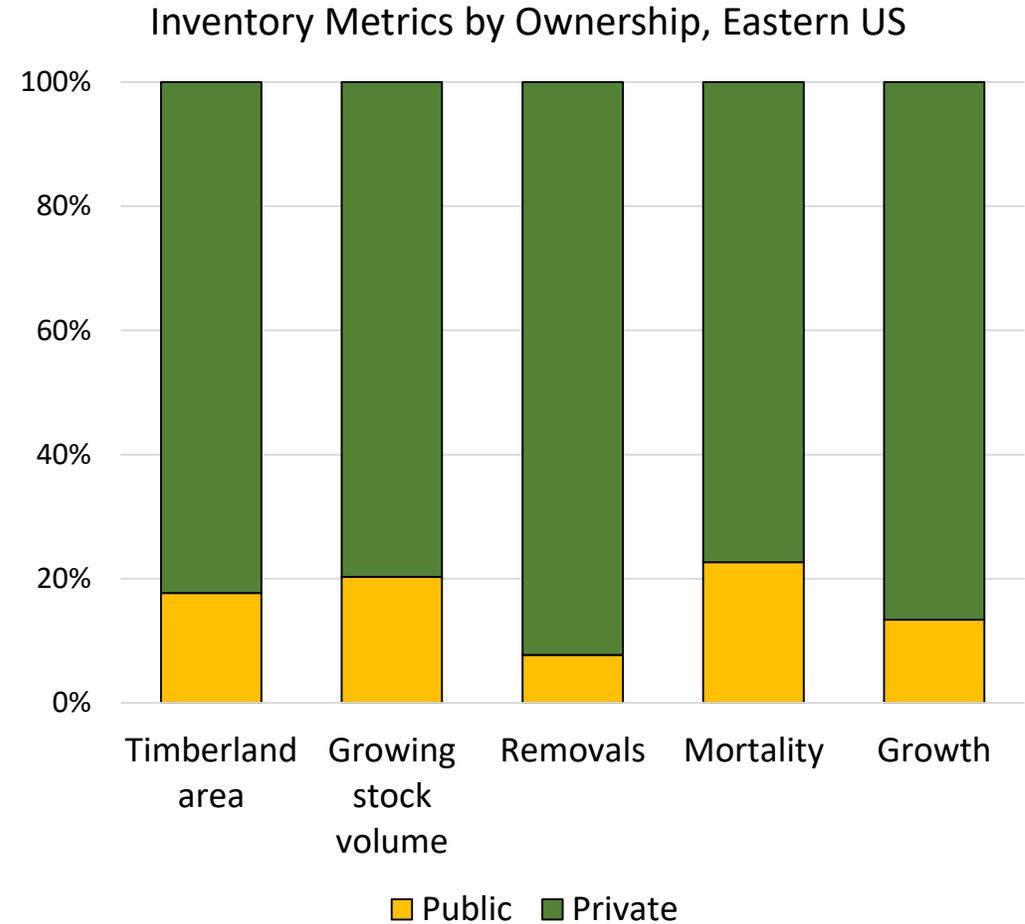
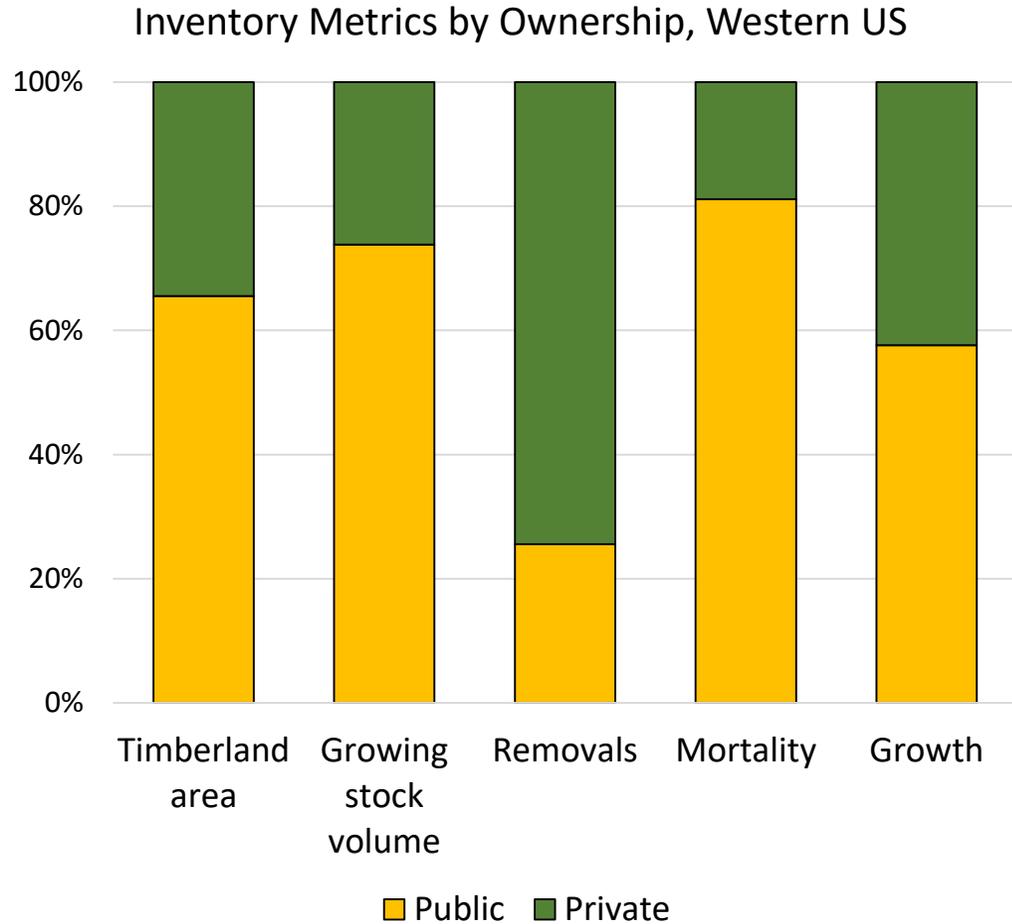


