ArcGIS Script Tool: Grid Fixed Area Plots

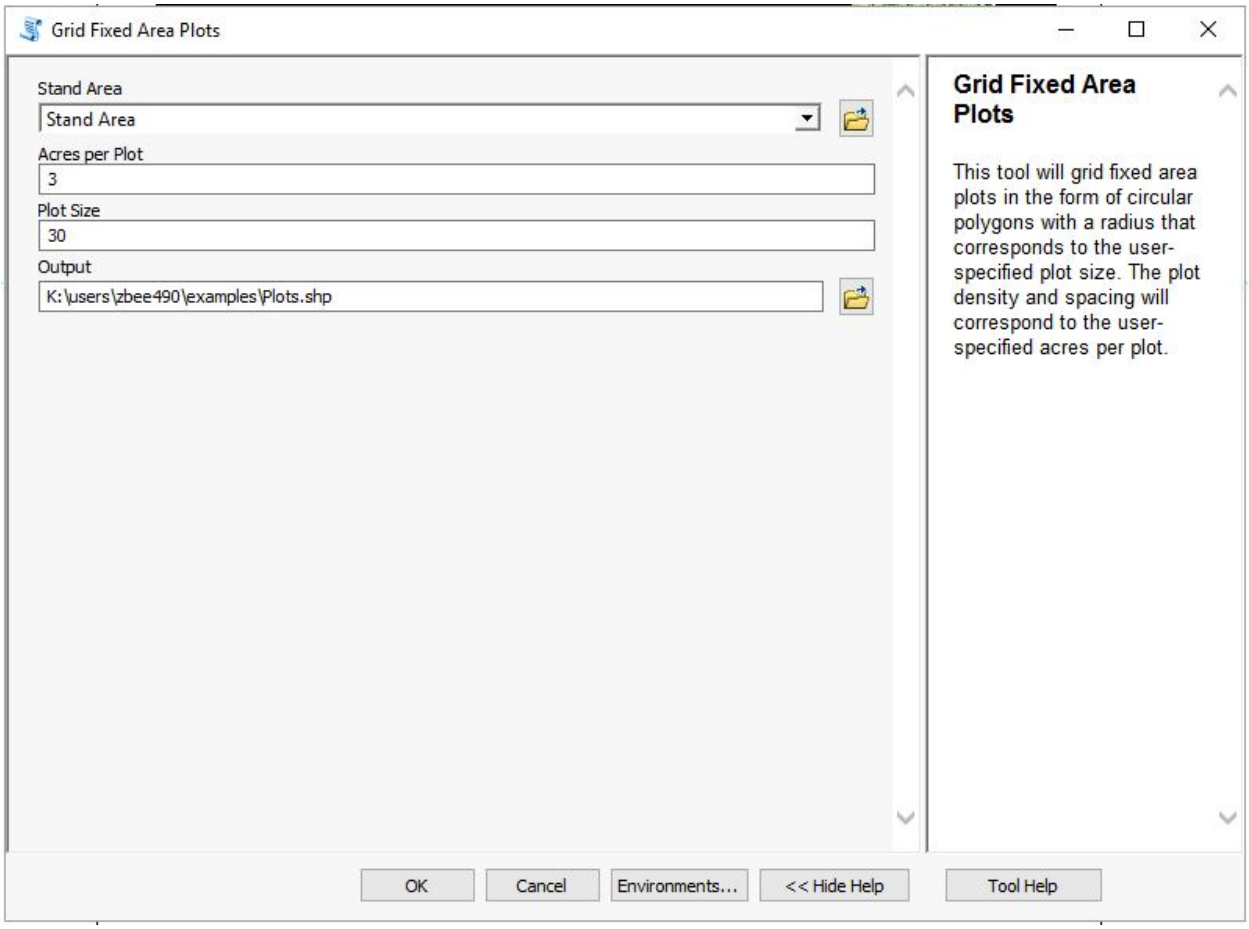
Used with Drone Orthophoto - 5 Year Survival Survey

Input Layers:

