

# State Forest Management: Pennsylvania

April 14, 2010

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Pennsylvania DCNR





# PENNSYLVANIA





NEW YORK

Lake Erie

Erie

Titusville

Susquehanna

Delaware

Scranton

Williamsport

Wilkes-Barre

Allegheny

POCONO MTS.

Hazleton

New Castle

PENNSYLVANIA

State College

Bethlehem

Altoona

Allentown

Ohio

Pittsburgh

Johnstown

HARRISBURG

Lebanon

Reading

APPALACHIAN MTS.

Lancaster

Norristown

Monongahela

Gettysburg

York

Philadelphia

Chester

NEW JERSEY

WEST VIRGINIA

MARYLAND

DELAWARE

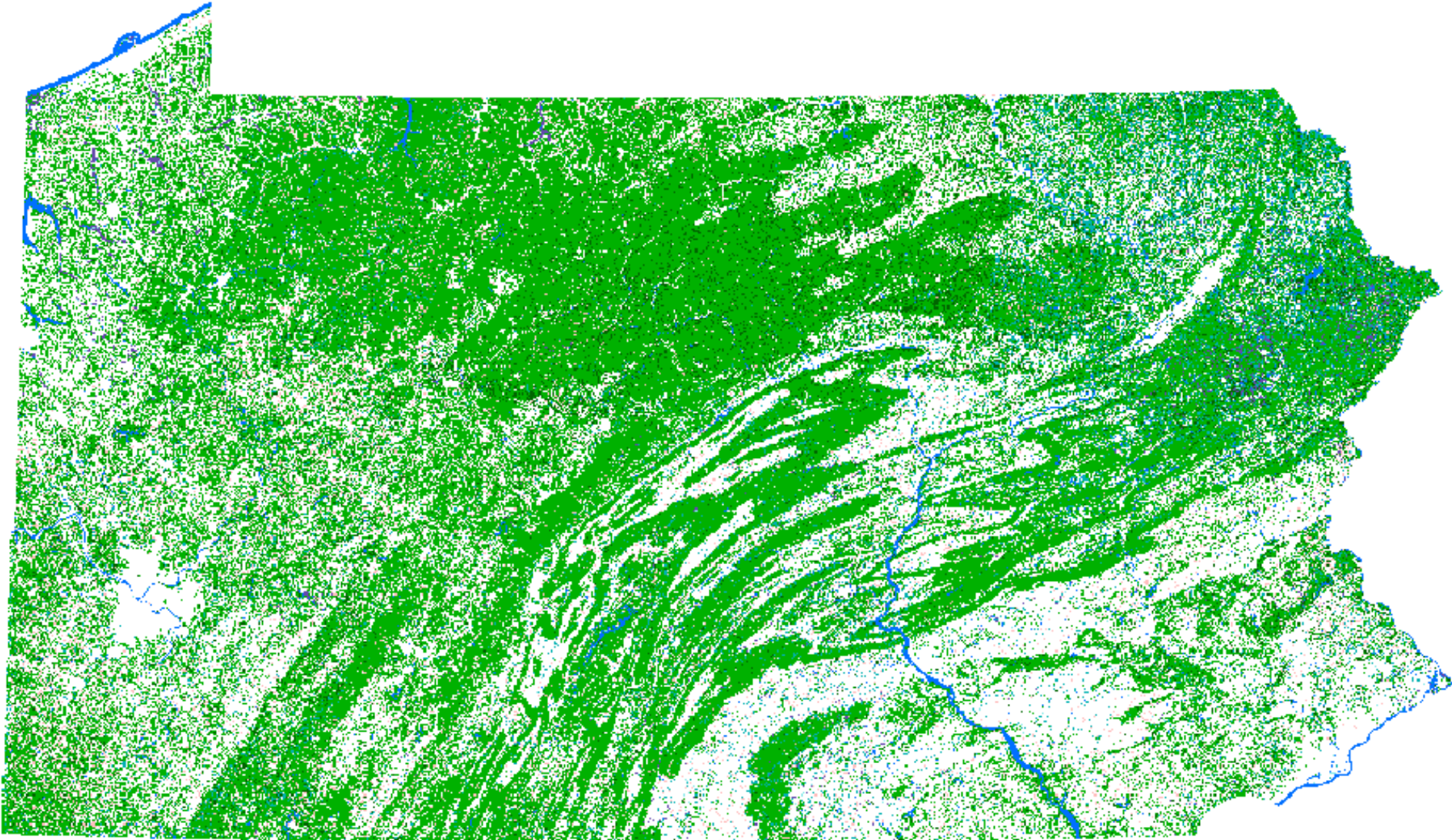
# Pennsylvania's Forests

- 16.6 million ac.(6.7 million ha.) of forest (58% of the state)
- More forest today than in the last 150 years
- Maturing forest
- World-class quality hardwoods
- Suite of uses and values
- Vital to our economy and quality of life



