

ADMINISTRATIVE RECORD NOTE TO FILE

Note to File:	Jacumba Valley Ranch Administrative Record
Subject:	CNDDDB Rarefind

Summary

RareFind 5 is an Internet application that allows robust querying and reporting of over 90,000 textual records on over 2,600 different rare native plants, animals, and natural communities in the California Natural Diversity Database (CNDDDB). This version of RareFind interacts with the BIOS 5 map viewer, allowing CNDDDB subscribers to easily view the spatial features of occurrence records queried in RareFind 5. Because it is an Internet application, RareFind 5 eliminates the need for users to install an application on their computers and download updated versions of CNDDDB data every month.

The reference for the 2018 query for USGS 7.5-minute Jacumba, Carrizo Mountain, Sweeney Pass, Sombrero Peak, In-Ko-Pah Gorge, Live Oak Springs, and Tierra del Sol quadrangles is provided below and the user guide is attached.

Reference

CDFW (California Department of Fish and Wildlife). 2018. California Natural Diversity Database. RareFind Version 5.0 (Commercial Subscription). Sacramento, California: CDFW, Biogeographic Data Branch. Accessed May 2018. <https://www.wildlife.ca.gov/Data/CNDDDB/Maps-and-Data>.



California Department of Fish and Wildlife

RareFind 5 User Guide



California Department of Fish and Wildlife
California Natural Diversity Database
July 2018

[RareFind 5](#) is an Internet application that allows robust querying and reporting of over 90,000 textual records on over 2,600 different rare native plants, animals, and natural communities in the [California Natural Diversity Database](#) (CNDDDB). This version of RareFind interacts with the [BIOS 5](#) map viewer, allowing CNDDDB subscribers to easily view the spatial features of occurrence records queried in RareFind 5. Because it is an Internet application, RareFind 5 eliminates the need for users to install an application on their computers and download updated versions of CNDDDB data every month.

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Launching RareFind 5

For the best performance with RareFind 5, we recommend that you use either the Firefox or Chrome web browsers. We also recommend that you always launch the RareFind application from the [CNDDDB Maps & Data web page](#) rather than creating a browser bookmark for it. This webpage will always have a link to the latest version of RareFind, and may at times contain important information for RareFind users.

Login Screen

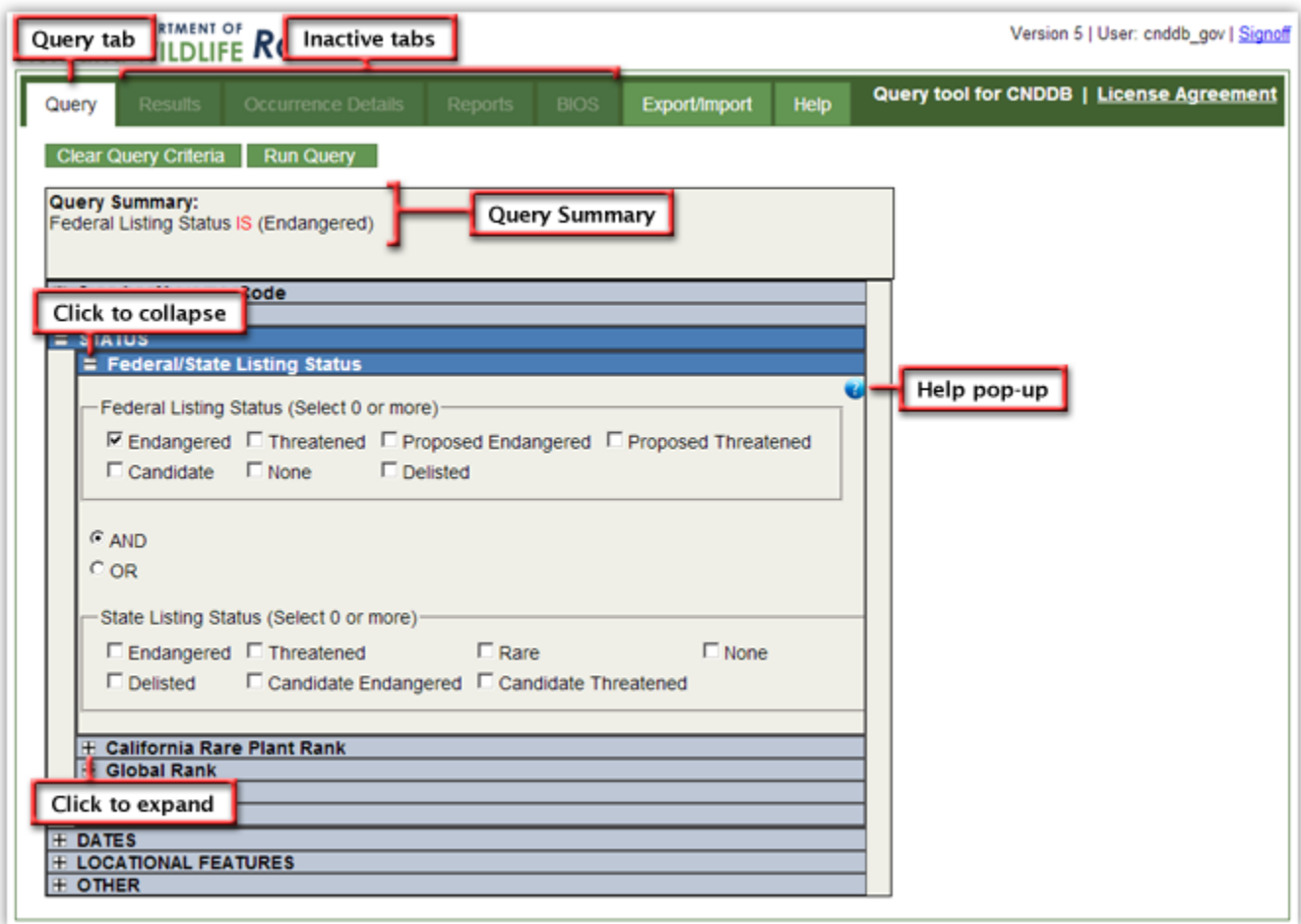
Upon clicking the [RareFind 5 link](#), you will be prompted to log in. California Department of Fish and Wildlife (CDFW) users can log in using their usual Department login information. CNDDDB subscribers can log in using the monthly username and password that is emailed to them at the beginning of each month. If you check the "Remember Me" checkbox when you log in and you don't subsequently log out, you should not need to log back in if you close the browser or navigate away from the RareFind application.

