



California Department of Fish and Wildlife RareFind 5 User Guide



California Department of Fish and Wildlife
California Natural Diversity Database
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[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.

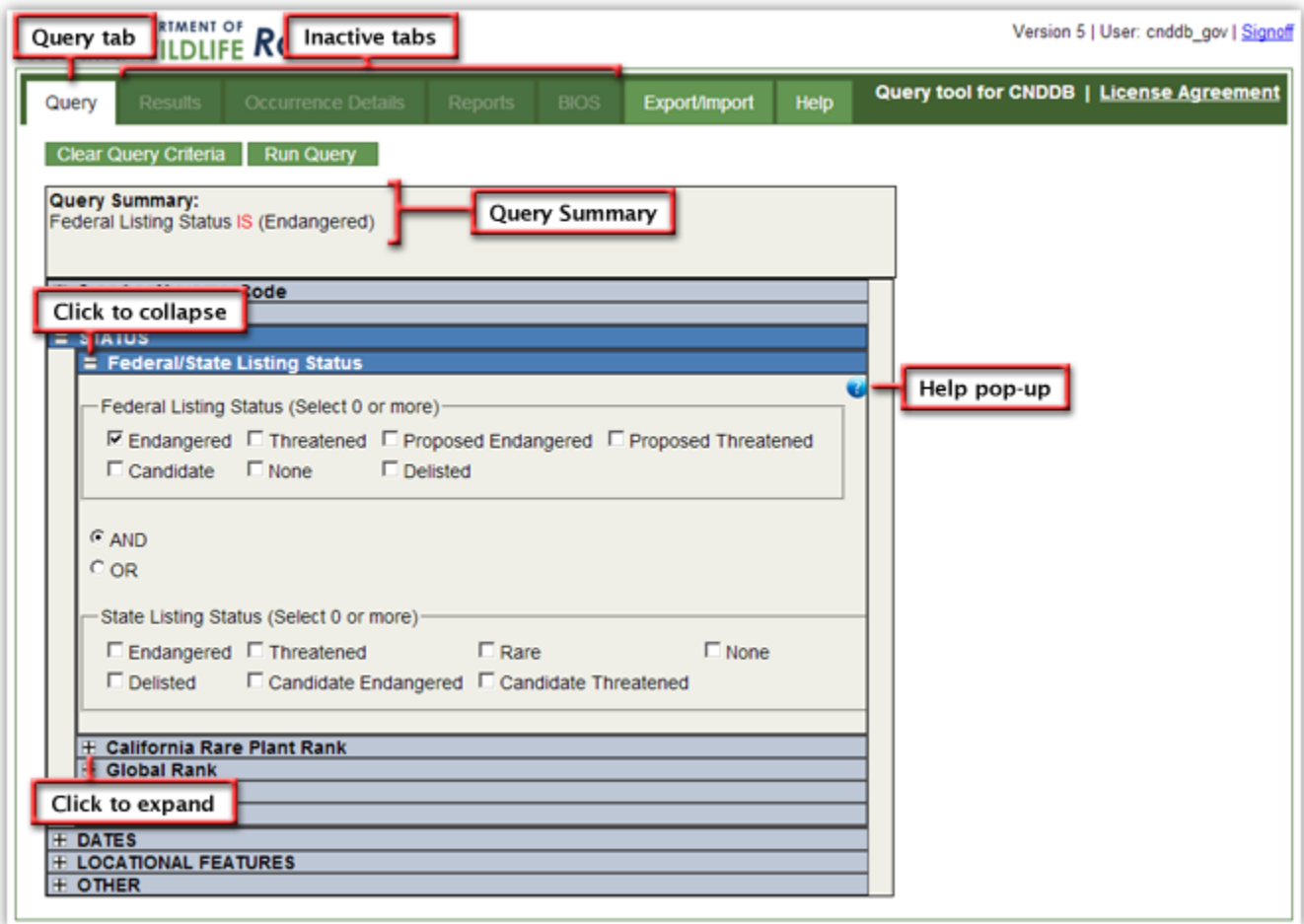


The image shows a login form for the RareFind application. At the top, it displays the text "CALIFORNIA DEPARTMENT OF FISH and WILDLIFE" in green and blue, followed by the "RareFind" logo in blue. Below this, there are two input fields: "Username" and "Password". A "Login" button is positioned below the password field. 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.)