**Pennsylvania is 58 percent forested**

**16.6 Million acres**













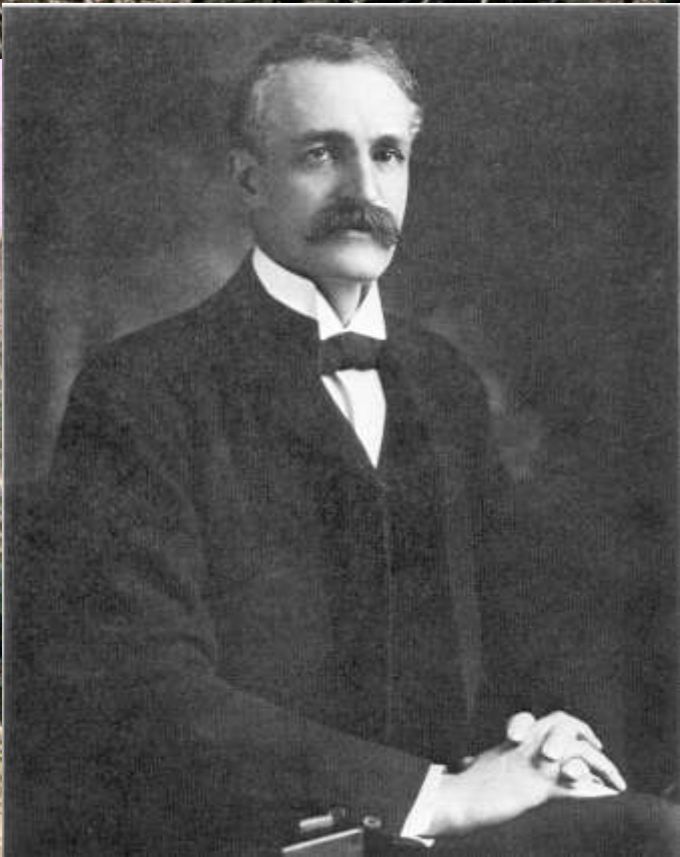






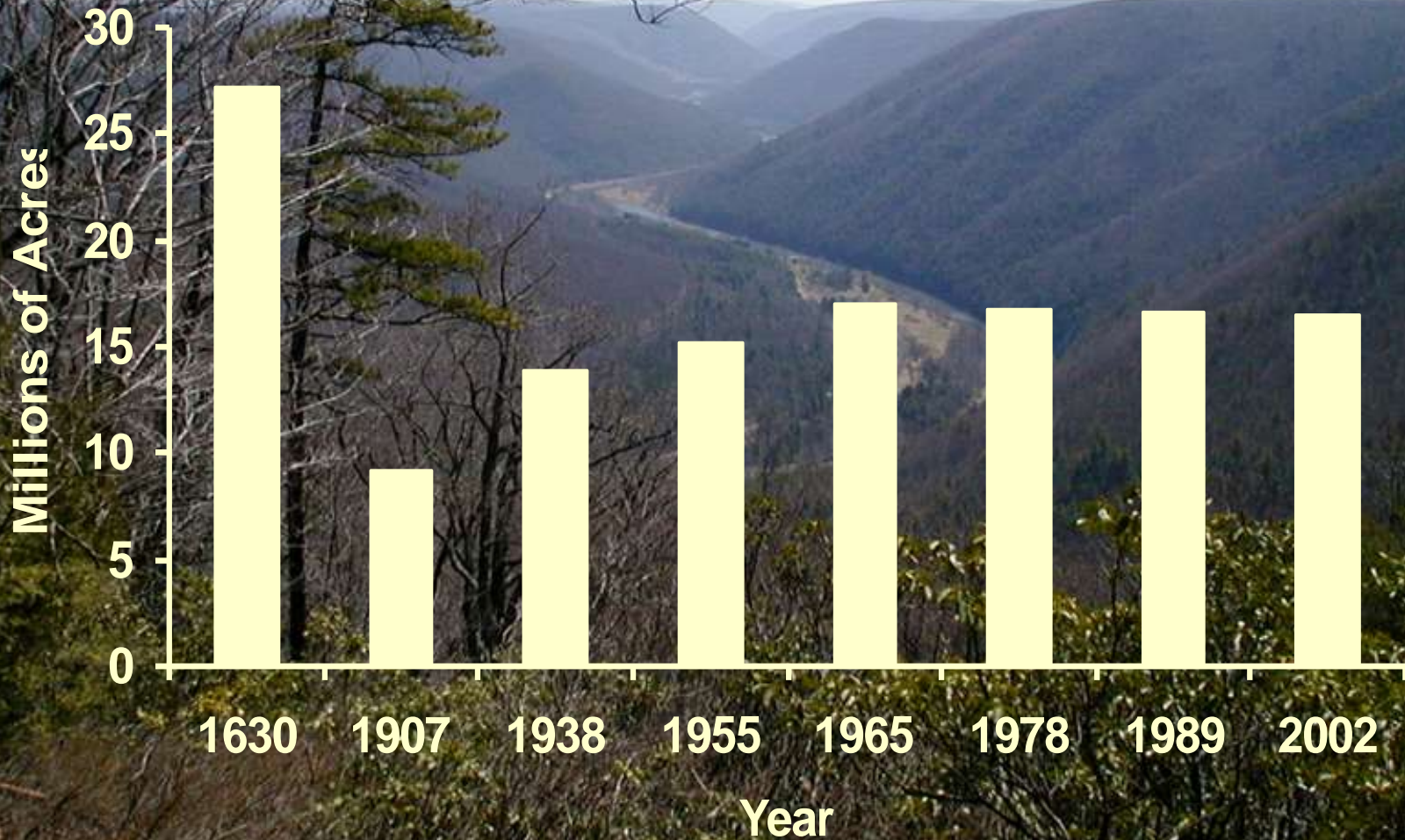






