

# Common Plants of INL

Third Edition



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# This book belongs to:

**Name:** \_\_\_\_\_

**Contact:** \_\_\_\_\_



## Credits

Graphic design by Dallas M. McCary.

Line drawings by Jackie R. Hafla.

Featured plant photographs by Kristin N. Kaser.

A sincere thank you to the Natural Resources Group for their advice that kept this guidebook focused on practical field use by a variety of non-technical users.

Although this third edition represents a substantial revision to previous editions, the previous editions established the value of a site-specific guide that translates botanical taxonomic information into a plant identification resource that can be used to facilitate undergraduate training in ecological monitoring at the INL Site. We thank the interns who have used earlier editions of this guidebook and provided valuable feedback for the improvements in the current edition.



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PHOTO BY NINA KECK



## How to Use This Book

Although we sincerely hope this field guide will appeal to a broad audience, the authors specifically designed it to support ecological monitoring on the INL (Idaho National Laboratory) Site. Because it is used to facilitate site-specific monitoring, it is organized differently from traditional field guides. Plant species are organized into functional groups based on their physical growth form. The primary functional groups are forbs, graminoids, shrubs, and trees. Within each functional group, species are listed alphabetically by a unique INL plant code. Species are identified by matching the identifying characteristics and associated photographs from a species description page to the plant observed in the field. Each plant description page notes whether the species is native (N) or introduced (I) and whether it is an annual (A), biennial (B), or perennial (P). Nativity and duration are indicated in parentheses at the top of each species description page. A red corner label on the species description page designates the species as noxious within the State of Idaho. Plants are identified as important pollinator species with a bee symbol in the top banner near the INL plant code (pollinators defined using USDA NRCS 2011).

There are three indices in the back of the field guidebook to assist users who are familiar with either the common name or family in finding the INL plant code. Each index will provide the INL plant code and corresponding page number(s).

Nomenclature follows the USDA Plants Database (2023). Identification, taxonomy, and synonyms follow *Flora of the Pacific Northwest* (Hitchcock and Cronquist 2018) and the online *Flora of North America* Editorial Committee, eds. (1993+).





## What are INL Plant Codes?

Assigning unique codes to each species is a common approach for expediting vegetation sampling and the INL plant codes used throughout this guide ensure consistency among INL-specific datasets. INL plant codes are typically derived from the first two letters of the genus and the first two letters of the specific epithet. For example, *Artemisia tridentata* is assigned ARTR. When two species share the same code, at least one of the species is assigned a number. For example, *Ericameria nauseosa* is assigned the code ERNA and *Ericameria nana* is assigned the code ERNA2. Although the codes used in this book generally follow national codes assigned by the USDA Plants National Database, the number at the end of the code is specific to the INL and is related to the abundance of that species. There are a few INL plant codes that do not follow this convention but have been retained to maintain consistency with existing long-term datasets. For example, *Artemisia tripartita* was assigned the INL plant code ARTP instead of ARTR, followed by a number.

This field guidebook is the third edition of a living document that will continue to change as its utility is assessed and tested through use in the field. For the most current version of this document and for additional INL ecological resources see <https://inl.gov/natural-resources/>.

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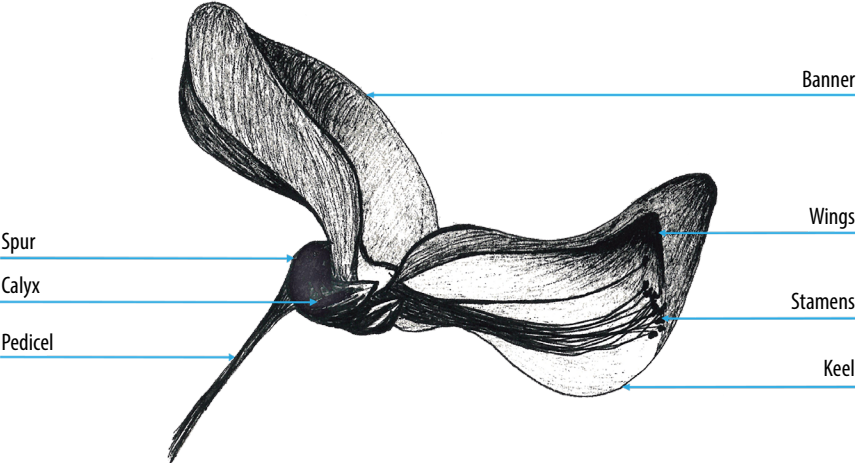
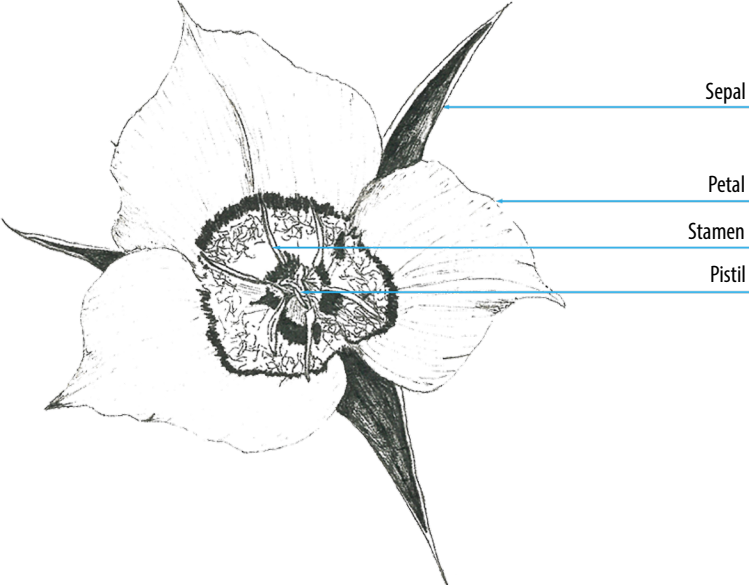
A close-up photograph of several blue Anderson's larkspur flowers. The flowers have five petals each, with a darker blue or purple center. The stems are thin and green. The background is a soft, out-of-focus greyish-blue.