The Need for Ownership Information: A User Perspective

Steve Prisley, NCASI
2017 FIA User Group Meeting
April 4th-5th
Madison, WI

Inventory by Ownership



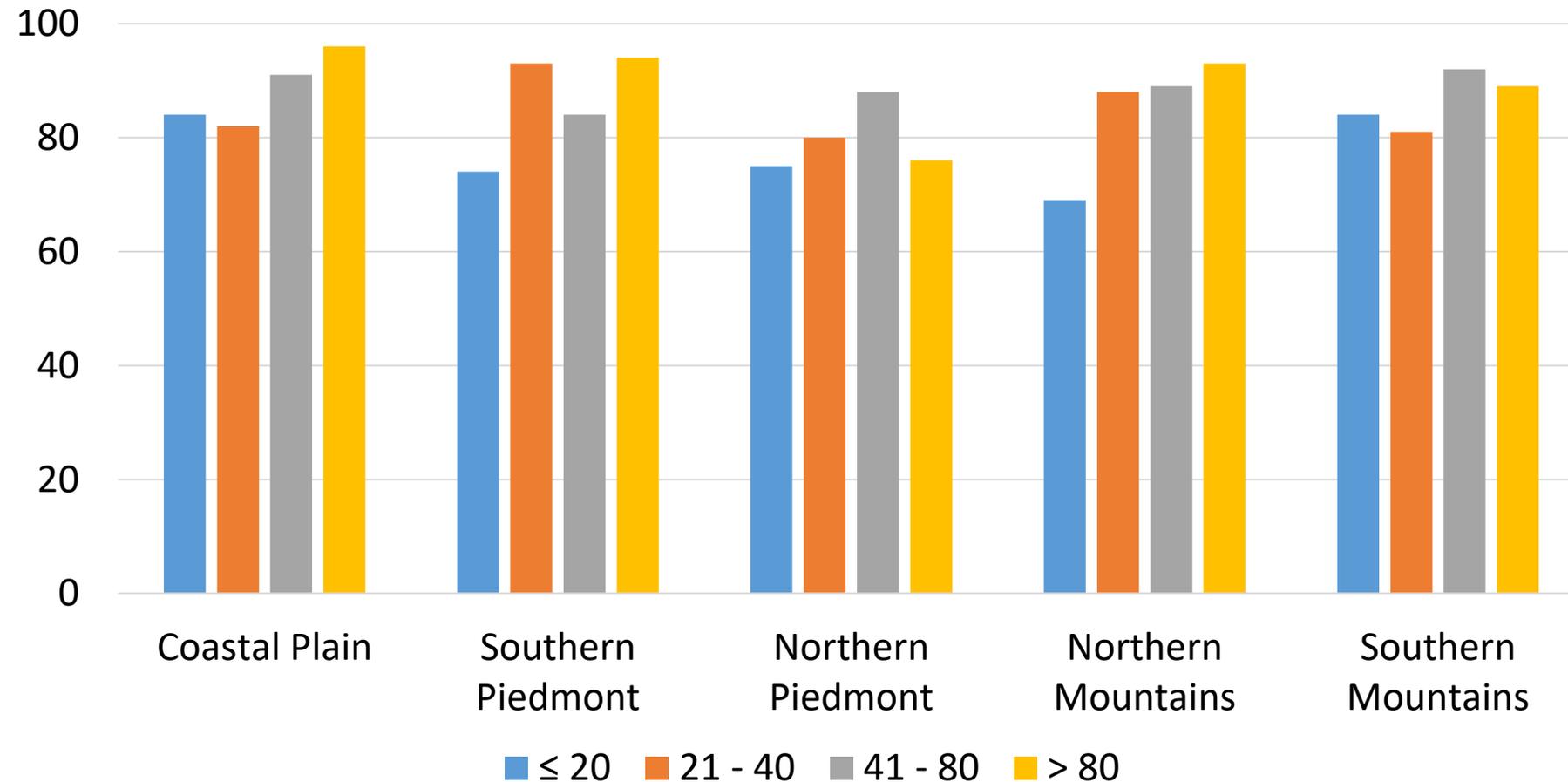
From Oswalt, et al. 2014

Knowledge of Forest Landowners is Critical for Landscape-level Planning

- On public lands, management is heavily regulated and prescribed by agency directives
- On private lands, the landowner dictates management and therefore productivity, production or preservation, species, etc.
- Assumptions about landowner behavior drive model outcomes
- To what extent is landowner behavior predictable?

