INSERT YOUR TITLE HERE USING UPPER CASE FONT. USE DOUBLE-SPACING IF the TITLE is longer THAN ONE LINE. Check spelling carefully

By

Author’s full name

A Thesis Presented to

The Faculty of Humboldt State University

In Partial Fulfillment of the Requirements for the Degree

Master of Science in Natural Resources: insert your option here

Committee Membership

Dr. [insert faculty name], Committee Chair

Dr. [insert faculty name], Committee Member

Dr. [insert faculty name], Committee Member

Dr. [insert faculty name], Program Graduate Coordinator

Month Year

# ABSTRACT

INSERT YOUR TITLE HERE, WHICH SHOULD BE THE SAME AS THE ONE ON YOUR TITLE PAGE; SINGLE SPACE IF MORE THAN ONE LINE

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Begin typing the text of your Abstract here. The Abstract should summarize the contents of your thesis and should be able to stand alone. Emphasis should be on what you found. The Abstract should include the following elements: 1) the key topic or problem, 2) your main approach (methods), 3) one or two important results, and 4) a discussion/interpretation of your results or note of your main conclusion. For examples of abstracts, see the [Graduate Studies website](https://gradprograms.humboldt.edu/content/thesis-project-help), the Thesis Canvas Course, or completed HSU theses on [Humboldt Digital Commons](https://digitalcommons.humboldt.edu/etd/). Abstracts are read by those who are trying to decide whether or not to read the main document, or who want to get the big picture before reading the main document. The Abstract should not exceed 250 words (approximately 1.5 pages). Literature citations and footnotes are not allowed. Page numbers on the preliminary pages are lower case Roman numerals placed center-bottom. The title page is not numbered, but is assumed to be page “i”. Therefore, the first page of the abstract is page “ii”.

# ACKNOWLEDGEMENTS

Begin the text of your acknowledgements here. Acknowledgements are optional unless your study was funded. If you received funding for your graduate project be sure to list the source. This is your chance to thank all of the people who helped you in designing, carrying out, and writing your project. If you are not including an acknowledgements section delete this page.

TABLE OF CONTENTS

[ABSTRACT ii](#_Toc53671322)

[ACKNOWLEDGEMENTS iii](#_Toc53671323)

[LIST OF FIGURES vii](#_Toc53671324)

[LIST OF APPENDICES viii](#_Toc53671325)

[INTRODUCTION 1](#_Toc53671326)

[Scientific Names 2](#_Toc53671327)

[Heading Level Two (make sure ‘Heading 2’ is selected as the style) 2](#_Toc53671328)

[Heading level three and four 2](#_Toc53671329)

[MATERIALS AND METHODS 4](#_Toc53671330)

[IRB and IACUC 4](#_Toc53671331)

[Study Site 4](#_Toc53671332)

[Cross Reference Tables/Figures 5](#_Toc53671333)

[Heading level three sample 5](#_Toc53671334)

[RESULTS 7](#_Toc53671335)

[Tables 7](#_Toc53671336)

[Captions and alternative text 7](#_Toc53671337)

[Table spacing 9](#_Toc53671338)

[Figures 9](#_Toc53671339)

[Captions and alternative text 9](#_Toc53671340)

[Resolution and color 12](#_Toc53671341)

[Numbers, Units, and Acronyms 13](#_Toc53671342)

[Quotations 13](#_Toc53671343)

[DISCUSSION 15](#_Toc53671344)

[Heading Level Two Sample 15](#_Toc53671345)

[Heading level three sample 15](#_Toc53671346)

[CONCLUSIONS, RECOMMENDATIONS OR SUMMARY 16](#_Toc53671347)

[REFERENCES OR LITERATURE CITED 17](#_Toc53671348)

[APPENDICES 18](#_Toc53671349)

LIST OF TABLES

The Table of Contents (TOC), List of Tables, and List of Figures are automatic. There is no need to type anything into them. When you have finished adding all text to the template, right-click in the Table of Contents, select the option “Update Field” and fill in the circle “Update Entire Table,” then click “OK.” If you applied the appropriate style (e.g., Heading 1 etc.) to your headings in the text, the headings and page numbers will update automatically when you update the TOC. **Delete this text box when you are done**.

