.40138		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4150850 E376122		<b>Elevation (ft):</b>	4200	
<b>PLSS:</b>	T05S, R33E, Sec. 19, W (M)		<b>Acres:</b>	161.0	
<b>Location:</b>	4.2 TO 6.7 AIR MILES NORTH OF OWENS RIVER ALONG FISH SLOUGH, NORTH OF BISHOP.				
<b>Detailed Location:</b>	MAPPED BY CNDDDB AS 10 POLYGONS BASED ON MAPS FROM 1982 AND 1991.				
<b>Ecological:</b>	DRIER AREAS IN ALKALI MEADOW. ASSOCIATED WITH JUNCUS BALTICUS, DISTICHLIS SPICATA, SPARTINA GRACILIS, LEYMUS CINEREUS, IVESIA KINGII, CHRYSOTHAMNUS ALBIDUS, ERICAMERIA NAUSEOSA, AND ASTRAGALUS LENTIGINOSUS VAR. PISCINENSIS.				
<b>General:</b>	300 PLANTS OBSERVED IN THE SOUTH HALF OF THE OCCURRENCE IN 1982 AND 10,830 FOUND IN 2008. FEWER THAN 100 OBSERVED IN THE FAR NW POLYGON IN 1982, 1323 IN 1993, AND 5890 FOUND IN 2008. INCLUDES FORMER OCCURRENCES #14 & 26.				
<b>Owner/Manager:</b>	LADWP, BLM				



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<b>Occurrence No.</b>	17	<b>Map Index:</b>	01630	<b>EO Index:</b>	22144	<b>Element Last Seen:</b>	1995-05-30
<b>Occ. Rank:</b>	Good	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		1995-05-30	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		1999-10-04	

**Quad Summary:** Bishop (3711834)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.37106 / -118.38623	<b>Accuracy:</b>	1/10 mile
<b>UTM:</b>	Zone-11 N4136937 E377257	<b>Elevation (ft):</b>	4120
<b>PLSS:</b>	T07S, R33E, Sec. 05, NW (M)	<b>Acres:</b>	0.0

**Location:** BISHOP CREEK CANAL, NORTH OF EAST YANEY STREET, ABOUT 0.6 MILE SOUTHEAST OF HIGHWAY 6 AT HIGHWAY 395, EAST OF BISHOP.

**Detailed Location:** ON BOTH SIDES OF CANAL; ON EAST SIDE OF CANAL IN MEADOW AND ON WEST SIDE OF CANAL IN PASTURE NORTH OF TRAILER PARK. POPULATION #3-11.

**Ecological:** ALKALI MEADOW IN LOAMY SOIL WITH ALKALI CRUST. ASSOCIATED WITH SIDALCEA COVILLEI, SPOROBOLUS AIROIDES, CHRYSOTHAMNUS NAUSEOSUS, ROSA WOODSII, DISTICHLIS SPICATA VAR. STRICTA, AND GLYCYRRHIZA LEPIDOTA.

**General:** APPROXIMATELY 100 PLANTS SEEN IN 1982. POP OK IN 1984. 0 PLANTS OBSERVED IN 1992 (DROUGHT?), 939 IN 1993. 1054 PLANTS OBSERVED IN 1995, MOSTLY ON EAST SIDE OF CANAL. THE RARE SIDALCEA COVILLEI ALSO OCCURS AT THIS SITE.

**Owner/Manager:** LADWP

<b>Occurrence No.</b>	19	<b>Map Index:</b>	01709	<b>EO Index:</b>	22142	<b>Element Last Seen:</b>	2008-05-19
<b>Occ. Rank:</b>	Fair	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		2008-05-19	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2013-04-24	

**Quad Summary:** Laws (3711843)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.39964 / -118.36079	<b>Accuracy:</b>	1/10 mile
<b>UTM:</b>	Zone-11 N4140076 E379556	<b>Elevation (ft):</b>	4100
<b>PLSS:</b>	T06S, R33E, Sec. 28, NW (M)	<b>Acres:</b>	0.0