# Terminology

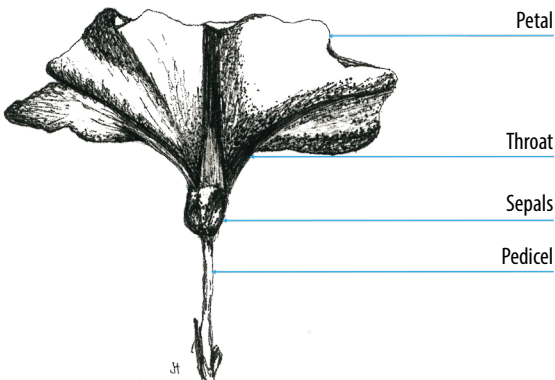
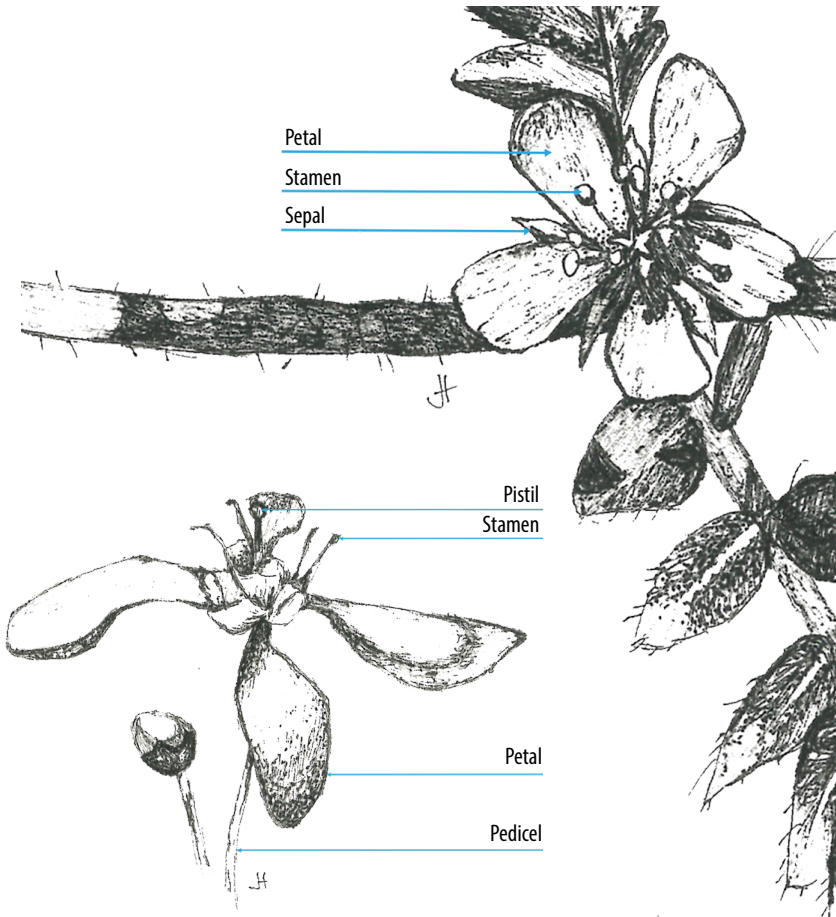
Anderson's larkspur | *Delphinium andersonii*

