

# Forestry and Forest Industry in Virginia

# Charlie Becker Utilization and Marketing Manager



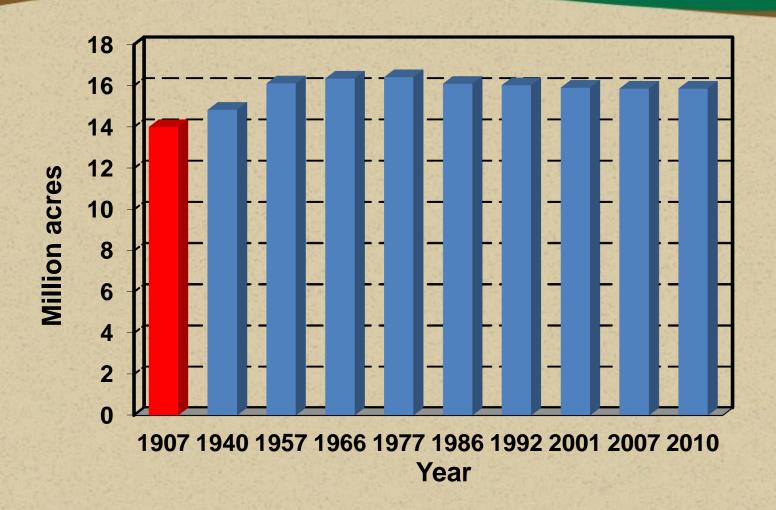
## **Virginia Forest Cover**



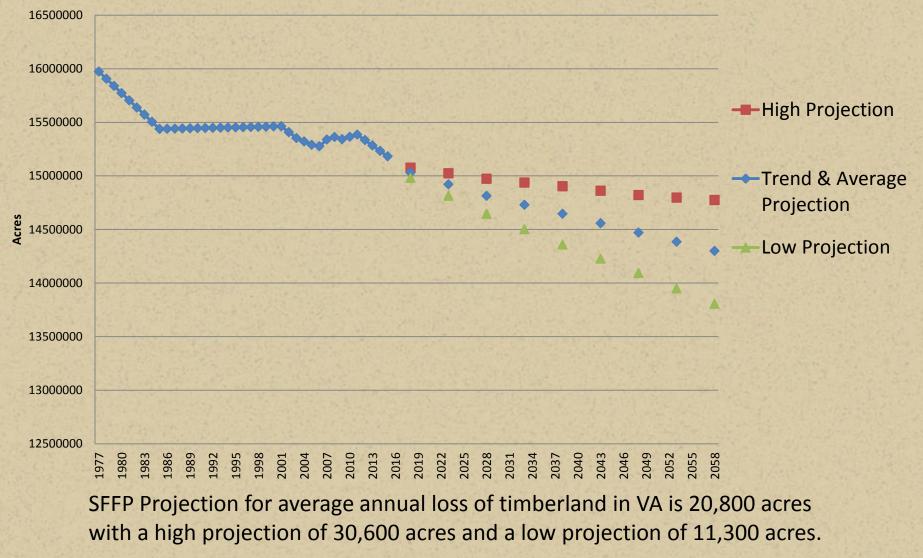
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# **Virginia Forestland Acres**

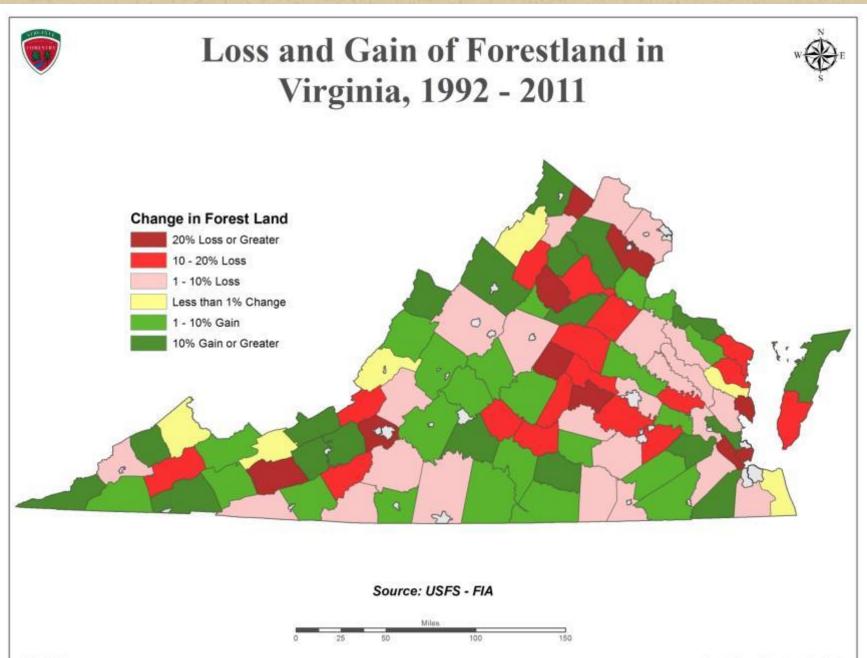
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### Trend & Projection of Timberland area for Virginia (Southern Forest Futures Project & FIA)

