

Fruit & Vegetable Marketplace Assignment (20 pts)

Help launch Millersville University's *Atlas of Fruit & Vegetable Produce* by scouring the produce markets and applying your skills in morphology and terminology to the fruits and vegetables found there. Help document the wonderful diversity of fruits and vegetables present in our region. In the process, force yourself to apply what you've learned. Due by Wednesday, May 9 at 5 pm. 10% off for every day late.

A. Procedural Overview

1. Visit a produce market and photograph and record observations of fruits and/or vegetables of 4 different species.
2. You may not team up with a friend to enter the same species. If you visit a store together, then you must enter separate species of produce.
3. Visit the atlas (www.natureatlas.org/plants/produce/) on a laptop or desktop computer. Not a phone.
4. Register a new account under your First M. Lastname and then login using that name.
5. Have your camera plugged into the computer so that you can load your photos upon entry.
6. At the Atlas, zoom and pan the map to where you found your produce.
7. Click the locale with your mouse to add your record to within 2-10 meters of where you found the produce.
8. Enter ALL data requested in the entry box that pops up upon clicking the map (3 pts):
 - a. Contributor Name (your First M. Lastname)
 - b. Observed On (the date you observed it)
 - c. Species Binomial (find the two-part scientific name for the species using a source from the literature or Wikipedia. Following the first lab's rules for writing scientific names of species).
 - d. Common Name: record the name of that produce item at that location.
 - e. Description: Describe the parts of the produce using the proper vegetable modification terms (e.g. tuber, rhizome, etc.) or fruit terms (e.g. multiple of berries) learned in the lab manual.
 - f. List the family scientific and, in parentheses, the family common name as follows: e.g. one of the examples is avocado, which is in the "Lauraceae (laurel family)". This information is generally available from Wikipedia or the Encyclopedia of Life.
 - g. Locality precision (should be within 2-10 meters)
 - h. State, County, and Municipality (e.g. town, township or city name) are self-explanatory.
 - i. Locale Description should provide 1) the name of the market or store and 2) the street address of the location.

Note: if you misplace the marker, you can edit the location and any other data (including the photo) using the edit function as explained in the Atlas user manual (<http://www.natureatlas.org/all/manual/#edit>).

9. Photo Entry (2 pts):
 - a. must be your own of a specimen at the reported locale,
 - b. must be in focus,
 - c. the plant specimen must be the focus of the photograph and be of reasonable resolution,
 - d. must be well-lit,
 - e. must be right-side-up,
 - f. must include a ruler or other scale tool,
 - g. must not include images that would enable viewers to identify persons in the photograph (unless that person is you).
10. Click the submit button. Your record is now submitted.
11. I've loaded two examples for the pumpkin and avocado in the atlas. Inspect those for help. See the user manual (linked to from the navigation bar) or me for help on using the Atlas.
12. All four records must be entered by Wednesday, May 9 at 5 pm. You are not required to hand in a hard copy of anything. Each record is worth 5 pts for a total of 20 pts.