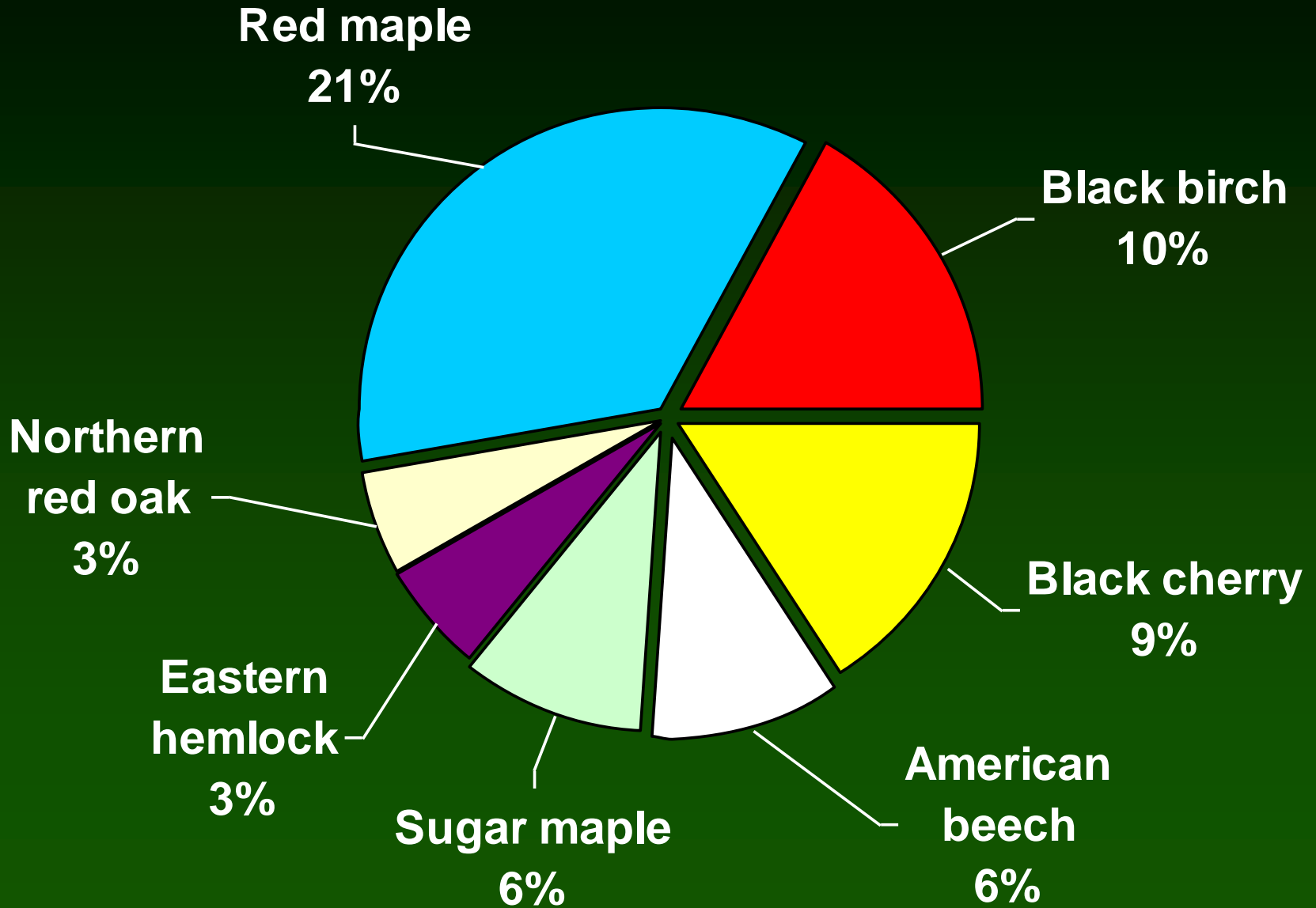


# Pennsylvania Forestland Area by Year

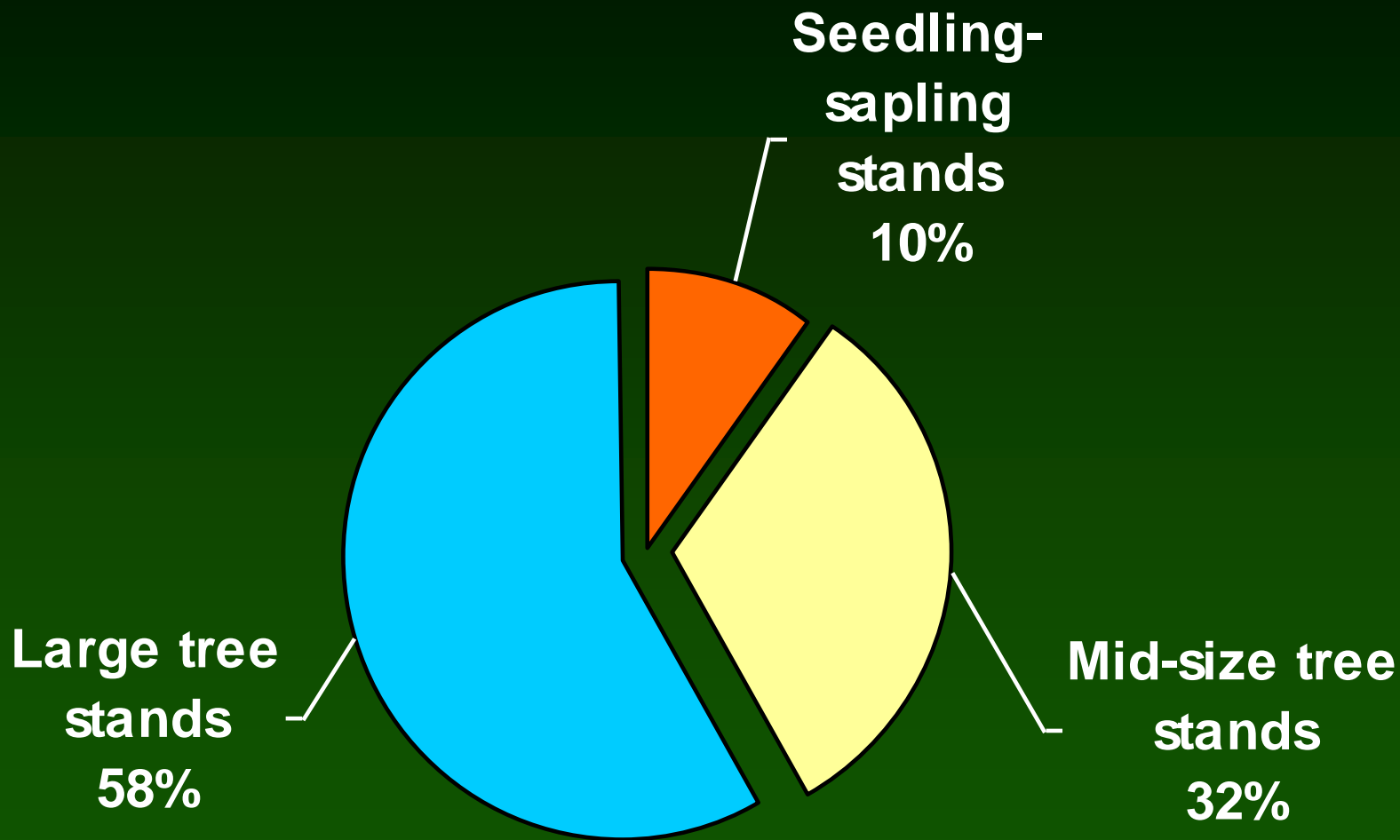