The image shows the login screen for the RareFind application. At the top, it features the text "CALIFORNIA DEPARTMENT OF FISH and WILDLIFE" in blue and green, followed by the "RareFind" logo in a large, bold, blue font. Below the header, there are two input fields: "Username" and "Password". The "Username" field is a simple text box, while the "Password" field is a text box with a small eye icon on the right side to toggle visibility. Below the password field is a "Login" button with a grey gradient. At the bottom, there is a checkbox labeled "Remember Me".

More information about the CNDDDB subscription is available on the [CNDDDB Subscription web page](#).

Query Tab

When you first log in to RareFind 5, you will see the Query tab. Some of the other tabs at the top are unavailable and will remain greyed out until you run a query. Once you have run a query, the inactive tabs will become available and you may click on them to view your query results in different formats. Note: Do not click on the browser's Back button to go to a previous tab; that will cause the browser to take you back to the Login screen.



At the top of the Query tab is the Query Summary, which shows what RareFind 5 will query the CNDDDB data for when the Run Query button is clicked. If no criterion is selected, the application will query for "All CNDDDB element occurrences." As you select query criteria, the Query Summary will automatically update. It is a good idea to review the Query Summary as you build your query to make sure the application is querying for what you want.

Query criteria selectors are categorized into groups that may be expanded by clicking on the ⊕ (plus) box to the left of the category heading. These groups can be collapsed by clicking on the ⊖ (minus) box that appears to the left of the category heading when a group is expanded. If you need help with what the criteria mean and how to use a particular selector for your query, click on the blue help bubble (💡) that appears on the upper right-hand side of an expanded criteria category. This will cause a small help window to appear.

Methods of Selecting Query Criteria

There are a few different ways to select criteria for your query.

When given a search text box, simply type what you want to search for into the text box and then click on the **Search** button or hit the Enter key. For the "Species Name or Code" criteria selector, you may query for scientific name, common name, or

Element Code. (Note: The search text box is not case-sensitive and will return any entry that contains the text you have entered. However, some common names such as "red-legged frog" require typing in the hyphen.)

The screenshot shows the CNDDDB search interface. At the top, the "Query Summary" section displays the "Element Code" as "IS (ABNSB09010)". A red box highlights the text "Query criterion for *Micrathene whitneyi*". Below this is a "Search text box" containing the text "athene". A green "Search" button is to the right of the text box. Below the search box, there are two list boxes. The left list box, titled "Species Name or Code", contains the result "Athene cunicularia (1832)". A red box highlights this result with the text "Search results matching search text". The right list box contains the result "Micrathene whitneyi (17)". A red box highlights this result with the text "Search result added to query criteria". Between the two list boxes are four green arrow buttons: a single right arrow (>), a single left arrow (<), a double right arrow (>>), and a double left arrow (<<). A red box highlights the ">" button with the text "Move selected result". Another red box highlights the ">>" button with the text "Move all results". Below the list boxes is a green "Reset" button. At the bottom of the interface is a table with five rows: "Taxonomic Group", "STATUS", "DATES", "LOCATIONAL FEATURES", and "OTHER". Each row has a small square icon to its left.

Once you have searched for your entered text, the results will appear in the list box directly below the search text box, on the left side of the screen. The number in parentheses next to each result represents the number of element occurrences for that species currently in the CNDDDB. To add a search result to your query criteria, you need to move it to the list box on the right. You may do this by selecting the result (single-click on it, and the result will highlight in blue) and pressing the single arrow **>** button, or by double-clicking on the result. Clicking the double arrow **>>** button moves all results from the left to the right.

To remove species from the right-hand box, and thus remove them from your query criteria, use the **<** button or double-click on the record. You can remove all of the species from the right-hand box using the **<<** button. The **Reset** button clears both the left-hand and right-hand boxes. When you move search results to and from the right-hand box, your Query Summary will update.

Some criteria selectors appear as a group of checkboxes, such as the "Taxonomic Group" criteria selector. You can query on everything in the CNDDDB by leaving all

Some criteria selectors will have an **Apply** button associated with text boxes. The criteria you have typed in will not be added to your Query Summary until you have clicked on the **Apply** button. This signifies to the application that you have finished entering your text.

The screenshot shows a web-based query summary interface. At the top, a 'Query Summary:' section displays the text 'Element Last Seen Date IS after "1/1/2006"', which is enclosed in a red box. A red line connects this box to a callout box stating 'Query criterion appears after the Apply button is clicked'. Below this is a list of expandable criteria categories: 'Species Name or Code', 'Taxonomic Group', 'STATUS', 'DATES', 'Date Element Last Seen (mm/dd/yyyy)', 'Date Site Last Seen (mm/dd/yyyy)', 'Last Updated Date (mm/dd/yyyy)', 'LOCATIONAL FEATURES', and 'OTHER'. The 'DATES' category is expanded, showing 'Date Element Last Seen (mm/dd/yyyy)'. Under this, there are two text input fields: '(From)' containing '01/01/2006' and '(To)' containing 'mm/dd/yyyy'. A red bracket groups these two fields, with a callout box stating 'Text boxes for query criteria'. Below the input fields is a green 'Apply' button.

