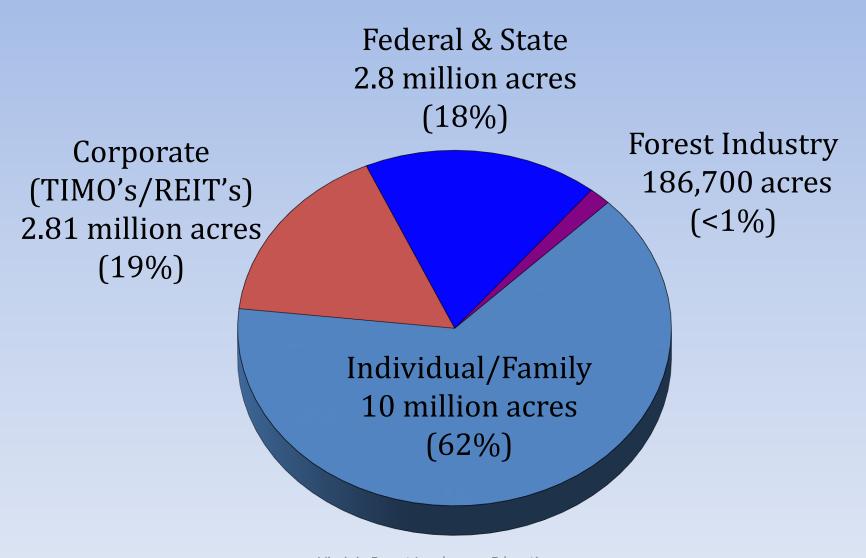
Challenges to Sustainable Forestry: Fragmentation