Query Summary:
Element Code IS (ABNSB09010) — Query criterion for *Micrathene whitneyi*

Search text box

Species Name or Code

athene Search

Athene cunicularia (1832) — Search results matching search text

Micrathene whitneyi (17) — Search result added to query criteria

Move selected result

Move all results

Reset

<input type="checkbox"/> Taxonomic Group
<input type="checkbox"/> STATUS
<input type="checkbox"/> DATES
<input type="checkbox"/> LOCATIONAL FEATURES
<input type="checkbox"/> OTHER

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

boxes unchecked. If you want to narrow your query results, you may click on certain checkboxes to add the criteria to your Query Summary. The plus signs **+** will expand the hierarchical categories. You may select one or many items. A selection at a higher level in the hierarchy selects all lower groups below it. In the example below, selecting "Vascular" added "Ferns," "Gymnosperms," "Monocots," and "Dicots" to the Query Summary.

Query Summary:
Taxonomic Group IS (Crustaceans OR Ferns OR Gymnosperms OR Monocots OR Dicots)

Species Name or Code Query criteria for selected taxonomic groups

Taxonomic Group

- Communities
- Animals
 - Vertebrates
 - Invertebrates
 - Mollusks
 - Arachnids
 - Crustaceans Only this group is selected
 - Insects
- Plants
 - Vascular All groups under this selected hierarchy are selected
 - Ferns
 - Gymnosperms
 - Monocots
 - Dicots
 - Nonvascular
- Fungi

STATUS
DATES
LOCATIONAL FEATURES
OTHER

Some criteria selectors with checkboxes are not grouped in a hierarchy, but work in a similar fashion. You may select one or many of the checkboxes, and each selection that you make will automatically update your Query Summary.

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 interface for a query summary. At the top, a box labeled "Query Summary:" contains the text "Element Last Seen Date IS after '1/1/2006'", which is underlined in red. A red callout box points to this text with the label "Query criterion appears after the Apply button is clicked". Below this is a list of expandable 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 to show "Date Element Last Seen (mm/dd/yyyy)". Under this, there are two text boxes: "(From)" containing "01/01/2006" and "(To)" containing "mm/dd/yyyy". A red callout box labeled "Text boxes for query criteria" points to these two boxes. Below the text boxes is a green "Apply" button.

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 'Elements' table with the following data:

Image Search	Scientific Name	Common Name	Element Code	Total Occs	Returned Occs	Federal Status	State Status	Global Rank	State Rank	CA Rare Plant Rank
<input type="text" value="Case sensitive filter..."/>										
/ Ca	Athene cunicularia	burrowing owl	ABNSB10010	1832	1832	None	None	G4	S2	
/ Ca	Micrathene whitneyi	elf owl	ABNSB09010	17	17	None	Endangered	G5	S1	

Below the Elements table is the 'Occurrences by Selected Element' table for Athene cunicularia:

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

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 'Elements' table with the following annotations:

- Sort triangle:** A red box highlights the upward-pointing triangle next to the 'Scientific Name' header.
- Field/column header:** A red box highlights the 'Scientific Name' header.
- Case-sensitive filter text box:** A red box highlights the text input field under the 'Scientific Name' header.

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 shows two panels from a web application. The top panel is titled "Elements" and shows a "Change visible columns" dialog box. The dialog has three sections: "Element Information" (with checked items: Image Search, Scientific Name, Common Name, Element Code, Total Occs, Returned Occs), "Status/Rank" (with checked items: Federal Status, State Status, Global Rank, State Rank, CA Rare Plant Rank), and "Habitats" (with unchecked item: Habitats). A table to the right shows data for two elements. A red box highlights the table with the text "Available fields/columns for Elements table".

Total Occs	Returned Occs	Federal Status	State Status	Global Rank	State Rank	CA Rare Plant Rank
1832	1832	None	None	G4	S2	
17	17	None	Endangered	G5	S1	

The bottom panel is titled "Occurrences by Selected Element" and shows a "Change visible columns" dialog box. The dialog has three sections: "Element Information" (with unchecked items: Scientific Name, Common Name, Taxonomic Group, Element Code), "Status/Rank" (with unchecked items: Federal Status, State Status, Global Rank, State Rank, CA Rare Plant Rank, Other Status, CNDOB Suppressed), "Dates" (with checked items: Date Element Last Seen, Date Site Last Seen, Last Updated), "Locational Information" (with checked items: Accuracy, County, Quad), and "Other Information" (with checked items: Occ Number, EONdx, Mapndx, Occurrence Rank, Presence, Trend, Occurrence Type, Threat List, Threat Comments, General Comments). A table to the right shows data for occurrences. A red box highlights the table with the text "Available fields/columns for Occurrences table".

