

**Field Botany Lab 1 (Maximum 10 Pts)**  
**The Great Vegetative Character State Hunt**

**Collection phase:**

Decide on a Latinized team name and write it and the names of your team members in the appropriate spaces in the Collection Table.

Collect as many example specimens as possible exhibiting the vegetative character states listed in the table below within the specified time limit and specified spatial boundaries.

Using the Sharpies and/or tape provided, mark each example specimen with the number of the character state in the table below, and place it in the collection bag for evaluation.

Put an x in the box next to each of the character states that your team has collected.

Note that more than one character state might apply to any given sample, so be sure to mark each specimen with all the character states that are present.

You will find pages 5-10 and the glossary in Grimm's *The Illustrated Book of Trees* helpful in reminding you what each character state looks like.

**Evaluation phase:**

Obtain the collection bag of some other team.

Record your team's name and the names of your team members as well as the name of the team you are evaluating on the appropriate lines on the evaluation sheet.

Using the numbers marked on the collected specimen samples verify that the correct character states have been identified.

If the character state has been correctly identified, then indicate this with an x in the box next to that character state in the Evaluation Table.

If the character state has NOT been correctly identified, then leave the box blank next to that character state in the Evaluation Table.

**Grading:**

Top two teams = 10 pts  
Next two teams = 9 pts  
Bottom two teams = 8 pts

### Collection Table

Collection Team Name \_\_\_\_\_

Collecting Team Members _____ _____ _____ _____	Leaf Arrangement <input type="checkbox"/> 1. Alternate <input type="checkbox"/> 2. Opposite <input type="checkbox"/> 3. Whorled	Leaf Types Blade <3/16 inch wide <input type="checkbox"/> 4. Linear <input type="checkbox"/> 5. Needle-like <input type="checkbox"/> 6. Scale-like <input type="checkbox"/> 7. Awl-like
Leaf Types Blade >3/16 inch wide Compound <input type="checkbox"/> 8. Pinnately <input type="checkbox"/> 9. Palmately	Leaf Types Blade >3/16 inch wide Simple <input type="checkbox"/> 10. Pinnately Lobed <input type="checkbox"/> 11. Palmately Lobed <input type="checkbox"/> 12. Fan-shaped	Leaf Shape <input type="checkbox"/> 13. Linear <input type="checkbox"/> 14. Oval <input type="checkbox"/> 15. Oblong <input type="checkbox"/> 16. Ovate <input type="checkbox"/> 17. Obovate <input type="checkbox"/> 18. Elliptical <input type="checkbox"/> 19. Lance-shaped <input type="checkbox"/> 20. Deltoid (Triangular) <input type="checkbox"/> 21. Heart-shaped
Leaf Tips <input type="checkbox"/> 22. Narrowly pointed <input type="checkbox"/> 23. Broadly pointed <input type="checkbox"/> 24. Bristle-tipped <input type="checkbox"/> 25. Square (Truncate) <input type="checkbox"/> 26. Rounded	Leaf Margins <input type="checkbox"/> 27. Entire <input type="checkbox"/> 28. Undulate (Wavy) <input type="checkbox"/> 29. Finely serrate <input type="checkbox"/> 30. Coarsely serrate <input type="checkbox"/> 31. Doubly-toothed <input type="checkbox"/> 32. Incurved Teeth <input type="checkbox"/> 33. Bluntly Toothed <input type="checkbox"/> 34. Lobed	Leaf Bases <input type="checkbox"/> 35. Narrowly Wedge-shaped <input type="checkbox"/> 36. Broadly Wedge-shaped <input type="checkbox"/> 37. Rounded <input type="checkbox"/> 38. Heart-shaped <input type="checkbox"/> 39. Square <input type="checkbox"/> 40. Oblique

### Evaluation Table

Evaluation Team \_\_\_\_\_ assessment of  
 Team \_\_\_\_\_'s collection.

Evaluation Team Members _____ _____ _____ _____	<b>Leaf Arrangement</b> <input type="checkbox"/> 1. Alternate <input type="checkbox"/> 2. Opposite <input type="checkbox"/> 3. Whorled	<b>Leaf Types</b> Blade <3/16 inch wide <input type="checkbox"/> 4. Linear <input type="checkbox"/> 5. Needle-like <input type="checkbox"/> 6. Scale-like <input type="checkbox"/> 7. Awl-like
<b>Leaf Types</b> Blade >3/16 inch wide Compound <input type="checkbox"/> 8. Pinnately <input type="checkbox"/> 9. Palmately	<b>Leaf Types</b> Blade >3/16 inch wide Simple <input type="checkbox"/> 10. Pinnately Lobed <input type="checkbox"/> 11. Palmately Lobed <input type="checkbox"/> 12. Fan-shaped	<b>Leaf Shape</b> <input type="checkbox"/> 13. Linear <input type="checkbox"/> 14. Oval <input type="checkbox"/> 15. Oblong <input type="checkbox"/> 16. Ovate <input type="checkbox"/> 17. Obovate <input type="checkbox"/> 18. Elliptical <input type="checkbox"/> 19. Lance-shaped <input type="checkbox"/> 20. Deltoid (Triangular) <input type="checkbox"/> 21. Heart-shaped
<b>Leaf Tips</b> <input type="checkbox"/> 22. Narrowly pointed <input type="checkbox"/> 23. Broadly pointed <input type="checkbox"/> 24. Bristle-tipped <input type="checkbox"/> 25. Square (Truncate) <input type="checkbox"/> 26. Rounded	<b>Leaf Margins</b> <input type="checkbox"/> 27. Entire <input type="checkbox"/> 28. Undulate (Wavy) <input type="checkbox"/> 29. Finely serrate <input type="checkbox"/> 30. Coarsely serrate <input type="checkbox"/> 31. Doubly-toothed <input type="checkbox"/> 32. Incurved Teeth <input type="checkbox"/> 33. Bluntly Toothed <input type="checkbox"/> 34. Lobed	<b>Leaf Bases</b> <input type="checkbox"/> 35. Narrowly Wedge-shaped <input type="checkbox"/> 36. Broadly Wedge-shaped <input type="checkbox"/> 37. Rounded <input type="checkbox"/> 38. Heart-shaped <input type="checkbox"/> 39. Square <input type="checkbox"/> 40. Oblique

# The Great Vegetative Character State Hunt MAP

