

North Carolina FIA Data Update

Barry New

Technical Development & Planning
Branch, NCDFR

Retired foresters meeting May 25, 2011

Forest Inventory & Analysis – the Nation's Forest Census

7 Periodic Surveys (Cycles)

- ✓ 1st 1938
- ✓ 2nd 1956
- ✓ 3rd 1964
- ✓ 4th 1974
- ✓ 5th 1984
- ✓ 6th 1990
- ✓ 7th 2002R*

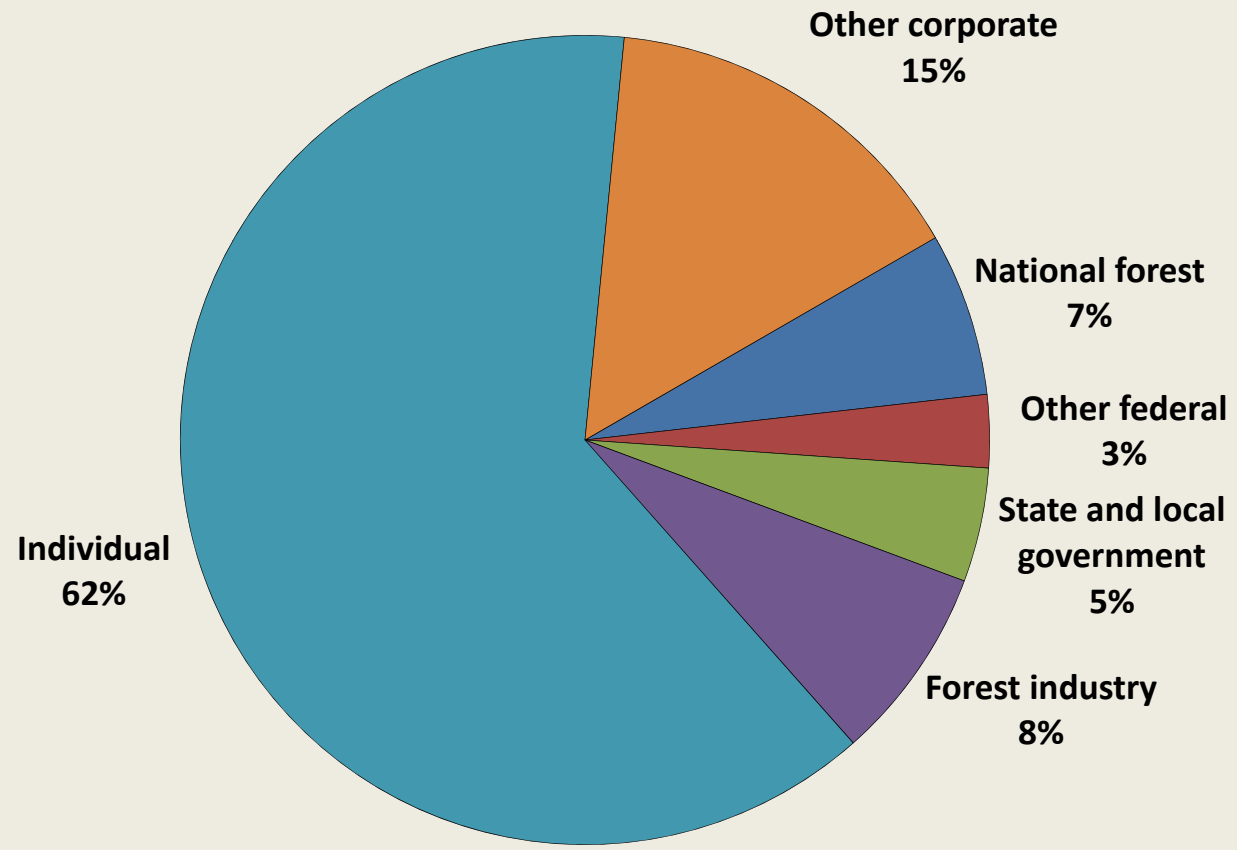
Annual Survey

✓ 8th 2003-2007

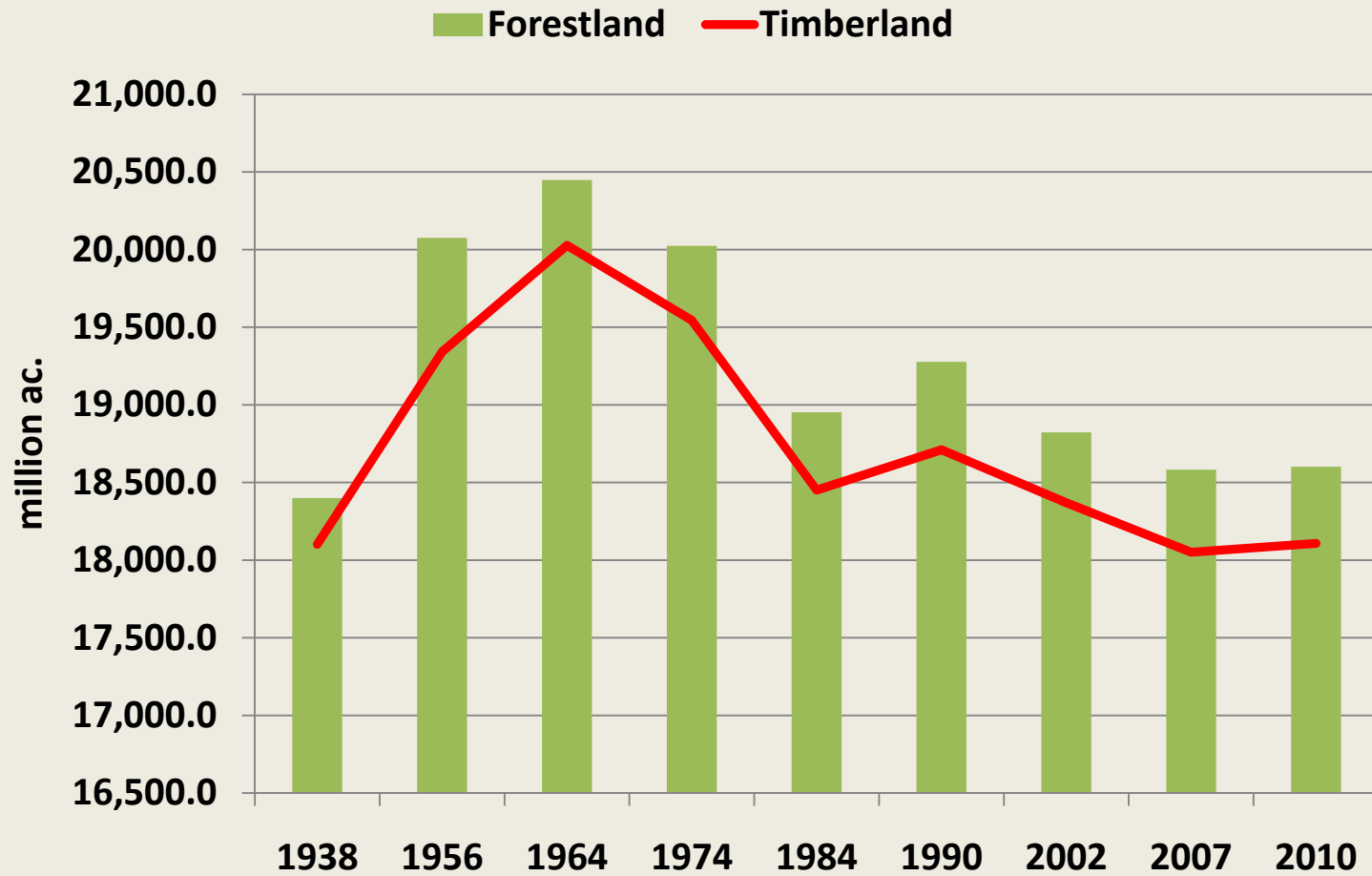
9th 2003-2010 rolling
average

2 of 5 panels complete as of
2010. 40% re-measured
plots, averaged with
complete 8th cycle
previous plots

