

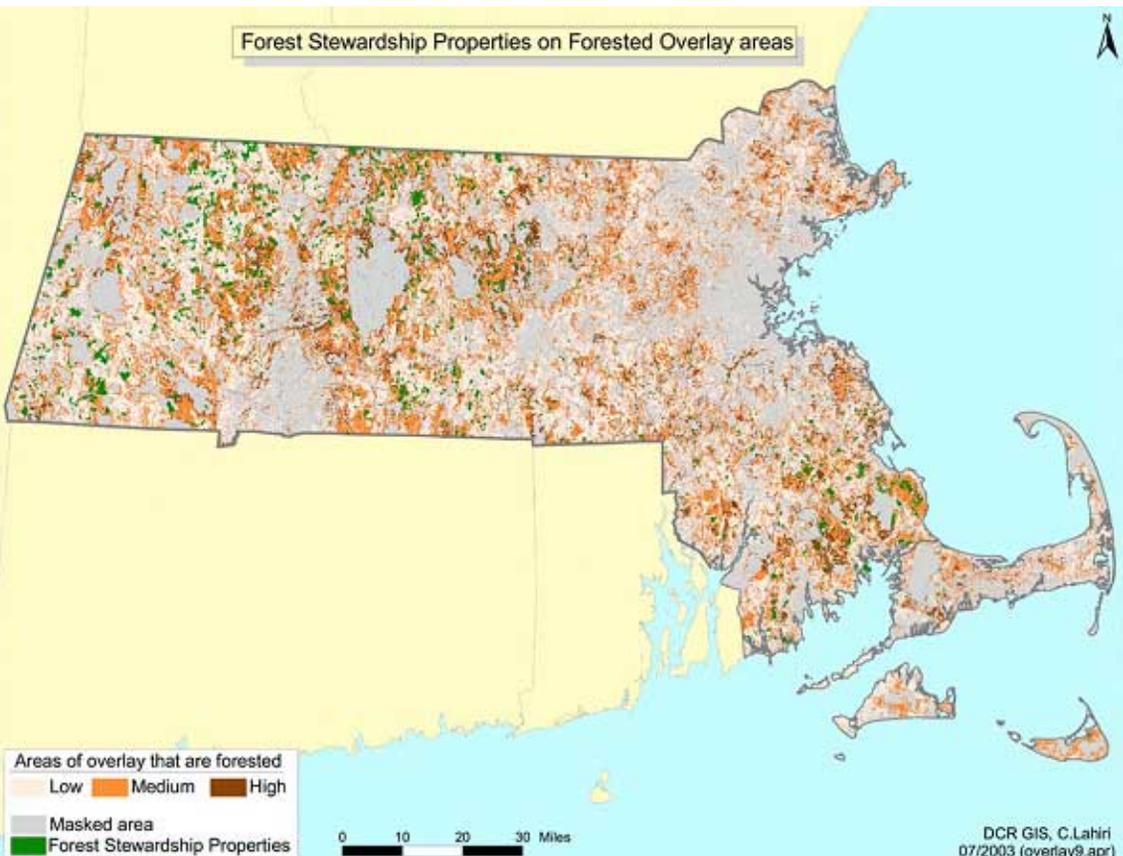


Stewardship Spatial Analysis Initiative

Geo-Referencing and Spatial Analysis of Stewardship Tracts



To this:

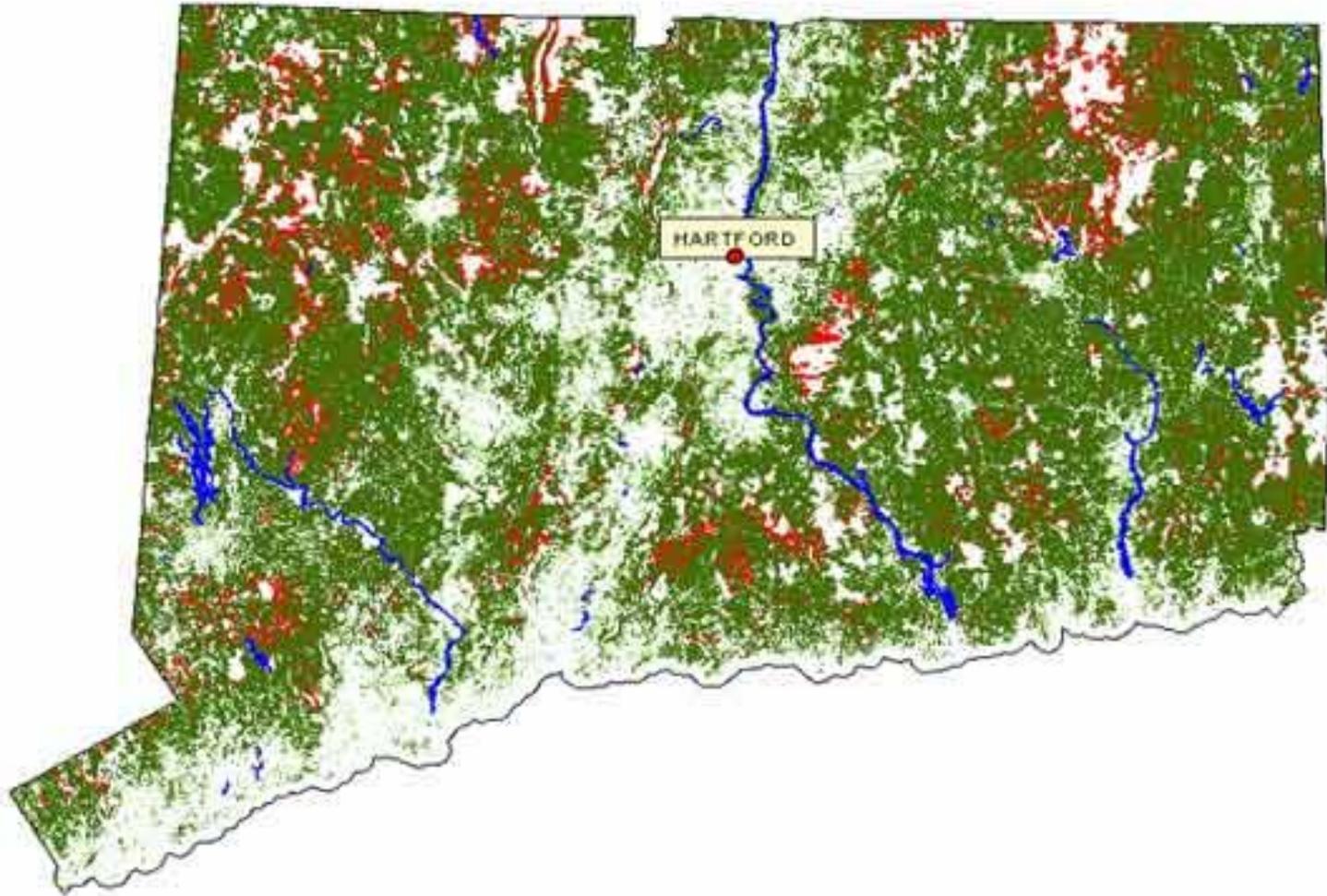


	Forest area (acres)	Forest Stewardship (acres)	(as % of forest)
Low	1,174,550	54,805	4.67%
Medium	1,121,551	64,410	5.74%
High	335,191	20,368	6.08%