**Location:** OWENS VALLEY, ALONG NORTH SIDE OF HIGHWAY 6 JUST WEST OF LAWS BRIDGE, 3 MILES NORTHEAST OF BISHOP.

**Detailed Location:** IN THE SE 1/4 OF THE NW 1/4 OF SECTION 28.

**Ecological:** IN ALKALINE MEADOW WITH INVADING RABBITBRUSH. CLAY LOAM SOIL. ASSOCIATED WITH THE RARE SIDALCEA COVILLEI, DISTICHLIS SPICATA, SPOROBOLUS AIROIDES, ATRIPLEX TORREYI, LEYMUS CINEREUS, ROSA WOODSII, JUNCUS BALTICUS, AND GLYCYRRHIZA LEPIDOTA.

**General:** 13 PLANTS SEEN IN 1982, POPULATION OK IN 1984, 0 PLANTS IN 1992 (DUE TO DROUGHT?), 9 IN 1993, 150 IN 1995, 18 IN 1996, AND 51 FOUND IN 2008.

**Owner/Manager:** LADWP



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<b>Occurrence No.</b>	21	<b>Map Index:</b> 01520	<b>EO Index:</b> 22141	<b>Element Last Seen:</b>	1985-05-30
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1985-05-30
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	1999-10-07
<b>Quad Summary:</b>	Bishop (3711834)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.36288 / -118.41131		<b>Accuracy:</b>	specific area	
<b>UTM:</b>	Zone-11 N4136063 E375023		<b>Elevation (ft):</b>	4160	
<b>PLSS:</b>	T07S, R32E, Sec. 01, SE (M)		<b>Acres:</b>	11.9	
<b>Location:</b>	PAUITE-SHOSHONE INDIAN RESERVATION, NORTH OF W LINE STREET BETWEEN SEEVEE LANE & NORTHERN INYO HOSPITAL, WEST OF BISHOP.				
<b>Detailed Location:</b>	HORSE PASTURE. MAPPED WITHIN THE SW 1/4 SE 1/4 SECTION 1.				
<b>Ecological:</b>	MOIST ALKALINE MEADOW USED AS HORSE PASTURE. ASSOCIATED WITH SIDALCEA COVILLEI, DISTICHLIS SPICATA, JUNCUS BALTICUS, LEYMUS TRITICOIDES, CHRYSOTHAMNUS NAUSEOSUS, IRIS, ROSA, LEYMUS CINEREUS, GLYCYRRHIZA LEPIDOTA, CAREX, AND POA.				
<b>General:</b>	ABOUT 1 PLANT SEEN IN 1984, APPROXIMATELY 360 PLANTS SEEN IN 1985. THE RARE SIDALCEA COVILLEI ALSO OCCURS AT THIS SITE.				
<b>Owner/Manager:</b>	BIA-BISHOP RES				
<b>Occurrence No.</b>	22	<b>Map Index:</b> 21818	<b>EO Index:</b> 16376	<b>Element Last Seen:</b>	1993-05-17
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1993-05-17
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2011-11-21
<b>Quad Summary:</b>	Fish Slough (3711844)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.43232 / -118.40459		<b>Accuracy:</b>	80 meters	
<b>UTM:</b>	Zone-11 N4143758 E375733		<b>Elevation (ft):</b>	4160	
<b>PLSS:</b>	T06S, R33E, Sec. 18, NE (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	SOUTH END OF FISH SLOUGH, PAST WEIR ON UPPER MCNALLY CANAL, ABOUT 4 MILES NORTH OF BISHOP.				
<b>Detailed Location:</b>	EAST SIDE OF SLOUGH WITHIN THE NE 1/4 OF THE NE 1/4 OF SECTION 13.				
<b>Ecological:</b>	IN ALKALINE MEADOW AT EDGE OF SLOUGH. ASSOCIATED WITH DISTICHLIS SPICATA STRICTA, ASTRAGALUS LENTIGINOSUS PISCINENSIS, JUNCUS BALTICUS, CHRYSOTHAMNUS NAUSEOSUS, LEYMUS CINEREUS, AND SPOROBOLUS AIROIDES.				
<b>General:</b>	4 PLANTS SEEN IN 1983, 5 SEEN IN 1993.				
<b>Owner/Manager:</b>	LADWP				