[Table 1. Table captions should describe the contents of the table. For example, a suitable caption for this table could be: "Bat species detected with automated ultrasonic detectors placed within 50 m of black cottonwood saplings, and percentage of identified bat passes (*n* = 895) at Mono Lake, California.” 8](#_Toc396136185)

# LIST OF FIGURES

[Figure 1. Example of a site map showing the study site locations and an inset regional map of California. To insert a caption for each of your figures, first select the graphic, then go to the "References" tab and choose 'insert caption.’ Type a detailed caption into the dialog box and choose 'Below selected item' for the position. You should indent ½ inch after the first line, single space and you can use a 10-point font size rather than a 12-point if you prefer (but be consistent about the font size of your captions throughout). 6](#_Toc53671352)

[Figure 2. Make sure text within a figure is readable and clear. A caption for the above figure might be: “Biomass (mg-100 leaves) for arthropod foraging functional groups and number of concealment structures-100 leaves (mean ±1 SE; n = 28 for each treatment and census combination) on black cottonwood saplings to which birds and bats did (control) and did not (exclosure) have access at Mono Lake, California.” 10](#_Toc53671353)

[Figure 3. Figures placed in landscape orientation can keep the page number in the upper right corner. Example caption for this figure: “Transformed linear regression vascular plant volume models (Y = β1X1 + ε) and box plot comparison of estimated and 11](#_Toc53671354)

[Figure 4. The figure shows an example of using patterns and labels to address accessibility. 12](#_Toc53671355)

# LIST OF APPENDICES

[Appendix A: Instructions for Appendices 18](#_Toc53671369)

[Appendix B: Number of arthropods -100 leaves (mean ± standard deviation, n = 28 saplings per treatment and census combination) on black cottonwood saplings at Mono Lake, California, 2010. 19](#_Toc53671370)

# INTRODUCTION

Each heading level one (e.g. INTRODUCTION) should be all caps and start on a new page, with spacing set at 24 points after. Be sure to check for misspellings in your header because Microsoft Word does not check the spelling of words in all caps. You can designate a header as level 1, 2, 3 or 4 in the ‘styles’ section of the Home tab. For help using Styles or creating the Tables of Contents refer to the [Thesis Canvas Course](https://canvas.humboldt.edu/enroll/JLG3CM) sections on [Headings and Subheadings](https://canvas.humboldt.edu/courses/13836/pages/headings-and-subheadings?module_item_id=119262) and [Table of Contents](https://canvas.humboldt.edu/courses/13836/pages/table-of-contents-list-of-tables-and-list-of-figures?module_item_id=123187).

The Introduction section should set the context for the work to be reported. It should also establish the purpose and importance of that work and answer the question, “What did you study?” Per the State of California’s Title 5 Education Code, this is where you will “clearly identify the problem, state the major assumptions, [and] explain the significance of the undertaking.” Begin with a broad scope and then narrow the focus of the Introduction as it progresses. The Introduction should demonstrate the author’s awareness of the pertinent literature (or you can have a separate section called “Literature Review” after the Introduction). It is good practice to end your Introduction with a statement of your study objectives.

Masters theses must be typed in Times New Roman 12-point font, although you may reduce the font size to 10-point within tables or figures to fit within margins. Text must be double spaced, except for quoted passages that may be indented and single-spaced for emphasis or within the Table of Contents or List of Figures/Tables when a heading or caption title wraps to a second line. Text must be left aligned. To see the paragraph, page, and section breaks throughout the document, click the ¶ symbol under the home tab.

Please install the latest version of Microsoft Word by downloading the free Microsoft Office software suite at <https://hsu-forms.humboldt.edu/software/>.

## Scientific Names

Scientific names may be denoted by underlining or by italics (e.g., Neophylax rickerii or *Neophylax rickerii*). However, underlining or italics must be applied consistently throughout the thesis. The genus should be abbreviated after its first use (e.g. *N. rickerii*) but must always be spelled out in its entirety when used as the first word in a sentence (e.g., *Neophylax rickerii*).

