

The role of GIS in Indiana's Reassessment

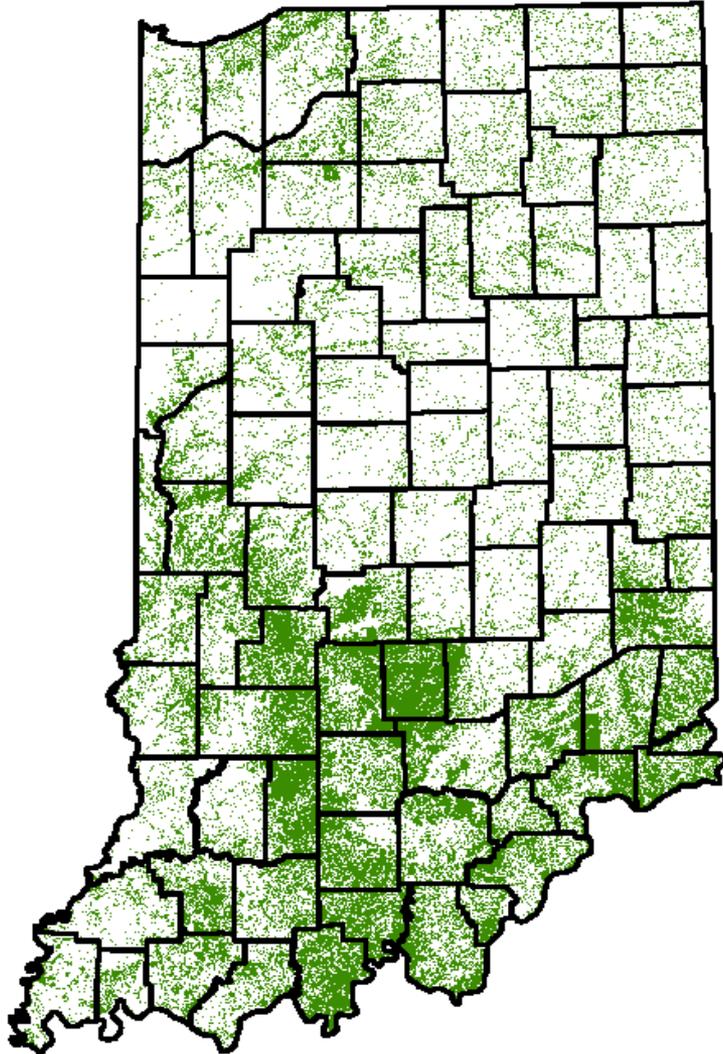
As told by
Brett Martin

What is GIS?

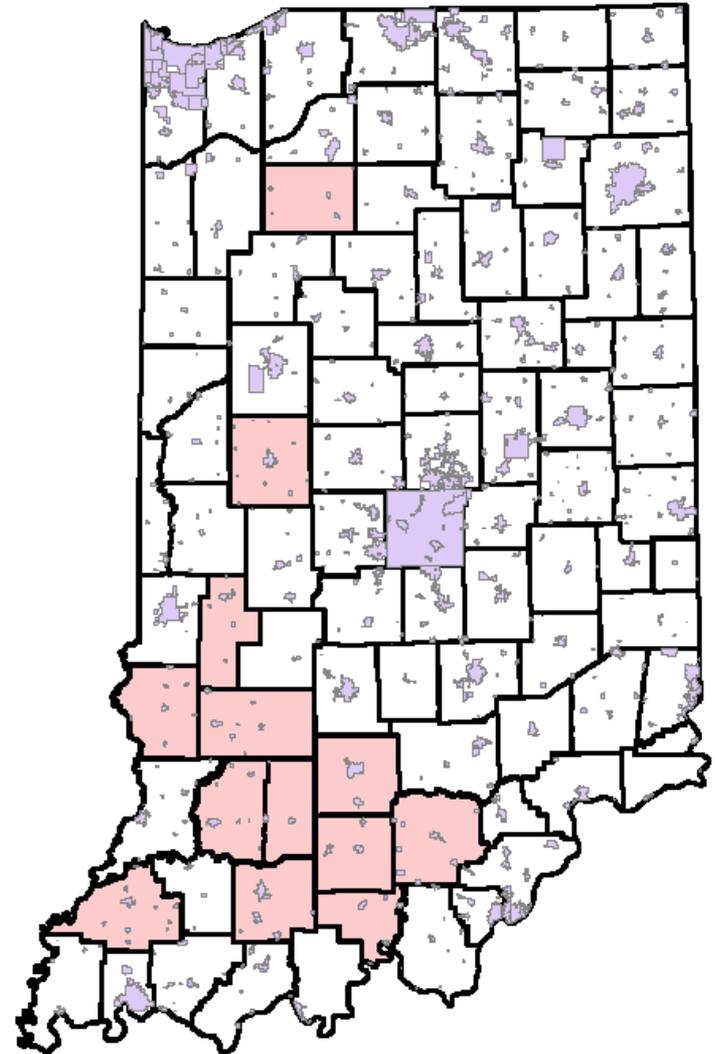
- A mapping and analysis system
 - Allows for the display of multiple data layers
 - Can combine data layers into one output, or multiple outputs
- A visualization system
 - Spatially represents data to show areas of interest
 - Related to issues in the on-line survey

