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# < EXERCISE X

# Insert Exercise Name Here >



Introduction

Valuable information can be obtained from aerial and satellite imagery. A common method for collecting information from imagery is to manually trace discrete features seen in the imagery by using GIS software and computer input devices (e.g., system mouse, interactive pen display, drawing tablet). While mapping features, it is important to remember the seven characteristics of image interpretation (i.e., tone/color, shape, size, association, shadow, pattern, and texture) and how they relate to the features being mapped. In this exercise, we will be using ArcMap and imagery from the National Agriculture Imagery Program (NAIP) to heads-up digitize damaged stands of trees in the Fishlake National Forest, which is located in central Utah.

Objectives

* List out
* What you want
* People to learn

Required Data:

* **Dataset.shp** – shapefile representing X to do Y and Z

Prerequisites

* **Install X software and have basic understanding of how to use the software.**
* **Whatever else people need to have / know.** Feel free to expand on why they need to know it or where they can find more info.

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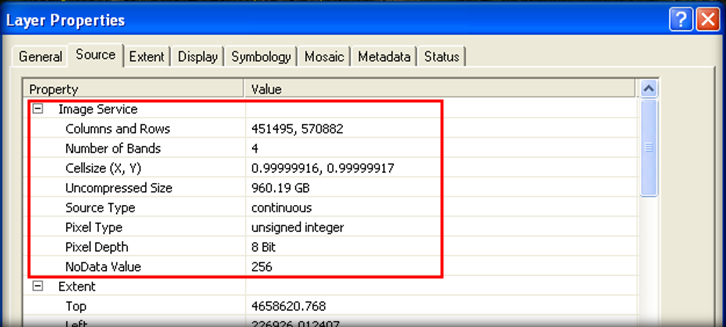
1. Set up ArcMap

This project is where you can optionally describe what will be covered in Part 1.

* 1. Open ArcMap
     1. Click on the Start Menu,
  2. Load the AOI
     1. Step 1
     2. Step 2
     3. Step 3
     4. Click the **Start Menu**, select open the **ArcGIS folder**, and then click on **ArcMap 10.7.1** to launch the software.

**Note**: If you are not connected to the Forest Service network and are using the Utah\_NAIP\_2011.tif instead, click the Add Data button and navigate to where you downloaded the exercise material. After you add the reference image to ArcMap, move forward to step 5.

#### Step 5



1. Do something
   1. Create a new shapefile
      1. Open the ArcToolbox (see following figure).

Graphic of toolbox button in ArcMap

**Note**: It is important that the projection information (especially the datum) is the same for the reference image and shapefile. To learn more about datums, visit [NOAA’s datums tutorial](http://coast.noaa.gov/digitalcoast/training/datums).

* 1. Do something else
     1. Click a thing and run a process

1. Save your work
   1. Wrap up for the day
      1. Save
      2. Close
      3. Go home

**Congratulations!** You have successfully completed this exercise. You now know the very basics of heads-up digitizing within ArcMap. Hopefully you also had a chance to build upon your image interpretation skills. If you want to learn more about editing features, refer to Appendix A and the ArcMap help documentation.