## Heading Level Two (make sure ‘Heading 2’ is selected as the style)

If you want to have sub-headings within your major sections (i.e. Introduction, Methods, Results, Discussion) use heading level two. Heading level two titles should be center aligned; the first letter of each major word is capitalized, and has spacing set at 12 points before and 18 points after.

### Heading level three

Heading level three titles are subheadings under heading level two. Heading level three is left aligned; the font is underlined and in sentence case.

Heading level four. Heading level four titles are subheadings under heading level three. This heading is indented with the paragraph. The font is underlined and in sentence case. The heading ends with a period. Be careful when applying the heading style so that the rest of the paragraph remains as normal text. To apply a heading: 1) type the heading and the following paragraph, 2) highlight the heading, and 3) select heading level four in the Styles menu.

# MATERIALS AND METHODS

Insert the text of your Materials and Methods here. The Materials and Methods section describes what you used (Materials) and how you did your study (Methods). Alternatively, you can call this section simply “METHODS.” This section must be sufficiently detailed so that a reasonably competent colleague would be able to repeat your work. Reproducibility is an essential cornerstone of the scientific method. This section should include your research design or approach; population and/or sample; collection and tabulation of data; and data analysis procedures. Be sure to avoid unnecessary details about common laboratory equipment (e.g. microscopes, balances, notebooks, etc.) and procedures (e.g. standard statistical analyses).

## IRB and IACUC

If you worked with vertebrate animals, your Institutional Animal Care and Use Committee (**IACUC**) approval number and date must be included in your materials and methods. If you worked with Human Subjects in your research, your Institutional Review Board (**IRB)** approval number and date must be included in your materials and methods.

## Study Site

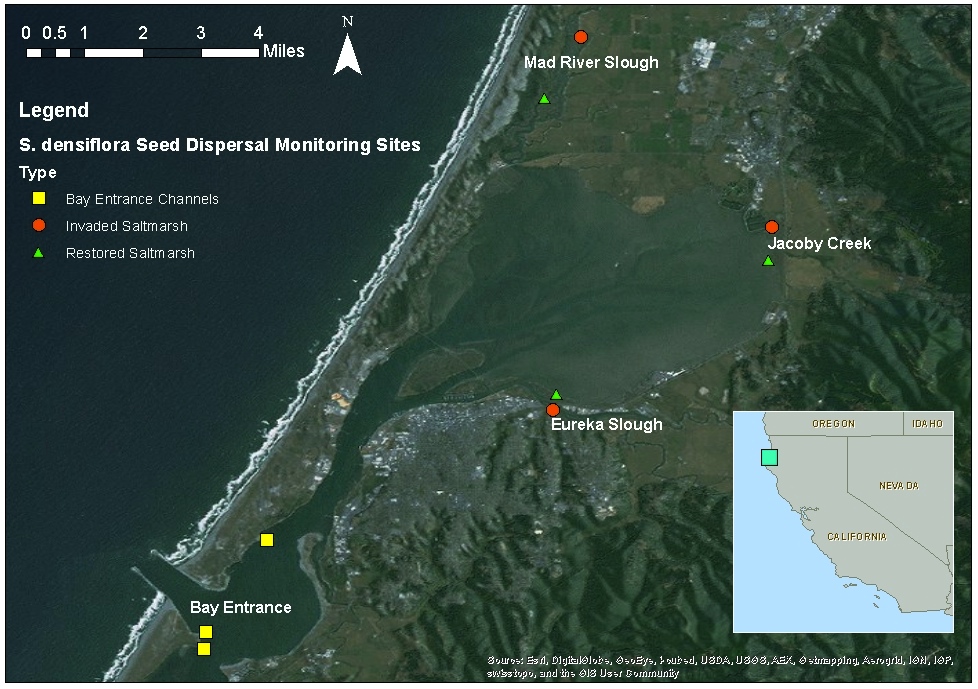
Your materials and methods may require a detailed description of the study site. Limit the study site information to that needed for an understanding and interpretation of the results. The study site section can be a sub-section within your Materials and Methods or it can be a stand-alone section just before the Materials and Methods section. It is always a good idea to provide a site map of where you conducted your study (see Figure 1 for an example).

