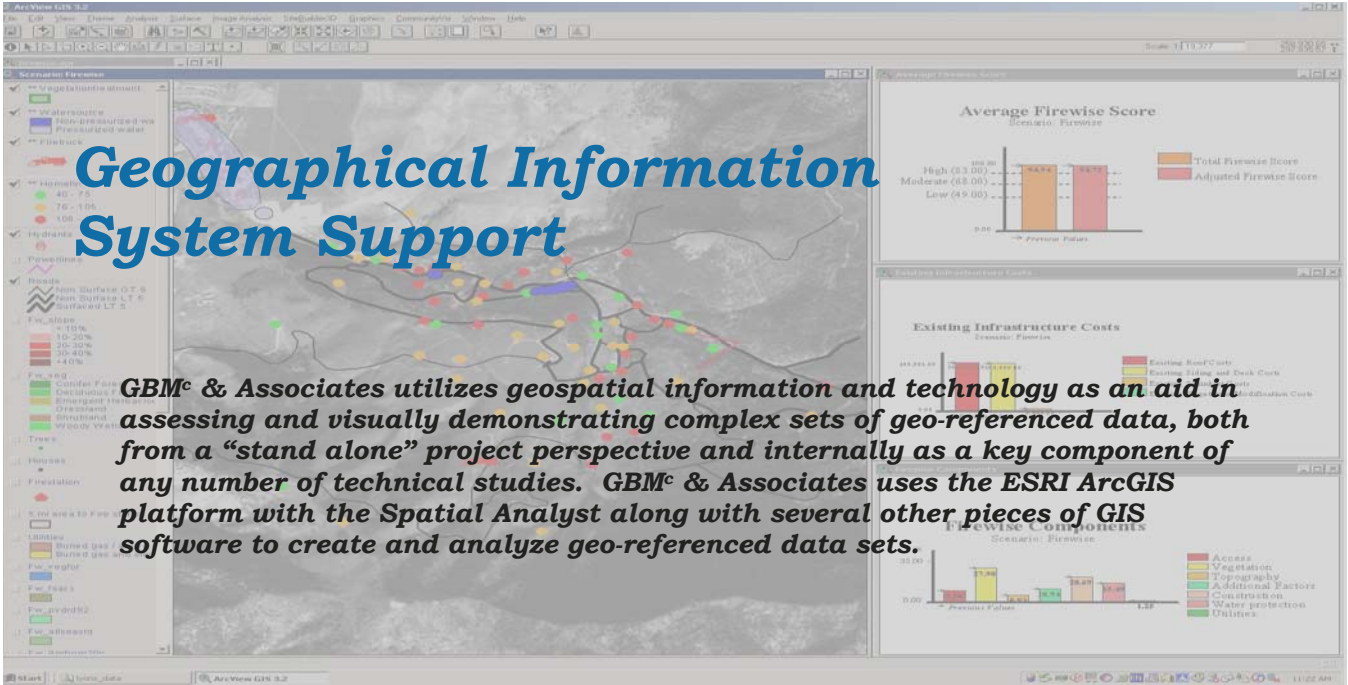


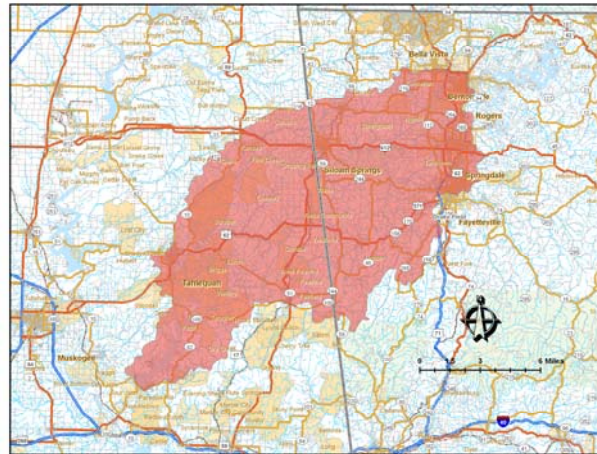
Geographical Information System Support

GBM^c & Associates utilizes geospatial information and technology as an aid in assessing and visually demonstrating complex sets of geo-referenced data, both from a “stand alone” project perspective and internally as a key component of any number of technical studies. GBM^c & Associates uses the ESRI ArcGIS platform with the Spatial Analyst along with several other pieces of GIS software to create and analyze geo-referenced data sets.



Experience and Capabilities

- Utilized GIS technology to integrate geo-referenced infra-red images and current aerial photographs to estimate population increases since the 2000 census in specific areas of NW Arkansas.
- Have performed numerous detailed large scale watershed delineations; incorporating multiple data layers such as land use, land cover, soils, slopes and other features. GIS analyses of the data layers was used to determine percentages of various watershed attributes (% forested, % pasture, slope, etc.) to better characterize the watershed.
- Have completed projects using Digital Elevation Model data to determine accurate drainage pathways within watersheds. This technique can be used to better identify sub-watersheds for fine scale non-point source runoff determinations.
- Using GIS data layers have positioned specific properties relative to sources of potential pollutants to determine attribute relationships between the sample sites and the properties. These data were compiled into a database for querying specific characteristics for scientific analyses.
- Have utilized GIS technology and color and black/white aerial photographs to identify specific erosion areas on rivers.
- Have worked with Department of Defense Geodatabase Standards to format biological collections (birds, insects and mammals) into a GIS ready database for further analyses and visual display
- Have used Thematic Mapper Raster Datasets to show seasonal vegetation growth patterns as displayed from various spectral bands.



GBM^c Contacts

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