Accuracy	County	Quad
1600 meter radius (1 mile)	Imperial	Calpatria SW (3311516)
300 meter radius (1/5 mile)	Imperial	Westmorland (3311515)
300 meter radius (1/5 mile)	Marin	Novato (3812215)
300 meter radius (1/5 mile)	Alameda	Altamont (3712166)
area	Alameda	Midway (3712165) Clifto
area	Alameda	Midway (3712165)
300 meter radius (1/5 mile)	Contra Costa	Clifton Court Forebay (37

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

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. At the top, there are navigation tabs: Query, Results, Occurrence Details (selected), Reports, BIOS, Export/Import, and Help. The main content is divided into two sections: Element Details and Occurrence Details.

Element Details: This section shows information for a specific element. It includes a table with columns: Image Search, Scientific Name, Common Name, Element Code, Global Rank, State Rank, Federal Status, State Status, and CA Rare Plant Rank. The current element is *Penstemon personatus* (closed-throated beardtongue) with element code POSCR1L4Y0. Below this table are fields for General Habitat, Micro Habitat, Habitats, and State Status.

Occurrence Details: This section shows a table of occurrence records. The current record is 11, with EONdx 4862 and Mapndx 11955. It includes fields for Occurrence Number, EONdx, Mapndx, Occurrence Rank, Date Element Last Seen, Date Site Last Seen, Presence, Trend, Occurrence Type, and Last Updated. Below this table are detailed location information (Latitude/Longitude, Township/Range/Section, UTM Coordinates, Elevation), Owner/Manager (USFS-PLUMAS NF), Counties (Plumas), Quads (Key Quad: Dogwood Peak, Haskins Valley), Sources (count=61), Detailed Location, Ecological Comments, General Comments, Threat Comments, and Threats.

Red callout boxes highlight the following features:

- Navigate forward/backward through Element results:** Points to the left and right arrow buttons on the Element Details bar.
- Select specific Element result:** Points to the dropdown menu for the Element Code.
- Navigate forward/backward through Occurrence results:** Points to the left and right arrow buttons on the Occurrence Details bar.
- Select specific Occurrence result for current Element:** Points to the dropdown menu for the Occurrence Number.
- List of sources:** Points to the list of sources at the bottom of the occurrence details.

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."

Query Results Occurrence Details **Reports** BIOS Export/Import Help Query tool for CNDDB | 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.

Element-based reports

Occurrence-based reports

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.

Query Results Occurrence Details **Reports** BIOS Export/Import Help Query tool for CNDDB | License Agreement

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 with a dropdown menu open. The menu options are:

- 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)

The main table below the menu shows the following data:

Image Search	Scientific Name	Common Name	Code	Occs	Occs	Status	State Status	Global Rank	State Rank
g+ / Ca	Athene cucularia	burrowing owl	ARNSR10010	1844	260	None	None	G4	S2
g+ / Ca	Micrathene whitneyi	elf owl					Endangered	G5	S1

The second table, "Occurrences by Selected Element", shows 6 occurrences for MICRATHENE WHITNEYI:

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

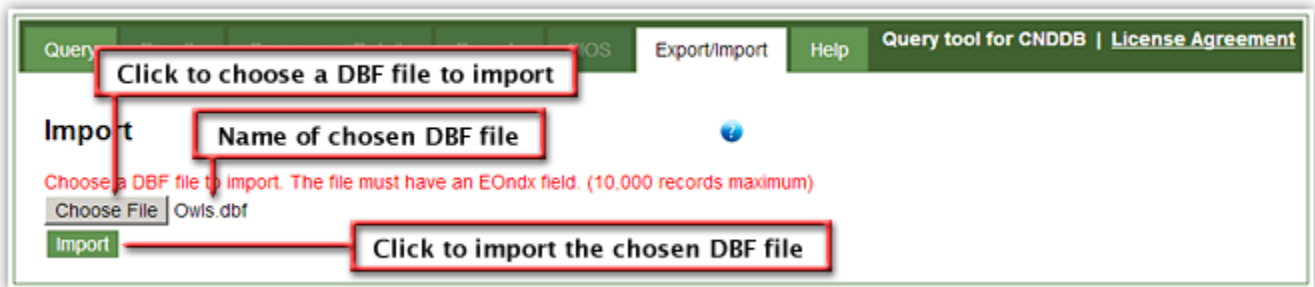
- California Natural Diversity Database (gov ed) [ds45] **Go** **+** **RF** **X**

Transfer selection to RareFind

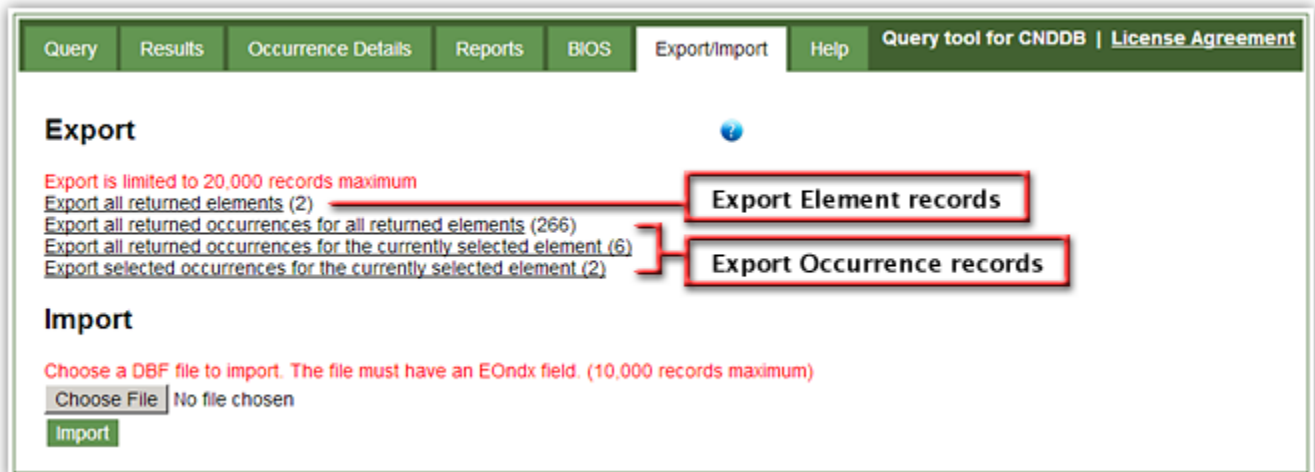
For general information on how to use the BIOS 5 data viewer, please see our [BIOS 5 User Guide](#). For more details on how to work with the CNDDDB data in BIOS, refer to our tutorial for [Using CNDDDB in BIOS 5](#).

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.