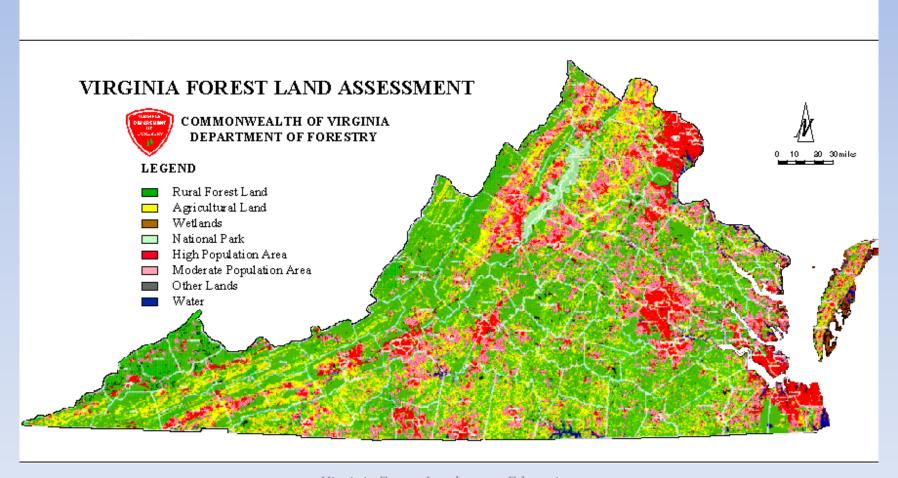


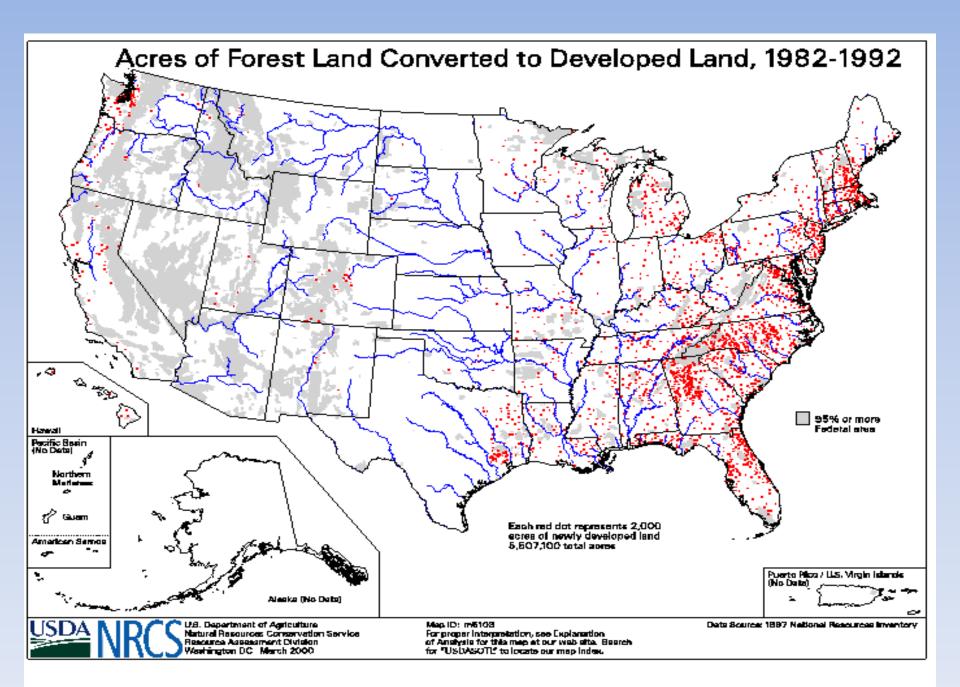
Forest Land Ownership in Virginia

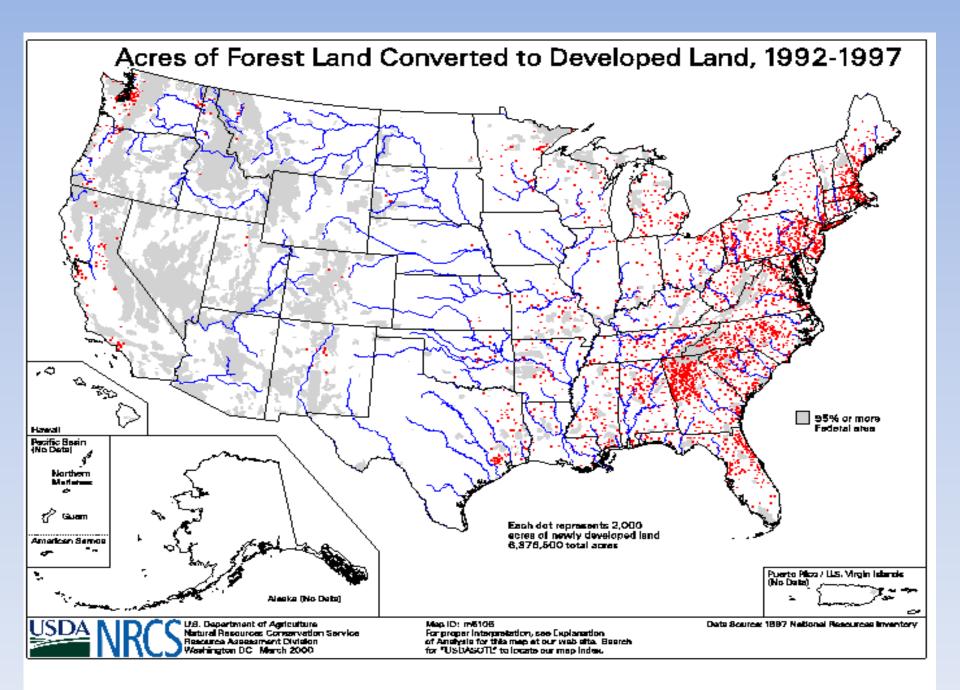


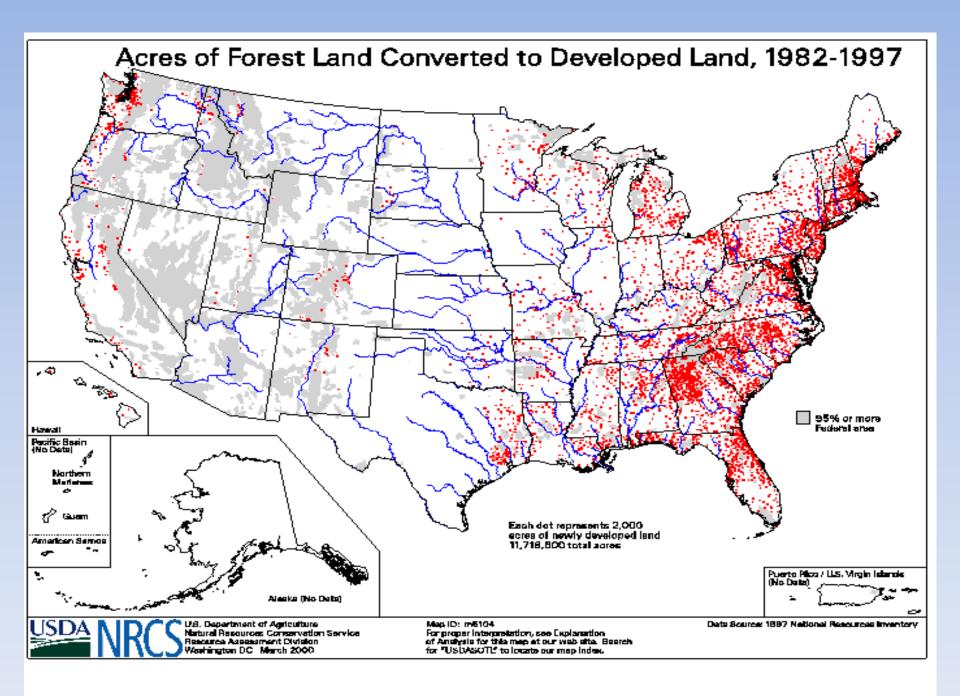
Virginia Forest Landowner Education
Helping Virginians Keep Their Forests Healthy & Productive
Real Forestry for Real Estate