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<b>Occurrence No.</b>	33	<b>Map Index:</b> 21396	<b>EO Index:</b> 27511	<b>Element Last Seen:</b>	2006-05-22
<b>Occ. Rank:</b>	Fair		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2006-05-22
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2013-04-25

**Quad Summary:** Fish Slough (3711844)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.38406 / -118.43019	<b>Accuracy:</b>	1/10 mile
<b>UTM:</b>	Zone-11 N4138439 E373386	<b>Elevation (ft):</b>	4225
<b>PLSS:</b>	T06S, R32E, Sec. 35, NE (M)	<b>Acres:</b>	0.0

**Location:** ALONG BROCKMAN LANE, 0.5 MILE NORTH OF HIGHWAY 395, NW PORTION OF BISHOP.

**Detailed Location:** ON THE EAST SIDE OF BROCKMAN LANE, SOUTH C DRAIN CANAL. IN THE SW 1/4 OF THE NE 1/4 OF SECTION 35.

**Ecological:** IN A HIGHER AREA WITHIN AN IRRIGATED PASTURE. ASSOCIATED WITH CAREX, LEYMUS CINEREUS, L. TRITICOIDES, SPOROBOLUS AIROIDES, DISTICHLIS SPICATA, POA PRATENSIS, ERICAMERIA NAUSEOSA, JUNCUS BALTICUS, IRIS MISSOURIENSIS, AND SIDALCEA COVILLEI.

**General:** 10+ PLANTS OBSERVED IN 1991, 16 IN 1993, 24 IN 1995, 78 IN 1996, AND 89 SEEN IN 2006.

**Owner/Manager:** LADWP

<b>Occurrence No.</b>	34	<b>Map Index:</b> 21568	<b>EO Index:</b> 19	<b>Element Last Seen:</b>	2003-05-23
<b>Occ. Rank:</b>	Fair		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2003-05-23
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2009-08-19

**Quad Summary:** Poleta Canyon (3711833)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.28648 / -118.35726	<b>Accuracy:</b>	1/10 mile
<b>UTM:</b>	Zone-11 N4127517 E379687	<b>Elevation (ft):</b>	4021
<b>PLSS:</b>	T08S, R33E, Sec. 04, NE (M)	<b>Acres:</b>	0.0

**Location:** OWENS VALLEY, 0.35 MILE NORTHWEST OF JUNCTION OF COLLINS ROAD AND DIRT ROAD JUST WEST OF "A" DRAIN, SOUTH OF BISHOP.

**Detailed Location:** ABOUT 100 FT WEST OF DIRT ROAD.

**Ecological:** ALKALI MEADOW WITH CHRYSOTHAMNUS NAUSEOSUS, ARTEMISIA TRIDENTATA, SARCOBATUS VERMICULATUS, SPOROBOLUS AIROIDES, DISTICHLIS SPICATA STRICTA, BROMUS RUBENS, JUNCUS BALTICUS, GLYCYRRHIZA LEPIDOTA, AND LEYMUS CINEREUS.

**General:** 2 PLANTS OBSERVED IN 1991, 9 IN 1992, 20 IN 1993, 795 IN 1995, AND 634 IN 2003.

**Owner/Manager:** LADWP



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<b>Occurrence No.</b>	36	<b>Map Index:</b> 27904	<b>EO Index:</b> 20	<b>Element Last Seen:</b> 2008-05-20
<b>Occ. Rank:</b>	Good		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 2008-05-20
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 2013-04-25

**Quad Summary:** Laws (3711843)

**County Summary:** Mono

<b>Lat/Long:</b>	37.49186 / -118.33116	<b>Accuracy:</b>	1/5 mile
<b>UTM:</b>	Zone-11 N4150270 E382323	<b>Elevation (ft):</b>	4600
<b>PLSS:</b>	T05S, R33E, Sec. 26, NW (M)	<b>Acres:</b>	0.0

**Location:** ABOUT 0.75 MILE NORTH OF COLDWATER CANYON, AND 1.5 MILES EAST OF HIGHWAY 6, ABOUT 9 MILES NORTH OF BISHOP.

**Detailed Location:** EXACT LOCATION IS UNCLEAR. MAPS AND FIELD SURVEY FORMS INDICATE THIS SITE IS EITHER IN THE SE 1/4 OF THE SE 1/4 OF SECTION 22 OR ALONG THE LINE BETWEEN THE NE 1/4 OF THE NE 1/4 SECTION 27 AND THE NW 1/4 OF THE NW 1/4 SECTION 26.