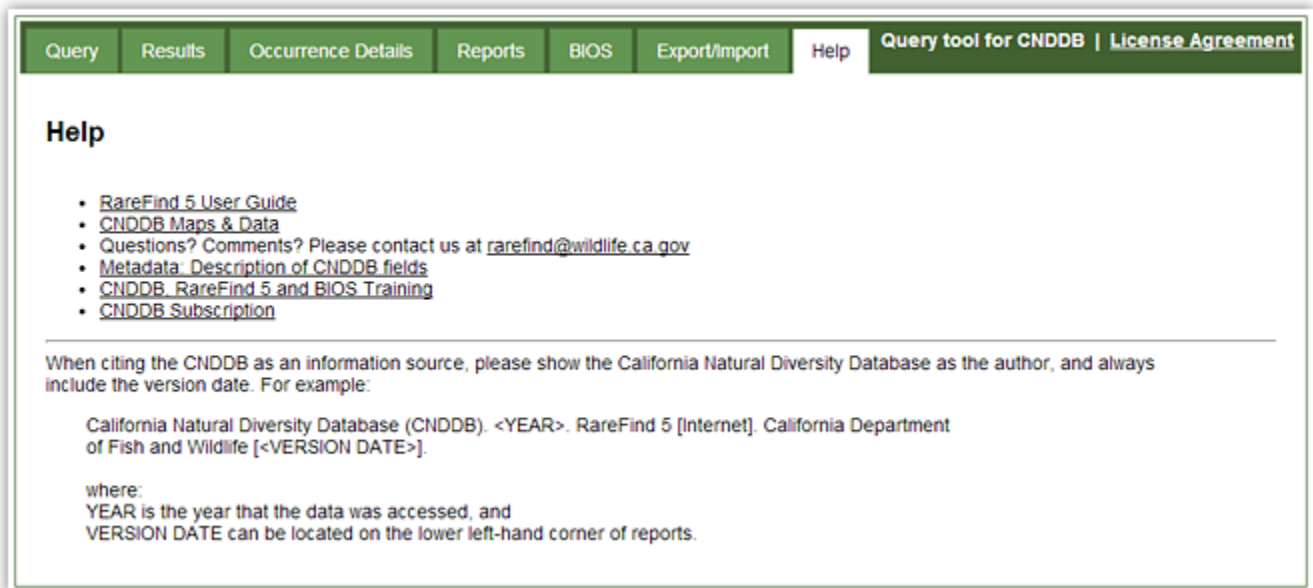
- 1) The "Export all returned occurrences for all returned elements (#)" option exports all of the occurrences selected in your RareFind 5 query. The number of occurrences selected is shown in parentheses.
- 2) The "Export all returned occurrences for the currently selected element (#)" option exports 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 menu. The menu includes 'Query', 'Results', 'Occurrence Details', 'Reports', 'BIOS', 'Export/Import', and 'Help'. The 'Help' tab content includes 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 citation information for the CNDDDB, providing an example citation and explaining the variables used.

Query Results Occurrence Details Reports BIOS Export/Import Help Query tool for CNDDDB | License Agreement

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.

