***PRE-ASSIGN LEAVES FOR STUDENTS AT THE END OF LAB 3 FOR LAB 4.1 PRE-LAB***

**Laboratory Unit 4a-Spring Online – Ecological Methods: Field Sampling Techniques**

**Leaf Herbivory and Fungal Occurrence on Tree Species**

**Data Collection Handout**

**Methods:**

***Step 1:* Record your observations below:**

* Description of sampling location.
  + Insert pictures:
* Description of observations around the tree:
* Tree Identification (as specific as possible – genus and species):
* Origin
* Other observations: refer to provided images - <https://wordpress-projects.wolfware.ncsu.edu/bio-181l-zchxzbn/laboratory-units/unit-4-leaf-herbivory-examples>
* Insert pictures of and name the different types of leaf herbivory\* you observe on your tree:
* Insert pictures of the different types of fungal infection\*(s) you observe on your tree:

***Steps 2 & 3*: Record leaf surface area in the table at the end of this document** (Table 4.1-1)

Table 4.1-1-Spring. Calculations of approximate leaf surface area (SA)

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| --- | --- | --- | --- | --- | --- |
| Tree species: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Origin: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Native/Non-Native \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Location: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | |
| Leaf CODE & #  (ex. 2B-#1) | Overall Leaf  SA | Herbivory Damage Leaf SA | FUngal Damage Leaf SA | Percent  Leaf Damage | Type(s) of Herbivory PRESENT |
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| Total/SUM |  |  |  |  |  |
| Ave. /10 leaves |  |  |  |  |  |

Additional Notes: