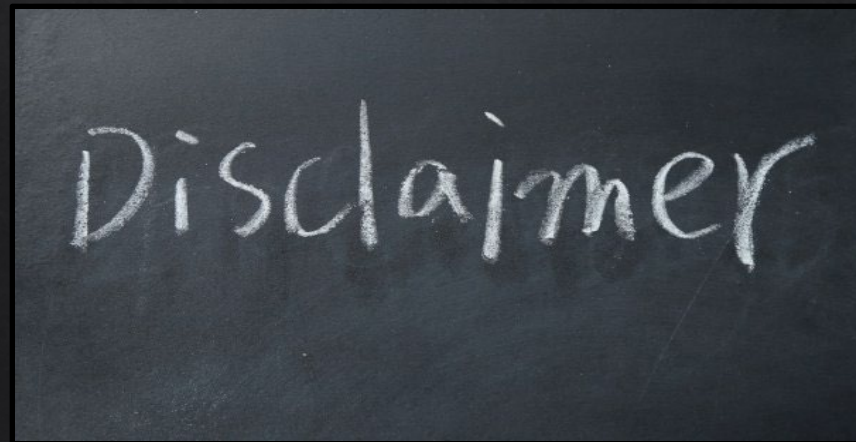


Example of TEUI Data Use in GIS Analysis: Reforestation Example

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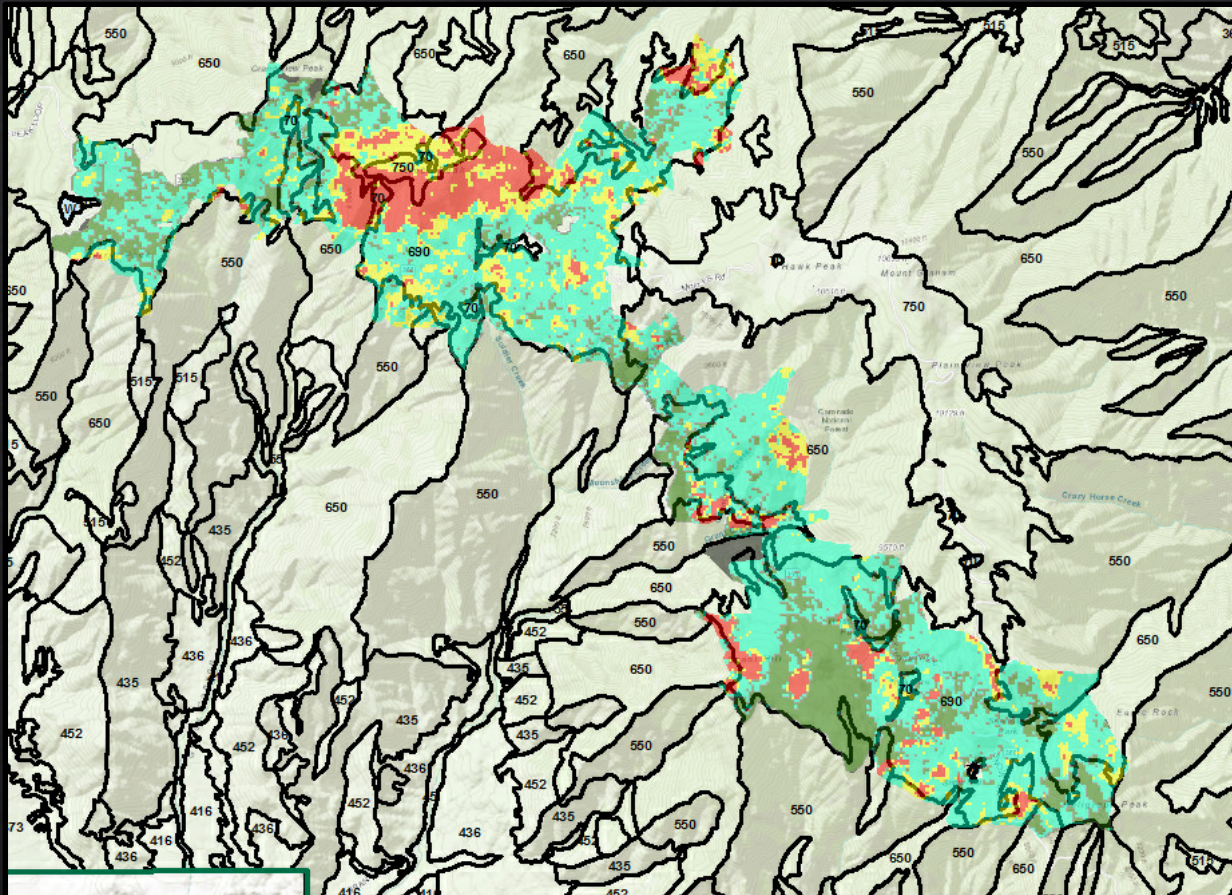
Quick Disclaimer