Query Summary:
Element Last Seen Date IS after "1/1/2006"

Query criterion appears after the Apply button is clicked

- Species Name or Code
- Taxonomic Group
- STATUS
- DATES
 - Date Element Last Seen (mm/dd/yyyy)
 - (From) 01/01/2006
 - (To) mm/dd/yyyy
 - Date Site Last Seen (mm/dd/yyyy)
 - Last Updated Date (mm/dd/yyyy)
- LOCATIONAL FEATURES
- OTHER

Text boxes for query criteria

Apply

Some criteria selectors have a drop-down menu or a text box that produces a drop-down menu when you start typing in it. As soon as you select a criterion from the drop-down menu, it will show up in a list in the box below as well as in your Query Summary. To remove a criterion from the bottom list box, select the item (it will highlight in blue) and click on the **X** button. To remove all criteria selections made in this category, but not change the rest of your query, click on the **Reset** button.

Query Summary:
County IS (Imperial OR San Diego) — Query criteria appear after each selection

- Species Name or Code
- Taxonomic Group
- STATUS
- DATES
- LOCATIONAL FEATURES**
 - County**
 - Select--
 - Imperial
 - San Diego
 - Reset — Clears ALL query criteria for this criteria selector
- Quad
- Elevation
- Habitats
- Owner/Manager
- Accuracy
- OTHER**

Removes selected criterion

Run a Query

Once all query criteria have been selected, click on the **Run Query** button above the Query Summary to run your query. If you modify your query criteria, you can click the **Run Query** button again to see the results for your modified criteria. To start a completely new query, click on the **Clear Query Criteria** button.

Results Tab

After you click on the **Run Query** button, you will be taken to the Results tab. On the Results tab, the top table displays the Element results, and the bottom table displays the Occurrence results for the element highlighted in the top table. In this example, burrowing owl is selected and highlighted in yellow in the Elements table. The occurrences displayed in the bottom table are therefore all for burrowing owl. If elf

owl were selected in the Elements table, then all of the occurrences displayed in the Occurrences table would be for elf owl.

The screenshot shows the CNDDDB Query tool interface. At the top, there are tabs for Query, Results, Occurrence Details, Reports, BIOS, Export/Import, and Help. The Results tab is active, showing the Elements table. The Elements table has columns: Image Search, Scientific Name, Common Name, Element Code, Total Occs, Returned Occs, Federal Status, State Status, Global Rank, State Rank, and CA Rare Plant Rank. Two elements are displayed: *Athene cunicularia* (burrowing owl) and *Micrathene whitneyi* (elf owl). Below the Elements table, there is a section for Occurrences by Selected Element, showing 1,832 occurrences for *ATHENE CUNICULARIA*. The Occurrences table has columns: Occ Number, EOnDx, Date Element Last Seen, Date Site Last Seen, Presence, Accuracy, County, and Quad. The table lists various occurrences with details on dates, presence status, accuracy, and location.


Elements table

Image Search	Scientific Name	Common Name	Element Code	Total Occs	Returned Occs	Federal Status	State Status	Global Rank	State Rank	CA Rare Plant Rank
g+ / Ca	<i>Athene cunicularia</i>	burrowing owl	ABNSB10010	1832	1832	None	None	G4	S2	
g+ / Ca	<i>Micrathene whitneyi</i>	elf owl	ABNSB09010	17	17	None	Endangered	G5	S1	

Occurrences table for selected Element

Occ Number	EOnDx	Date Element Last Seen	Date Site Last Seen	Presence	Accuracy	County	Quad
43	25467	2006-07-04	2006-07-04	Presumed Extant	Specific bounded area	Imperial	Calipatria SW (3311516)
44	25468	1983-03-31	1983-03-31	Presumed Extant	Circular feature with a 1600 meter radius (1 mile)	Imperial	Westmorland (3311515)
45	25466	1984-02-06	1984-02-06	Presumed Extant	Circular feature with a 300 meter radius (1/5 mile)	Marin	Novato (3812215)
46	6823	1982-05-21	1982-05-21	Presumed Extant	Circular feature with a 300 meter radius (1/5 mile)	Alameda	Altamont (3712166)
47	25464	2003-06-10	2003-06-10	Presumed Extant	Non-specific bounded area	Alameda	Midway (3712165) Clifto
48	25465	1982-12-11	1982-12-11	Presumed Extant	Non-specific bounded area	Alameda	Midway (3712165)
49	8358	1990-XX-XX	1990-XX-XX	Presumed Extant	Circular feature with a 300 meter radius (1/5 mile)	Contra Costa	Clifton Court Forebay (37

Sorting Results by Field

To sort a field/column in one of the tables, click on the field header. The results are sorted on the field/column that shows a triangle  next to the field title. The direction of the triangle illustrates the direction of the sort (a triangle pointing up indicates alphabetical/smallest to largest; a triangle pointing down indicates reverse alphabetical/largest to smallest). To reverse the sort order of a field/column, simply click on the field header again.

The screenshot shows the CNDDDB Query tool interface with the Elements table. Red boxes highlight the 'Sort triangle' (a small triangle icon next to the 'Scientific Name' header), the 'Field/column header' (the 'Scientific Name' header itself), and the 'Case-sensitive filter text box' (the text input field below the 'Scientific Name' header).

Sort triangle

Field/column header

Case-sensitive filter text box

Filtering Results by Field

To filter the result records in the Elements table, use the case-sensitive filter text boxes below each field header. The text that you enter into a filter box will restrict the results displayed. For example, if you enter "elf" in the Common Name filter box,

then only element records with the text "elf" in the Common Name field will be displayed in the Elements table. To remove the filter, simply delete the text from the filter box. (Note: The filter only changes which records are displayed; it does not alter the results of your query.)