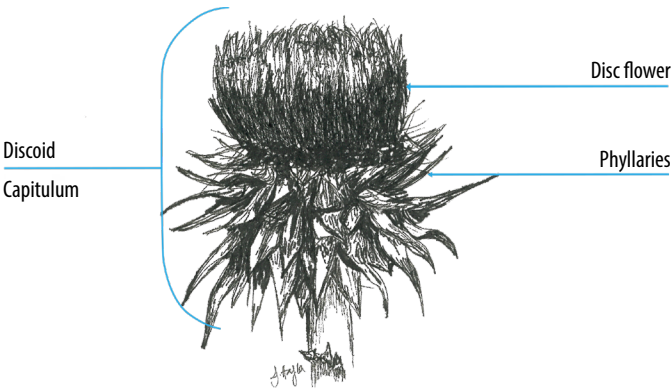
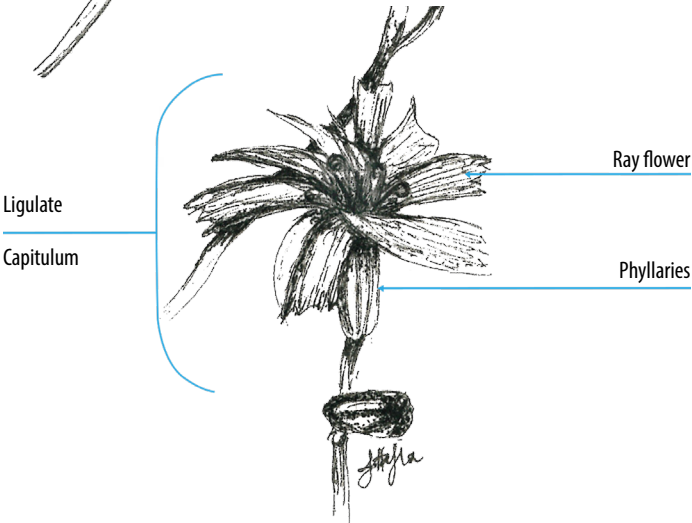
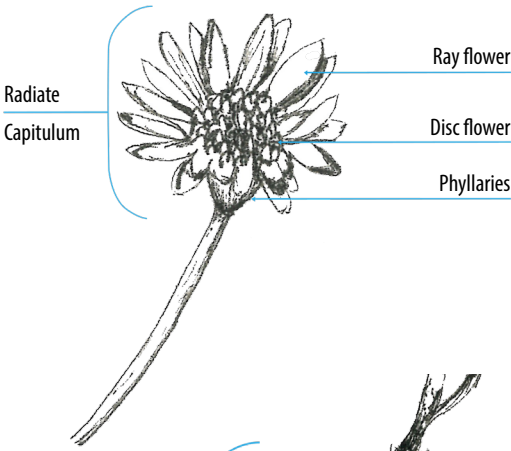
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# Flower Anatomy