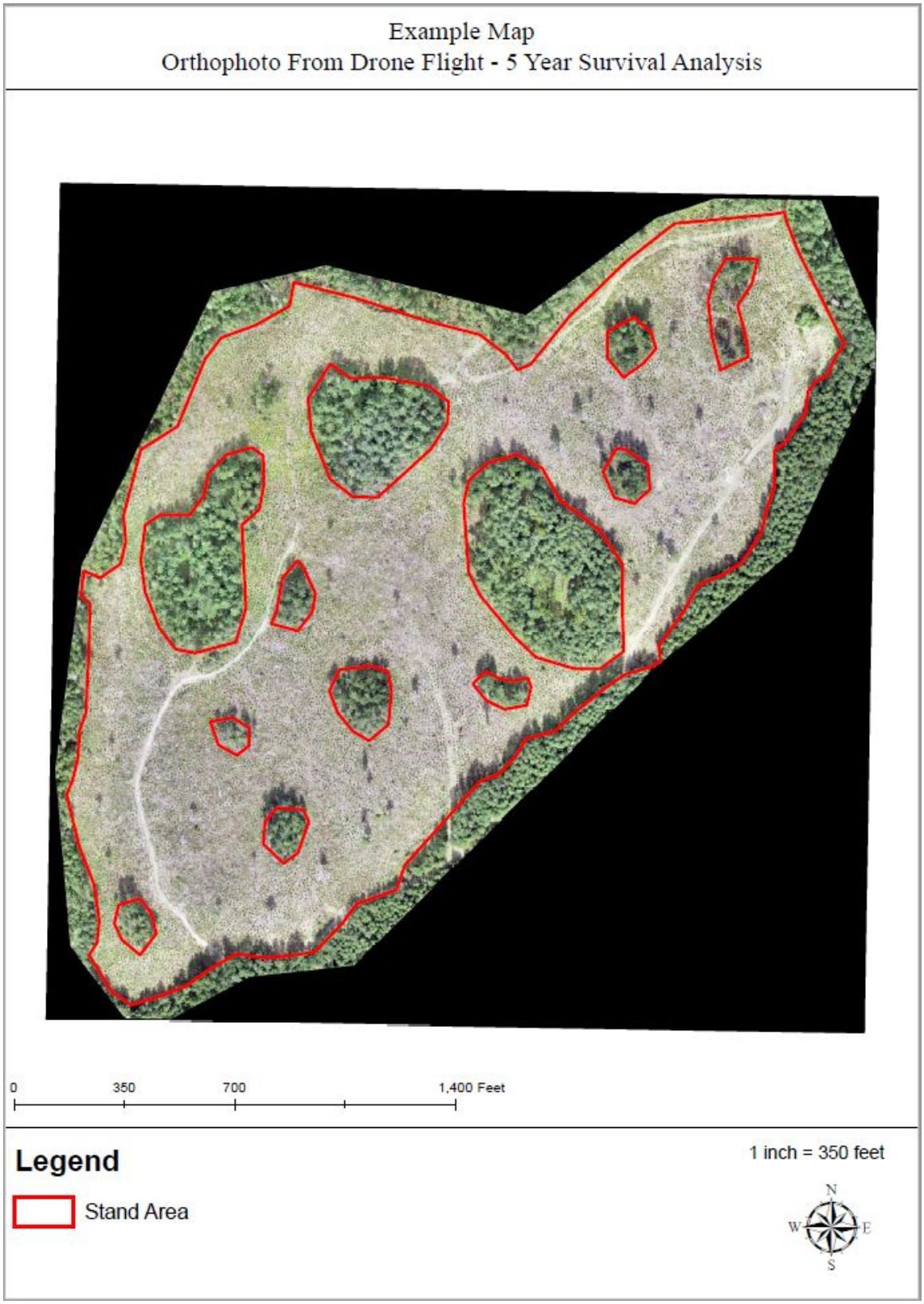
1) Stand Area

Tool Parameters:

1) Acres per plot – Will calculate grid size and plot density
2) Plot Size – The inverse of the plot size in acres – 1/30th acre plot = 30