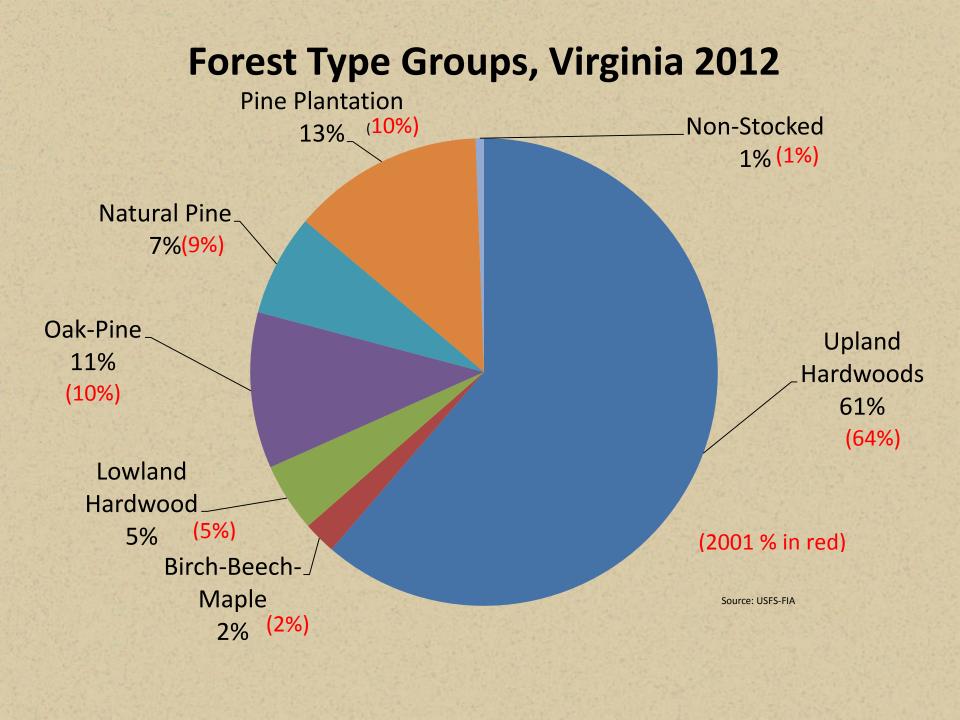


Source: USFS - FIA & SFFP

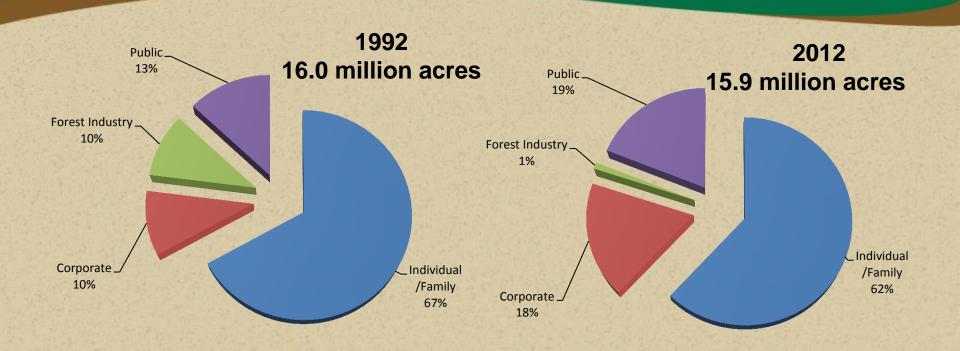


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### **Forest Ownership**



Reduction in total acres since 1992.