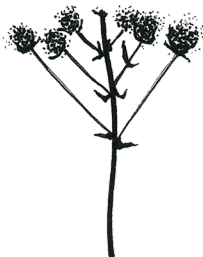
# Flower Arrangements



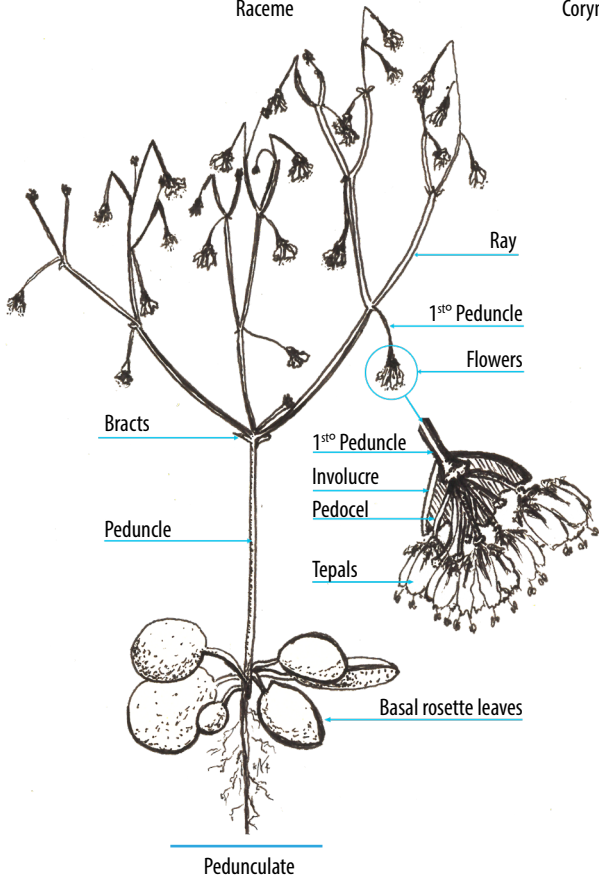
Spike



Raceme



Corymb





Panicle



Umbel



Cyme



Helicoid Cyme



Spike



Corymb



Panicle