Two examples of layers

Forestland



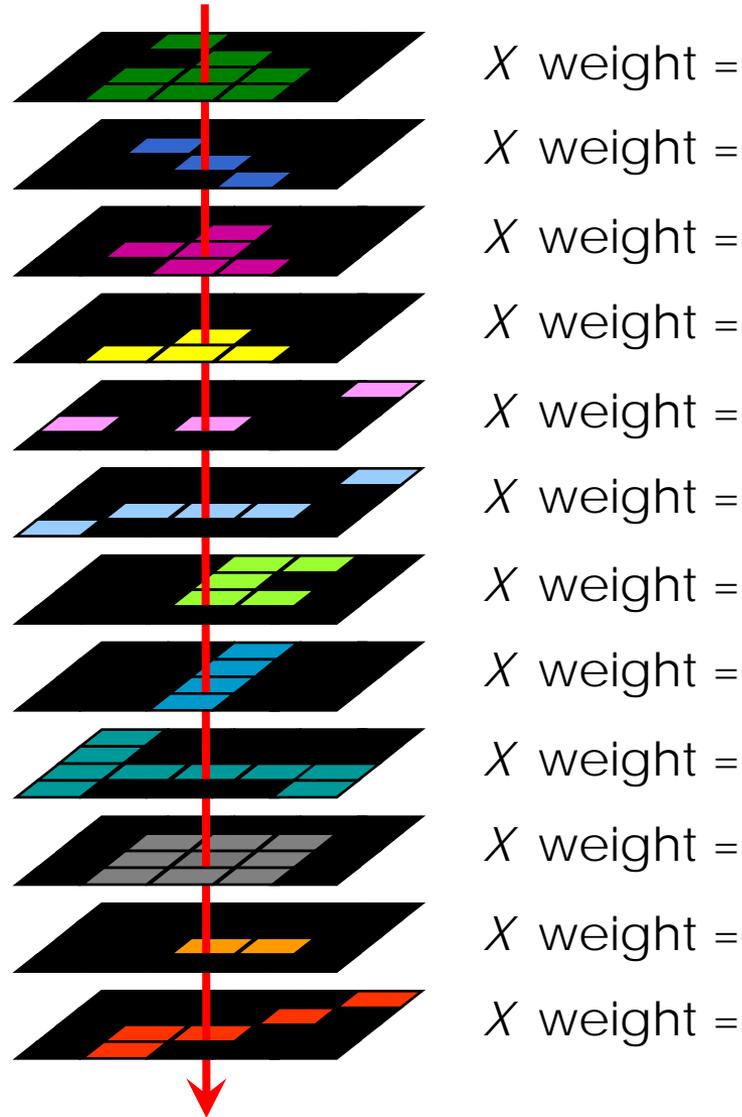
Counties without zoning



Model Visualization

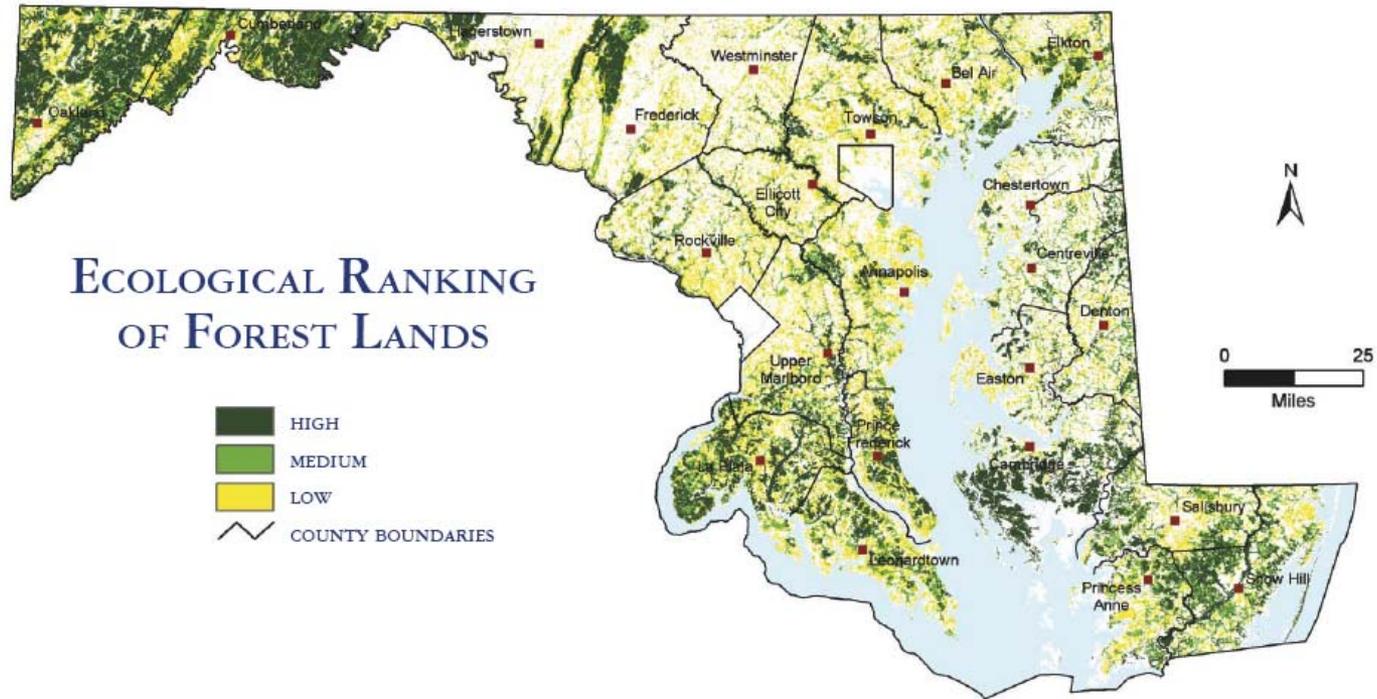
The layers used in the analysis are all converted into layers of ones (represents that layer) and zeroes.

Then they are multiplied by the weight assigned from the on-line voting and added together, resulting in values ranging from 0 (lowest importance) to 1 (highest importance).