# Tree Species Composition by Number of Trees, 2002



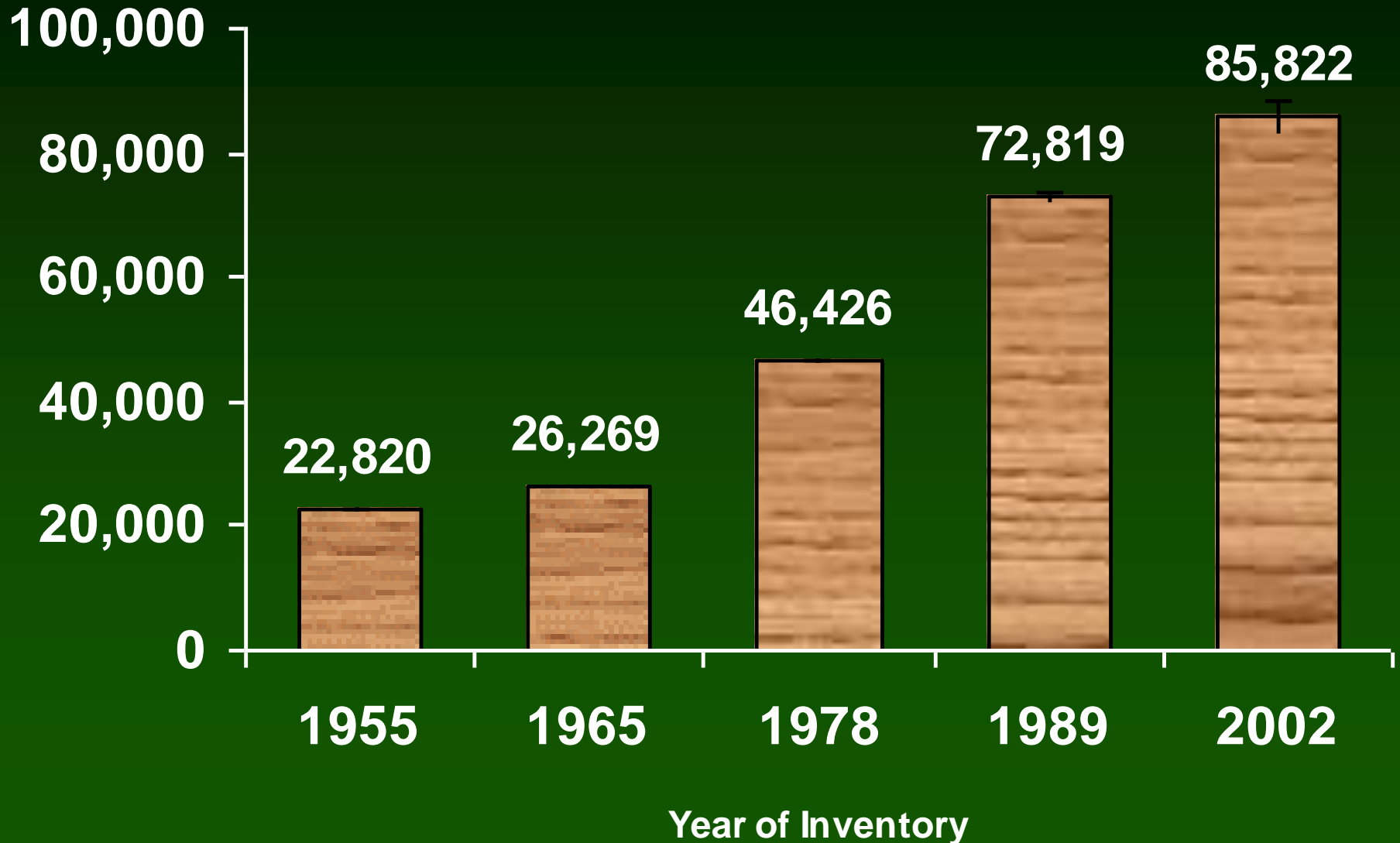
# Percent Forestland by Stand Size Class, 2002