**Ecological:** ALKALINE MEADOW IN SANDY LOAM NEAR SPRING WITH DISTICHLIS SPICATA, SPOROBOLUS AIROIDES, SPARTINA GRACILIS, ERICAMERIA NAUSEOSA, JUNCUS BALTICUS, POA NEVADENSIS, CIRSIUM, ROSA WOODSII, LEYMUS CINEREUS, SALIX, AND CASTILLEJA.

**General:** 369 PLANTS OBSERVED IN 1987, 353 IN 1993, AND 368 IN 2008.

**Owner/Manager:** LADWP

<b>Occurrence No.</b>	44	<b>Map Index:</b> 21815	<b>EO Index:</b> 12794	<b>Element Last Seen:</b> 1989-XX-XX
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b> 1989-XX-XX
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b> 1992-11-06

**Quad Summary:** Fish Slough (3711844)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.45223 / -118.40248	<b>Accuracy:</b>	specific area
<b>UTM:</b>	Zone-11 N4145964 E375952	<b>Elevation (ft):</b>	3840
<b>PLSS:</b>	T06S, R33E, Sec. 06, SW (M)	<b>Acres:</b>	24.5

**Location:** FISH SLOUGH, JUST SOUTH OF RED WILLOW DAM, 0.7-1.1 MILES SOUTH OF MONO/INYO COUNTY LINE.

**Detailed Location:**

**Ecological:** MAP SHOWS PLANTS OCCURRING NEAR CENTAURIUM NAMOPHILUM NEVADENSE, IVESIA KINGII, AND SPARTINA GRACILIS.

**General:** UNKNOWN HOW MANY PLANTS SEEN IN 1989; MAP IS ONLY SOURCE OF INFO.

**Owner/Manager:** LADWP?



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<b>Occurrence No.</b>	48	<b>Map Index:</b> 34547	<b>EO Index:</b> 18641	<b>Element Last Seen:</b>	2003-05-23
<b>Occ. Rank:</b>	Fair		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2003-05-23
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2009-09-02
<b>Quad Summary:</b>	Poleta Canyon (3711833)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.27230 / -118.34649		<b>Accuracy:</b>	1/10 mile	
<b>UTM:</b>	Zone-11 N4125930 E380620		<b>Elevation (ft):</b>	4030	
<b>PLSS:</b>	T08S, R33E, Sec. 10, NW (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	1.2 MILES EAST OF HIGHWAY 395 AND 0.6 MILE SOUTH OF COLLINS ROAD, ABOUT 2 MILES NORTHEAST OF KEOUGH HOT SPRINGS.				
<b>Detailed Location:</b>	SITE IS NORTH AND EAST OF FENCELINES WITHIN THE NW 1/4 OF THE NW 1/4 OF SECTION 10.				
<b>Ecological:</b>	ALKALINE MEADOW WITH SPOROBOLUS AIROIDES, DISTICHLIS SPICATA VAR. STRICTA, POA SPP., JUNCUS BALTICUS, CHRYSOTHAMNUS NAUSEOSUS, AND SIDALCEA COVILLEI.				
<b>General:</b>	120 PLANTS OBSERVED IN 1993. 937 PLANTS OBSERVED IN 2003.				
<b>Owner/Manager:</b>	LADWP				
<b>Occurrence No.</b>	49	<b>Map Index:</b> 34546	<b>EO Index:</b> 255	<b>Element Last Seen:</b>	1995-XX-XX
<b>Occ. Rank:</b>	Fair		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1995-XX-XX
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2009-09-03
<b>Quad Summary:</b>	Poleta Canyon (3711833)				
<b>County Summary:</b>	Inyo				
<b>Lat/Long:</b>	37.27391 / -118.31867		<b>Accuracy:</b>	1/10 mile	
<b>UTM:</b>	Zone-11 N4126074 E383089		<b>Elevation (ft):</b>	4000	
<b>PLSS:</b>	T08S, R33E, Sec. 11, NE (M)		<b>Acres:</b>	0.0	
<b>Location:</b>	ABOUT 7.5 MILES SOUTHEAST OF BISHOP ALONG THE EAST SIDE OF THE BIG PINE CANAL, 0.5 MILE SOUTH OF COLLINS ROAD.				
<b>Detailed Location:</b>	MAPPED WITHIN THE NW 1/4 OF THE NE 1/4 OF SECTION 11.				
<b>Ecological:</b>	ALKALINE MEADOW WITH DISTICHLIS SPICATA STRICTA, JUNCUS BALTICUS, LEYMUS CINEREUS, PYRROCOMA RACEMOSA, GLYCYRRHIZA LEPIDOTA, SPOROBOLUS AIROIDES, CAREX, CIRSIUM, AND SIDALCEA COVILLEI.				
<b>General:</b>	3 PLANTS OBSERVED IN 1992, 17 IN 1993, AND 118 IN 1995. SITE APPEARED DRY IN 1992, POSSIBLY DUE TO SIXTH YEAR OF DROUGHT.				
<b>Owner/Manager:</b>	LADWP				