Maximum score = 1

Examples from Maryland



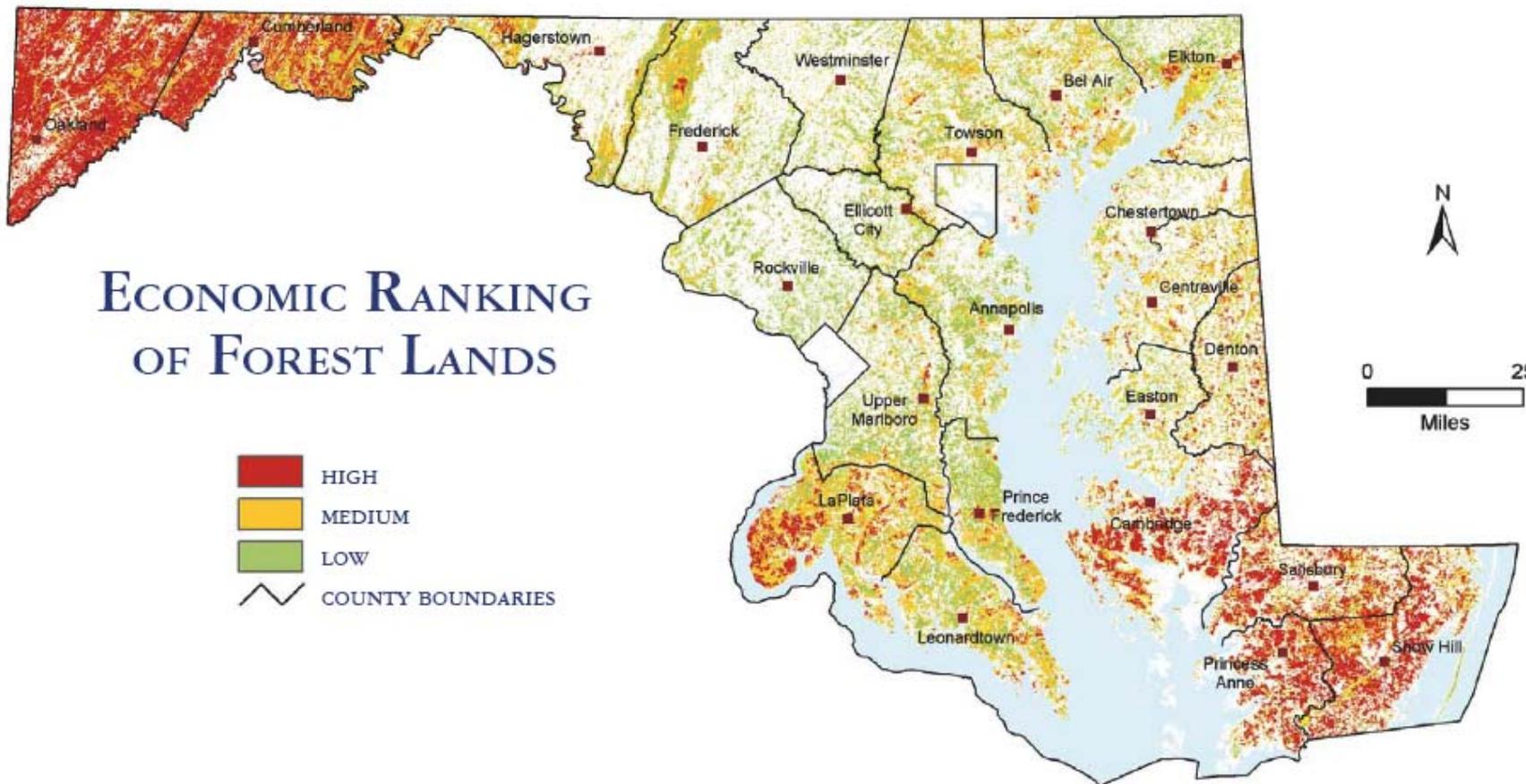
MARYLAND'S STRATEGIC FOREST LANDS ASSESSMENT



Watershed Services Unit
Landscape and Watershed Analysis Division

Data Source: Green Infrastructure Assessment
Maryland Department of Natural Resources

Funding for this project was provided in part
by the USDA Forest Service Northeastern Area