# Wood Volume

Millions of Board Feet, 1955-2002



# Pennsylvania's Forest



- **Forest products**
  - \$5 U.S. billion/year
  - 90,000 employee



# Pennsylvania's Forest



- **Recreation & Tourism**

- Multi-billion \$/year

- Habitat ~ flora & fauna



# Pennsylvania's Forest

- Clean water – *25,000 miles of streams*





# • Pennsylvania's Forests

- **Spiritual and esthetic value**



# PA Forest Ownership

## PUBLIC (29%)

- **State Forest**                      **2.1 million acres**
- **State Game Lands**              **1.5 million acres**
- **Allegheny National Forest**   **0.5 million acres**
- **Other**                                **0.9 million acres**

## PRIVATE (71%)

-  **528,000 landowners**                      **12 million acres**



# State Forest System

☀ **Established in 1898**

☀ **Created for:**

— **Continuous supply of timber & wood products**

— **Protect watersheds & conserve the waters**

— **Furnish opportunities for healthful recreation**

# State Forest System

- **2.1 million acres**
- **20 districts**
- **Multiple Resources Management *1.1 million acres***
- **61 Natural Areas *70,000 acres***
- **16 Wild Areas *146,000 acres***



# PENNSYLVANIA STATE FOREST DISTRICTS



0 25 50 100 Miles

- ▲ District Headquarters
- ▭ State Forest Districts
- ▭ Counties
- State Forest

# • Management Guidance

- ☀ Legal Mandates
- ☀ Strategic Plan
- ☀ SFRMP
- ☀ Forest Certification
- ☀ Advisory Committees
  - CNRAC
  - EMAC
  - STAC
  - RAC

**PENN'S  
WOODS**  
Sustaining Our Forests





# Sustainability and Ecosystem Management

☀ Resources

☀ Uses

☀ Values





# 120-160 TIMBER SALES PER YEAR





# WELL-MANAGED FOREST CERTIFICATION

Scientific Certification Systems does hereby certify that an independent Forest Management evaluation under the Forest Conservation Program has been conducted on the company or district named below and that this company or district has been shown to meet all of the necessary qualifications to be certified as a Well-Managed Forest, in accordance with the Forest Stewardship Council's Principles and Criteria.

*Pennsylvania State Forests: All Districts (1, 2, 3, 4, 5, 6, 7, 8,  
9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 & 20)*

SCS Certification Registration Number: SCS-FM-00011

P.O. Box 8552, Harrisburg, PA 17105 U.S.A

**Certified species:** All merchantable species such as: Beech, Cherry, Hemlock,  
Maple, Oak, White Pine



FOREST CONSERVATION PROGRAM

*[Signature]*

Signed

1939 Harrison Street, Suite 400 Oakland, CA 94612 USA

Tel 510-832-1415 Fax 510-832-0359

FSC Registration #003

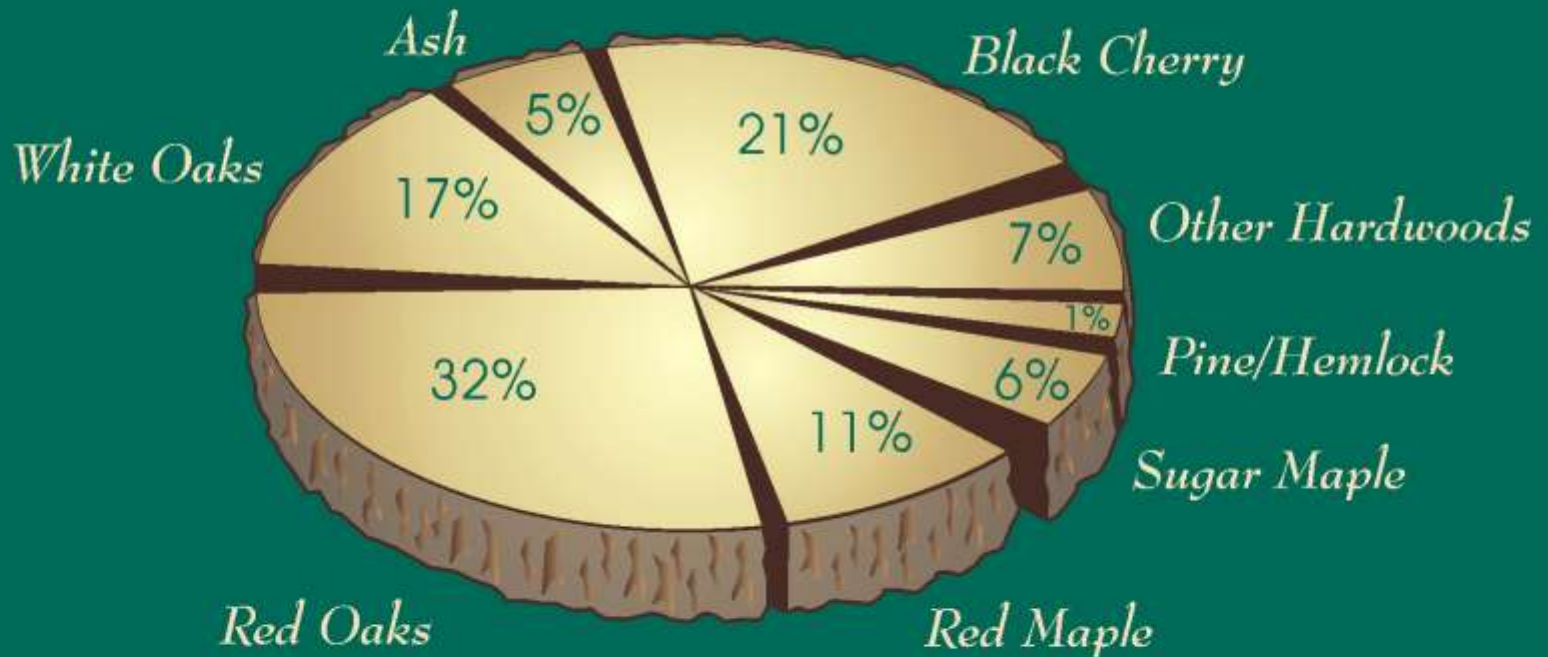
FSC Trademark ©1996 Forest Stewardship Council A.C.