## Cross Reference Tables/Figures

You should cross-reference each mention of your figures and tables in the text by highlighting the text (e.g., Figure 1), go to the ‘References’ tab, and click on ‘Cross reference’ in the Captions section. In the drop-down menu “reference type” you should choose Figure or Table as appropriate, and in the drop-down menu “insert reference to” you should choose ‘only label and number.’ All tables and figures must be referred to in the text. The figure or table should be inserted immediately after the paragraph when it is first mentioned. Tables and figures must be cited in the text in numerical order. Each table/figure should be placed on a separate page or immediately following the paragraph where it is first mentioned (if it can fit on the same page).

### Heading level three sample

#### Heading level four sample.



*Figure 1. Example of a site map showing the study site locations and an inset regional map of California. To insert a caption for each of your figures, first select the graphic, then go to the "References" tab and choose 'insert caption.’ Type a detailed caption into the dialog box and choose 'Below selected item' for the position. You should indent ½ inch after the first line, single space and you can use a 10-point font size rather than a 12-point if you prefer (but be consistent about the font size of your captions throughout).*

# RESULTS

Insert the text of your Results here. In the Results section you present your findings. This is harder than it seems because often you are presenting data. Sometimes, data can be effectively presented in tables or figures. However, anything you present must be meaningful and should never be redundant. That is, you do not have to present every scrap of data. And you should not present the same data in a table and figure. If you present the majority of data in a table, use the text to point out the highlights from that table.

## Tables

If you present data in table form, use the “Insert Table” tool to create accessible tables in your document. Tables should have clear column headings to provide context and assist in navigation of the table’s contents. Identify the top row of the table as a Repeat Header Row in the Table Tools, Layout tab. **Note**: Do not use tabs or spaces to create tables, or import a table as an image. It may look like a table; however, it will not be accessible or readable by assistive technologies. Avoid merging or splitting cells. All rows and columns should have the same number of cells. Keep tables from breaking over pages unless the table is too long to fit on a single page.

### Captions and alternative text

Table captions are placed above the table (see Table 1 for an example). You add captions by using the “Insert Caption” feature found in the Microsoft Word references tab. This will allow you to automatically update the List of Tables in the preliminary pages of this template. Using captions will also sequentially number your tables (Table 1, Table 2, etc.), allowing you to refer to them in the text. Alternative text can be added by right-clicking the table, selecting Table Properties, and selecting the Alt Text tab. For help using Tables refer to the [Thesis Canvas Course](https://canvas.humboldt.edu/enroll/JLG3CM) section on [Tables](https://canvas.humboldt.edu/courses/13836/pages/tables?module_item_id=119261).

*Table 1. Table captions should describe the contents of the table. For example, a suitable caption for this table could be: "Bat species detected with automated ultrasonic detectors placed within 50 m of black cottonwood saplings, and percentage of identified bat passes (n = 895) at Mono Lake, California.”*

| Common name | Scientific name | Percentage of identified bat passes (%) |
| --- | --- | --- |
| Small-footed myotis | *Myotis ciliolabrum* | 37.0a |
| Little brown bat | *Myotis lucifugus* | 31.3 |
| Long-eared myotis | *Myotis evotis* | 23.5 |
| Big brown bat | *Eptesicus fuscus* | 4.2 |
| Free-tailed bat | *Tadarida brasiliensis* | 3.0 |
| Silver-haired bat | *Lasionycteris noctivagans* | 1.4 |
| California myotis | *Myotis californicus* | <1b |
| Hairy-winged myotis | *Myotis volans* | <1 |
| Yuma myotis | *Myotis yumanensis* | <1 |
| Pallid Bat | *Antrozous pallidus* | <1 |

a: Percentages are weighted means.

b: A percentage <1 indicates a low detection rate.