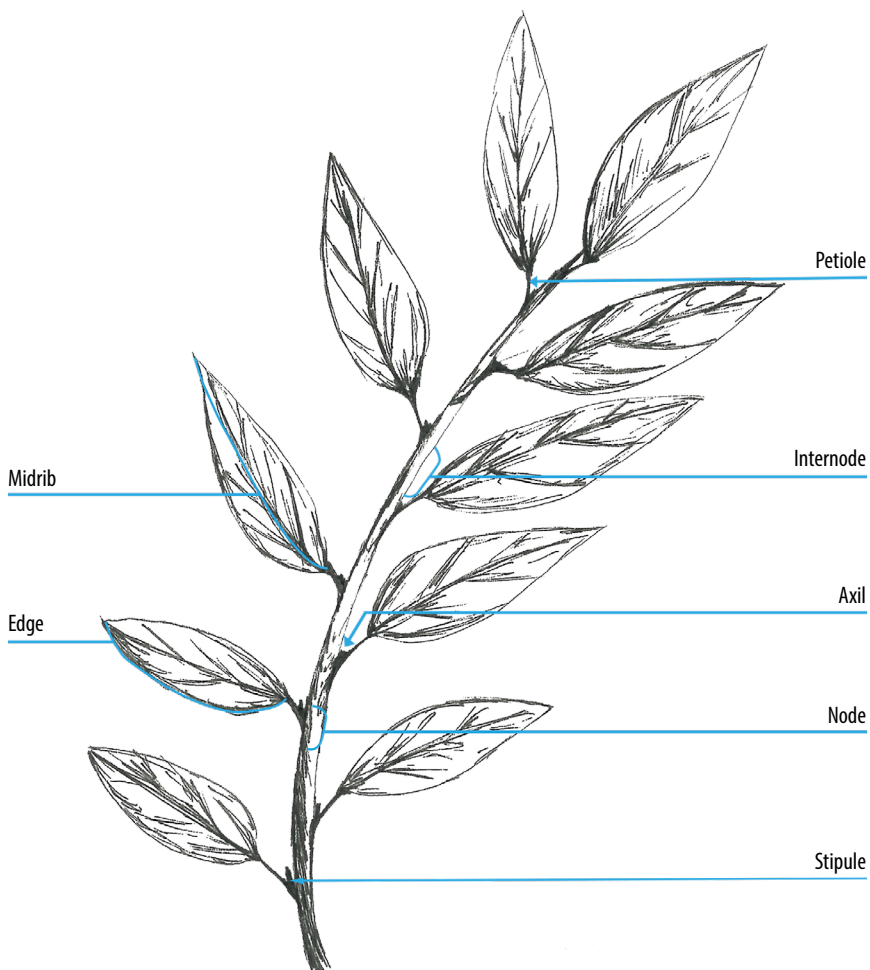


Cyme



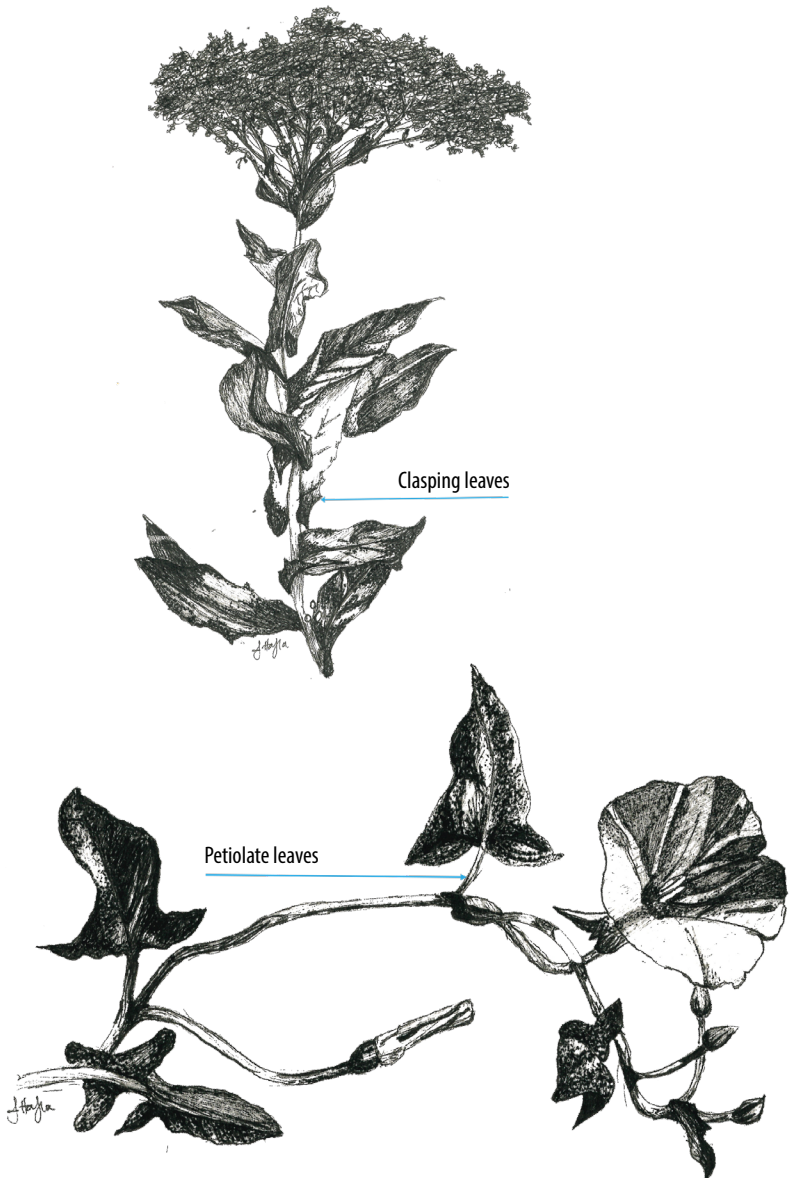
Solitary

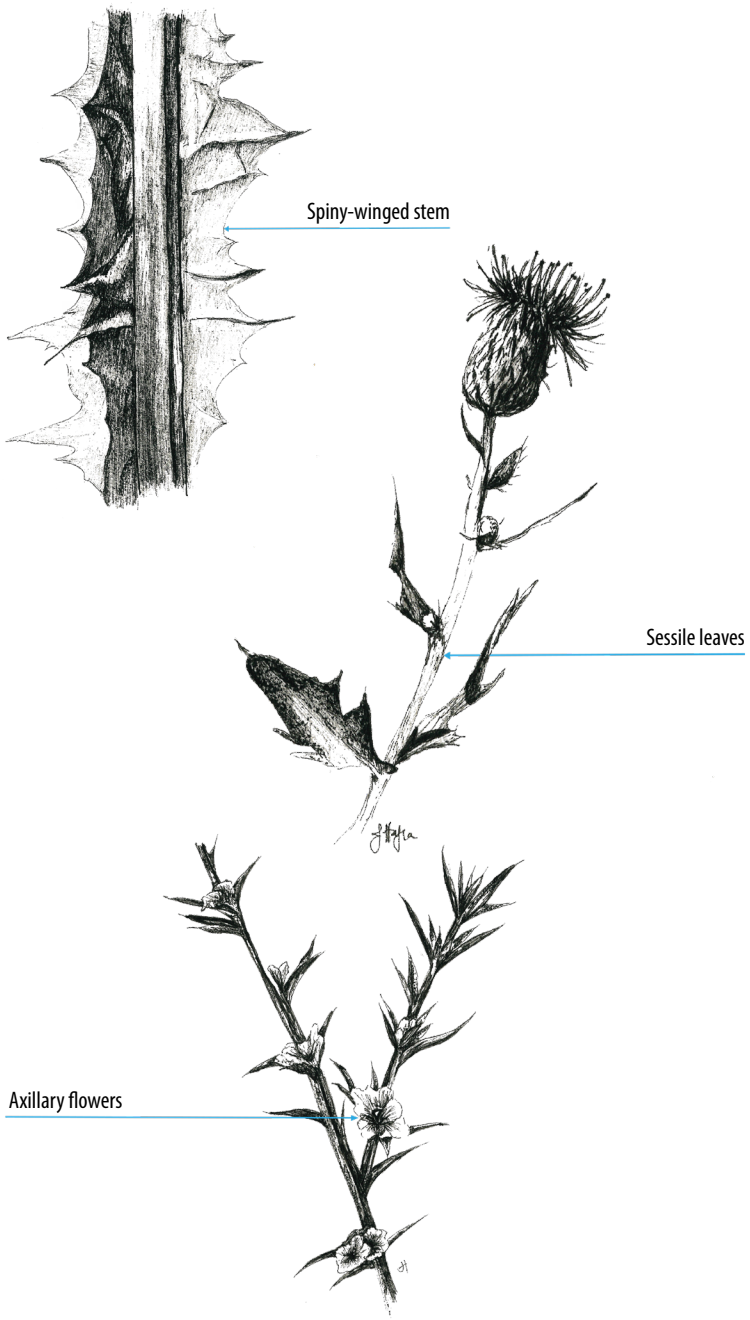
# Leaf Anatomy



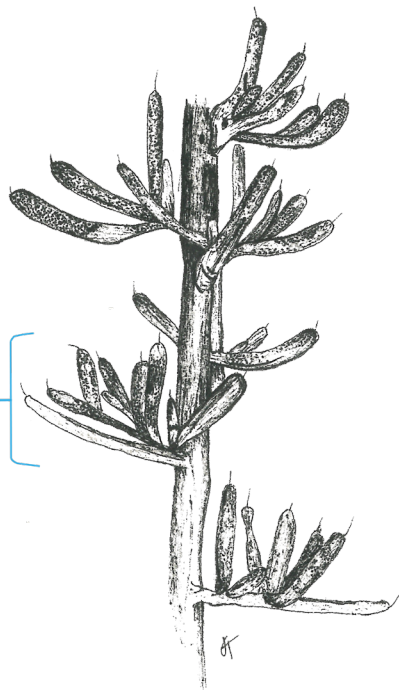


