GIS Applications in Interagency Fire Management Planning

Jeff Baranyi, Mike da Luz

Abstract

Geospatial information continues to be critical to the management of Natural Resources. This presentation highlights applications relevant to Fire Management. Specifically, we intend to showcase advances in GIS technology, developed to facilitate interagency planning in wildland fire management. These applications employs GIS/GPS and remote sensing technology to improve coordination and utility of spatial information. Techniques are developed to provide for a common approach to planning and execution. Systems are designed to accommodate interagency and interdisciplinary environments and multiple applications that address both strategic and tactical needs. We intend to demonstrate key linkages between fire ecology, fire behavior modeling and resource values. This prototype is an example of how enhancements in GIS technology aid in decision making and serves as a conceptual model of how existing fire applications can fit together in an enterprise fashion to address current issues in wildland fire management. We will cite several other fire related efforts to illustrate the strength and adaptability of GIS.