### Table spacing

Leave enough space between columns so that each entry stands out as a separate item. Consider leaving at least one space on each side of the longest entry. Align columns of words on the left; align numbers by decimal points or by centering the column. Single-space within items and double space between items. Footnotes may be placed 12 points below the bottom of a table. Use lower case letters to identify footnotes.

## Figures

### Captions and alternative text

Alternative text (Alt Text) is a word or phrase that conveys the same essential information as the figure. Alternative text allows people with screen readers to understand the content of your pictures, charts, graphs and tables. You will need to add alternative text in order to comply with the accessibility requirements. It is unnecessary to begin a description with “photo of” or “picture of”. If the information contained in the figure is fully described in the document text or in the figure caption enter “refer to text” or “refer to caption” in the Alt Text description box.

To enter Alt Text, right-click the figure and select the Edit Alt Text option. Captions should be placed under the figure. Use the “Insert Caption” feature found in the Microsoft Word references tab to insert a caption. This will allow you to automatically update the List of Figures in the preliminary pages of this template. Using captions will also sequentially number your figures (Figure1, Figure 2, etc.), allowing you to refer to them in the text. For help using Figures refer to the [Thesis Canvas Course](https://canvas.humboldt.edu/enroll/JLG3CM) section on [Figures](https://canvas.humboldt.edu/courses/13836/pages/figures?module_item_id=119886). See Figure 2 and Figure 3 for more examples of captions and alternative text.

Biomass (mg-100 leaves) for arthropod foraging functional groups including herbivores, predators and parasites, leaf chewing larvae, and leaf folds, ties. and rolls. 

*Figure 2. Make sure text within a figure is readable and clear. A caption for the above figure might be: “Biomass (mg-100 leaves) for arthropod foraging functional groups and number of concealment structures-100 leaves (mean ±1 SE; n = 28 for each treatment and census combination) on black cottonwood saplings to which birds and bats did (control) and did not (exclosure) have access at Mono Lake, California.”*

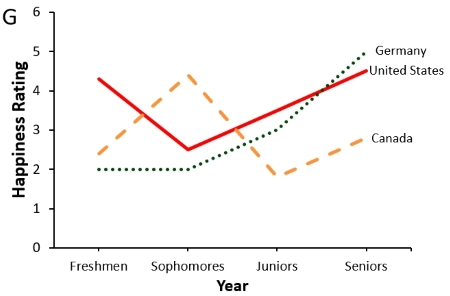
Transformed linear regression vascular plant volume models (Y = β1X1 + ε) and box plot comparison of estimated and measured vascular plant volume in native and invaded plots including Spartina densiflora, Distichlis spicata, Salicornia pacifica, Jaumea carnosa, Triglochin maritima.


*Figure 3. Figures placed in landscape orientation can keep the page number in the upper right corner. Example caption for this figure: “Transformed linear regression vascular plant volume models (Y = β1X1 + ε) and box plot comparison of estimated and measured vascular plant volume in native and invaded plots.”*

### Resolution and color

Figures should have high enough resolution to be read and understood easily (at least 300 dpi). Color cannot be used as the only means to convey context or information. To check if an image will be colorblind accessible, click on your image, select the Format tab, then Color, and Grayscale, and then evaluate if any meaning is lost when viewed in this manner. Options include using patterns instead of solid colors or lines, using colorblind accessible color schemes (see [http://colorbrewer2.org](http://colorbrewer2.org/) for sequential color options), using text signifiers to differentiate information, or even using expanded captions or alternative text to summarize the primary takeaway of the figure.

Color note. This should not in any way discourage the use of color on a page, or even color coding if it is accompanied by other visual indications.



*Figure 4.* *An example of using patterns and labels to address accessibility*

## Numbers, Units, and Acronyms

In scientific writing, one-digit numbers are usually given word names (e.g. one, two, etc.) when mentioned in the text. Two-or-more-digit numbers are not spelled out (e.g. 10, 11, etc.). A fraction is always spelled out in the text unless it is part of a mixed fraction that is large enough to be expressed by numerals. Numerals are used to express quantities combined with abbreviations and symbols.