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<b>Occurrence No.</b>	50	<b>Map Index:</b> 34545	<b>EO Index:</b> 1477	<b>Element Last Seen:</b>	1995-05-18
<b>Occ. Rank:</b>	Poor		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1995-05-18
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	1996-05-09

**Quad Summary:** Fish Slough (3711844)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.40737 / -118.41375	<b>Accuracy:</b>	specific area
<b>UTM:</b>	Zone-11 N4141002 E374881	<b>Elevation (ft):</b>	4165
<b>PLSS:</b>	T06S, R32E, Sec. 24, SW (M)	<b>Acres:</b>	27.4

**Location:** ABOUT 2.5 MILES NORTH OF BISHOP, SOUTH OF OWENS RIVER AND 1 MILE WSW OF FIVE BRIDGES.

**Detailed Location:** MAPPED WITHIN THE SE 1/4 OF THE SW 1/4 OF SECTION 24.

**Ecological:** DRY ALKALINE MEADOW INVADDED BY CHRYSOTHAMNUS NAUSEOSUS. ASSOCIATED WITH SPOROBOLUS AIROIDES, CAREX DOUGLASII, ASTRAGALUS LENTIGINOSUS, AND PYRROCOMA RACEMOSA.

**General:** 6 PLANTS OBSERVED IN 1993, 190 PLANTS OBSERVED IN 1995.

**Owner/Manager:** LADWP

<b>Occurrence No.</b>	68	<b>Map Index:</b> 76298	<b>EO Index:</b> 77277	<b>Element Last Seen:</b>	2000-06-02
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2000-06-02
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2009-08-19

**Quad Summary:** Poleta Canyon (3711833)

**County Summary:** Inyo

<b>Lat/Long:</b>	37.35256 / -118.33804	<b>Accuracy:</b>	non-specific area
<b>UTM:</b>	Zone-11 N4134824 E381494	<b>Elevation (ft):</b>	4000
<b>PLSS:</b>	T07S, R33E, Sec. 10, SE (M)	<b>Acres:</b>	37.0

**Location:** WEST OF OWENS RIVER, 0.5 MILE SOUTH OF LINE STREET (POLETA ROAD).

**Detailed Location:** EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB ACCORDING TO FOLLOWING TRS INFORMATION PROVIDED BY HUBBARD: T7S R33E NW 1/4 SE 1/4 SECTION 10.