# Structural Attachment Types





Fascicle leaves



Basal rosette leaves



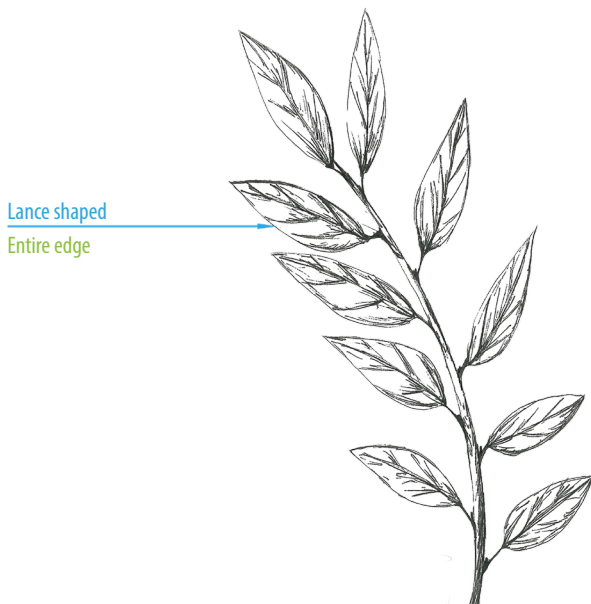


# Leaf Architecture

## Legend

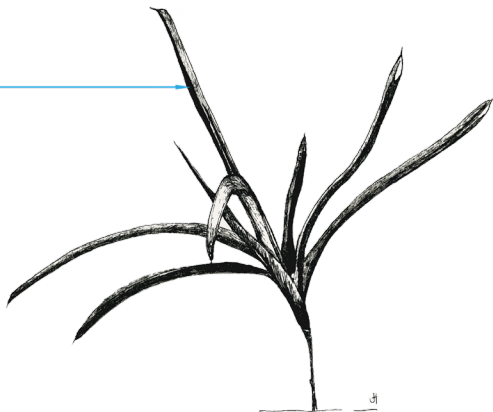
Leaf Shape

Leaf Edge Type