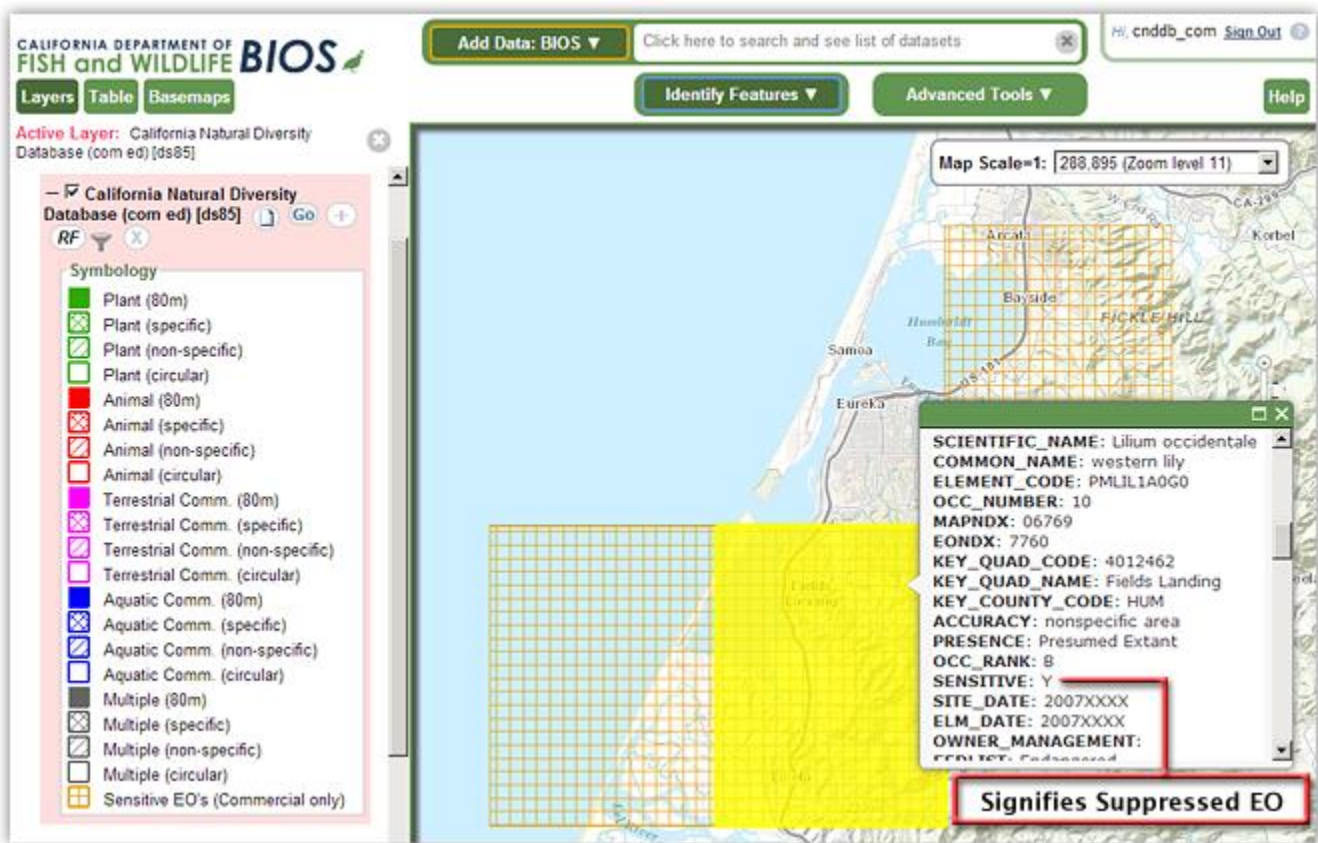
Suppressed Data Information

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.

The screenshot displays the 'RareFind' interface for the California Department of Fish and Wildlife. The top navigation bar includes 'Query', 'Results', 'Occurrence Details', 'Reports', 'BIOS', 'Export/Import', and 'Help'. The main content area is titled 'Element Details' and shows 'Record: 1 of 1'. Below this is a table with columns for Image Search, Scientific Name, Common Name, Element Code, Global Rank, State Rank, Federal Status, State Status, and CA Rare Plant Rank. The data row shows 'Lillium occidentale' (western lily) with element code 'PML1A0G0', global rank 'G1', state rank 'S1', and federal/state status 'Endangered'. Below the table are sections for 'General Habitat', 'Micro Habitat', 'Habitats', and 'Other Status'. The 'Occurrence Details' section shows 'Record: 2 of 15' and a table with columns for Occurrence Number, EONdx, Mapndx, Occurrence Rank, Date Element Last Seen, Date Site Last Seen, Presence, Trend, Occurrence Type, and Last Updated. The data row shows occurrence number '10', EONdx '7760', Mapndx '06769', Occurrence Rank 'B-Good', and Last Updated '2008-04-24'. Below this are fields for Latitude/Longitude, Township/Range/Section, UTM Coordinates, Elevation, Owner/Manager, and Counties. A red box highlights the 'Suppressed Occurrence data' label, which is connected by red lines to the 'Location', 'Detailed Location', 'Ecological Comments', and 'General Comments' sections. The 'Location' section contains the text: '*SENSITIVE* LOCATION INFORMATION SUPPRESSED.' The 'Detailed Location' section contains: 'PLEASE CONTACT THE CALIFORNIA NATURAL DIVERSITY DATABASE, CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, FOR MORE INFORMATION. (916) 322-2493'. The 'Ecological Comments' section contains: 'ALONG OCEAN HEADLANDS ON PERIPHERY OF SITKA SPRUCE & ADJACENT MARSH IN OPEN HABITAT. HABITAT MOSTLY A MATRIX OF COASTAL PRAIRIE & COASTAL SCRUB DOMINATED BY CALAMAGROSTIS NUTKAENSIS. RUBUS'. The 'General Comments' section is empty. Below these are 'Quads (Key Quad)' and 'Fields Landing (4012462)'. The 'Threat Comments' section contains: 'HAS BEEN THREATENED BY BULB COLLECTIONS AND OVERGRAZING IN PAST. LACK OF SEASONAL GRAZING THREATENS.' The 'Threats' section contains: 'Grazing', 'Other', and 'Over-collecting/poaching'. At the bottom, there is a 'Sources' section with a count of 25, listing several references.

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 CNDDB 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 CNDDB, but are maintained in the CDFW Spotted Owl Observations Database. The Spotted Owl Observations Database is packaged with the CNDDB and is governed by the [CNDDB License Agreement](#). The Spotted Owl Observations Database has not been integrated directly into the CNDDB because management plans for both Northern and California Spotted Owls specifically address owl activity centers; the CNDDB 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 [CNDDB & 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 CNDDB 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.