

Types of Analysis

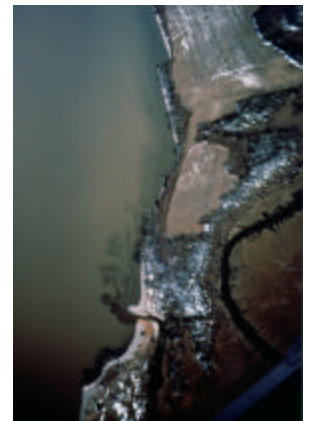
Some examples of resource analysis include identifying potential flooding hotspots, estimating damage due to natural disasters such as earthquakes, tornadoes, and forest fires, and using land use / land cover maps for zoning regulations, and to determine residential proximity to potentially hazardous areas.



Natural resources management becomes ever more important as populations continue to increase and more people choose to live on smaller properties. It is incumbent on our leaders at all levels to plan to protect land, water quality and quantity, forests, fossil fuels, and other natural resources from over consumption, degradation, and exploitation.

GIS is a powerful tool used to support natural resource management planning by locating and defining natural resources, measuring reserves, monitoring quality, quantifying consumption, and identifying potential environmental hazards. Natural resources GIS data layers combined with base map and other GIS layers allow decision makers the ability to examine different possibilities and combinations of decisions to determine the best course of action. GIS maps the decision making process.

Not only is a visual representation able to convey large amounts of information to stakeholders, we are able to assess historical changes over time, look at formerly remote areas, and relate this data at a relatively low cost and with minimal effort. Geospatial analysis allows you to plan ahead and see regional options, where localities and their data were once isolated. The actions of one community relate to those communities downstream or down-slope and GIS is the common tool used to make the correlation.



GDMIS uses the latest geospatial technology to inventory natural resources and relate their position to current land uses and ownership. Whether for conservation, agriculture, or disaster emergency preparedness, GDMIS's resource mapping, modeling, and analysis teams will work with you to achieve your goals.

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