**Ecological:** ASSOCIATED WITH DISTICHLIS SPICATA, CHRYSOTHAMNUS NAUSEOSUS, SPOROBOLUS AIROIDES, IRIS MISSOURIENSIS, AND GLYCYRRHIZA LEPIDOTA.

**General:** OVER 100 PLANTS OBSERVED IN 2000.

**Owner/Manager:** LADWP



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<b>Occurrence No.</b>	69	<b>Map Index:</b>	76301	<b>EO Index:</b>	77279	<b>Element Last Seen:</b>	2006-05-22
<b>Occ. Rank:</b>	Fair	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		2006-05-22	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2013-04-25	
<b>Quad Summary:</b>	Fish Slough (3711844)						
<b>County Summary:</b>	Inyo						
<b>Lat/Long:</b>	37.41391 / -118.42551			<b>Accuracy:</b>	non-specific area		
<b>UTM:</b>	Zone-11 N4141744 E373850			<b>Elevation (ft):</b>	4200		
<b>PLSS:</b>	T06S, R32E, Sec. 23, NE (M)			<b>Acres:</b>	42.0		
<b>Location:</b>	FIVE BRIDGES CONTROL PHOTO POINT, APPROXIMATELY 3 MILES NNW OF BISHOP.						
<b>Detailed Location:</b>	EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB ACCORDING TO T-R-S INFORMATION PROVIDED BY HUBBARD & DERMODY: T6S R32E SE 1/4 OF THE NE 1/4 OF SECTION 23.						
<b>Ecological:</b>	ALKALI MEADOW. ASSOCIATED WITH SPOROBOLUS AIROIDES, DISTICHLIS SPICATA, ERICAMERIA NAUSEOSA, JUNCUS BALTICUS, AND ROSA WOODSII.						
<b>General:</b>	4 PLANTS OBSERVED IN 1998, 12 IN 1999, AND 179 SEEN IN 2006.						
<b>Owner/Manager:</b>	LADWP						

<b><i>Elymus scribneri</i></b>		<b>Element Code:</b> PMPOA2H170	
Scribner's wheat grass			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDB Element Ranks:</b>	<b>Global:</b> G5
	<b>State:</b> None		<b>State:</b> S3
	<b>Other:</b> Rare Plant Rank - 2B.3		
<b>Habitat:</b>	<b>General:</b> ALPINE BOULDER AND ROCK FIELD.		
	<b>Micro:</b> ON ROCKY SLOPES. 2560-4145 M.		

<b>Occurrence No.</b>	5	<b>Map Index:</b>	A3195	<b>EO Index:</b>	104824	<b>Element Last Seen:</b>	2002-07-02
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		2002-07-02	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2016-12-28	
<b>Quad Summary:</b>	Deep Springs Lake (3711831), Westgard Pass (3711832), Crooked Creek (3711841), Blanco Mtn. (3711842), Laws (3711843), Station Peak (3711851), Mt. Barcroft (3711852)						
<b>County Summary:</b>	Inyo, Mono						
<b>Lat/Long:</b>	37.43893 / -118.16232			<b>Accuracy:</b>	5 miles		
<b>UTM:</b>	Zone-11 N4144200 E397177			<b>Elevation (ft):</b>	10000		
<b>PLSS:</b>	T06S, R35E, Sec. 8 (M)			<b>Acres:</b>	49683.0		
<b>Location:</b>	BRISTLECONE RESERVE, WHITE MOUNTAINS.						
<b>Detailed Location:</b>	EXACT LOCATION UNKNOWN. MAPPED AS A LARGE NON-SPECIFIC AREA AROUND THE ANCIENT BRISTLECONE PINE FOREST WITHIN INYO COUNTY BASED ON INFORMATION ON COLLECTION LABEL. GIVEN ELEVATION IS 10,000 FEET.						
<b>Ecological:</b>	SAGEBRUSH FLAT, ROCKY SOIL.						
<b>General:</b>	ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 2002 OPLER COLLECTION. GEOLOCATED COORDINATES PROVIDED BY HERBARIUM PLACE SITE AT SCHULMAN GROVE BUT SOURCE OF THOSE COORDINATES IS UNKNOWN. NEEDS FIELDWORK.						
<b>Owner/Manager:</b>	USFS-INYO NF						