Changing Visible Columns

A subset of the available fields/columns is presented in the tables by default. To add or subtract fields/columns, click the **Change visible columns** button. (Note: There are different field/column options for the Elements table than for the Occurrences table.) Adding fields/columns may make it necessary to horizontally scroll to the right to view all of the fields/columns.

The screenshot displays two sections of a web application interface. The top section is titled "Elements" and shows a table with 2 elements (1849 total occurrences) returned from a total of 3,836 elements in the CNDOB. The table has columns: Total Occs, Returned Occs, Federal Status, State Status, Global Rank, State Rank, and CA Rare Plant Rank. A red box highlights the "Change visible columns" button and the table columns, with a label "Available fields/columns for Elements table".

The bottom section is titled "Occurrences by Selected Element" and shows a table with 1,832 occurrences returned from a total of 1832 occurrences for ATHENE CUNICULARIA. The table has columns: Accuracy, County, and Quad. A red box highlights the "Change visible columns" button and the table columns, with a label "Available fields/columns for Occurrences table".

If you cannot read the entire contents of a field because the column is too small, you can either resize the column by clicking and dragging the upper right-hand corner of the column, or hover over the text to see the full text in a tool tip.

Additional Functions

Print View: The **Print View** button next to the "Change Visible Columns" button in the Elements table will open a new tab in your browser with a printable table, similar to

the one shown here, of all CNDDDB elements that resulted from your query. The order in which the elements are listed in this table is determined by how you sort the elements in the Elements table.

Query Summary:
Element Code **IS** (AMAJF01012 **OR** AMAJF01021)

[Print](#) [Close](#)

CNDDDB Element Query Results

Scientific Name	Common Name	Element Code	Total Occs	Returned Occs	Federal Status	State Status	Global Rank	State Rank	CA Rare Plant Rank	Other Status	Habitats
<i>Martes americana humboldtensis</i>	Humboldt marten	AMAJF01012	44	44	None	None	G5T2T3	S2S3	null	CDFW_SSC-Species of Special Concern USFS_S-Sensitive	North coast coniferous forest Oldgrowth Redwood
<i>Martes pennanti</i>	fisher - West Coast DPS	AMAJF01021	647	647	Candidate	None	G5T2T3Q	S2S3	null	BLM_S-Sensitive CDFW_SSC-Species of Special Concern USFS_S-Sensitive	North coast coniferous forest Oldgrowth Riparian forest

Image search: To see photos of an element, use the g+ (Google) and Ca (CalPhotos) links at the left side of the Elements table. When clicked, these links will open a new tab in your browser and conduct an Internet search; the result pages are not owned or maintained by the California Department of Fish and Wildlife.

Elements

[Change visible columns](#) [Print View](#) **2 elements (1849 total occurrences) returned**

Image Search	Scientific Name ↑	Common Name	Element Code	Total Occs
g+ / Ca	Athene cunicularia	burrowing owl	ABNSB10010	1832
g+ / Ca	Micrathene whitneyi	elf owl	ABNSB09010	17

[CalPhotos image search](#)

[Google image search](#)

Occurrence Details Tab

There are two ways to get to the Occurrence Details tab. You may click on the Occurrence Details tab at the top, or you may double-click on an occurrence record in the bottom table of the Results tab.

The Occurrence Details tab is arranged with the element information on the top half and occurrence information on the bottom half. The difference between this screen and the Results tab is that only one occurrence is displayed at a time here, but it is in a more readable format than the spreadsheet-type format of the Results tab.

The screenshot shows the 'Occurrence Details' tab in the CNDDDB interface. The top navigation bar includes 'Query', 'Results', 'Occurrence Details', 'Reports', 'BIOS', 'Export/Import', and 'Help'. The 'Query tool for CNDDDB | License Agreement' is also visible.

Element Details Section:

- Record: 3 of 3** (with navigation arrows) - Annotated with: **Navigate forward/backward through Element results**
- Fields: Image Search, Scientific Name (Penstemon personatus), Common Name (closed-throated beardtongue), Element Code (PDSCR1L4Y0), Global Rank (G2), State Rank (G2.2), Federal Status (None), State Status (None), CA Rare Plant Rank (RB.2).
- Select specific Element result** (Annotated with a red box and arrow pointing to the dropdown menu).
- General Habitat: Lower montane coniferous forest, upper montane coniferous forest, chaparral.
- Micro Habitat: Usually on N-facing slopes in metavolcanic soils. 1330-2120m.
- Habitats: Chaparral, Lower montane coniferous forest, Upper montane coniferous forest.
- BLM_S-Sensitive, USFS_S-Sensitive.

Occurrence Details Section:

- Record: 11 of 23** (with navigation arrows) - Annotated with: **Navigate forward/backward through Occurrence results**
- Fields: Occurrence Number (11), EONdx (4862), Mapndx (11955), Occurrence Rank (A-Evaluated), Date Element Last Seen (2006-08-28), Date Site Last Seen (2006-08-28), Presence (Presumed Extant), Trend (Unknown), Occurrence Type (Natural/Native occurrence), Last Updated (2010-01-27).
- Select specific Occurrence result for current Element** (Annotated with a red box and arrow pointing to the dropdown menu).
- Latitude/Longitude (NAD83): 39.80856, -120.00000.
- Township/Range/Section (Mer): T23N, R07E, Sec. 27 (M).
- UTM Coordinates (NAD83): 10 S 653613 E 4408050 N.
- Elevation (feet): 5600.
- Owner/Manager: USFS-PLUMAS NF.
- Counties: Plumas.
- Quads (Key Quad): Dogwood Peak (3912171), Haskins Valley (3912172).
- Sources (count=61):
 - BLO91F0002-Bloxton, J. Field survey form for Penstemon personatus 1991-07-09
 - BR91F0001-Braxton, R. Field survey form for Penstemon personatus 1981-08-04
 - CAR92F0003-Carter, C. Field survey form for Penstemon personatus 1992-07-28
 - CAR92F0004-Carter, V. & B. Castro Field survey form for Penstemon personatus 1992-08-XX
- List of sources** (Annotated with a red box and arrow pointing to the source list).
- Detailed Location: MAPPED AS NON-SPECIFIC POLYGON TO SHOW THAT THE COLONIES ARE SCATTERED THROUGHOUT BOUNDED AREA. POLYGON VERY LARGE. INCL SEC. 20-35 (T23N), 3-6 AND 8-10 (T22N) AND A LITTLE BIT IN SEC. T23N R8E.
- Ecological Comments: GROWING IN MIXED CONIFEROUS FOREST ON VARIOUS SOILS. ASSOCIATED WITH ABIES SPP, CALOCEDRUS, PINUS SPP, ARCTOSTAPHYLOS SPP, CASTANOPSIS, QUERCUS VACCINFOLIA, CEANOTHUS SPP, GARRYA.
- General Comments: THOUSANDS OF PLANTS IN SCATTERED PATCHES. USFS POPULATION #S 11-3, 4, 5, 10, 12, 18, 19, 20, 37, & 40. MUCH DETAILED INFORMATION ON NUMEROUS FIELD SURVEY FORMS.
- Threat Comments: FIRE SUPPRESSION, LOGGING (ESPECIALLY CLEAR-CUT) AND RELATED ACTIVITIES, AND PILING OF DREDGE MATERIALS.
- Threats: Logging, Vandalism/dumping/litter, Improper burning regime.

All of the information in a CNDDDB occurrence record is shown on this screen. If a box is empty, it means we have no data of that type for this occurrence. The source list (bibliography) for each occurrence is also shown at the bottom of the occurrence details.

To navigate between the elements that were returned in your query results, use the arrow buttons (< and >) on the Element Details bar. To navigate between the occurrences that were returned for an element, use the corresponding buttons on the Occurrence Details bar. In addition, on the Occurrence Details bar the << button takes you to the first occurrence record for the current element, while the >> button takes you to the last record.

Some of the fields shown under the Element Details bar and the Occurrence Details bar contain dropdown lists, which can be accessed by clicking the down arrow ▾ to their right. These allow you to quickly navigate to specific records in your query results. (Note: These fields retain the sort order you selected under the results tab.)

Reports Tab

The Reports tab contains various built-in reports that RareFind 5 can automatically generate from your query. Your query is displayed at the top next to "Query Criteria."

The screenshot shows the 'Reports' tab in the software interface. At the top, there's a navigation bar with 'Query', 'Results', 'Occurrence Details', 'Reports' (selected), 'BIOS', 'Export/Import', and 'Help'. Below this, a message states: 'All reports are based on the query results.' The 'Query Criteria' are listed as 'Element Code IS (ABNSB10010 OR ABNSB09010) AND County IS (Imperial)'. A summary line says: 'Your query returned 2 elements from a total of 3836 elements and 266 occurrences from a total of 74283.' Below this is a green button labeled 'Add text to report' with a red box and arrow pointing to it, and a label 'Adds custom text to report header'. A list of report options follows, with two categories highlighted by red boxes and arrows: 'Element-based reports' (including 'List by Scientific Name', 'List by Common Name', and 'List by Element Code') and 'Occurrence-based reports' (including 'Full Report with Sources', 'Multiple Occurrences per Page', 'Summary Table Report', 'Source Report by Element Occurrence Number', and 'List of all sources used by Element').

Query tool for CNDDDB | [License Agreement](#)

All reports are based on the query results. ⓘ

Query Criteria:Element Code IS (ABNSB10010 OR ABNSB09010)
AND County IS (Imperial)

Your query returned 2 elements from a total of 3836 elements and 266 occurrences from a total of 74283.

Add text to report — Adds custom text to report header

- ▶ **List by Scientific Name** — Listing of the selected elements by scientific name.
- ▶ **List by Common Name** — Listing of the selected elements by common name.
- ▶ **List by Element Code** — Listing of the selected elements by element code.
- ▶ **Full Report with Sources** — Listing of detailed element occurrence information including associated sources. WARNING: This report may take a long time to generate or may fail when the selected set of element occurrences is very large.
- ▶ **Multiple Occurrences per Page** — Listing of detailed element occurrence information in a compact format without source information.
- ▶ **Summary Table Report** — Summary of the selected elements grouped by element information.
- ▶ **Source Report by Element Occurrence Number** — Listing of the data sources for the selected element occurrences by occurrence number.
- ▶ **List of all sources used by Element** — A listing of all source documents used to map the occurrences for an element. WARNING: This report is intended for queries of a single element. This report will be very large if used with queries where many elements have been selected.

If you click on the **Add text to report** button, a multi-line text box appears. You can use this text box to include your own custom text (e.g., Company name) on the first page of a report. To remove that text so that it doesn't appear on your reports, click the **Clear text** button.

This screenshot shows the 'Reports' tab with the 'Clear text' button highlighted by a red box and arrow, and a label 'Clears custom text'. Below it is a large text input area, also highlighted by a red box and arrow, with a label 'Input area for custom text'. The 'Query Criteria' are 'Element Code IS (PDSCR1L4Y0)'. The summary line says: 'Your query returned 1 elements from a total of 3844 elements and 23 occurrences from a total of 75492.'

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All reports are based on the query results. ⓘ

Query Criteria:Element Code IS (PDSCR1L4Y0)

Your query returned 1 elements from a total of 3844 elements and 23 occurrences from a total of 75492.


Clear text — Clears custom text

Custom message for report header


Input area for custom text

▶ **List by Scientific Name** — Listing of the selected elements by scientific name.