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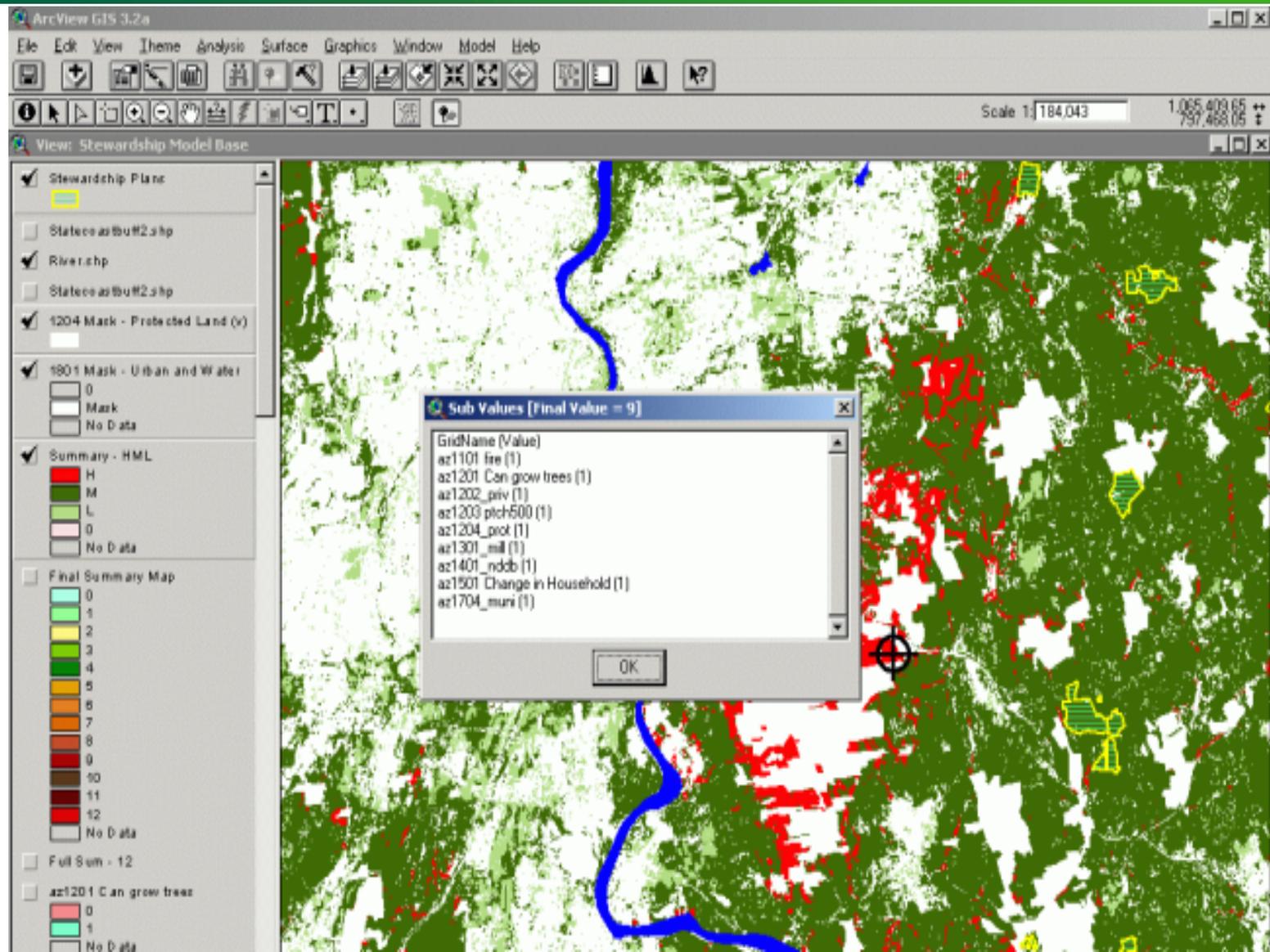
Geo-Referencing and Spatial Analysis of Stewardship Tracts





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Part 1. Development of the Stewardship Plan GIS Layer and Database

- ❖ Creation of shape files or centroids for each Stewardship Plan
- ❖ Creation of Plan attribute layer (recommendations, accomplished actions, etc)
- ❖ GIS digitization effort was done in house by most, one State used a contractor



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Stewardship Database Elements

General Plan Attributes

Date

Acres

Plan Author

Location

C/S recipient?

etc.

Activity Attributes (Built from SIP)

Reforestation

Agroforestry Estab.

Riparian/Wetland

Recreation Enhancement

TSI

Soil/Water Protection

Fisheries Habitat

Timber Harvesting



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Part 2. Development of Statewide High Stewardship Potential Assessment

❖ Identification of Common set of Layers

State option to supplement as appropriate

❖ Threats and Resources

Combination deemed best way to ID Stewardship Opportunity

❖ Flexible yet Consistent Methodology



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Part 2: Development of High Stewardship Potential Map - Common Layers:

Natural Resources	Threats or Vulnerabilities	Land Use Status
Forest Cover	Forest Health Issues	Protection Status
Wetlands	Fire	Public Water Supplies
Riparian (streams, rivers, lakes)	Change in Households	
Patch Size of Forest Cover		
Threatened/Endangered Species		
Slope		