- ◇ The following example of TEUI data use is hypothetical.
- ◇ A project area relevant to the Coronado NF was used in this example.
- ◇ There is no prior knowledge of the status of the project, nor any about the nature of the proposed activities.



Reforestation Example

- ◇ You're a forester and you are interested in identifying some potential locations for reforestation within the Frye Fire burned area that impacted the Pinaleno Ecological Restoration Project (PERP).



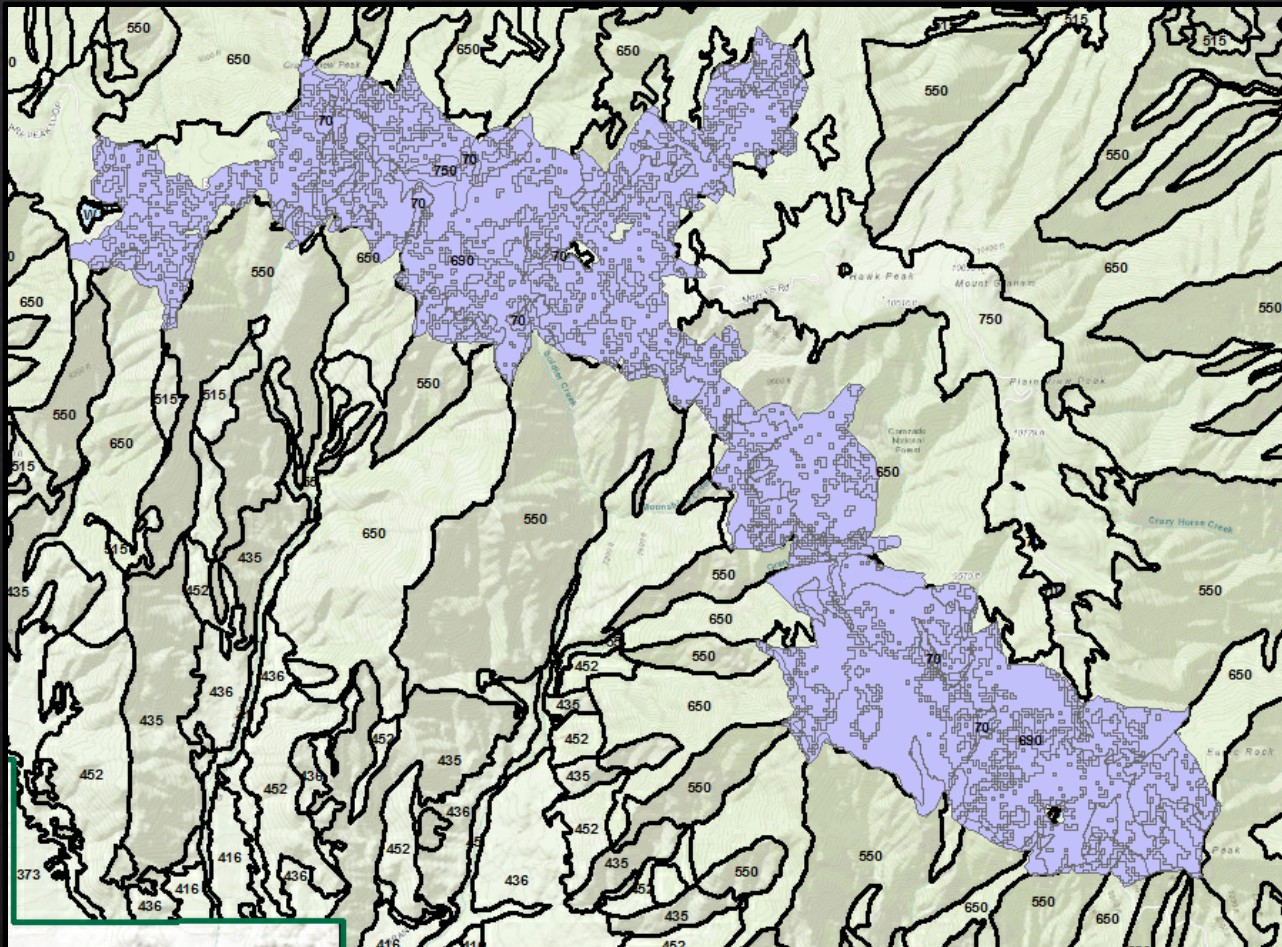
Reforestation Example

- ◇ Some potential TEUI interpretations of interest in a GIS analysis could be:
 - ◇ Reforestation Potential – probability of success in the establishment and survival of trees under inherent site conditions. Primarily considers attributes such as climate, soil characteristics, and slope.
 - ◇ Windthrow Hazard – probability of trees being uprooted by wind. Considers attributes such as soil depth and bearing strength of the soil based on particle size class.



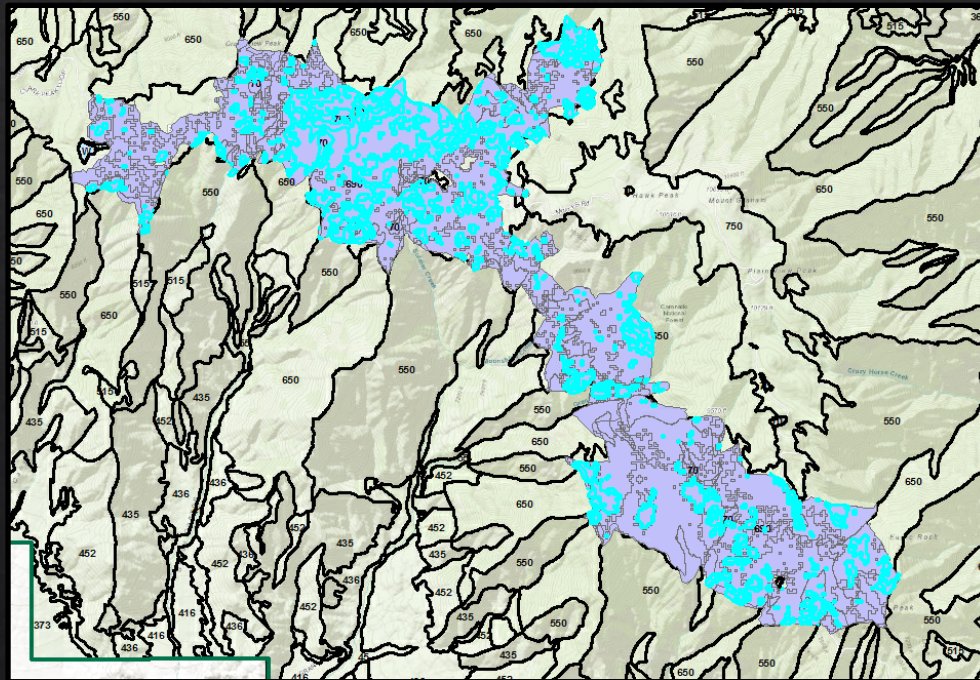
Reforestation Example

- ◇ The intersection tool can be used to spatially and tabularly combine attributes of the TEU layer and the Frye Fire burn severity to PERP boundary clip layer.