Linear

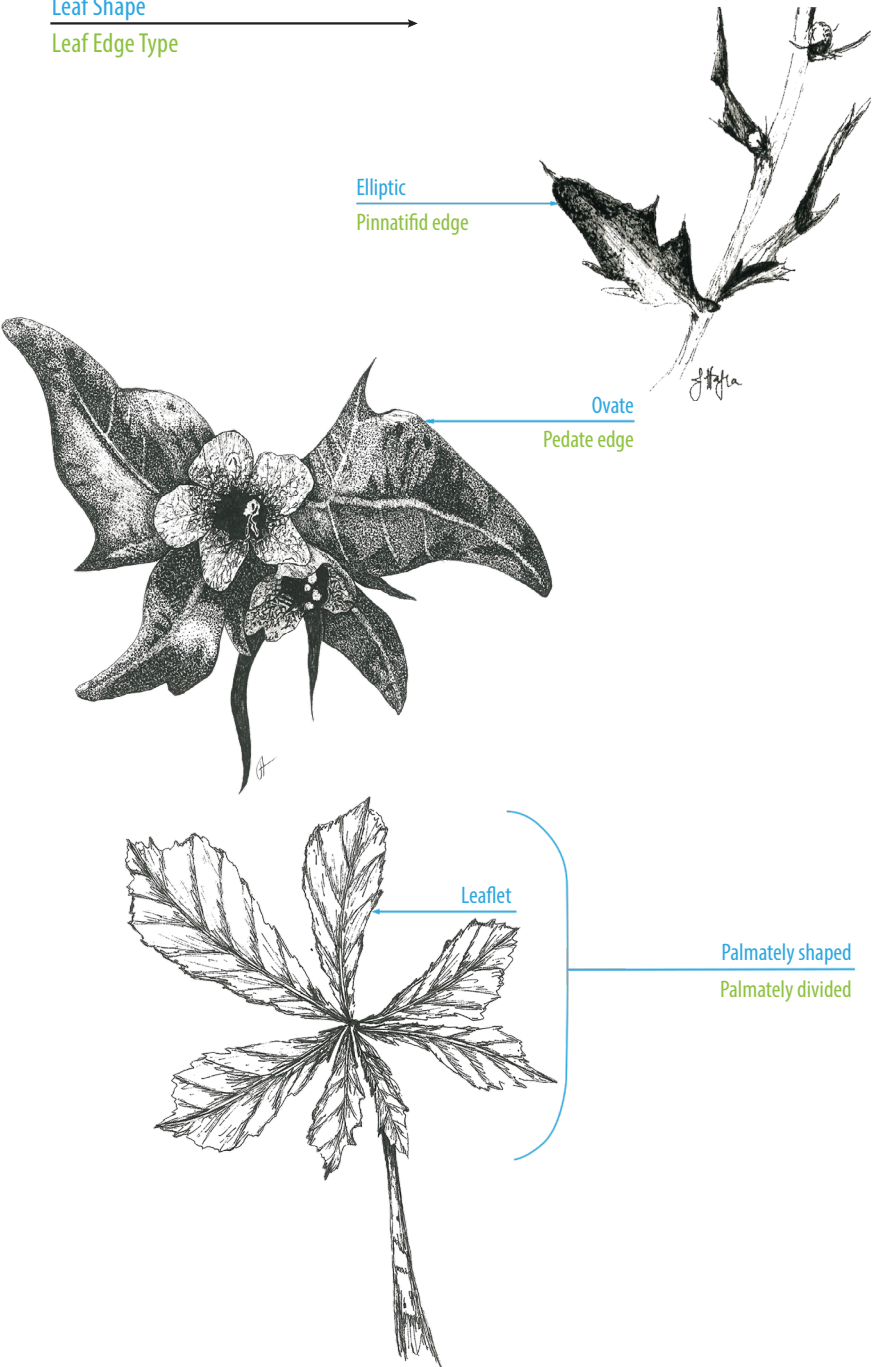
Entire edge



Legend

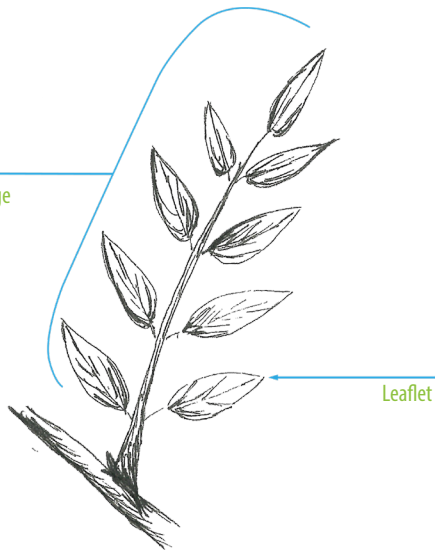
Leaf Shape

Leaf Edge Type



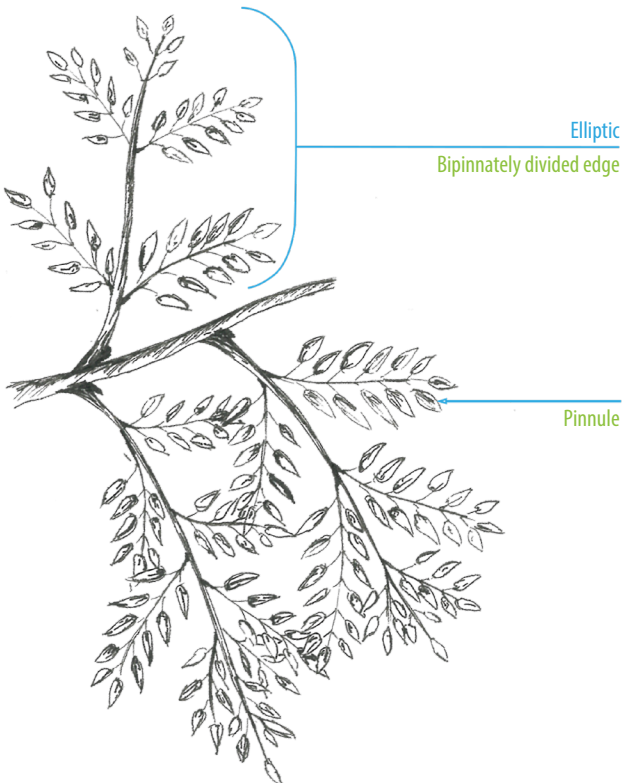
Lance shaped