Virginia Landowner Survey

Percent of Surveyed Landowners Favorable Towards Timber Harvest
by Region and Tract Size (acres)



Wisconsin Landowner Willingness to Harvest

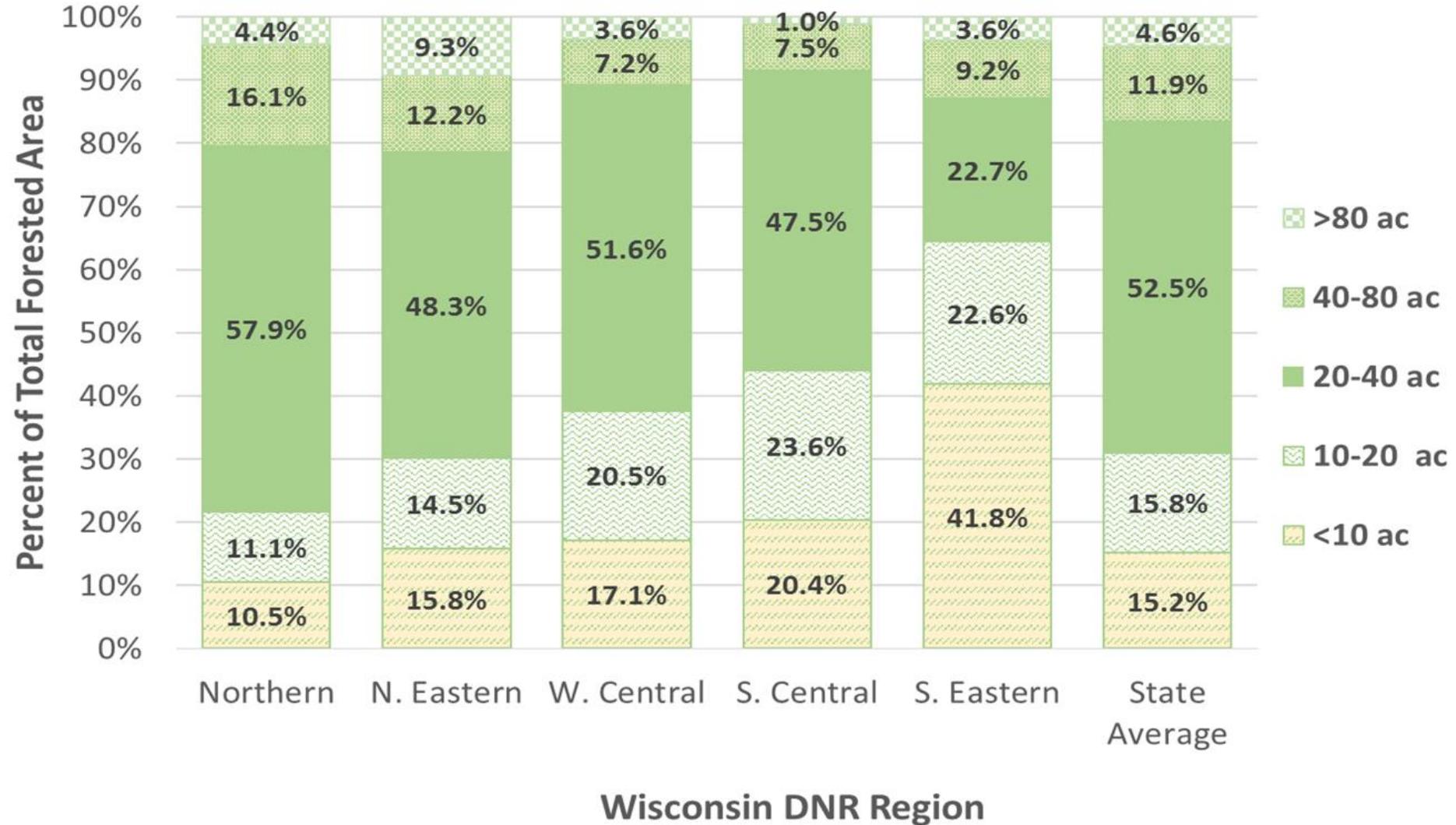
Percentage of landowners considered to be willing to harvest timber
by forested tract size and region

Parcel size (ac)	Northeastern	Northern	West Central	South Central	Southeastern
< 20	24.4	20.8	36.4	28.6	28.6
21 – 40	37.3	47.3	45.0	32.3	32.3
41 – 80	52.3	35.8	52.8	57.1	57.1
> 80	63.6	58.3	66.7	61.7	61.7

*Survey sample did not include Southeastern region;
numbers for South Central were used*