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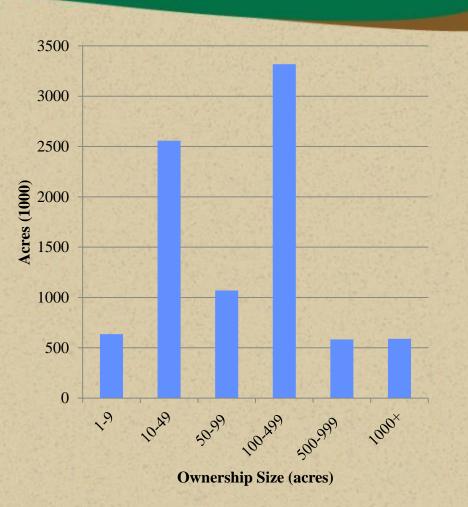
Most significant reduction of ownership has been with forest industry.



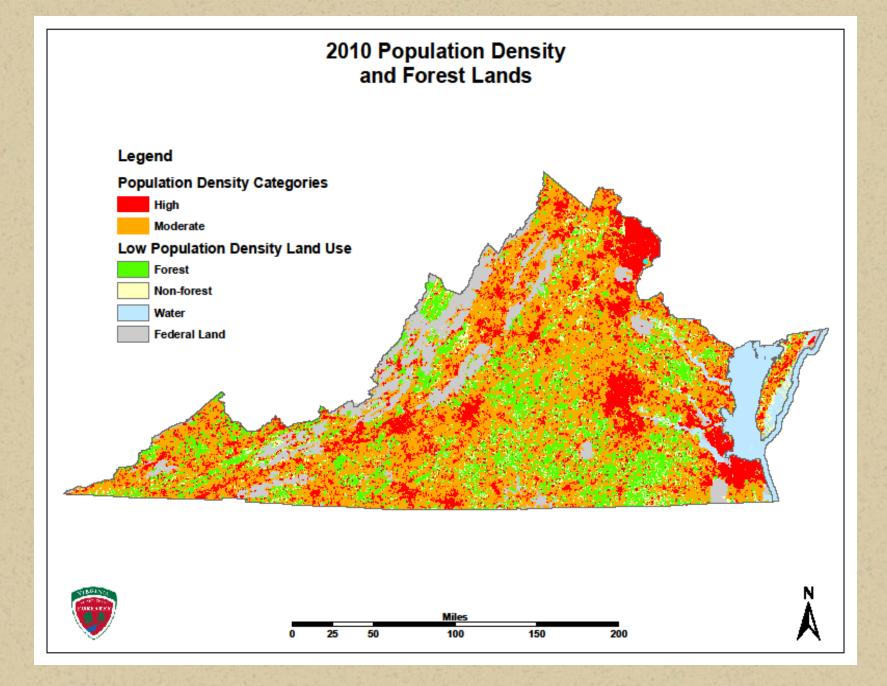
# Non-Industrial Private Forest Ownership

### <u>374,000</u> landowners

- 1/3 of private forest land is in tract of less than 50 acres
- Reasons for owning: beauty, protect environment, land investment, home site
- Availability and cost of raw material impacts markets and products



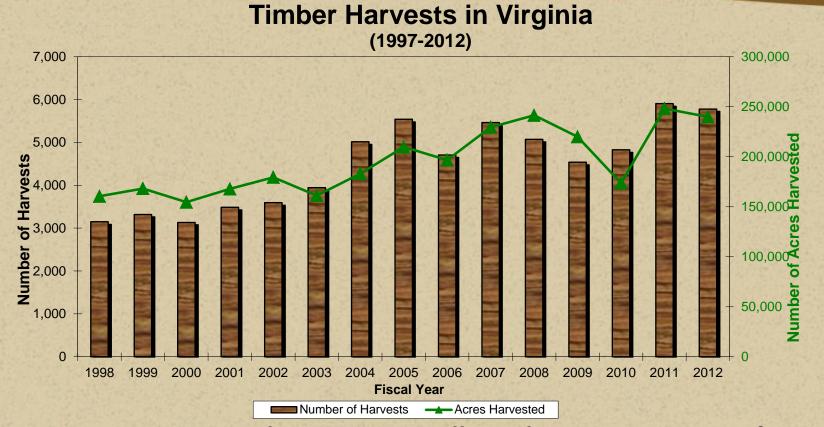
source: National Woodland Owners Survey http://www.fia.fs.fed.us/nwos



