Abstract

Modeling Land-Use Suitability, Growth, and Impacts in Dane County, Wisconsin
Track: Modeling
Author(s): Tom McClintock

UW-Madison LICGF, in partnership with various other agencies is conducting an analysis of rural Dane County to model affordable housing suitability, farmland preservation, and environmental protection to address issues related to various land-use pressures. Digital parcels is an important multi-purpose database. Growth allocation, farmland suitability modeling, impact analysis and visualization is done using various GIS programs including WhatIf? PSS, CommunityViz, and ESRI's Arcview 3.2 Spatial Analyst. One example is assessing the impact on cold-water trout fisheries by calculating impervious surface area from various future development scenarios. Another is visualizing development and open space in real time using various policy decisions.

Tom McClintock
UW-Madison LICGF
550 Babcock Dr, Rm B102
Madison , WI 53706
USA
Phone: 608 263-5534
Fax: 608 262-2500
E-mail: tlmcclin@wisc.edu