Source: Melinda Vokoun, UW-SP; Wisconsin Forest Practices Study

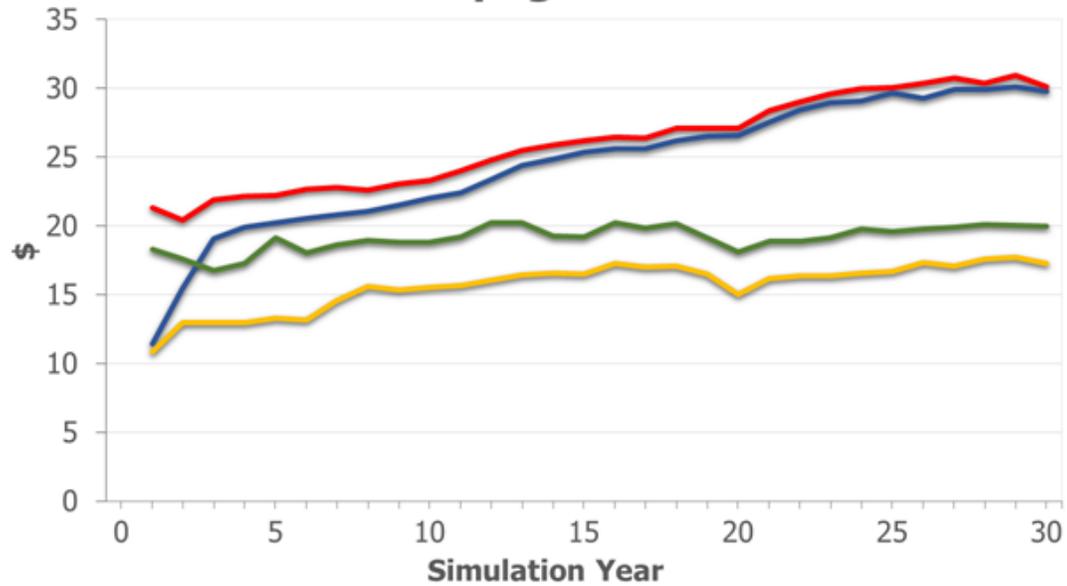
Wisconsin Forest Area by Tract Size



Sensitivity Analysis: Landowner willingness

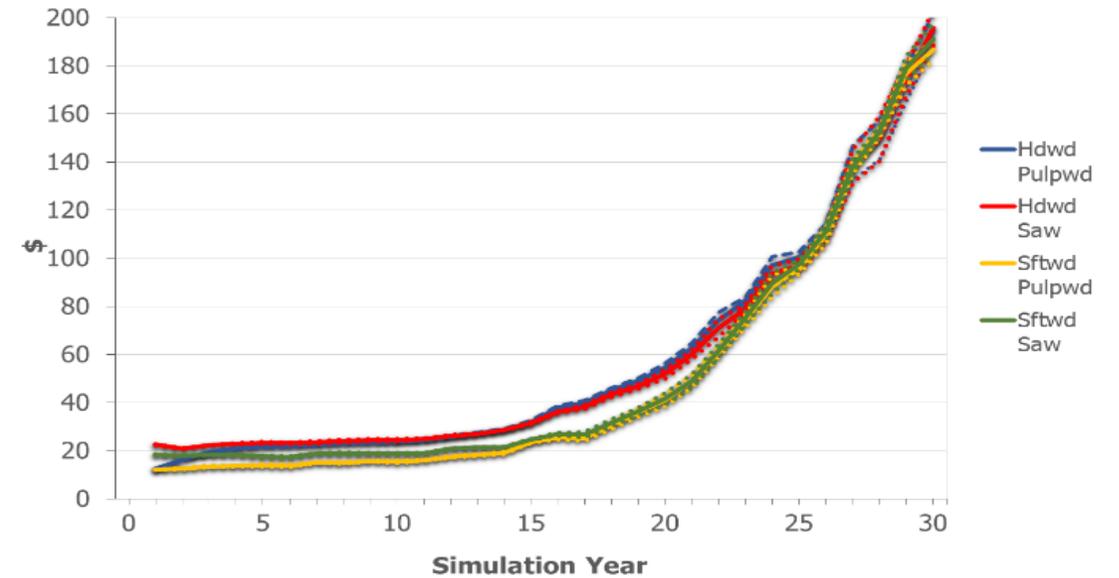
All willing

Stumpage Price



Reduced willing

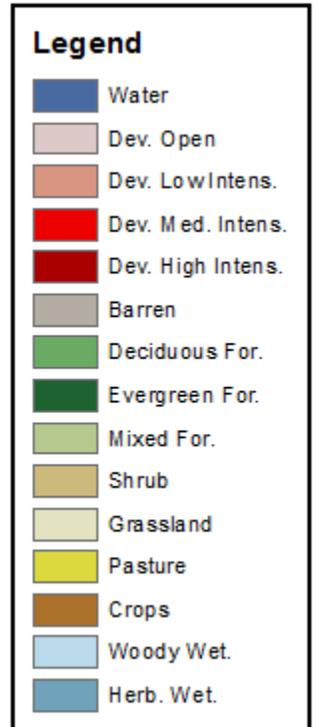
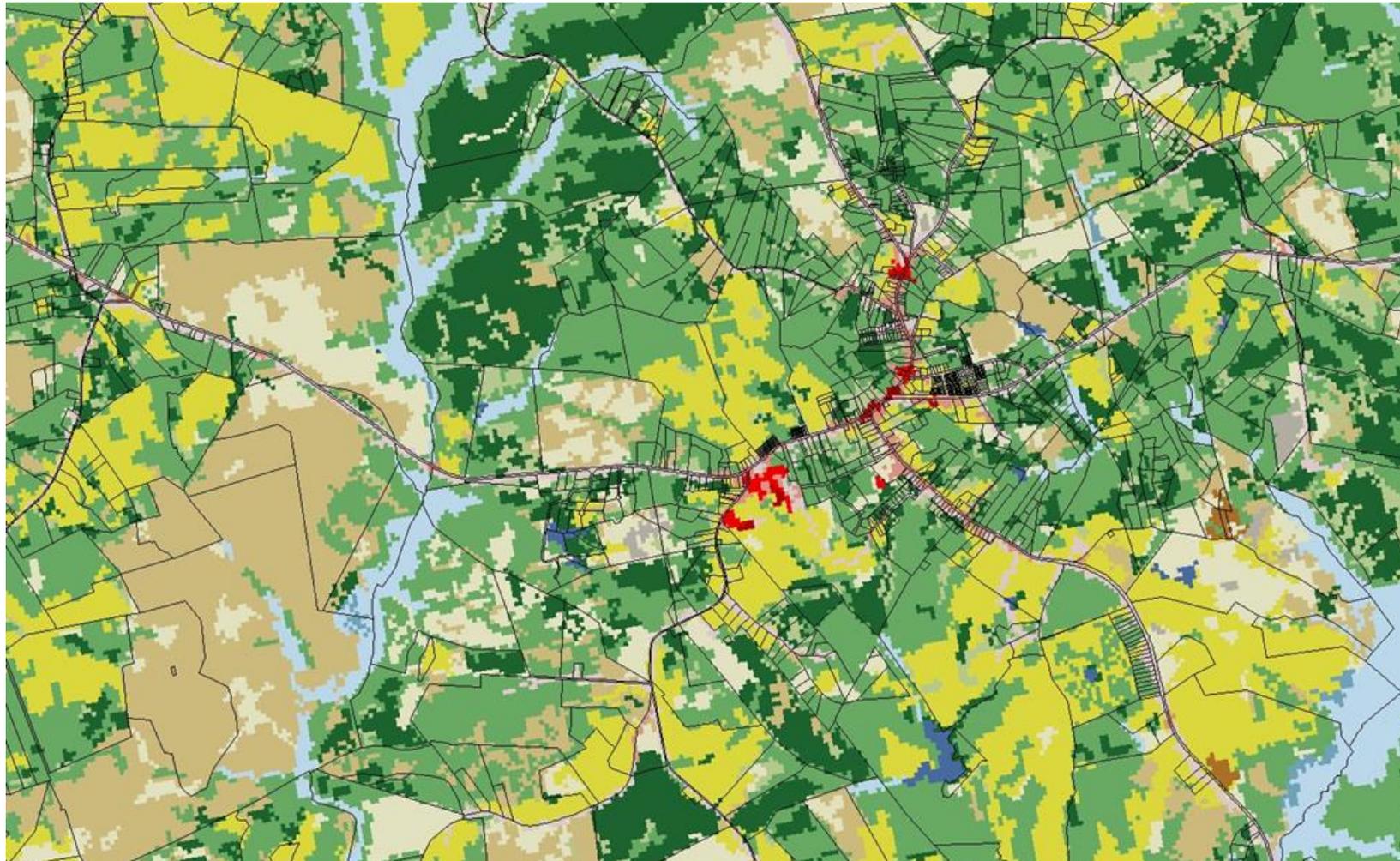
Stumpage Price (+SD)



