

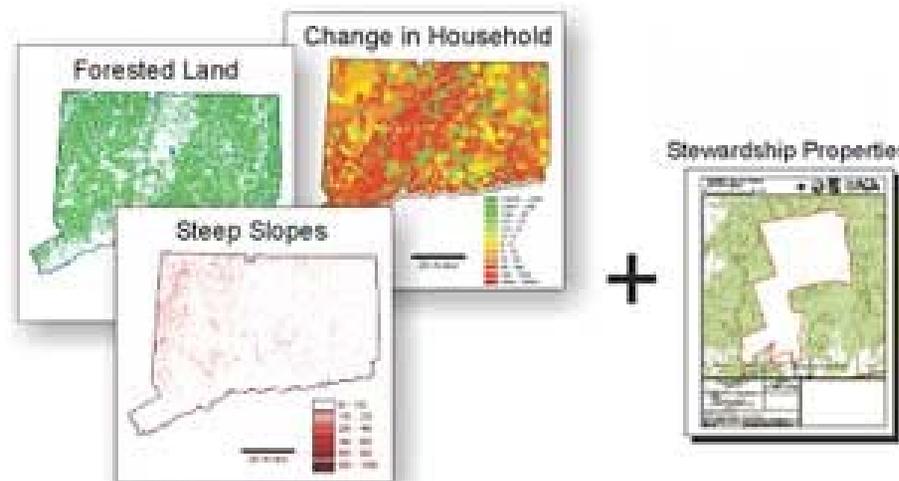


# Stewardship Spatial Analysis Initiative

Geo –Referencing and Spatial Analysis of Stewardship Tracts

## A Four State Pilot Effort

Connecticut, Maryland, Massachusetts, Missouri





# Stewardship Spatial Analysis Initiative

## Geo –Referencing and Spatial Analysis of Stewardship Tracts

### *A Planning/Reporting/Program Delivery Tool that:*

- ❖ Establishes **historical base or benchmark** for Stewardship impact – framework for focusing future efforts
- ❖ Enables **Informed Program Delivery** – creates awareness of the trade-offs involved in working in one place instead of another
- ❖ Helps Stewardship show **accountability and impact** in addressing key issues of local and national importance



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## Geo-Referencing and Spatial Analysis of Stewardship Tracts

### ***Approach:***

- 1. Stewardship Plan Database:*** GIS layer showing all Forest Stewardship Plans, and a companion attribute database
- 2. Statewide Priority Assessment:*** A composite map of eleven common data layers, the sum of which highlight areas of greatest potential stewardship benefit.
- 3. Analysis:*** In-depth analysis and display of lands covered by existing Stewardship Plans, and in light of that analysis, assess management options for the Stewardship Program.
- 4. Expansion*** in NA and introduction in other Regions



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## Geo-Referencing and Spatial Analysis of Stewardship Tracts

### ***Key Questions:***

- ❖ Where are existing Stewardship acres in this State?
- ❖ What lands offer the greatest potential for Stewardship benefit (priority lands)
- ❖ How frequently do Stewardship plans corresponded with areas State has identified as high potential for Stewardship effort?



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## Geo-Referencing and Spatial Analysis of Stewardship Tracts

