

Natural Resources Conservation Service

Soil and Plant Science Division

Southern Great Plains Region 9



Region 9 Office and Texas State NRCS Office

The Farmland Protection Policy Act (FPPA) Review Tool: An ArcGIS Tool Approach for Completing FPPA Requests

Purpose

As the number of requests for Farmland Protection Policy Act (FPPA) reviews increased, the need for a more efficient process was required for the staff to meet the short turnaround time. With this great of a workload, staff met to define the objective and brainstorm the potential for using Python to develop a Review Tool to automate the process. The collaborative efforts of Alex Stum, USDA-NRCS-SPSD-Region 9, GIS Specialist; and USDA-NRCS-Texas staff Carlos Villarreal, soil scientist; Alan Stahnke, Texas State soil scientist; Steven Diehl, cartographic technician; and Pam Jannise, Texas State GIS specialist; resulted in the development of an ArcGIS Toolbox to increase efficiency and reduce processing time when completing FPPA Review Requests in Texas.

Background

FPPA is a law that requires federal agencies to consider the impact of federal programs on the irreversible conversion of farmland to non-agricultural use.

The Farmland Protection Policy Act defines farmland as soils designated as prime, unique, or land of statewide or local importance. Land use is not a consideration for FPPA purposes.

Common activities subject to provisions of FPPA are highway construction projects, multi-family housing facilities, and electrical cooperative construction projects. Projects involving belowground installations, aboveground transmission lines, and sites located within previously converted urbanized areas are exempt.

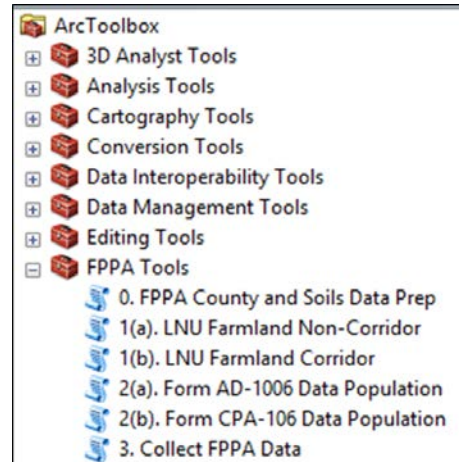


Figure 1. The FPPA Toolbox.

Prior to developing the FPPA Toolbox (Figure 1), an FPPA review involved downloading the Farmland Classification and National Commodity Crop Productivity Index (NCCPI) tables from Web Soil Survey for the soil survey area (SSA) and area of interest (AOI). NCCPI is the approved rating system for Texas.

Using Microsoft Excel, the soils are ranked on productivity by county. The relative ratings and rankings are then applied to the soils involved in the AOI. Several county statistics are needed to populate the