Forest ownership patterns

Portion of Charlotte County, near Charlotte County Courthouse

- 82% of Virginia's forests are privately owned
- Smaller parcels less likely to support a harvest

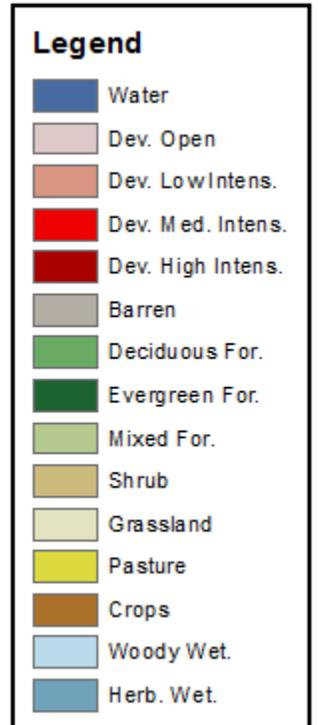
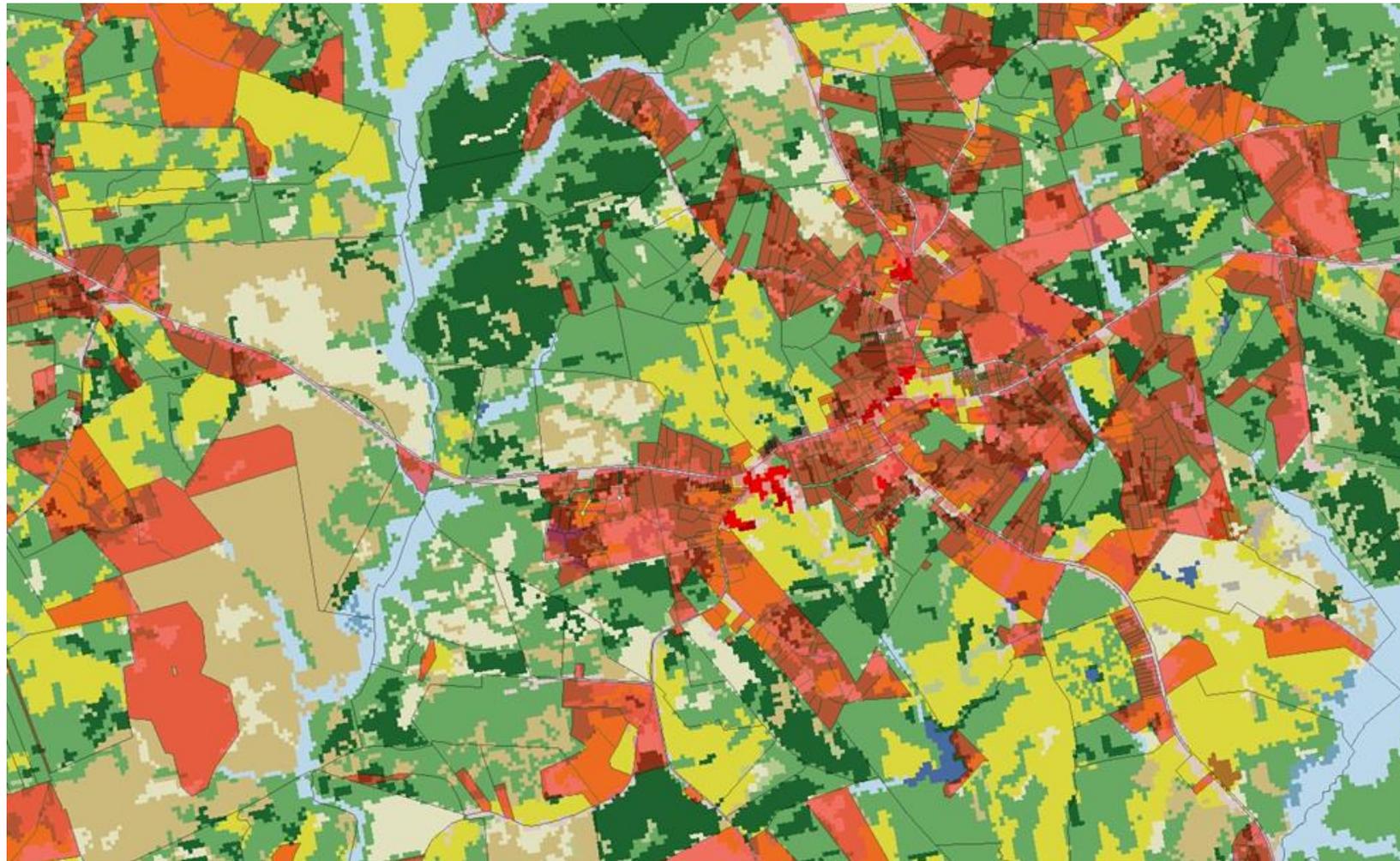