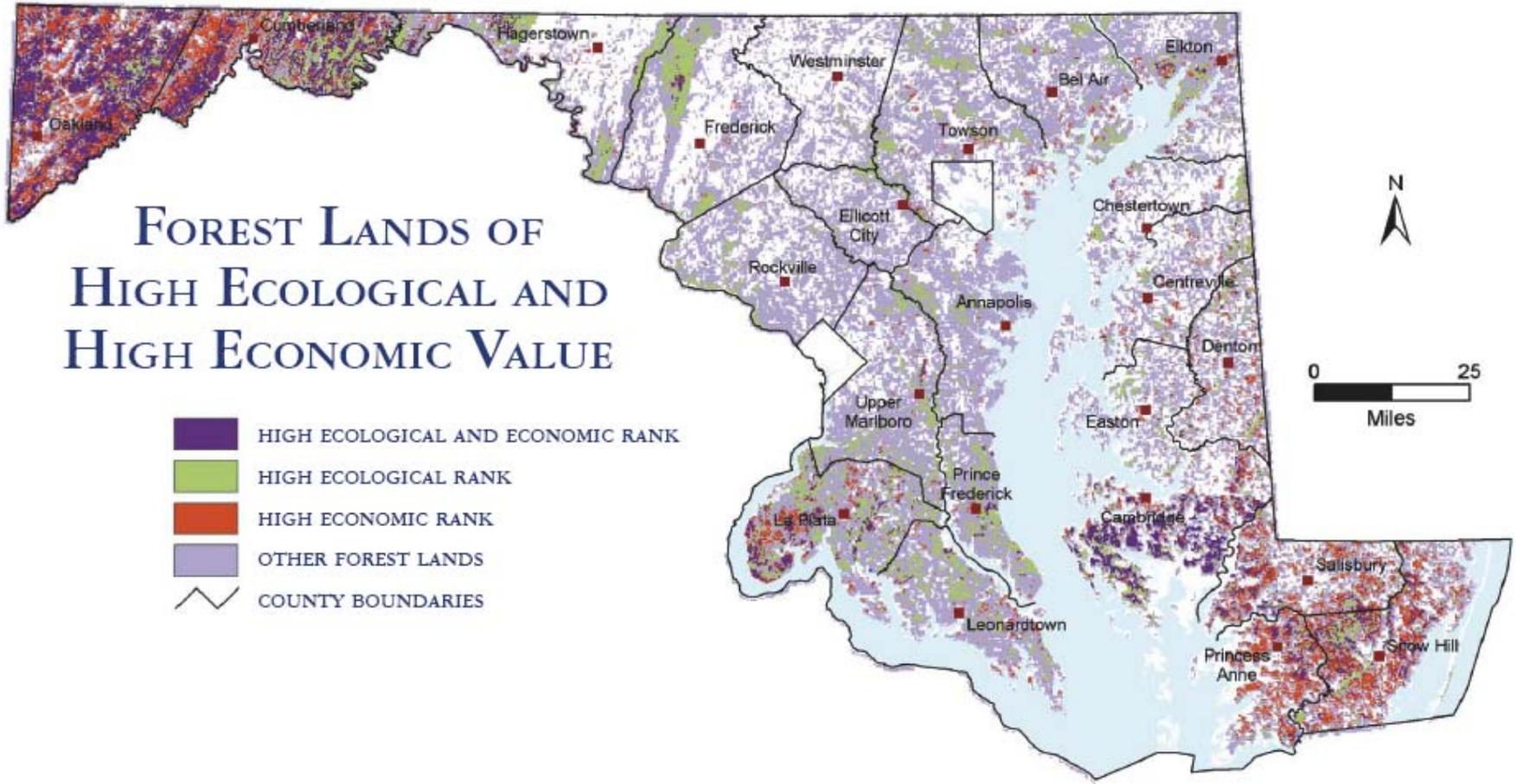
MARYLAND'S STRATEGIC FOREST LANDS ASSESSMENT



WATERSHED SERVICES UNIT
LANDSCAPE AND WATERSHED ANALYSIS DIVISION

DATA SOURCE: SFLA SOCIOECONOMIC ASSESSMENT
MARYLAND DEPARTMENT OF NATURAL RESOURCES

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MARYLAND'S STRATEGIC FOREST LANDS ASSESSMENT



WATERSHED SERVICES UNIT
LANDSCAPE AND WATERSHED ANALYSIS DIVISION

DATA SOURCE: GREEN INFRASTRUCTURE ASSESSMENT
SFLA SOCIOECONOMIC ASSESSMENT; MARYLAND DNR

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Possible Assessment Regions (Homoya's Natural Regions of Indiana)

Legend

Natural Regions

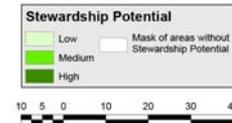
- BLACK SWAMP NATURAL REGION
- BLUFFTON TILL PLAIN SECTION
- BROWN COUNTY HILLS SECTION
- CHICAGO LAKE PLAIN SECTION
- CRAWFORD UPLAND SECTION
- DRIFTLESS SECTION
- ENTRENCHED VALLEY SECTION
- ESCARPMENT SECTION
- GLACIATED SECTION
- GRAND PRAIRIE SECTION
- KANKAKEE MARSH SECTION
- KANKAKEE SAND SECTION
- KNOBSTONE ESCARPMENT SECTION
- LAKE MICHIGAN BORDER SECTION
- MITCHELL KARST PLAIN SECTION
- MUSCATATUCK FLATS AND CANYONS SECTION
- NORTHERN LAKES NATURAL REGION
- PLAINVILLE SAND SECTION
- SCOTTSBURG LOWLAND SECTION
- SOUTHERN BOTTOMLANDS NATURAL REGION
- SWITZERLAND HILLS SECTION
- TIPTON TILL PLAIN SECTION
- VALPARAISO MORAINE SECTION



