

LANDSCAPE ECOLOGICAL ANALYSIS OF AN HISTORIC TRAIL USING GIS

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Abstract

The Ghosts of Nacogdoches Historic Trail was created and is maintained by the East Texas Areas Council of the Boy Scouts of America. The trail traverses through the many historical areas of the oldest town in Texas. The goals of the analysis of the Ghosts Trail using 6 inch resolution imagery were to: increase the safety of trail users; revise the trail for better flow and inclusion of new sites; and to update both the trail manual and map using GIS. Most of the problematic issues with the trail were solved with GIS. RazonTek six inch resolution imagery tiles were combined into a single mosaic. The current route of the trail and the proposed route were mapped with a Trimble ProXRS GPS unit and changes made to simplify both the route of the trail and to improve safety for users. Using GIS, a new route was designed that increased the safety and reduced backtracking on the trail. Improvement goals for the Ghosts Trail include updating the manual and adding ArcGIS images and corresponding documents. These changes will enhance the use and promote awareness of the trail through both a fly-through video and posting of images on websites for visitors to the oldest town in Texas.

[Abstract Only]

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