October, 1998

Dated

Valid until 10/2002

Average volume of 50 million board feet sawlogs harvested annually from state forests







# STATE FOREST TIMBER SALES

•2009 \$15 Million ?

\$\$\$\$\$\$

•2008 \$ 26.3 Million

•2006 \$39.3 Million

2004 \$36.3 Million

2002 \$31.8 Million

2000 \$28.3 Million

1998 \$20.3 Million

1996 \$15.6 Million

1994 \$12.2 Million









# Tree Regeneration is Lacking

- White-tailed deer overbrowsing
- Competition from other plants





A photograph of a forest illustrating a shelterwood system. The scene is filled with tall, slender trees, likely pines or spruces, which serve as the shelterwood. The forest floor is densely covered with a lush, green undergrowth of various plants and shrubs, indicating natural regeneration. The lighting is bright, suggesting a sunny day, and the overall atmosphere is one of a healthy, growing forest.

**Shelterwood System**

**Natural Regeneration**





## Deer Impact on Regeneration

~Major Issue~







**Deer browse line** →

**Fern understory**







# REGENERATION-State Forest

2,500 acres  
treated annually  
with herbicide



\$4 million  
annual cost



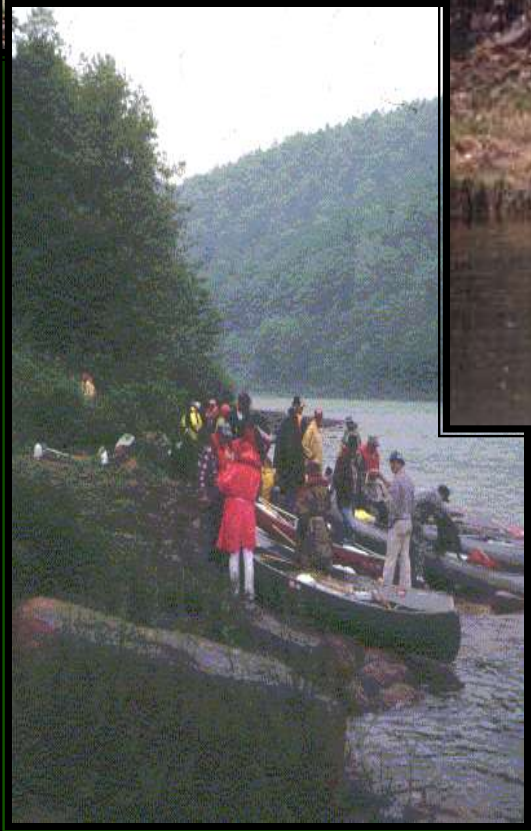
36,000 acres fenced  