Pinnately divided edge



Elliptic

Bipinnately divided edge



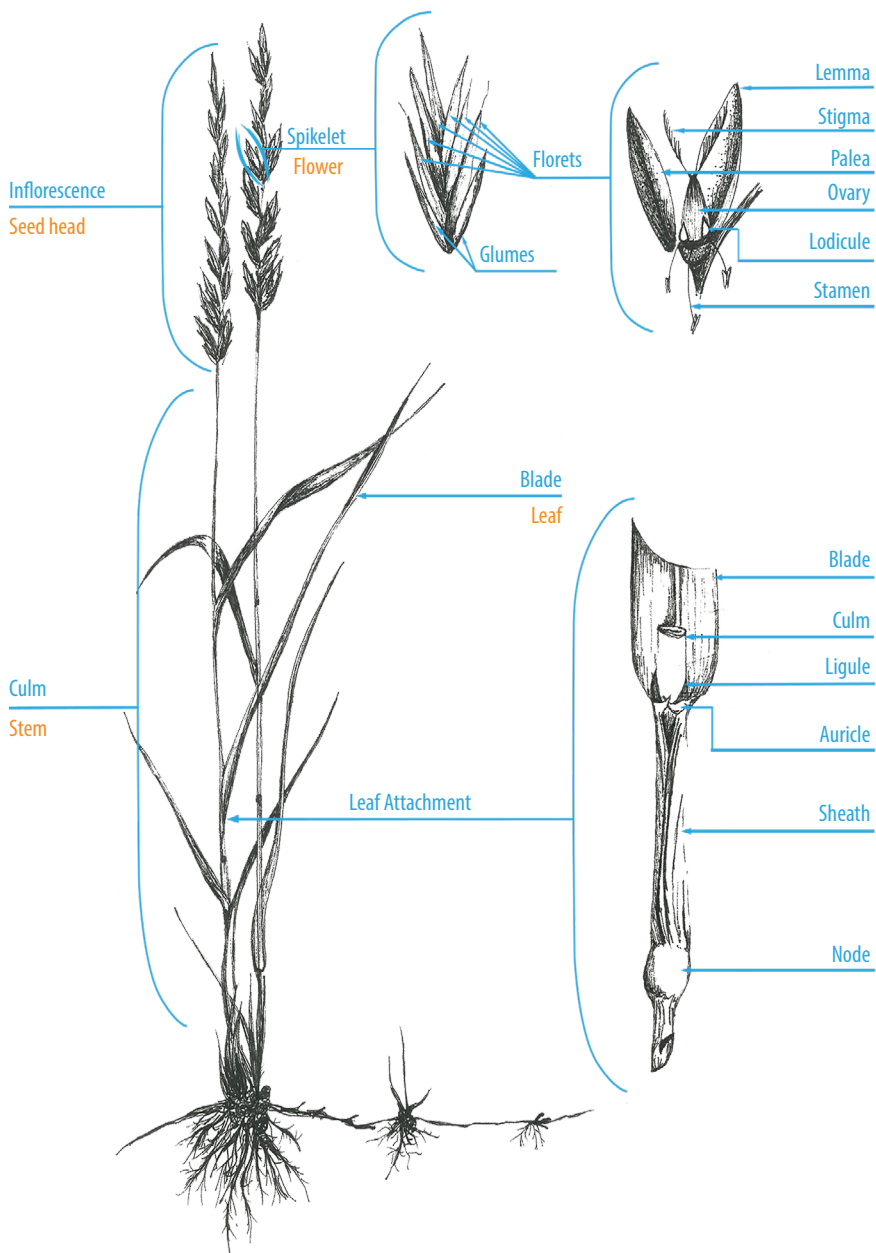


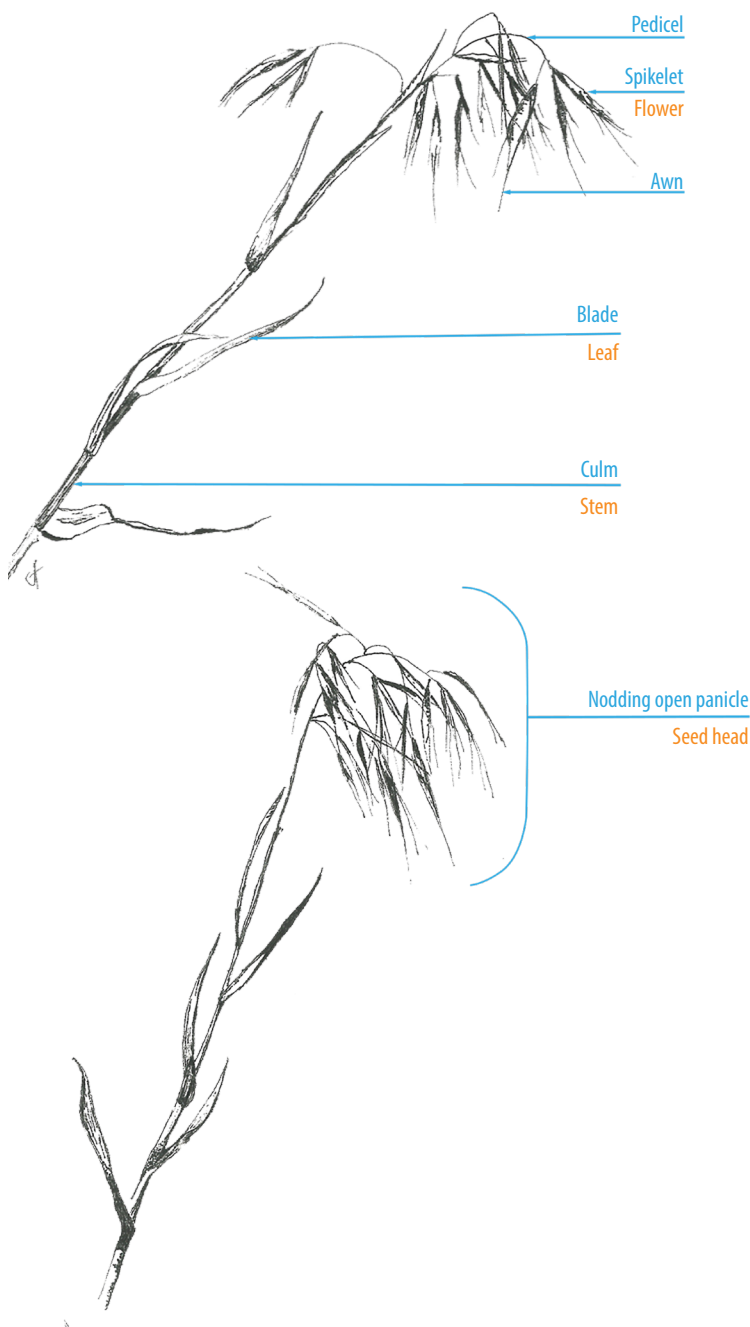
# Grass Anatomy

Legend

Technical Term

Common Term





# Fruits