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<b><i>Sphenopholis obtusata</i></b>		<b>Element Code:</b> PMPOA5T030	
prairie wedge grass			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDB Element Ranks:</b>	<b>Global:</b> G5
	<b>State:</b> None		<b>State:</b> S2
	<b>Other:</b> Rare Plant Rank - 2B.2		
<b>Habitat:</b>	<b>General:</b> CISMONTANE WOODLAND, MEADOWS AND SEEPS.		
	<b>Micro:</b> OPEN MOIST SITES, ALONG RIVERS AND SPRINGS, ALKALINE DESERT SEEPS. 15-2625 M.		

<b>Occurrence No.</b>	1	<b>Map Index:</b> 53409	<b>EO Index:</b> 16368	<b>Element Last Seen:</b>	1985-08-25
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	2000-07-30
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2010-11-10

**Quad Summary:** Laws (3711843)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.39625 / -118.31449	<b>Accuracy:</b>	1/5 mile
<b>UTM:</b>	Zone-11 N4139642 E383648	<b>Elevation (ft):</b>	4240
<b>PLSS:</b>	T06S, R33E, Sec. 26, SE (M)	<b>Acres:</b>	0.0

**Location:** AT THE SPRING 1 MILE SOUTH OF THE MOUTH OF SILVER CANYON, 1.5 MILES ESE OF LAWS, OWENS VALLEY DRAINAGE.  
**Detailed Location:** EXACT LOCATION UNKNOWN; MAPPED AS BEST GUESS BY CNDDDB IN THE VICINITY OF DRY LAKE SPRING.  
**Ecological:** DESERT ALKALINE WETLAND SLOPING 5 DEG WEST. MOIST ALKALINE SOIL OF SPRING EFFLUENT. ASSOCIATED WITH ATRIPLEX, POPULUS FREMONTII, PHRAGMITES, CHRYSOTHAMNUS, SPOROBOLUS, ROSA, SALIX SP., ROBINIA PSEUDOACACIA, JUNCUS, TYPHA, RORIPPA, ETC.  
**General:** MAIN SOURCES OF INFORMATION FOR THIS OCCURRENCE ARE A 1985 FIELD SURVEY FORM AND COLLECTION BY MOREFIELD. SITE ALSO VISITED IN 2000; UNCERTAIN ID, NO POPULATION NUMBER GIVEN.  
**Owner/Manager:** LADWP

<b>Occurrence No.</b>	15	<b>Map Index:</b> 80356	<b>EO Index:</b> 81344	<b>Element Last Seen:</b>	1988-07-17
<b>Occ. Rank:</b>	Unknown		<b>Presence:</b> Presumed Extant	<b>Site Last Seen:</b>	1988-07-17
<b>Occ. Type:</b>	Natural/Native occurrence		<b>Trend:</b> Unknown	<b>Record Last Updated:</b>	2010-10-11

**Quad Summary:** Laws (3711843)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.40611 / -118.26142	<b>Accuracy:</b>	non-specific area
<b>UTM:</b>	Zone-11 N4140671 E388360	<b>Elevation (ft):</b>	5770
<b>PLSS:</b>	T06S, R34E, Sec. 20, SE (M)	<b>Acres:</b>	38.0

**Location:** ALONG CREEK IN SILVER CANYON, ABOUT 4.8 AIR MILES EAST OF LAWS, WHITE MOUNTAINS.  
**Detailed Location:** EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB ALONG MAIN CREEK OF SILVER CANYON AND SMALLER TRIBUTARY WITHIN GIVEN TRS OF T6S R34E SE 1/4 SE 1/4 SECTION 20.  
**Ecological:** ON A DRY CALCAREOUS ALLUVIAL BENCH SLOPING 5 DEGREES WEST. ASSOCIATED WITH ATRIPLEX, EPHEDRA, ECHINOCEREUS, ARTEMISIA, CHRYSOTHAMNUS, PETALONYX, ETC.  
**General:** ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1988 COLLECTION BY MOREFIELD. NEEDS FIELDWORK.  
**Owner/Manager:** USFS-INYO NF