Data: National Land Cover Dataset, Charlotte County parcels

Forest ownership patterns

Parcels with less than 10 acres of forest highlighted in red

- How much private forest is in small parcels?

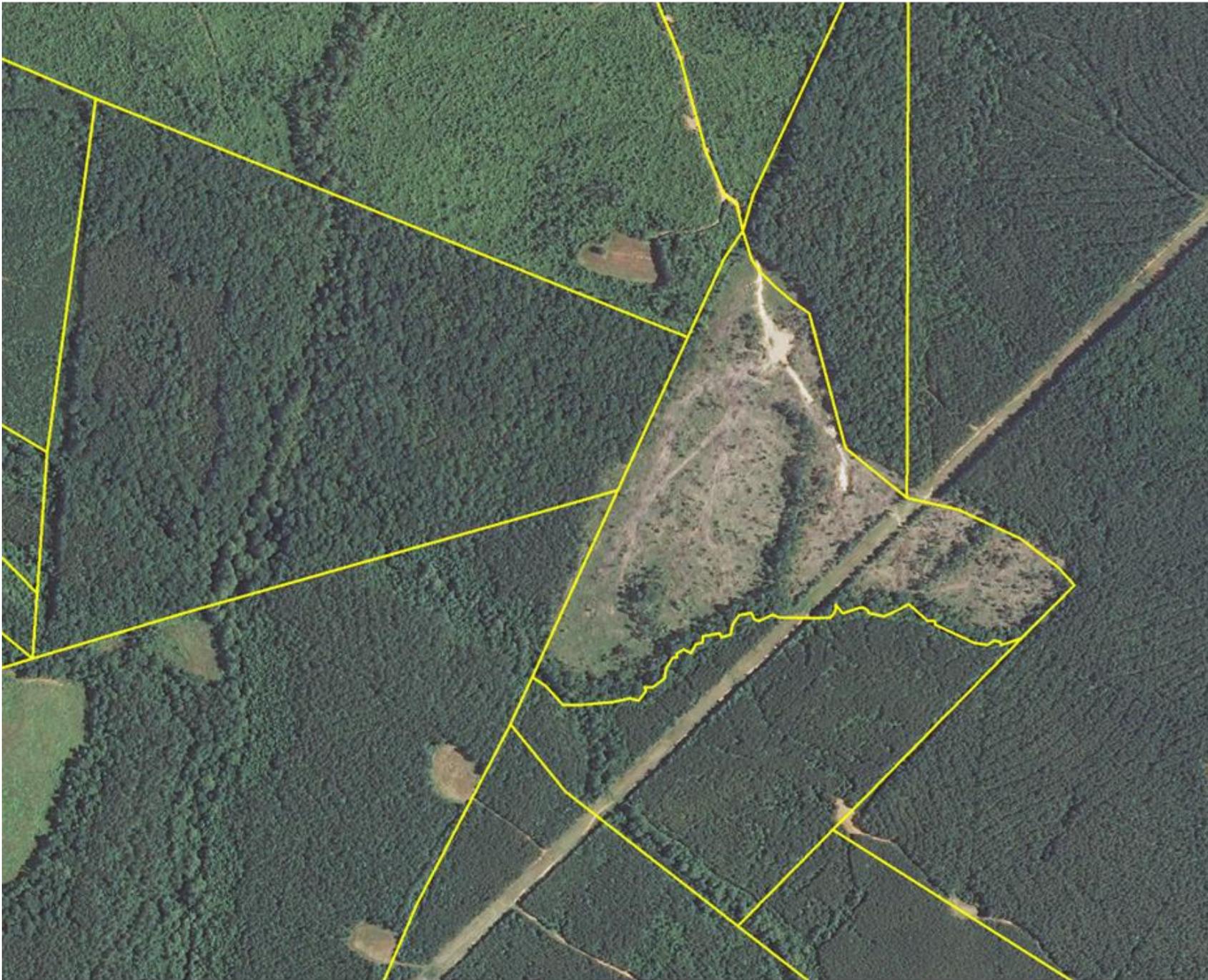


Data: National Land Cover Dataset, Charlotte County parcels

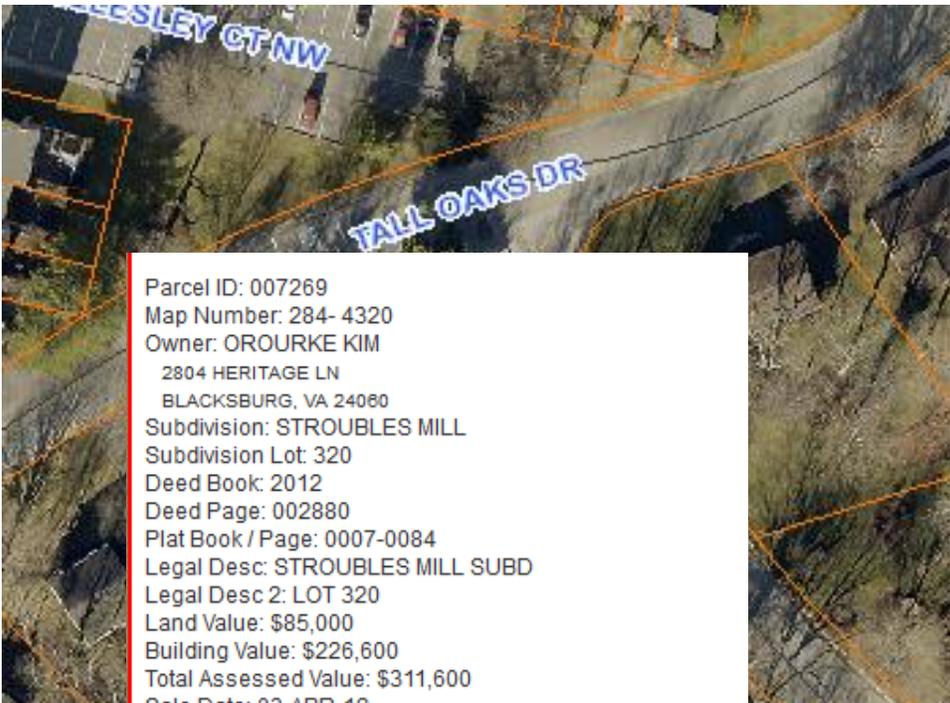
Predicting Behavior

By Tyler Hemby;
research using ESRI
Tapestry segments
and conservation
easement datasets

		# of Block Groups			Percent with Easements
		No easements present	≥1 easement present	Total	
>1 Std. Deviation Above Mean	Prairie Living	2	7	9	78%
	The Great Outdoors	20	51	71	72%
	Rooted Rural	77	139	216	64%
	Rural Resort Dwellers	17	30	47	64%
	Salt of the Earth	62	86	148	58%
