



Loading Data from ArcMap to DNR Garmin

Abstract

This guide outlines the steps to upload points from a shapefile or graphic in ArcMap to DNR Garmin. When loading data, only the points that compose the data are uploaded. Please refer to the appropriate GPS model guide for information on loading data to DNR Garmin from a GPS unit.

Note: This guide is for data outside of the Toolkit environment. If you need to upload data points from a [Toolkit Plan Layer](#) or [Toolkit Practice Layer](#), please refer to the task guide *Transferring Toolkit Data into DNR Garmin*.

Steps (ArcMap Layer): In ArcMap select features from a layer – Highlight the name of the layer – In DNR Garmin, Click File > Load From – Select ArcMap – Select Layer

Steps (ArcMap Graphic): In ArcMap select graphics – In DNR Garmin, Click File > Load From – Select ArcMap – Select Graphic

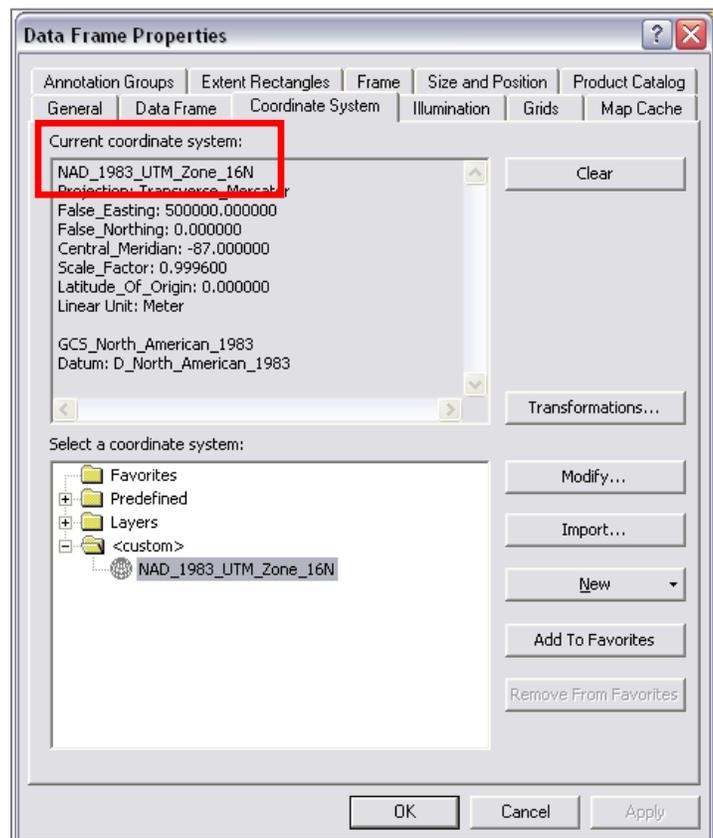
Details

Loading Data from an ArcMap Graphic

Graphics are handy for quick or rough sketches. They are not intended to replace editing and preserving shapefiles. If you need to save your work permanently, working with shapefiles is recommended.

1. In DNR Garmin, **click File > Get Projection**. Take note of the projection and **click OK**.
2. In ArcMap, **click View > Data Frame Properties**. **Click the Coordinate System** tab. Take note of the current data frame's coordinate system.
3. Compare the projections/coordinate systems from step #1 and #2. They must be the same for graphics to transfer the correct coordinates to DNR Garmin. For most users, both DNR Garmin and ArcMap should be using NAD 1983, UTM Zone 16 North. In some cases, particularly for non-Toolkit users, another common projection is NAD83 (feet) Indiana State Plane East or West.
4. If the coordinate systems do not match, then adjust the setting in DNR Garmin to match ArcMap.

Note: If you are unsure of how to make these settings, contact your RMS or the State GIS Specialist for assistance.



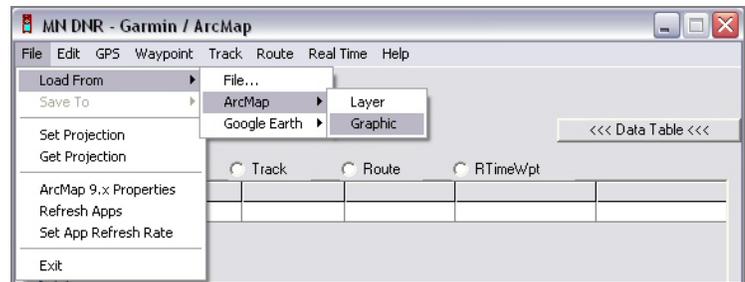


5. If necessary, **draw** the graphic(s) in ArcMap. The graphic(s) can be point, line, or polygon. The uploaded data will consist of vertex points composing the shape of the line or polygon features.

6. Use the **Select Elements** tool to **select** a graphic in ArcMap. You may select multiple graphics by using the **Shift** key on your keyboard, and **left-clicking** once on each desired graphic. The coordinates will load to DNR Garmin in the order you select the graphics.