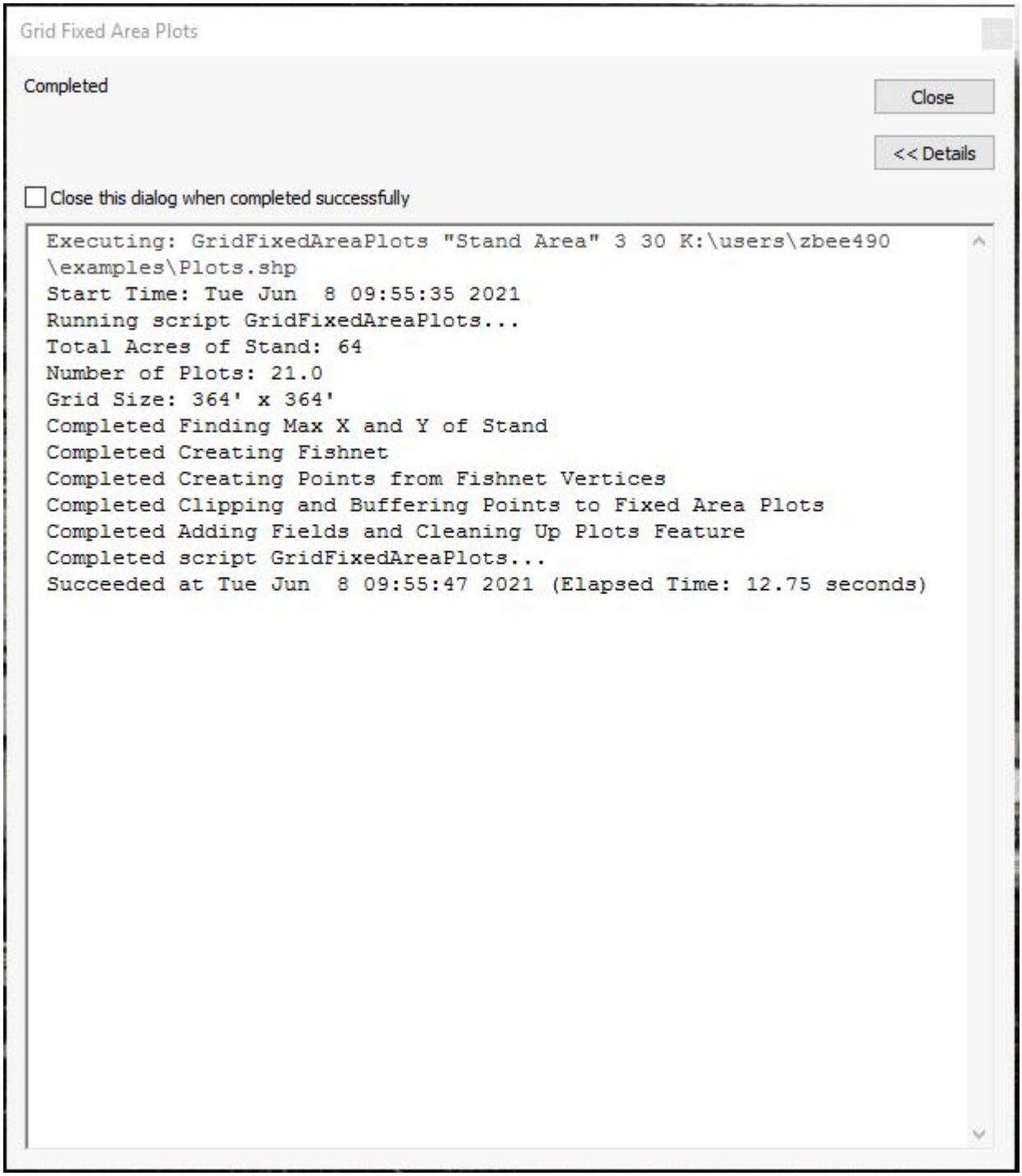


Input Layers Map Examples:

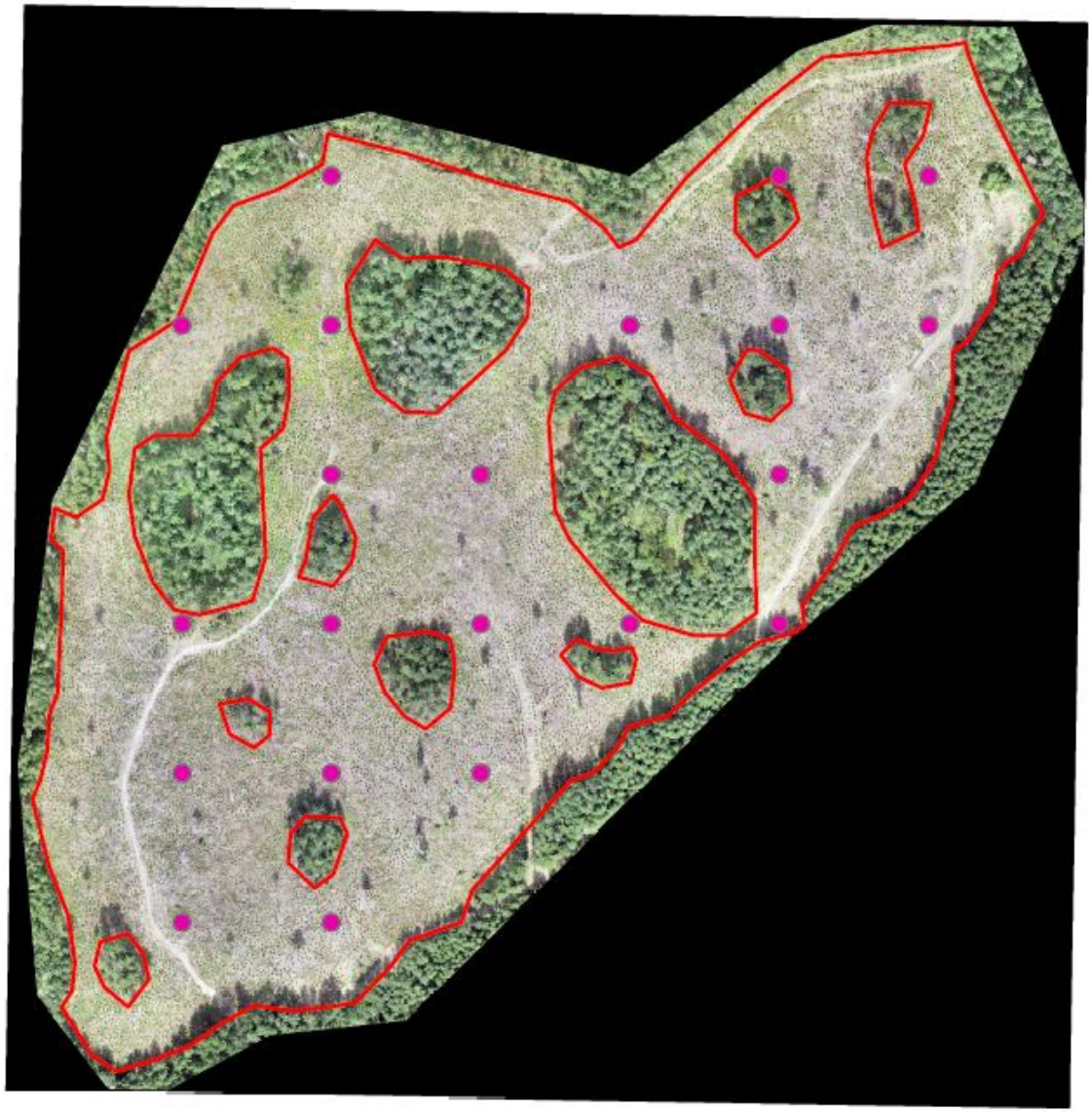


Output of Script Tool:

New polygon containing circular fixed area plots.