	Southern Satellites	62	76	138	55%
	Green Acres	64	77	141	55%
	Silver & Gold	15	13	28	46%
	Rural Bypasses	64	55	119	46%

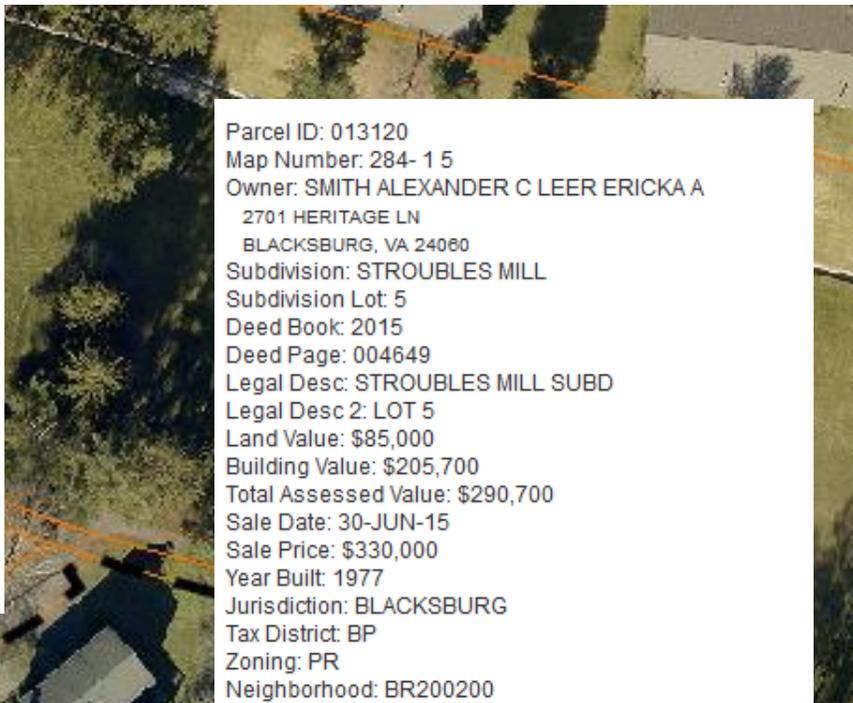


A great deal of information about forested landowners is widely available

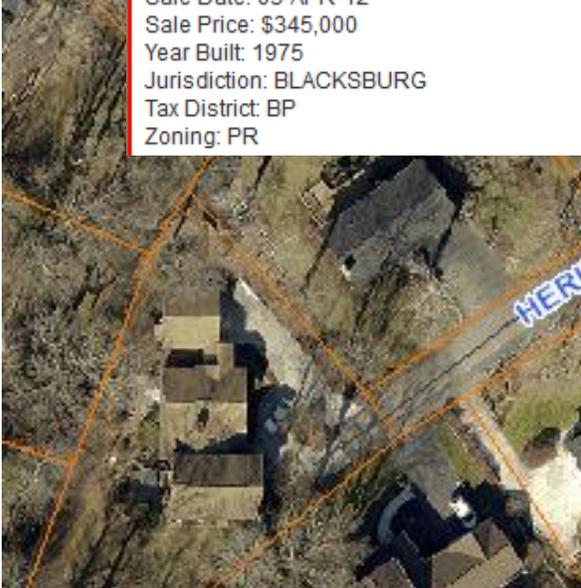


Parcel ID: 007269
Map Number: 284- 4320
Owner: OROURKE KIM
2804 HERITAGE LN
BLACKSBURG, VA 24060
Subdivision: STROUBLES MILL
Subdivision Lot: 320
Deed Book: 2012
Deed Page: 002880
Plat Book / Page: 0007-0084
Legal Desc: STROUBLES MILL SUBD
Legal Desc 2: LOT 320
Land Value: \$85,000
Building Value: \$226,600
Total Assessed Value: \$311,600
Sale Date: 03-APR-12
Sale Price: \$345,000
Year Built: 1975
Jurisdiction: BLACKSBURG
Tax District: BP
Zoning: PR