Decimals and percentages are expressed in Arabic numerals. Note that unless it follows a number (e.g., 50%), “percent” or “percentage” is correct. Use only “%”in tables and figures. For table entries with a value less than one, always precede the decimal point with a "0" (e.g. 0.24 not .24).

All reported measurements and units should be metric (if this is the convention in your discipline). Abbreviations of units should be consistent and standard. Avoid the use of periods after abbreviations (cm not cm.). Be consistent in your usage. If you use cm for centimeters, use m for meters.

Acronyms should be used sparingly. Spell out the acronym the first time it is mentioned (e.g., “Data were acquired by the United States Department of Agriculture (USDA)”) and then use the acronym for every subsequent mention.

## Quotations

Short quotations must be enclosed in quotation marks and referenced. Place the closing quotation mark outside a comma or period but inside a colon or semicolon (e.g., “spiders.” and “spiders”;). Place the quotation mark outside or inside of an exclamation point or question mark depending upon whether the mark belongs with the quoted material or with your text. Indicate omissions of parts of quoted material by three dots (e.g., "Read my lips: no new... "). Direct quotations of four typewritten lines or more:

…should be set off in a separate paragraph(s), single-spaced, and referenced. The entire quotation should be inset equivalent to the indentation of a paragraph. The in-text citation should be listed after the final period of the block quote. (Morgan 2020)

# DISCUSSION

Insert the text of your Discussion here. This is your chance to compare and contrast the results of your experiment or study with the previously published works of others. It also gives you a chance to present the principles, relationships, and generalizations shown by your results. You should, however, discuss and interpret your results, not just summarize your results. You should also point out any inconsistencies, exceptions, or lack of correlation in your results and offer possible explanations. Practical or theoretical implications of your work should also be noted. The Discussion section is also the appropriate place to make recommendations for future research (if not included in a separate section).

## Heading Level Two Sample

Insert additional Discussion text here.

### Heading level three sample

Insert additional Discussion text here.

Heading level four sample. Insert additional Discussion text here.

# CONCLUSIONS, RECOMMENDATIONS OR SUMMARY

Conclusions, recommendations or a summary may be included after the Discussion. However, it is not required. Recommendations might be particularly appropriate if the work was done for a sponsoring agency to solve some problem in resource management. If you select ‘Summary’ as your header for this section you should summarize the entire research effort.

# REFERENCES OR LITERATURE CITED

Insert references here, with the first line of a reference left justified to the margin and all subsequent lines of that reference indented about 0.5 inches.

References are listed in alphabetical order by the first author’s last name. If a single author has multiple publications, list them chronologically by date of publication. If two publications appear in the same year, use (Tinker 1988a) and (Tinker 1988b). Please check with your committee and style manual for specific requirements.

An example of a basic outline for most references cited is: author(s), publication year, title, publication, volume, and page numbers. Ultimately you should use the reference format of your discipline (check formats of journals that fit your thesis topic).

There are usually more mistakes in the Literature Cited section than in any other section of most theses. Proofread this section carefully. Check every citation against the original article for accuracy.

References cited in the body of the thesis must be cited in the Literature Cited. Likewise, every reference cited in the Literature Cited must be used in the body of the text.

Cite references in the text using Name and Year (e.g., Smith 2008). When multiple references are cited (e.g., Tinker 1988, Evers 2001, Chance 2012) list them in chronological order. If Tinker published two papers in 1988, they may be cited as (Tinker 1988a) and (Tinker 1988b).

When a paper has three or more authors, it should be cited in the body of the thesis as Cobb et al. 2013. Note that “et al.” stands for “et alia,” which is Latin for “and others.” The et is not abbreviated, so it is not followed by a period. The al. is abbreviated so it is followed by a period. All authors must be listed in the Literature Cited.

You may substitute “in press” for the year if the paper has been accepted for publication, but volume and page numbers are not yet available.

Personal communications must be cited in the text, but do not need to be cited in your References/Literature Cited list. An in-text citation of a personal communication should be the person’s first initial, followed by their last name, pers. comm., and the year in which the communication was made (e.g., J. Smith, pers. comm., 2014).