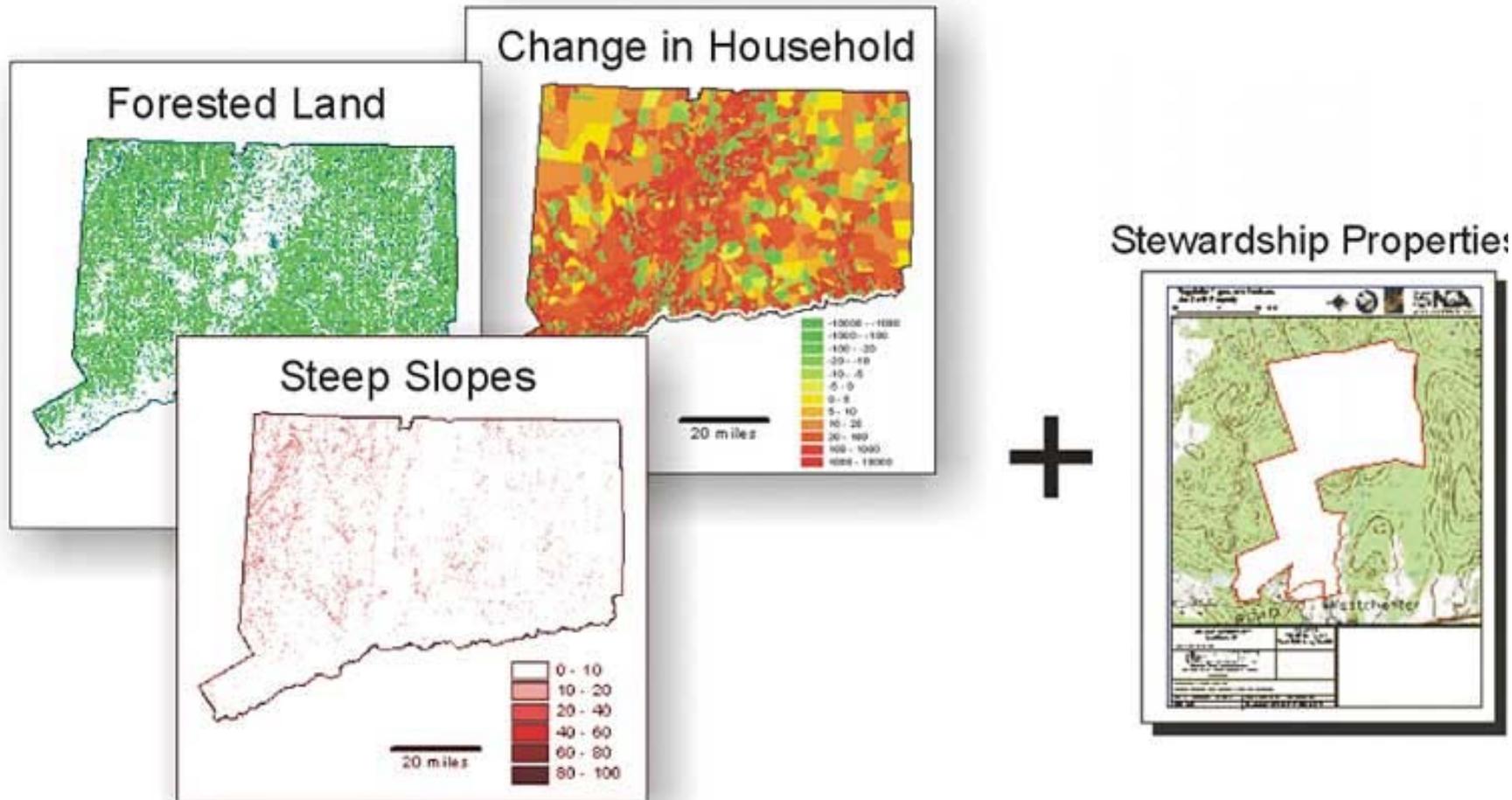
### ***Key Questions:***

- ❖ What lands appear to be suitable for increased Stewardship planning (high potential/low Stewardship activity)?
- ❖ What is the relationship between high potential lands and the application of cost share (frequency and impact)? **(Unable to answer at this time)**
- ❖ Where has Stewardship planning created the potential for more integrated service delivery?



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## Geo-Referencing and Spatial Analysis of Stewardship Tracts





## Private Forest Land, 4-Digit Hydrologic Units And Stewardship Plan Tracts



OID	NAME_4	Count_NAME_4	Sum_ACRES
0		0	0
1	Chariton-Grand-Little Chariton Basins	134	25057
2	Des Moines Basin	1	104
3	Gasconade-Osage Basins	417	69915
4	Kansas River Basin	0	0
5	Lower Mississippi-Hatchie Basins	0	0
6	Lower Mississippi-St. Francis Basins	36	10230
7	Missouri River Basin	315	49171
8	Missouri-Nishnabotna Basins	51	5845
9	Neosho-Verdigris Basins	5	1150
10	Upper Mississippi-Kaskaskia-Meramec Basins	124	30246
11	Upper Mississippi-Salt River Basins	132	27141
12	White River Basin	548	135154