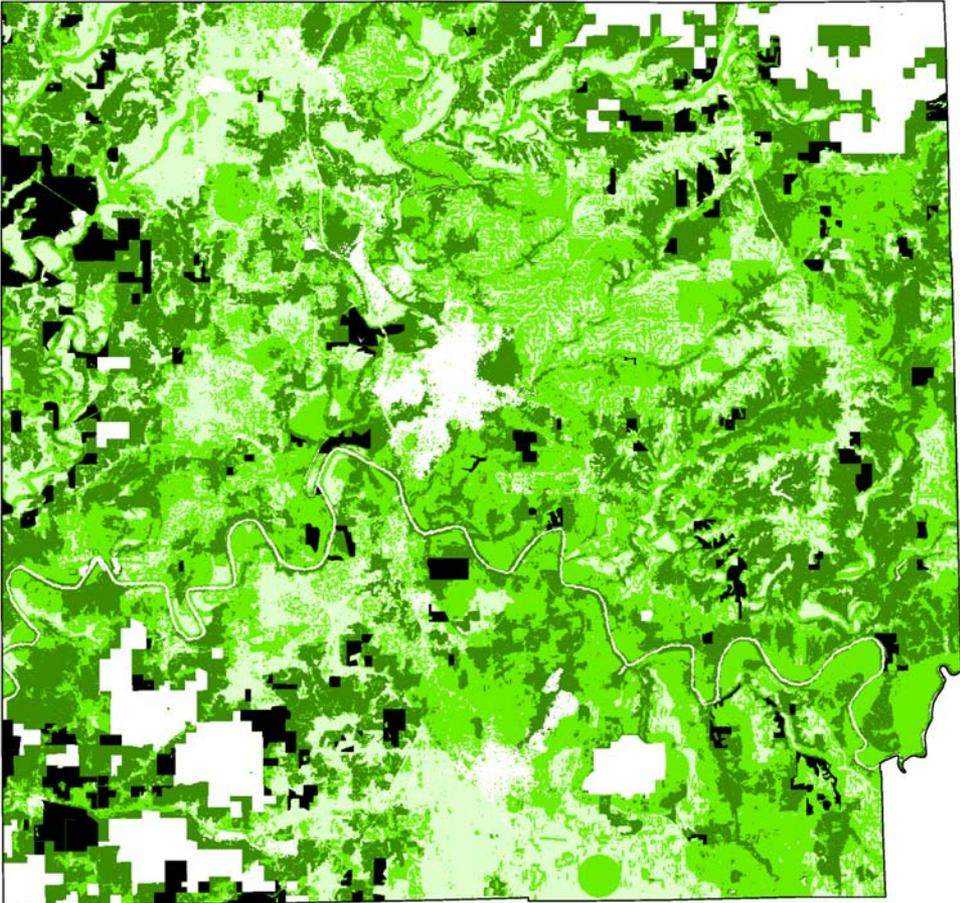
An example final map from SAP



| Stewardship Potential | Stewardship Capable Lands | | | | | |
|-----------------------|---------------------------|-------------------|------------|-----------------------|------------|------------|
| | Forest | | Non-forest | | Total | |
| | Acres | % of total Forest | Acres | % of total non-Forest | Acres | % of Total |
| Low | 0 | 0.00% | 9,411,182 | 55.03% | 9,411,182 | 45.37% |
| Medium | 837,734 | 24.55% | 7,362,958 | 43.14% | 8,200,692 | 39.88% |
| High | 2,783,735 | 75.45% | 288,963 | 1.83% | 3,072,698 | 14.76% |
| Total | 3,621,470 | 100.00% | 16,999,485 | 100.00% | 20,620,955 | 100.00% |



Regional Analysis: Forest Stewardship Potential And Stewardship Plans, Lawrence County, Indiana



Legend

| | | | |
|--------------|--------|---------------|-------------------|
| Light Green | Low | Black | Stewardship Plans |
| Medium Green | Medium | White | Analysis Mask |
| Dark Green | High | Black outline | Lawrence County |

Any Questions?

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