# APPENDICES

Appendix : Instructions for Appendices

Appendices are used to include material too detailed or lengthy for inclusion in the body of the study (e.g., questionnaires, maps, photos, and letters of permission). If your document has one appendix, the heading should read “APPENDIX” and you do not need a List of Appendices page. If there are two or more appendices, the heading should read “APPENDICES” followed by alphabetically labeled captions (Appendix A, Appendix B, etc.) in the order they are referenced in your document. To do this, select Insert a Caption through the Reference tab and select the “Appendix” label. Once you’ve labelled all Appendices (Appendix A, Appendix B, etc.), you will be able to automatically update the List of Appendices in the preliminary pages of this template. Instructions for inserting captions and creating a linked list of appendices are available on the [Thesis Canvas Course](https://canvas.humboldt.edu/enroll/JLG3CM) section on [Appendices](https://canvas.humboldt.edu/courses/13836/pages/appendices?module_item_id=249919).

Tables and figures in the appendix may be placed horizontally or vertically on the page. If the table/figure is aligned vertically, the caption must be aligned vertically.

Appendix : Number of arthropods -100 leaves (mean ± standard deviation, n = 28 saplings per treatment and census combination) on black cottonwood saplings at Mono Lake, California, 2010.

| Arthropod group | Control 1 | Exclosure 1 | Control 2 | Exclosure 2 | Control 3 | Exclosure 3 | Control 4 | Exclosure 4 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Neuroptera | 0.001±0.006 | 0 | 0.002±0.009 | 0.004±0.013 | 0.016±0.041 | 0.007±0.017 | 0.005±0.020 | 0.002±0.010 |
| Hymenoptera | 0.26±0.43 | 0.68±1.67 | 0.24±0.29 | 0.37±0.55 | 0.73±1.74 | 0.53±0.81 | 1.76±6.63 | 1.22±2.10 |
| Sawfly Larvae | 0.004±0.015 | 0 | 0 | 0.01±0.04 | 0.03±0.10 | 0.03±0.06 | 0.03±0.05 | 0.01±0.04 |
| Sawfly Adult | 0 | 0.003±0.015 | 0.01±0.03 | 0 | 0.02±0.07 | 0.001±0.004 | 0 | 0.004±0.017 |
| Formicidae | 0.26±0.43 | 0.68±1.67 | 0.23±0.29 | 0.36±0.56 | 0.68±1.73 | 0.49±0.82 | 1.73±6.63 | 1.14±2.08 |
| Trichoptera | 0 | 0 | 0 | 0 | 0.003±0.018 | 0 | 0 | 0 |
| Lepidoptera Larvae | 0.01±0.05 | 0.01±0.02 | 0.01±0.03 | 0.03±0.08 | 0.07±0.19 | 0.25±0.81 | 0.03±0.04 | 0.03±0.04 |
| Lepidoptera Adult | 0.003±0.015 | 0 | 0.002±0.007 | 0.004±0.022 | 0.02±0.05 | 0.01±0.04 | 0.003±0.010 | 0.004±0.013 |
| Mecoptera | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.001±0.005 |
| Diptera | 0.15±0.15 | 0.14±0.14 | 0.22±0.33 | 0.18±0.20 | 0.29±0.35 | 0.15±0.17 | 0.30±0.30 | 0.36±0.36 |
| Orderunknown | 0 | 0 | 0.004±0.020 | 0.01±0.04 | 0 | 0 | 0 | 0.01±0.02 |
| Herbivores | 4.15±4.58 | 4.79±4.60 | 7.91±18.05 | 7.70±17.13 | 31.70±89.61 | 20.05±55.06 | 26.03±123.36 | 18.49±37.72 |
| Detritivores | 5.15±4.51 | 4.79±4.60 | 6.91±11.05 | 21.70±17.00 | 22.16±44.32 | 15.63±11.30 | 16.44±29.94 | 11.83±13.30 |
| Plecoptera | 0.001±0.006 | 0 | 0.002±0.009 | 0.004±0.013 | 0.016±0.041 | 0.007±0.017 | 0.005±0.020 | 0.002±0.010 |