Example Map
Orthophoto From Drone Flight - Plots



0 350 700 1,400 Feet

Legend

Plots

Stand Area

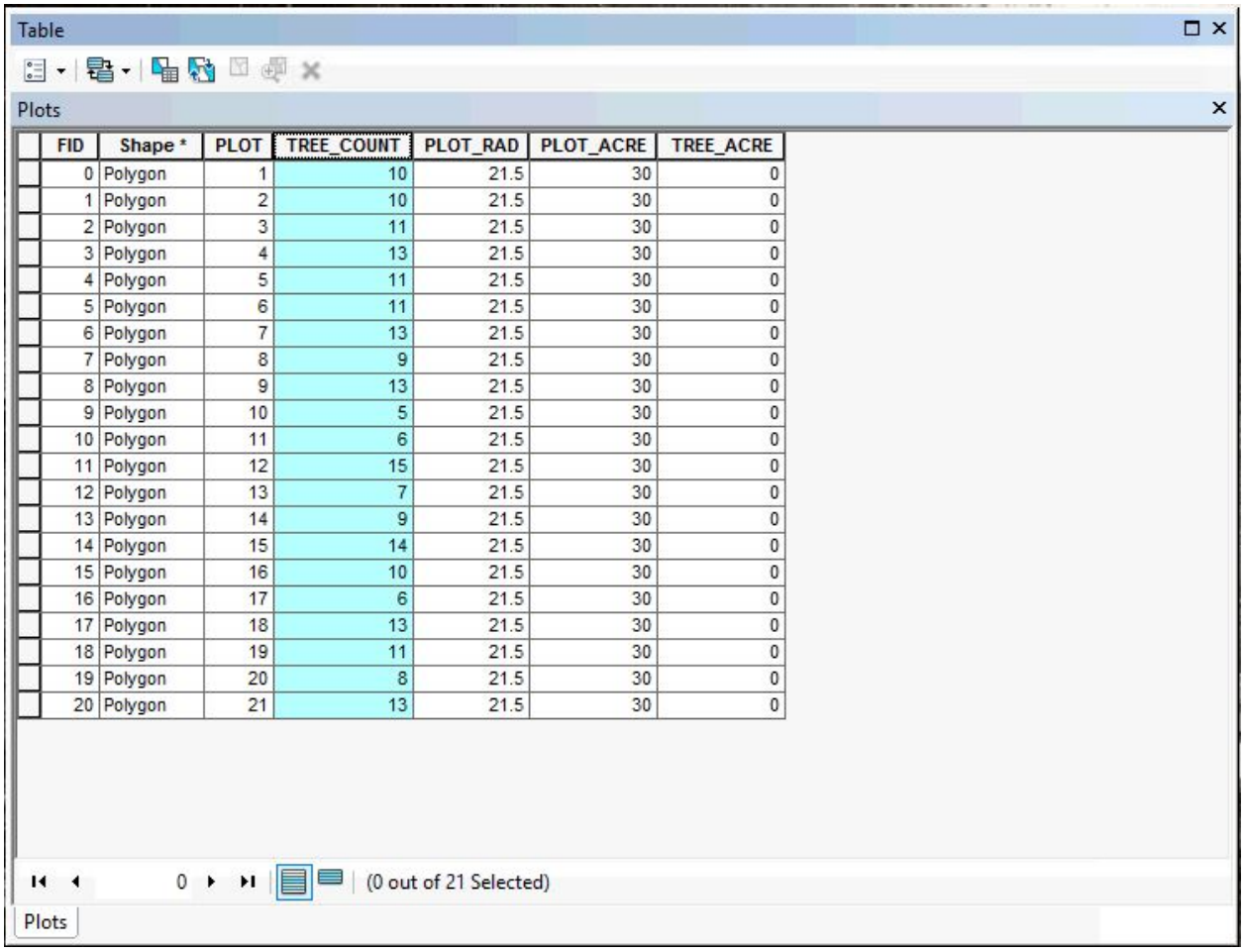
1 inch = 350 feet

N W E S

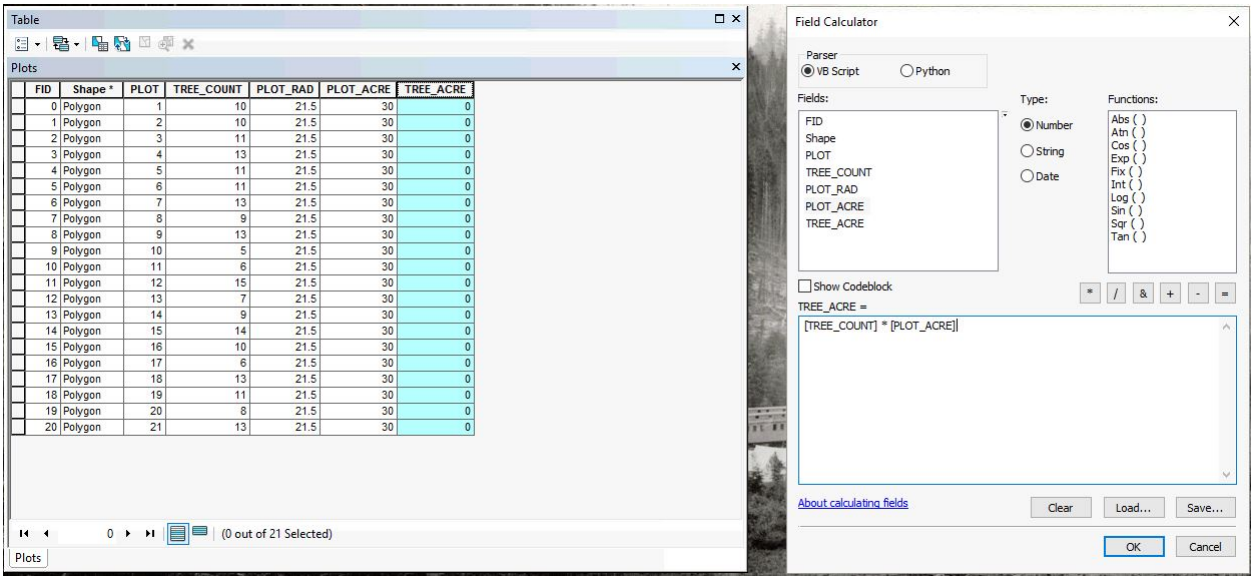
Orthophoto Survival Survey:

Zoom to individual Plot and count the trees within the plot.

Add tree count to corresponding attribute table field for the plots.



Use Field Calculator to determine trees per acre per plot by multiplying TREE_COUNT with PLOT_ACRE.



Use Statistics to get the average trees per acre.