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Part 2: Development of High Stewardship Potential - State-Specific Layers:

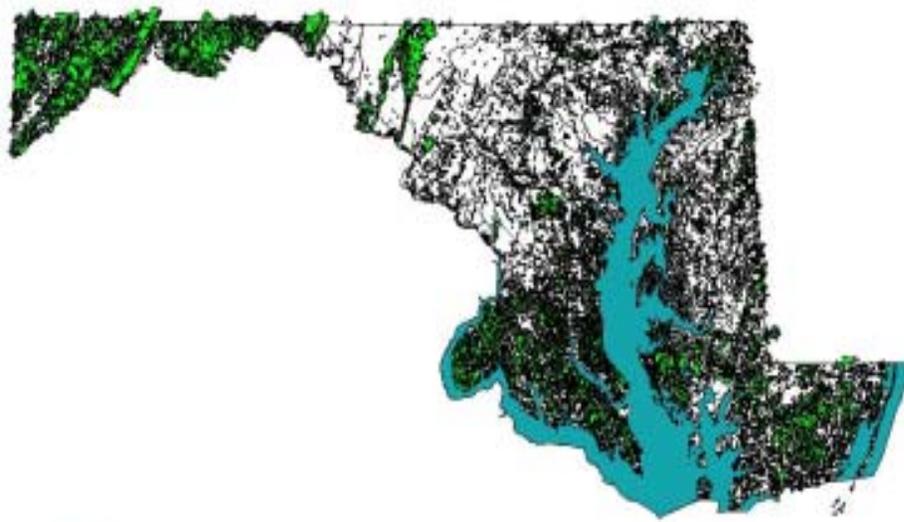
Connecticut	Maryland	Massachusetts	Missouri
Soils	Greenways	None	Potential Oak decline
Municipal water bodies	Groundwater recharge		
	303d Impaired waters		
	Erodibility		



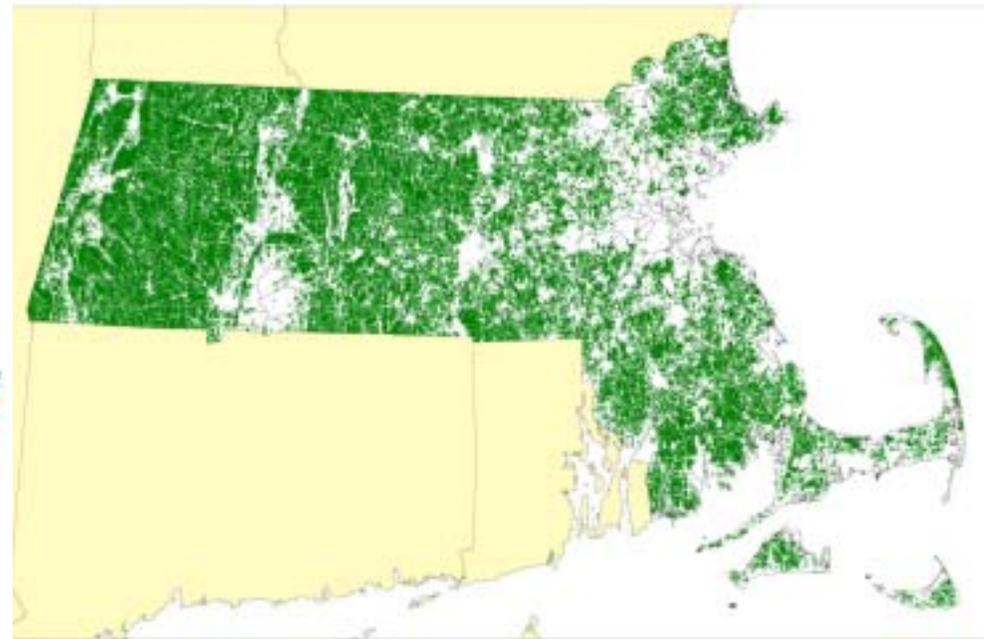
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Forest Patch Size



- Bay_nad83.shp
- Mdldigt_ws.shp
- Forest_ge50ac.shp





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Household Change