# **Protecting Virginia's Water Quality**

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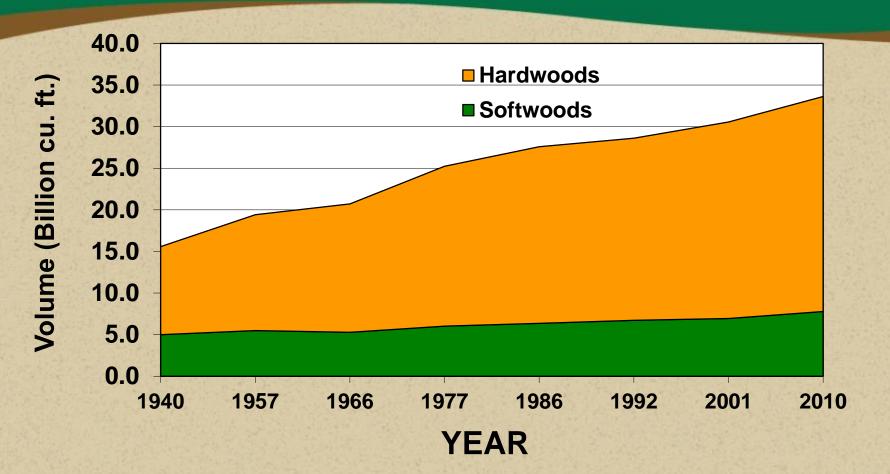
VDOF inspects over 5,000 harvests annually with an average size of 40 acres.

### **Forest Growth**

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#### (Volume of Live Trees on All Timberland)

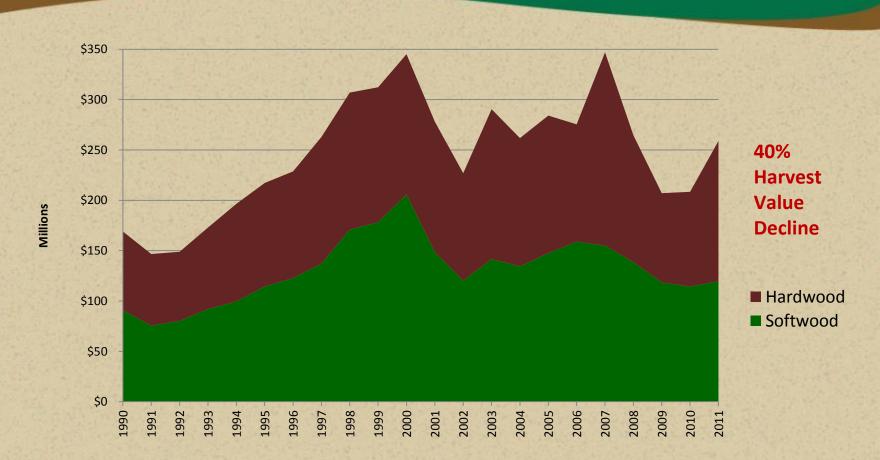


Since 1940, total volume has more than doubled from 15.5 to 33.6 billion cubic feet.

# **Stumpage Values**

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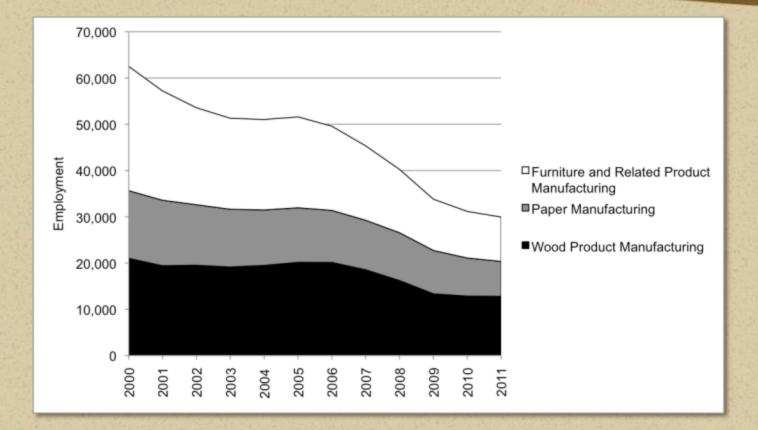
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# **Industry Trend**