▶ **List by Common Name** — Listing of the selected elements by common name.



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



Query Criteria: Element Code is (PDSCR1L4Y0)

Custom message for report header — **Custom text on report**

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Penstemon personatus</i> closed-throated beardtongue	PDSCR1L4Y0	None	None	G2	S2.2	1B.2

Record Count: 1

BIOS Tab

Unlike other tabs, clicking on the BIOS tab will not take you to another screen. Instead, it will open a small window with up to five options. The BIOS tab is best used while viewing the Results tab; what you have selected in the "Elements" and "Occurrences by Selected Elements" tables will affect the options you may choose from.

The screenshot shows the BIOS tab interface. At the top, there is a navigation bar with tabs: Query, Results, Occurrence Details, Reports, BIOS, Export/Import, and Help. The 'Results' tab is active. Below the navigation bar, there is a dropdown menu titled 'Four BIOS options from Results tab' with four options: 'Show map with no selection', 'Show map with ALL returned occurrences (266)', 'Show map with only current element's occurrences (6)', and 'Show map with only current element's selected occurrences (2)'. The 'Show map with only current element's selected occurrences (2)' option is selected. Below the dropdown, there is a table titled '4 elements in the CNDDDB'. The table has columns: Image Search, Scientific Name, Common Name, Code, Occs, Occs, Status, State Status, Global Rank, and State Rank. The table contains two rows: 'Athene cucularia' (burrowing owl) and 'Micrathene whitneyi' (elf owl). The 'Micrathene whitneyi' row is highlighted in yellow and labeled 'Currently selected Element'. Below the table, there is a section titled 'Occurrences by Selected Element' with a sub-header '6 occurrences returned from a total of 17 occurrences for MICRATHENE WHITNEYI'. This section contains a table with columns: Occ Number, EOnx, Date Element Last Seen, Date Site Last Seen, Presence, Accuracy, and County. The table contains six rows of occurrence data. The first three rows are highlighted in yellow and labeled 'Selected Occurrences for currently selected Element'.

Image Search	Scientific Name	Common Name	Code	Occs	Occs	Status	State Status	Global Rank	State Rank
g+ / Ca	Athene cucularia	burrowing owl	ABNSR10010	1844	260	None	None	G4	S2
g+ / Ca	Micrathene whitneyi	elf owl					Endangered	G5	S1

Occ Number	EOnx	Date Element Last Seen	Date Site Last Seen	Presence	Accuracy	County
12	25492	1987-04-09	2009-05-XX	Presumed Extant	Circular feature with a 1600 meter radius (1 mile)	Imperial Arizona State
13	86850	1910-04-23	1998-05-16	Presumed Extant	Circular feature with a 600 meter radius (2/5 mile)	Imperial Arizona State
15	86907	1916-05-05	1978-05-20	Presumed Extant	Circular feature with a 600 meter radius (2/5 mile)	Imperial Arizona State
17	86920	2000-07-15	2009-05-XX	Presumed Extant	Circular feature with a 600 meter radius (2/5 mile)	Imperial Arizona State
18	86921	1997-06-19	2001-07-15	Presumed Extant	Circular feature with a 600 meter radius (2/5 mile)	Imperial Arizona State
20	87471	1916-05-05	1998-05-16	Presumed Extant	Circular feature with a 1600 meter radius (1 mile)	Imperial Arizona State

- 1) The "Show map with no selection" option opens the BIOS 5 data viewer in a new window with the CNDDDB layer loaded and turned on.
- 2) The "Show map with ALL returned occurrences (#)" option opens BIOS 5, loads the CNDDDB layer, and then zooms to a layer created from all the occurrences selected in your RareFind 5 query. The number of occurrences selected is shown in parentheses on the BIOS tab.
- 3) The "Show map with only current element's occurrences (#)" option opens BIOS 5, loads the CNDDDB layer, and then zooms to a layer created from the occurrences for the current element highlighted on the RareFind 5 Results tab (all occurrences displayed in the Occurrences table at the bottom of the Results tab). The number of occurrences selected is shown in parentheses.
- 4) The "Show map with only current element's selected occurrences (#)" option opens BIOS 5, loads the CNDDDB layer, and then zooms to a layer created from the selected occurrences of the currently selected element (occurrences checked in the Occurrences table). The number of occurrences selected is shown in parentheses.

- 5) The "Show map with currently displayed occurrence (1)" option is only seen when clicking on the BIOS tab while on the Occurrence Details screen. This option opens the BIOS 5 data viewer, loads the CNDDDB layer, and then zooms to a layer created from the occurrence that is currently displayed on the Occurrence Details screen.

Five BIOS options from Details tab

- Show map with no selection
- Show map with ALL returned occurrences (266)
- Show map with only current element's occurrences (6)
- Show map with only current element's selected occurrences (2)
- Show map with currently displayed occurrence (1)

Last option shows ONLY the Occurrence on this screen in BIOS

Occurrence Number	EOn dx	Mapn dx	Occurrence Rank	Date Element Last Seen	Date Site Last Seen	Presence	Trend	Occurrence Type
12	25492	16014	C-Fair	1987-04-09	2009-05-XX	Presumed Extant	Unknown	Natural/Native occurrence

If you are working in the BIOS 5 viewer, you can spatially select CNDDDB occurrences and then view their detailed textual information in RareFind 5 by clicking on the **RF** button. In RareFind 5, the Query Summary will then show "BIOS Selection."

Active Layer: California Natural Diversity Database (gov ed) [ds45]

Graphics and Selections

- ☒ California Natural Diversity Database (gov ed) [ds45] Selection **Go** **T** **+** **RF** **X**

BIOS Layers

Remove All BIOS Layers

- ☒ California Natural Diversity Database (gov ed) [ds45] **Go** **+** **RF** **X**

Transfer selection to RareFind

For general information on how to use the BIOS 5 data viewer, please see our [BIOS 5 User Guide](#). For more details on how to work with the CNDDDB data in BIOS, refer to our tutorial for [Using CNDDDB in BIOS 5](#).

