Optimized Pit Removal V1.5.1 Installation Guide
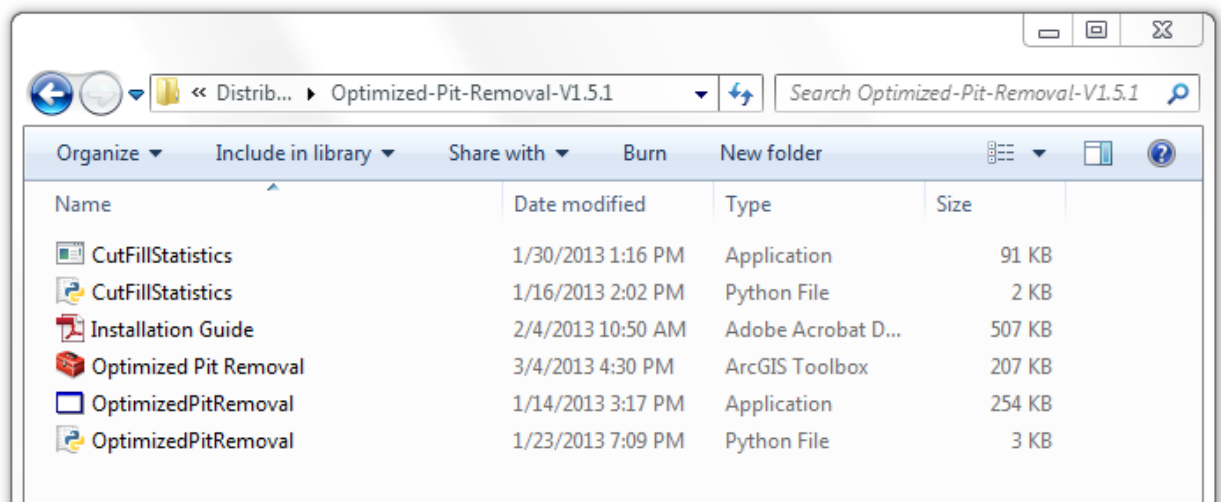
Overview

The Optimized Pit Removal V1.5.1 package consists of four tools:

- Optimized Pit Removal: An ArcGIS tool which removes all pits (or sinks) from an ASCII Digital Elevation Model (DEM) while minimizing the overall changes to the terrain.
- Optimized Pit Removal (Raster): An ArcGIS model which runs the Optimized Pit Removal tool while automating ASCII/Raster conversions.
- Cut Fill Statistics: An ArcGIS tool which compares two ASCII DEMs of the same extent.
- Stream Delineation: An ArcGIS model which takes the output from a pit or sink removal DEM and delineates streams as well as comparisons with the original DEM.

The tool is available to download for free from the Center for Research in Water Resources (http://tools.crwr.utexas.edu/).

Step 1: Copy the following files to your computer into a single folder.

- Optimized Pit Removal.tbx
- OptimizedPitRemoval.exe
- OptimizedPitRemoval.py
- CutFillStatistics.exe
- CutFillStatistics.py

➢ **The destination folder permission settings must allow .exe files to be run. (On some computers this may be "C:\Software".)**

Step 2: Load the Toolbox to ArcMap

- In ArcMap, open ArcToolbox. Right click and select Add Toolbox. Navigate to the Optimized Pit Removal 1.5.1 folder.
- Select Optimized Pit Removal.tbx
- Save Settings to Default. This will allow the tool to be available the next time ArcMap is opened.