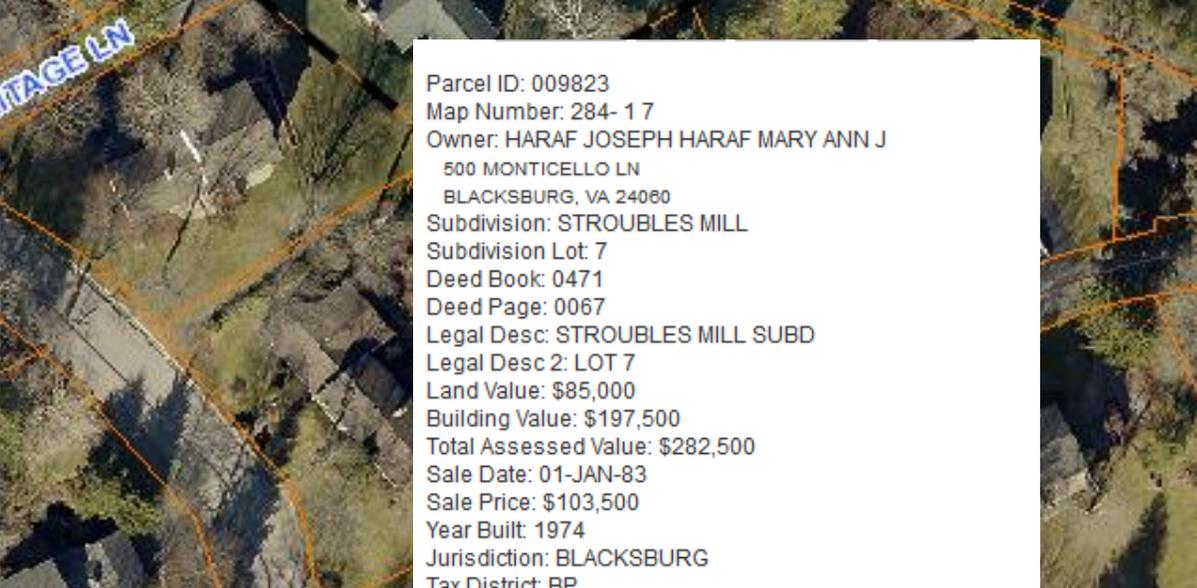
Parcel ID: 006329
Map Number: 284- 1 4
Owner: WIDDOWSON MARK A WIDDOWSON BETH A
2700 HERITAGE LN
BLACKSBURG, VA 24060
Subdivision: STROUBLES MILL
Subdivision Lot: 4
Deed Book: 0771
Deed Page: 0088
Plat Book / Page: 0771-0098
Legal Desc: STROUBLES MILL SUBD
Legal Desc 2: LOT 4
Land Value: \$100,000
Building Value: \$202,100
Total Assessed Value: \$302,100
Sale Date: 01-JAN-92
Sale Price: \$141,000
Year Built: 1979
Jurisdiction: BLACKSBURG
Tax District: BP
Zoning: PR



Parcel ID: 013120
Map Number: 284- 1 5
Owner: SMITH ALEXANDER C LEER ERICKA A
2701 HERITAGE LN
BLACKSBURG, VA 24060
Subdivision: STROUBLES MILL
Subdivision Lot: 5
Deed Book: 2015
Deed Page: 004649
Legal Desc: STROUBLES MILL SUBD
Legal Desc 2: LOT 5
Land Value: \$85,000
Building Value: \$205,700
Total Assessed Value: \$290,700
Sale Date: 30-JUN-15
Sale Price: \$330,000
Year Built: 1977
Jurisdiction: BLACKSBURG
Tax District: BP
Zoning: PR
Neighborhood: BR200200



Parcel ID: 019320
Map Number: 284- 1 6
Owner: COWAN HEATHER E
2703 HERITAGE LN
BLACKSBURG, VA 24060
Subdivision: STROUBLES MILL
Subdivision Lot: 6
Deed Book: 2015
Deed Page: 003677
Legal Desc: STROUBLES MILL SUBD
Legal Desc 2: LOT 6 SEC 1
Land Value: \$85,000
Building Value: \$189,300
Total Assessed Value: \$274,300
Sale Date: 26-MAY-15
Sale Price: \$393,750
Year Built: 1973
Jurisdiction: BLACKSBURG
Tax District: BP
Zoning: PR
Neighborhood: BR200200



Parcel ID: 009823
Map Number: 284- 1 7
Owner: HARAF JOSEPH HARAF MARY ANN J
500 MONTICELLO LN
BLACKSBURG, VA 24060
Subdivision: STROUBLES MILL
Subdivision Lot: 7
Deed Book: 0471
Deed Page: 0067
Legal Desc: STROUBLES MILL SUBD
Legal Desc 2: LOT 7
Land Value: \$85,000
Building Value: \$197,500
Total Assessed Value: \$282,500
Sale Date: 01-JAN-83
Sale Price: \$103,500
Year Built: 1974
Jurisdiction: BLACKSBURG
Tax District: BP
Zoning: PR
Neighborhood: BR200200

Summary

- Understanding forest dynamics and wood supply requires knowledge of landowners roles in the landscape: attitudes, property characteristics, and behavior.
- A wide array of information about landowners is publicly available
- However,
 - Huge differences between private nonindustrial landowners and institutional forest owners are obscured in publicly available FIA data.
 - This is a major hindrance to estimating timber availability and woodshed dynamics.