3,000 acres/yr







RECREATION







# Trails





# pennsylvania WILDS



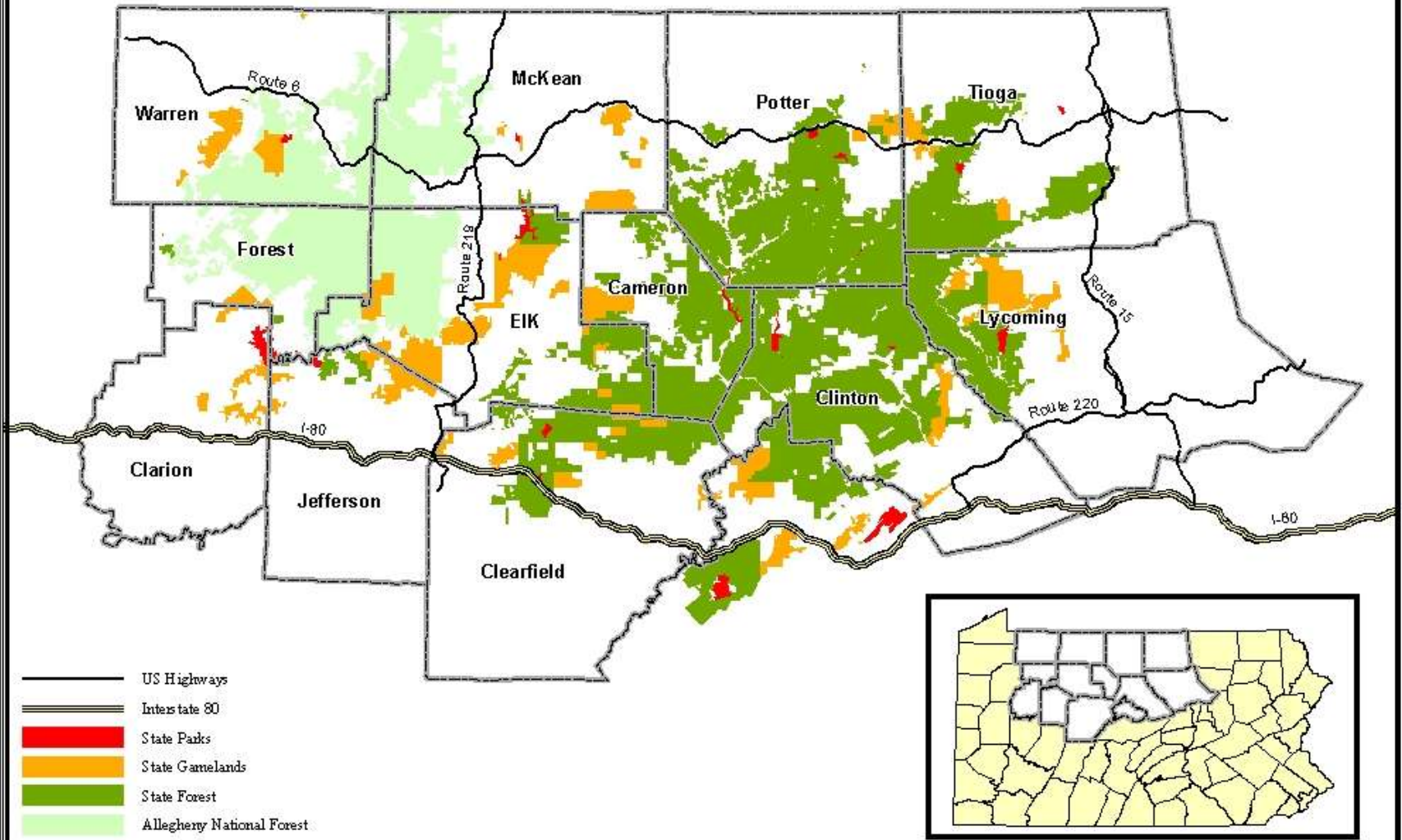
Edward G. Rendell, Governor





# pennsylvania WILDS

Major Public Lands  
in Outdoor Recreation Plan



# The PA Wilds Opportunity

- **Over 2.1 million acres of Public Land!**
- **27 state parks, with 1,200 overnight camping sites.**
- **8 state forest districts with 1.3 million acres of public forestland.**
- **Over 500,000 acres of forestland in Allegheny National Forest, with over 600 campsites.**
- **10 major rail-trail systems, with over 134 miles of trails.**
- **1100 miles of designated hiking trails in state parks and state forests.**



# Wildlife Viewing



Sinnemahoning State Park







# Wilds Waters

## Opportunities Abound









# RIVER ISLANDS









# Cherry Springs State Park



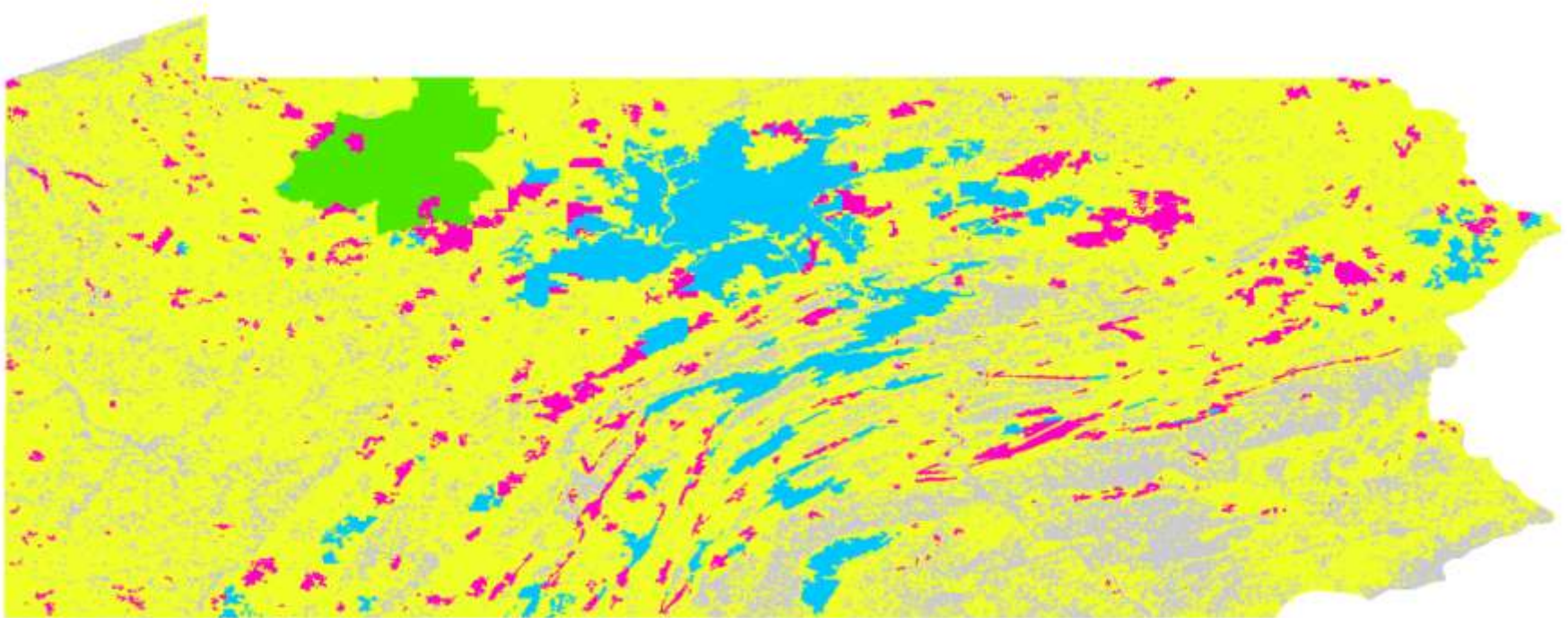
# A view into the night skies





# Forest Ownership, Pennsylvania

- National Forest
- Private
- Nonforest
- State forests
- State game lands



# Rural and Community Forestry

- ❖ Rural Forestry Assistance
- ❖ Conservation Education
- ❖ Urban and Community Forestry
- ❖ Watersheds & Riparian
- ❖ Partnerships - USFS