Export/Import Tab

If you have not yet run a query, the Export section of the Export/Import tab will not be visible. At any time, you can import a DBF file containing a list of occurrences, and that list will be used to select records in the CNDDDB data. The DBF file must contain an "EOndx" field, which is the unique identifier for occurrence records. When RareFind has successfully imported a list of EOndx values and selected the corresponding occurrence records, the Query Summary will show "Imported file Selection."



After you have run a query, you can export the results of your query as a comma-separated value (CSV) file or a dBase (DBF) file. The results will be exported as either a table of element records or a table of occurrence records.



- 1) The "Export all returned occurrences for all returned elements (#)" option exports all of the occurrences selected in your RareFind 5 query. The number of occurrences selected is shown in parentheses.
- 2) The "Export all returned occurrences for the currently selected element (#)" option exports only the occurrences for the element that is currently selected on the Results tab. The number of occurrences selected is shown in parentheses.
- 3) The "Export selected occurrences for the currently selected element (#)" option exports only the specifically-selected occurrences for the element that is currently selected on the Results tab. Those occurrences must be checked in the Occurrences table. The number of occurrences selected is shown in parentheses.

Help Tab

The Help tab contains links to this user guide, as well as:

- the [CNDDDB Maps & Data page](#),
- [CNDDDB metadata](#) that explains all the data fields shown in RareFind 5,
- [CNDDDB, RareFind 5 and BIOS training](#), and
- [CNDDDB subscription information](#).

If you have any questions or comments, please contact us at rarefind@wildlife.ca.gov.

The screenshot shows the 'Help' tab selected in a navigation bar. The navigation bar includes links for Query, Results, Occurrence Details, Reports, BIOS, Export/Import, Help, and a link to the Query tool for CNDDDB | License Agreement. The main content area is titled 'Help' and contains a list of links: RareFind 5 User Guide, CNDDDB Maps & Data, Questions? Comments? Please contact us at rarefind@wildlife.ca.gov, Metadata: Description of CNDDDB fields, CNDDDB, RareFind 5 and BIOS Training, and CNDDDB Subscription. Below the links, there is a section on citing the CNDDDB as an information source, providing an example citation and explaining the variables YEAR and VERSION DATE.

Help

- [RareFind 5 User Guide](#)
- [CNDDDB Maps & Data](#)
- Questions? Comments? Please contact us at rarefind@wildlife.ca.gov
- [Metadata: Description of CNDDDB fields](#)
- [CNDDDB, RareFind 5 and BIOS Training](#)
- [CNDDDB Subscription](#)

When citing the CNDDDB as an information source, please show the California Natural Diversity Database as the author, and always include the version date. For example:

California Natural Diversity Database (CNDDDB). <YEAR>. RareFind 5 [Internet]. California Department of Fish and Wildlife [<VERSION DATE>].

where:
YEAR is the year that the data was accessed, and
VERSION DATE can be located on the lower left-hand corner of reports.

Suppressed Data Information

The CNDDDB marks some species and/or individual element occurrences (locations) as "suppressed" based on one or more of the following:

- The species is over-collected in the wild.
- The species and/or its occurrences were reported by someone who asked us to make it suppressed, thus restricting its distribution only to government subscribers.
- There is substantial information leading us to protect this site/occurrence from intentional destruction by suppressing the precise location data.

CALIFORNIA DEPARTMENT OF FISH and WILDLIFE **RareFind** Version 5 | User: cnddb_com | [Signoff](#)

Query Results Occurrence Details Reports BIOS Export/Import Help Query tool for CNDDDB | [License Agreement](#)

Element Details Record: 1 of 1

Image Search	Scientific Name	Common Name	Element Code	Global Rank	State Rank	Federal Status	State Status	CA Rare Plant Rank
g+ / Ca	<i>Lilium occidentale</i>	western lily	PMUL1A0G0	G1	S1	Endangered	Endangered	1B.1

General Habitat: Coastal scrub, freshwater marsh, bogs and fens, coastal bluff scrub, coastal prairie, north coast coniferous forest, marshes and swamps.

Micro Habitat: Well-drained, old beach washes overlain w/wind-blown alluvium & org. topsoil, usually near margins of Sitka spruce. 2-185 m.

Habitats: Bog & fen, Coastal bluff scrub, Coastal prairie, Coastal scrub.

Other Status:

Occurrence Details << < Record: 2 of 15 > >>

Occurrence Number	EONdx	Mapndx	Occurrence Rank	Date Element Last Seen	Date Site Last Seen	Presence	Trend	Occurrence Type	Last Updated
10	7760	06769	B-Good	2007-XX-XX	2007-XX-XX	Presumed Extant	Decreasing	Natural/Native occurrence	2008-04-24

Latitude/Longitude (NAD83): [Suppressed]

Township/Range/Section (Mer): [Suppressed]

UTM Coordinates (NAD83): [Suppressed]

Elevation (feet): 75

Owner/Manager: [Suppressed]

Counties: Humboldt

Quads (Key Quad): Fields Landing (4012462)