# Stewardship Spatial Analysis Initiative

## Geo-Referencing and Spatial Analysis of Stewardship Tracts



PMAS Missouri		1996	1997	1998	1999	1998-1999 Difference	Percent Difference	2000	1999-2000 Difference	Percent Difference
Revised Forest Stewardship Plans (acres)										
Revised Forest Stewardship Plans (# of Plans)										
Forest Stewardship Plans (acres)		34,320	52,628	45,500	32,520	-12,980	-29	19,805	-12,715	-39
Forest Stewardship Plans (# of Plans)		218	272	325	271	-54	-17	112	-159	-59
Forest Management Plans (not Stewardship) # Acres										
Forest Management Plans (not Stewardship) # Acres		29,032		3,500	4,500	1,000	29	3,444	-1,056	-23
		206		25	76	51	204	53	-23	-30
Stand Establishment										
	Regeneration: Natural or Artificial Reforestation/Afforestation	385	1,108	151	120	-31	-21	461	341	284
						-800	-36	2,669	1,219	84
Forest Stand Improvement										
	Objective - Wood Fiber Production			3,010	2,910	1,960	-950	-33	4,985	3,025
	Objective - Wildlife Enhancement	1,177	1,478	1,539	368	-1,171	-76	1,716	1,348	154
	Objective - Watershed/Fishery Protection	161	117	121		-121	-100	12	3,269	3,269
	Objective - Fire									100
	Objective - Insects and Disease									100
	Objective - Stand Improvement: Prevention from Grazing		1,415	1,250		-1,250	-100	82	82	100
Recreation and Archaeological Enhancement (acres)										
	Trails Constructed (Miles)							74	74	100
Wood Harvested										
	Sawtimber Harvested (MBF)			1,180	315,133	313,953	26,606	3,486	-311,647	-99
	Sawtimber Harvested (MCF)									
	Roundwood Harvested (Cords)									
	Roundwood Harvested (Tons)									
CWAP Category1: # Plans										
	CWAP Category1: # Acres							104	104	100
								18,177	18,177	100
State Assists										
	Referrals to Consultants	2,928			3,416	3,416	100	3,025	-391	-11
	State Cost Share Payments (dollars)		120,000	100,000	129	129	100	79	-50	-39
	Workshops/Seminars/Conferences (person days)					-100,000	-100	657,190	657,190	100
Seed Harvested/Procured (pounds)										
	Superior				10,000	10,000	100	11,672	1,672	17
	Known Seed Source				5,500	5,500	100	4,725	-775	-14
	Unknown seed Source				107,910	107,910	100	123,000	15,090	14
	Non traditional							1,512	1,512	100
Seedlings Produced/Procured (M seedlings)										
	Superior				620	620	100	630	10	2
	Known Seed Source	3,750			476	476	100	35	-441	-93
	Unknown seed Source				3,963	3,963	100	3,335	-648	-16
	Non traditional							1,500	1,500	100
Seeding Distribution (M Seedlings)										
	Federal Agencies			83				87	87	100
	State Agencies	3,750			418	418	100	215	-203	-49
	Forest Industry				97	97	100	97	-97	-100
	NIPF Owners	2,930			3,275	3,275	100	4,284	1,009	31
	Other				416	416	100	180	-236	-57
RNCR State Assists										
RNCR Referrals to Consultants										
RNCR Workshops/Seminars/Conferences (person days)										
Tree Planting including seeding on NIPF Lands (acres)										
	Seeding on NIPF Lands (acres)	209	1,108	2,250	1,450	-800	-36	2,669	1,219	84
	Timber Stand Improvement on Non-Industrial Lands (acres)	1,177			2,328	2,328	100	1,716	-612	-26
Tree Planting including seeding on Forest Industry Lands (acres)										
	Seeding on Forest Industry Lands (acres)									
	Timber Stand Improvement on Forest Industry and Other Industry Lands (acres)									
Tree Planting including seeding on Other Industry Lands (acres)										
	Seeding on Other Industry Lands (acres)									
Tree Planting including seeding on State Forest Lands (acres)										
	Seeding on State Forest Lands (acres)	1,000			629	629	100	742	113	18
	Timber Stand Improvement on all State and Local Government Lands (acres)				655	655	100	459	-196	-30
Tree Planting including Seeding on Other State Owned Lands (acres)										
	Seeding on Other State Owned Lands (acres)									
Tree Planting including Seeding on Local Government Lands (acres)										
	Seeding on Local Government Lands (acres)									
Nursery Production by Forest Industry (M Trees)										
	Nursery Production by Other Private Growers (M Trees)	3,000			99	99	100	4,800	4,701	4,748
	Nursery Production by State Nurseries (M Trees)	3,750			4,073	4,073	100	5,500	1,427	35
	Nursery Production by Local Government (M Trees)			1,000	400	-600	-60	-400	-400	-100

1998 data for Seedlings procured from known and unknown seed source most likely off by a factor of 1000. Original submission revised to reflect this.