# Rural Forestry Assistance

Forest Landowner  
Assistance

Stewardship Plans & Forest  
Practices

Trainings for Landowners  
and Professionals

Outreach

Forest Legacy Program

Conservation Easements



# •Forest Stewardship

*Best  
Management  
Practices*

for Pennsylvania Forests

Promoting forest stewardship  
through education, cooperation,  
and voluntary action



CARING FOR  
YOUR FOREST



*With a Forest  
Stewardship Plan*

7  
NUMBER

*Forest  
Stewardship*

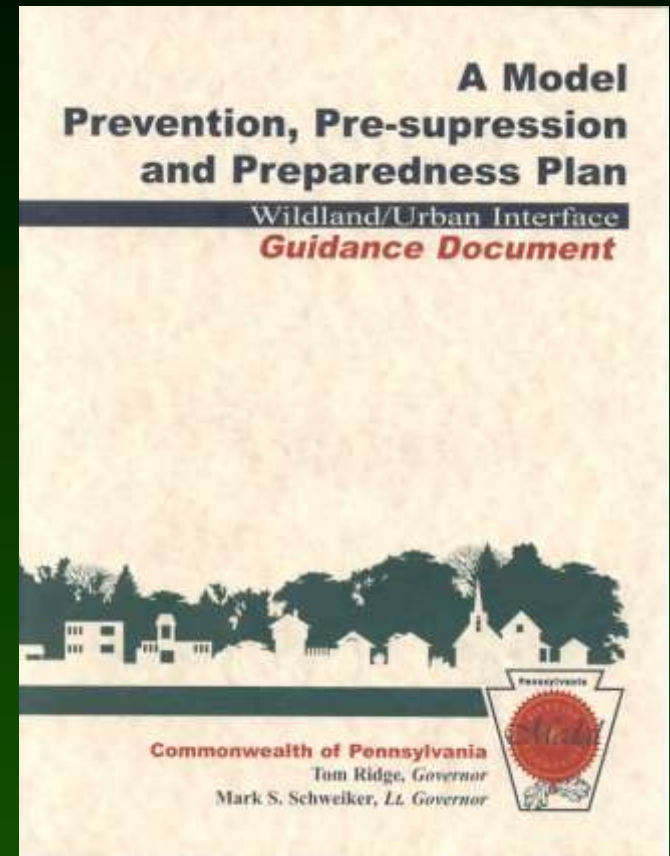
Timber Harvesting:  
An Essential Management Tool



# Fire Prevention

Volunteer Fire Assistance

Federal Excess Property





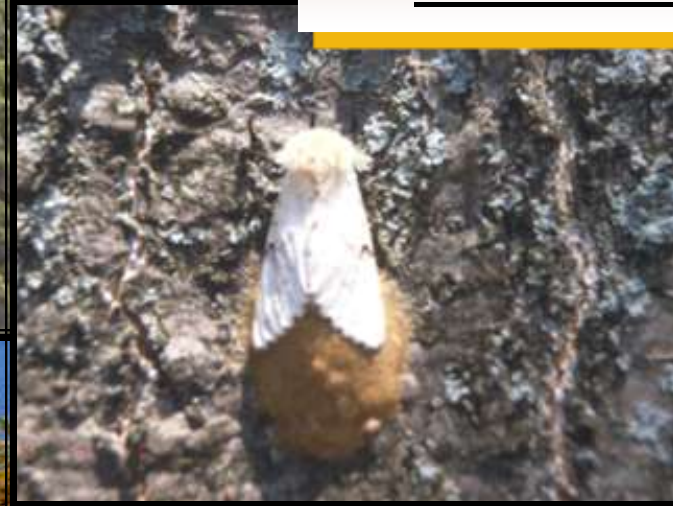
# Fire Suppression







# Pest Management



# Exotic Insects and Diseases

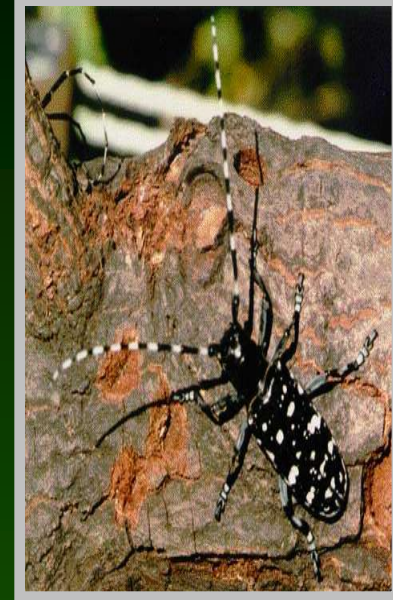
**Gypsy Moth**

**Hemlock Woolly Adelgid**

**Asian Longhorned Beetle**

**Emerald Ash Borer**

**Sudden Oak Death Syndrome (SODS)**





# Our Vision



- ☀ Forest are a renewable resource
- ☀ Sustainable Management
  - 🌿 Provide uses and values for our citizens and future generations
  - 🌿 Protect environmental systems









**DEER  
BROWSING**



**DEER  
BROWSING**



y





# *Pennsylvania's State Forest*

- **Oil and Gas**
- 71,526 acres gas storage leases
- 174,000 acres under lease
- 490 royalty producing gas wells

