United States Department of Agriculture
Natural Resources Conservation Service

Kansas
Resource Conservation Staff

Toolkit
Task Guide #52
Repair Geometry Tool

May 2, 2013

Abstract

Due to changes in the ArcGIS data format specifications, several issues may occur when working in ArcGIS 10.0 with Planned Land Units (PLUs) or practice polygons that were created in an earlier version of ArcGIS or copied from another dataset. Incorrect feature geometry may result in the following issues:

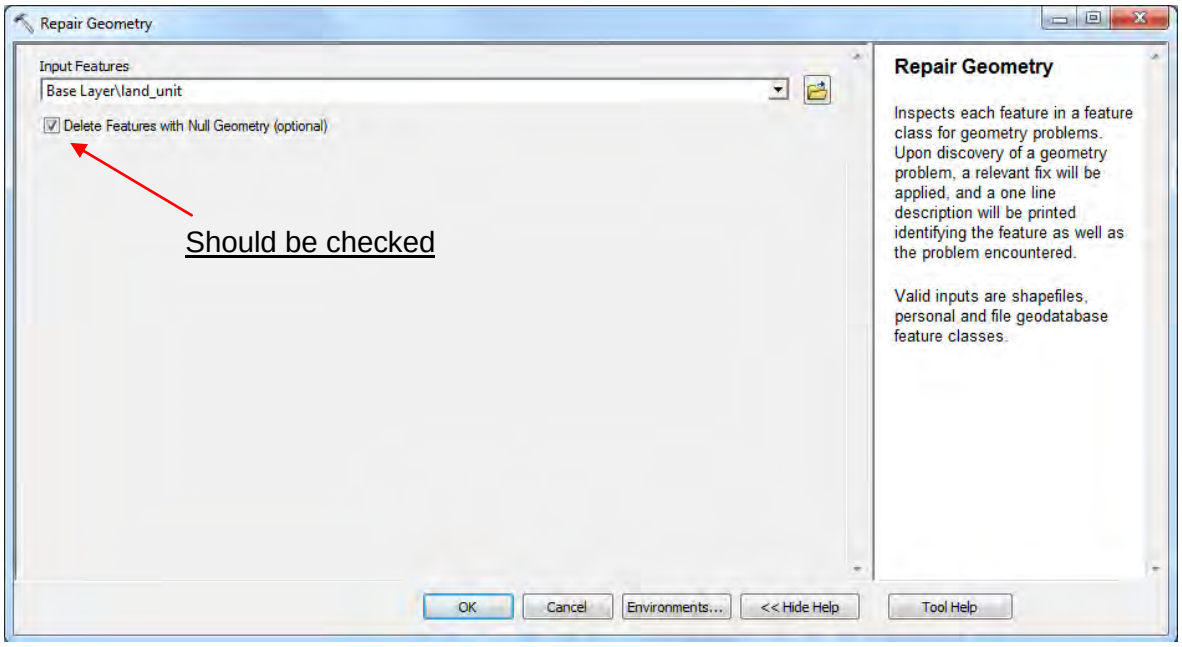
- Customer Service Toolkit (Toolkit) Map Labels Tool appears to create annotation layer, but nothing is displayed.
- Soils Map and Inventory Tool output is incorrect (map and report) when intersected with PLUs.
- Toolkit Attribute Tool displays incorrect tract and land unit number for practice layer.
- When using conservation practices or range style sheets, map displays correctly on screen, but when printed or viewed in print preview, the fill areas are actually shown outside of the practice areas.
- Unexpected results occur when editing or displaying layers.

If you are experiencing any of the above issues, run the Repair Geometry Tool on the Base Layer to resolve the problem. This will correct geometry in all PLUs or practice polygons for every customer you have checked out at the time the tool is used.

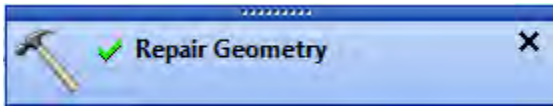
Instructions

1. Click **Repair Geometry** on the Kansas Toolbar.
Repair Geometry can also be accessed from ArcToolbox under Data Management Tools > Features.

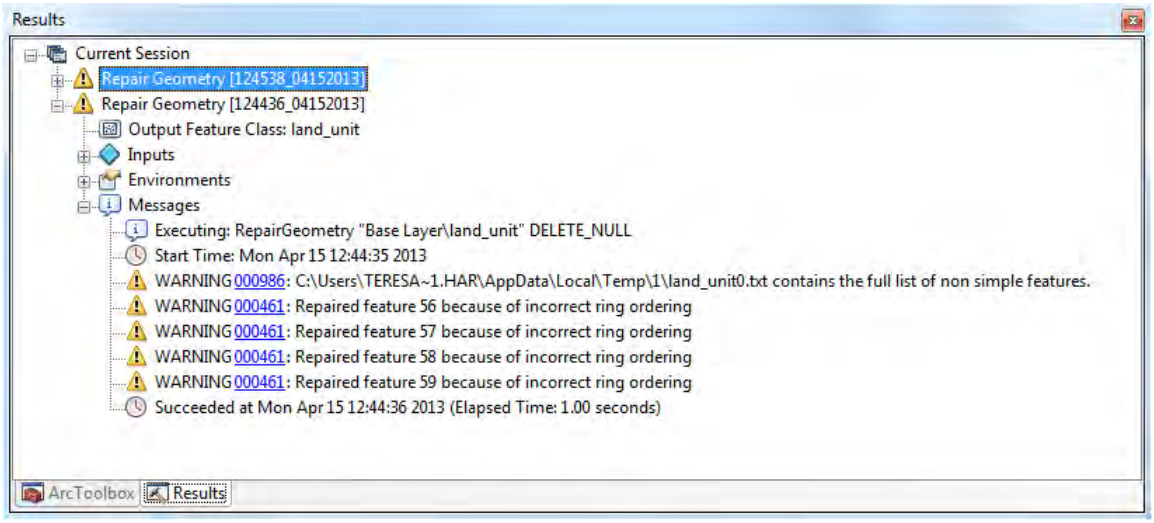
2. Use the Input Features drop-down menu to select **Base Layer\land_unit**. Leave the option for **Delete Features with Null Geometry** checked. Click **OK** to run the tool.



3. Be patient. The tool may take a minute to run and it may not be obvious that it is processing. When finished, the following message will appear at the lower right corner of the screen. You may click on the message to view results.



Typical geometry repairs will be null features or incorrect ring ordering in the input feature class.



4. For display issues with the practice polygons, repeat the above steps, selecting **Base Layer\practice_instance_polygon** as the Input Features in step 2.