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<b><i>Elymus salina</i></b>		<b>Element Code:</b> PMPOA6P010	
Salina Pass wild-rye			
<b>Listing Status:</b>	<b>Federal:</b> None	<b>CNDDDB Element Ranks:</b>	<b>Global:</b> G4G5
	<b>State:</b> None		<b>State:</b> S2S3
	<b>Other:</b> Rare Plant Rank - 2B.3, SB_USDA-US Dept of Agriculture		
<b>Habitat:</b>	<b>General:</b> PINYON AND JUNIPER WOODLAND.		
	<b>Micro:</b> ROCKY SITES. 880-2865 M.		

<b>Occurrence No.</b>	9	<b>Map Index:</b>	78317	<b>EO Index:</b>	79241	<b>Element Last Seen:</b>	1983-07-23
<b>Occ. Rank:</b>	Unknown	<b>Presence:</b>	Presumed Extant	<b>Site Last Seen:</b>		1983-07-23	
<b>Occ. Type:</b>	Natural/Native occurrence	<b>Trend:</b>	Unknown	<b>Record Last Updated:</b>		2010-03-10	

**Quad Summary:** Fish Slough (3711844)  
**County Summary:** Inyo

<b>Lat/Long:</b>	37.43392 / -118.40749	<b>Accuracy:</b>	non-specific area
<b>UTM:</b>	Zone-11 N4143940 E375478	<b>Elevation (ft):</b>	4100
<b>PLSS:</b>	T06S, R32E, Sec. 13, NE (M)	<b>Acres:</b>	33.0

**Location:** 1 MILE N OF INTERSECTION OF FISH SLOUGH RD AND JEAN BLANC RD, APPROX. 4.5 MILES N OF BISHOP, N END OF OWENS VALLEY.  
**Detailed Location:** MAPPED BY CNDDDB AS BEST GUESS AT SIPHON.  
**Ecological:** ASSOCIATED SPECIES DISTICHLIS SPICATA.  
**General:** ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1983 ROBERTS COLLECTION; MENTIONED AS "LOCALLY COMMON" IN 1983. NEEDS FIELDWORK. ID OF THIS SPECIMEN SHOULD PROBABLY BE DOUBLE-CHECKED; POSSIBLY OUT OF RANGE.  
**Owner/Manager:** LADWP

# Appendix D

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## Site Photographs





Photo 1: Representative view of alkali desert scrub habitat, looking west from project center. Date of photo: May 26, 2021.



Photo 2: Representative view of alkali desert scrub habitat, looking southwest from project center. Date of photo: May 26, 2021.



Photo 3: Representative view of a dry drainage ditch with a wooden sluice gate located within the Phase 2 area. Date of photo: May 27, 2021.



Photo 4: Representative view of freshwater emergent wetland habitat with red willow located along Gus Cashbaugh Lane. Date of photo: May 26, 2021.



Photo 5: View of freshwater emergent wetland habitat with an overstory of red willow and Fremont's cottonwood located in the center of the Study Area. Date of photo: May 26, 2021.



Photo 6: View of freshwater emergent wetland habitat dominated by hard rush. Date of photo: May 26, 2021.



Photo 7: Representative view of freshwater emergent wetland habitat located along Airport Road. Date of photo: May 27, 2021.



Photo 8: Representative view of freshwater emergent wetland habitat located directly south of the existing wastewater treatment plant. Date of photo: May 27, 2021.



Photo 9: Representative view of a drainage ditch containing water, running north to south from the wastewater treatment plant through Phase 1 of the Study Area. Date of photo: May 27, 2021.



Photo 10: Representative view of lacustrine habitat (pond) looking west from Phase 1 of the Study Area. Date of photo: May 27, 2021.



Photo 11: Representative view of developed/disturbed habitat looking north from Phase 1 of the Study Area. Date of photo: May 27, 2021.



Photo 12: Representative view of freshwater emergent wetland habitat in a recently mowed area of Phase 1 in the Study Area. Date of photo: May 27, 2021.