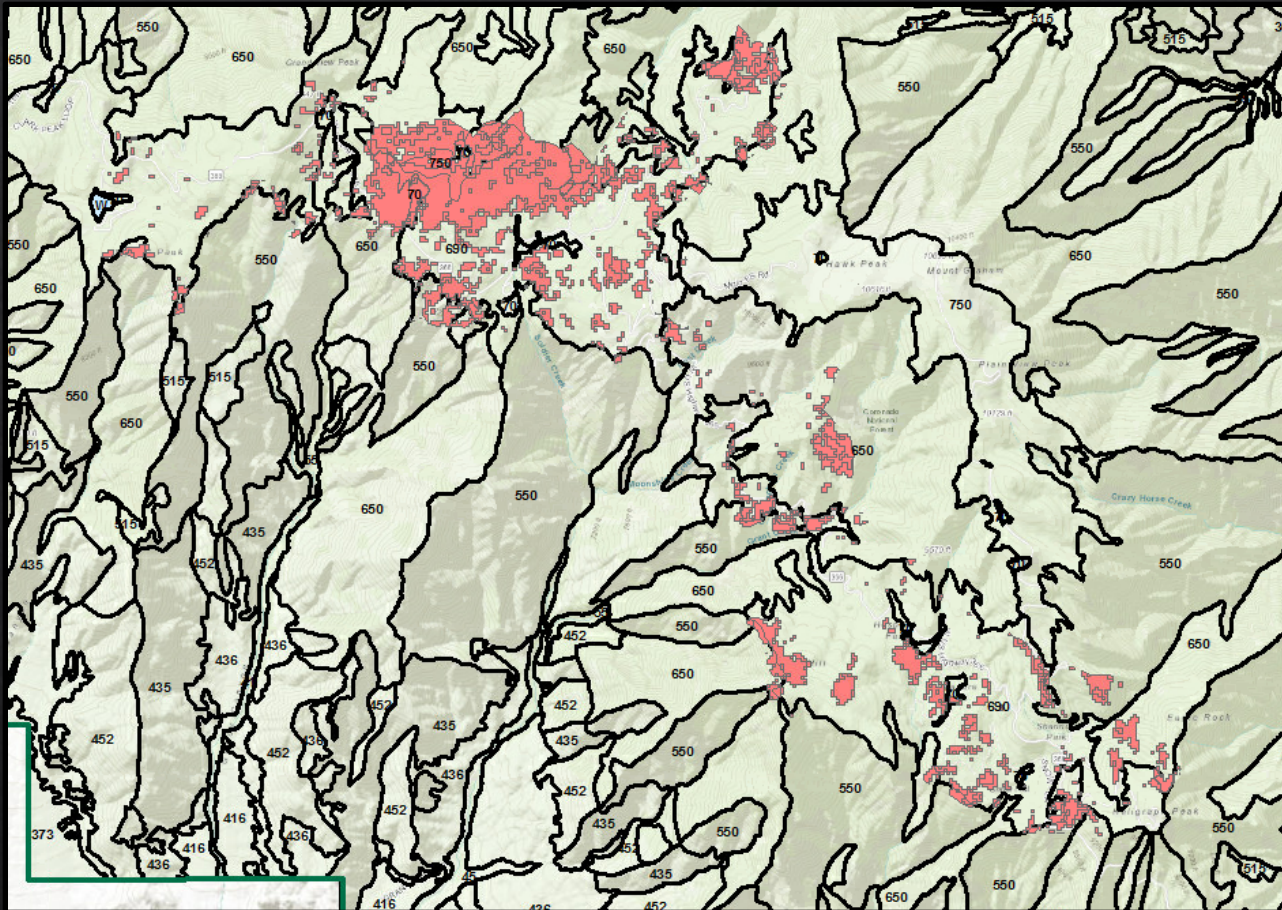
Reforestation Example

- ◇ It is probably safe to assume that the moderate and high burn severity areas are the locations which experienced the largest mortality of trees and would benefit most from tree planting.
- ◇ You could select those polygons in the intersected layer that have high and moderate burn severity.



Reforestation Example

- ◇ From the selection, you could export a new layer with just the high and moderate burn severity polygons with the TEUI data attributes.



Reforestation Example

- ◇ From here, a selection query can be used to isolate those units within the layer which have the best chance for reforestation success based on the following criteria:
 - ◇ Reforestation Potential is rated moderate or better AND Windthrow Hazard is rated moderate or slight.