7. In DNR Garmin, with the graphic(s) still selected in ArcMap, **left-click** *File > Load From > ArcMap > Graphic*.



8. The data points that define the graphic(s) will be loaded into the DNR Garmin software.

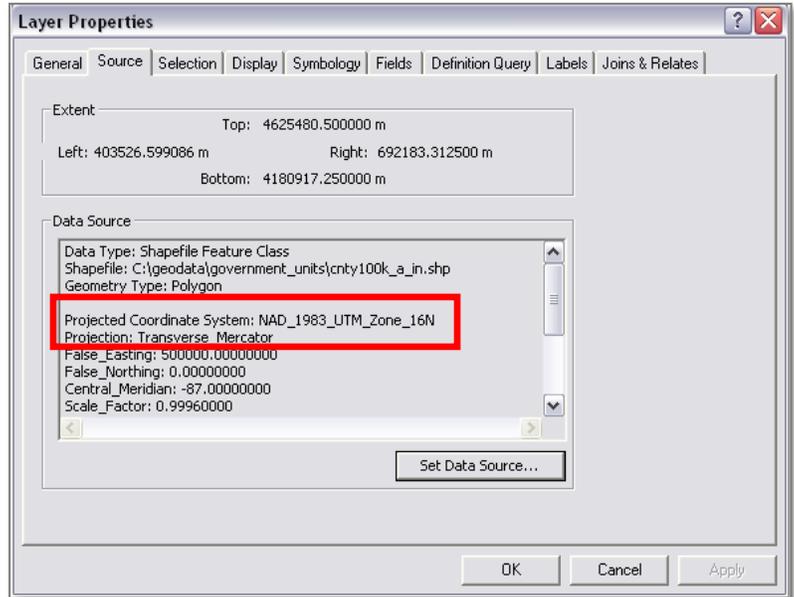
9. Review the latitude and longitude coordinates in the DNR Garmin table. Valid coordinates within Indiana should fall between 37 to 42 degrees north (latitude) and 84 to 88 degrees west (longitude). If they are not correct, contact your RMS or the State GIS Specialist for assistance.



Loading Data From An ArcMap Layer

Note: Layer refers to a point, line, or polygon shapefile.

1. In DNR Garmin, **click** *File > Get Projection*. Take note of the projection and **click** *OK*.
2. In ArcMap, **double-click** the shapefile name in the *Table of Contents*.
3. Go to the *Source* tab. In the lower half of the *Source* tab, take note of the projection the shapefile uses which is listed by, "Projected Coordinate System."
4. The projection used by the shapefile containing your desired features must match the projection set in DNR Garmin. If the projections do not match, then change the setting in DNR Garmin to match the projection of the shapefile.

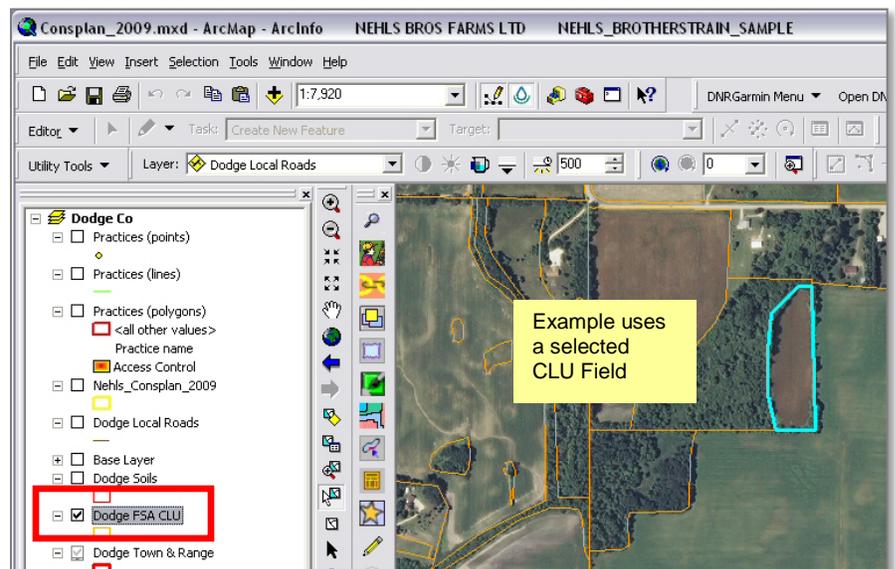


Note: If you are unsure of how to make these settings, contact your RMS or the State GIS Specialist for assistance.

5. To load only specific features from a layer, **select** the features to be uploaded using the **Select Features** tool. Pay attention to *selectable layers* when doing so to get only the desired features. If you want all features from a layer, then feature selection is not necessary. Do not transfer an entire layer for large resource layers such as the county's entire CLU or Soil Survey. Large layers such as these will crash out on transfer.



6. **Left-click** once on the name of the layer in the ArcMap *Table of Contents* to highlight the layer's name and leave it highlighted.





7. In DNR Garmin, **left-click** *File > Load From > ArcMap > Layer*.
8. The data points from the layer will now be loaded in the DNR Garmin software.



9. Review the latitude and longitude coordinates in the DNR Garmin table. Valid coordinates within Indiana should fall between 37 to 42 degrees north (latitude) and 84 to 88 degrees west (longitude). If they are not correct, contact your RMS or the State GIS Specialist for assistance.