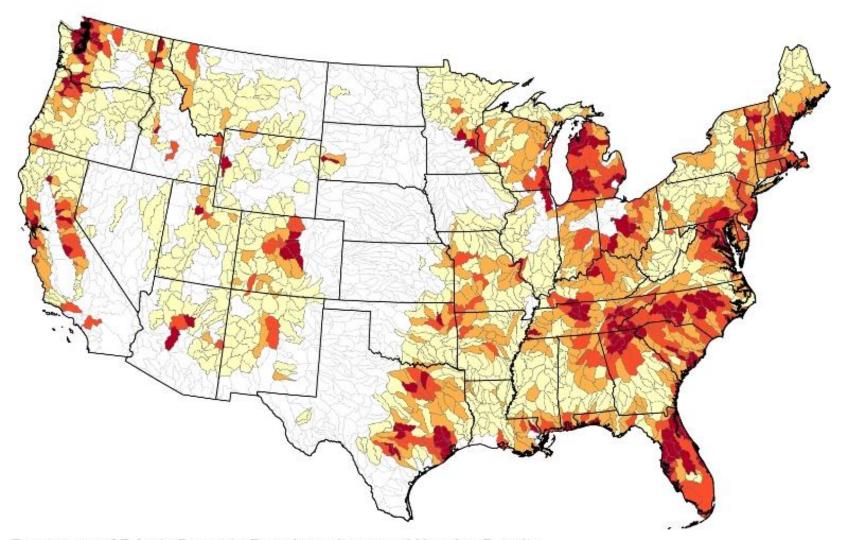
• In 2010, 27,000 acres of forestland were converted to other uses











Percentage of Private Forest to Experience Increased Housing Density

- 90th percentile (36.51 to 72.35% private forest to be developed)
- 75th percentile (23.47 to 36.50% private forest to be developed)
- 50th percentile (10.86 to 23.46% private forest to be developed)
- Less than 50th percentile (0.00 to 10.85% private forest to be developed)
 - Insufficient private forest for this analysis

Trends

- Forest landbase
- Number of private landowners
- Ownership tract acreage
- Tenure of ownership
- Development pressure
- New/different owners





Large-lot Zoning

- Requires a minimum lot size for homes generally at least 10 areas
- Intent is to maintain open/rural atmosphere





Large-lot Zoning

- Loudoun County 2/3 limited to 1 house per 10 or 20 acres
- Fauquier County 3/4 of land outside standard subdivision densities
- Two times as much land is being consumed by residential development in 'rural' and other preservation areas as in designated growth areas

Large-lot Zoning

- Promotes sprawl
- •Example: A 700 home development has been proposed for Montgomery County Maryland
 - •Normal subdivision zoning allows 30 homes every 6 acres, or 0.2 acres/home)
 - •700 homes x 0.2 acres/home = 140 acres impacted
 - •However, Montgomery County has a large lot ordinance requiring 25 acres per home
 - 700 homes x 25 acres/home = 17,500 acres impacted!

Definitions

Parcelization:

The division of large, contiguous forest tracts into smaller properties; promotes forest fragmentation and land-use conversion.

• Fragmentation:

The conversion of forests to non-forest uses; leads to diverse land uses on former forest land. Tends to isolate and separate forested tracts from each other.

Graphic from: USDA Forest Service



Negative Effects

- Timber
- Wildlife





Negative Effects

- Increases disturbance by humans and domesticated animals
- Encourages exotic and invasive species
- Lack of cohesive management policy may make some goals unattainable



Opportunities

Landowners working together to meet shared goals

USDA Forest Service's Cooperating Across

Boundaries



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Benefits

- Manage for species which have large habitat requirements
- Create wildlife corridors
- Provide different habitat elements



Opportunities

Increasing & enhancing natural areas on

small lots



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Opportunities - Natural Resource Professionals



- Change how we think about management
- Target new audiences
- New programs
- New services
- New service providers



Resources