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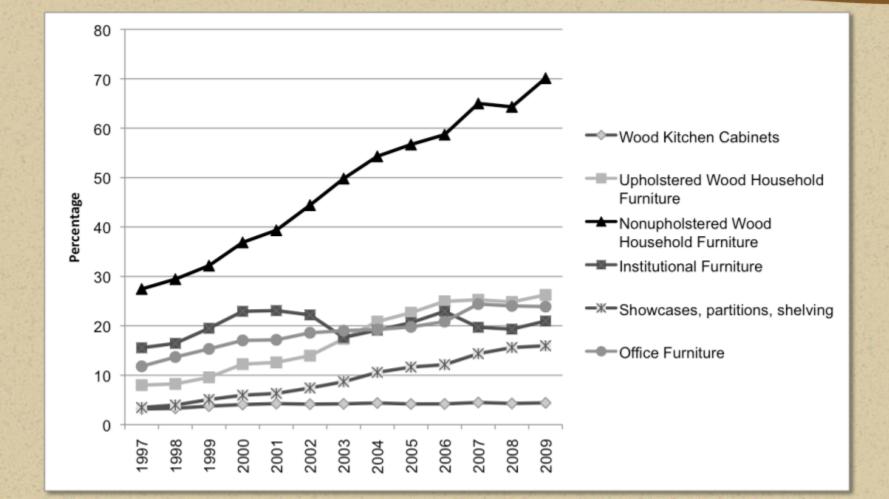
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### Imports

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# **Industry Trend**

### Number of wood-using mills by type, Virginia, 1992-2009

	Sawmills	Veneer or plywood mills	Pulpmills	Composite panel mills	Other mills
1992		The second states	9		14
1995		a has a for the second of the second	9		15
1999	The second second second second		9	and the second states and the second	16
2001	217	the state of the state of the	9	111 A 491 A 1992 A 199	14
2003		The second s	9	3	13
2005	168	4	8	3	13
2007	155	4	8	3	9
2009	129	3	8	3	8

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# Impacts of Forestry-Related Industries

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Impact	Output (Million \$)	Employment	Value-added (Million \$)
Direct	8,855	37,704	3,154.0
Indirect	2,231	14,010	1,407.0
Induced	6,131	52,133	4,187.0
Total	17,217	103,848	8,748.0
Multiplier	1.94	2.75	2.77

# **Exports**

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#### Direct, Indirect, and induced Impacts of Impact of Virginia's Forestry-Related Industry Exports, 2011

Forestry Total	Output (Million \$)	Employment	Value Added (Million \$)
Direct Effect	789.3	2,723	275.0
Indirect Effect	319.3	2,114	175.1
Induced Effect	473.8	3,987	331.7
Total Effect	1582.4	8,824	781.9

## **Expected New User of Forest Resource**

- Enviva Pellet Mills (1 VA, 2 NC) & Export Facility
  IP Franklin Mill (270,000 tons fluff pulp)
- Franklin Sawmill (60 mmbf)
- Klausner Number 2 Sawmill (300 mmbf)(NC)
- 4 Dominion Biomass Power Plants (200 mw)
- NOVEC Biomass Power Plant (50 mw)
- MeadWestvaco Biomass Power Project (68 mw)
- Piedmont BioProducts (wood pyrolysis oil)

## **Forest-Related Takeaways**

- Continued loss and fragmentation of forest land, along with other competing forest uses will affect future availability of wood resources.
- Invasive species will have varying degrees of impact on forest products and industry. ex. Emerald Ash Borer, Thousand Cankers Disease, Southern Pine Beetle, Ailanthus, Asian Longhorn Beetle, Hemlock Woolly Adelgid, Sirex, Gypsy Moth, etc.
- Improved seedlings and growing techniques can offset some of these concerns by growing more and specialized wood on fewer acres.

# VDOF – VA Tech Forest Products-Related Projects

- Several projects funded through USDA Grants (FS Redesign, EAP, RD, RC&D, etc.)
- Most require applied part to project. Usually education, demos, pilot project.
- Focus is mostly on improving utilization and marketing of Virginia's forest products
- Several focused on developing markets to also improve forest management and health.

## **Sample of Projects**

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- Analysis of manufacturing wood waste/residues and markets
- Feasibility of utilizing small diameter logs for hardwood lumber
- Controlling invasive species through utilization (Ailanthus)
- Developing Community Wood Energy
- Forest resource analyses

## **Sample of Projects**

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Increasing urban and wood waste utilization

- Primary and secondary forest industry directories development
- VA Forest-Based Economic Development Council
- Forest certification, chain of custody
- International marketing of forest product
- Cross-Laminated Timber (CLT) panels
- Specialty Forest Products Charcoal/biochar

# **Additional Information**

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