Suppressed Occurrence data

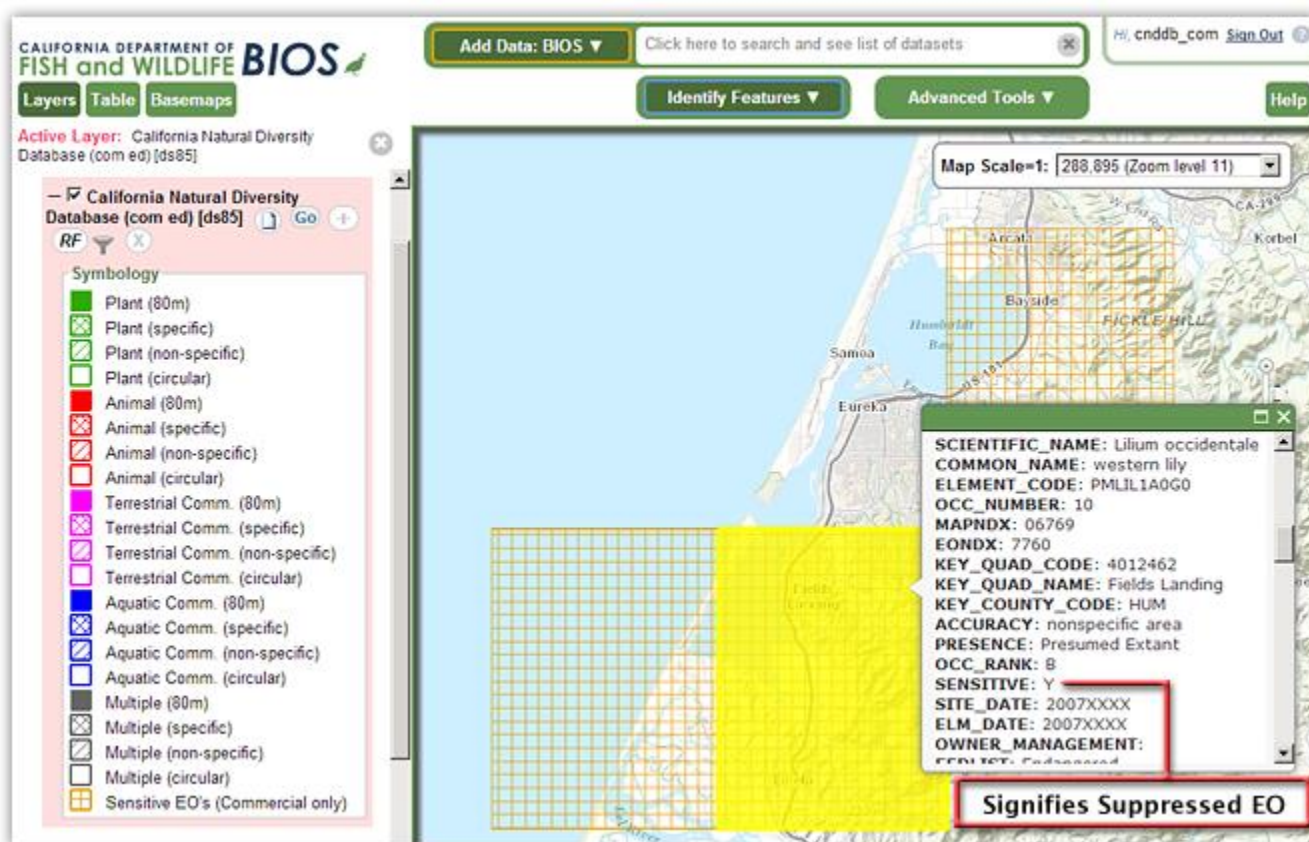
Threat Comments: HAS BEEN THREATENED BY BULB COLLECTIONS AND OVERGRAZING IN PAST. LACK OF SEASONAL GRAZING THREATENS.

Threats: Grazing, Other, Over-collecting/poaching

Sources (count=25):

- BAL78U0001-Ballantyne, O. & W. Critchfield CNPS Rare Plant Status Report for *Lilium occidentale* 1978-04-XX
- BAL79U0001-Ballantyne, O. Letter to Stephen P. Rae, Endangered Plant Program, Dept. of Fish and Game from Orrell Ballantyne. 1979-01-10
- COX83U0002-Cox, R. The Nature Conservancy Element Preservation Plan. 1983-XX-XX
- DEW06R0001-DeWoody, J. & V. Hipkins Genetic diversity and differentiation in western lily (*Lilium occidentale*). US Forest Service project report 2006-07-31

Less than 2% of CNDDDB occurrences are marked as suppressed. All coordinate and location information is suppressed. Suppressed occurrences in RareFind 5 appear with a notice advising Commercial CNDDDB subscribers to contact the CNDDDB directly for more information. Once we understand the nature of your intended use of the data, we may provide you the information in a more generalized format.



Suppressed locations will appear as generalized quad-based features in BIOS 5 for Commercial CNDDDB subscribers; the actual element occurrences fall somewhere within these generalized features.

Spotted Owl Observations Database

Both subspecies of Spotted Owl occurring in California are tracked by the CNDDDB, but are maintained in the CDFW Spotted Owl Observations Database. The Spotted Owl Observations Database is packaged with the CNDDDB and is governed by the [CNDDDB License Agreement](#). The Spotted Owl Observations Database has not been integrated directly into the CNDDDB because management plans for both Northern and California Spotted Owls specifically address owl activity centers; the CNDDDB follows a slightly different mapping protocol, the Natural Heritage Methodology of Element Occurrences, which doesn't track activity centers. To access Spotted Owl data, please use the [CNDDDB & Spotted Owl Viewer](#) (BIOS 5) and refer to the tutorial [Using the Spotted Owl Report Generator in BIOS 5](#).

Disclaimer

The California Department of Fish and Wildlife makes no claim, implied or otherwise, as to the suitability of this dataset for the particular use which the subscriber may have in mind. The CNDDDB is an ongoing and continuously updated database. While the information is complete and accurate to the best of our knowledge and ability, it does not constitute an

official response from any state agency and will not in itself meet the requirements of the California Environmental Quality Act (CEQA). The information supplied is based on the material available at the time of the request and should not be regarded as complete data on the elements or areas being considered. The information must be used in consultation with the appropriate local, state and federal officials. Absence of data does not constitute the basis for a negative declaration.