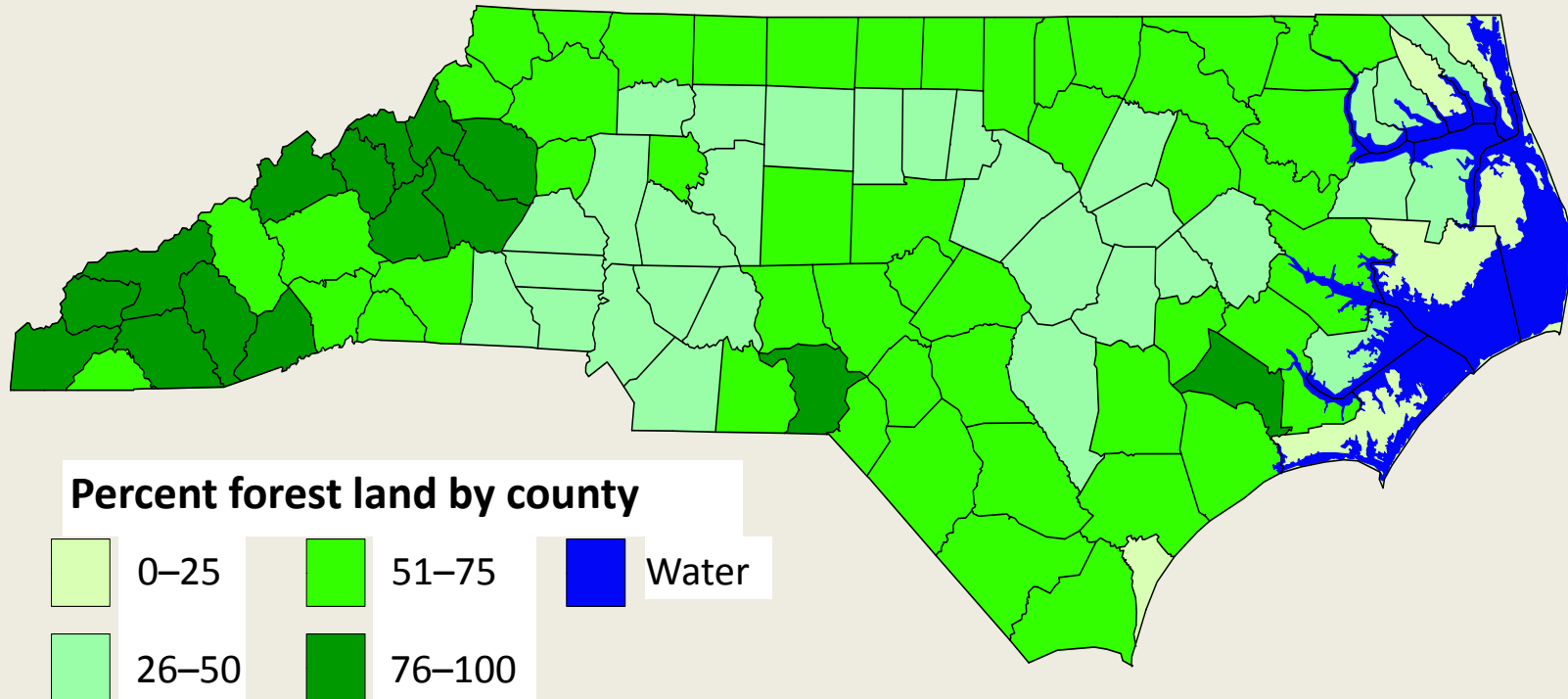
NC 2007 Ownership of 18 million acres of timberland



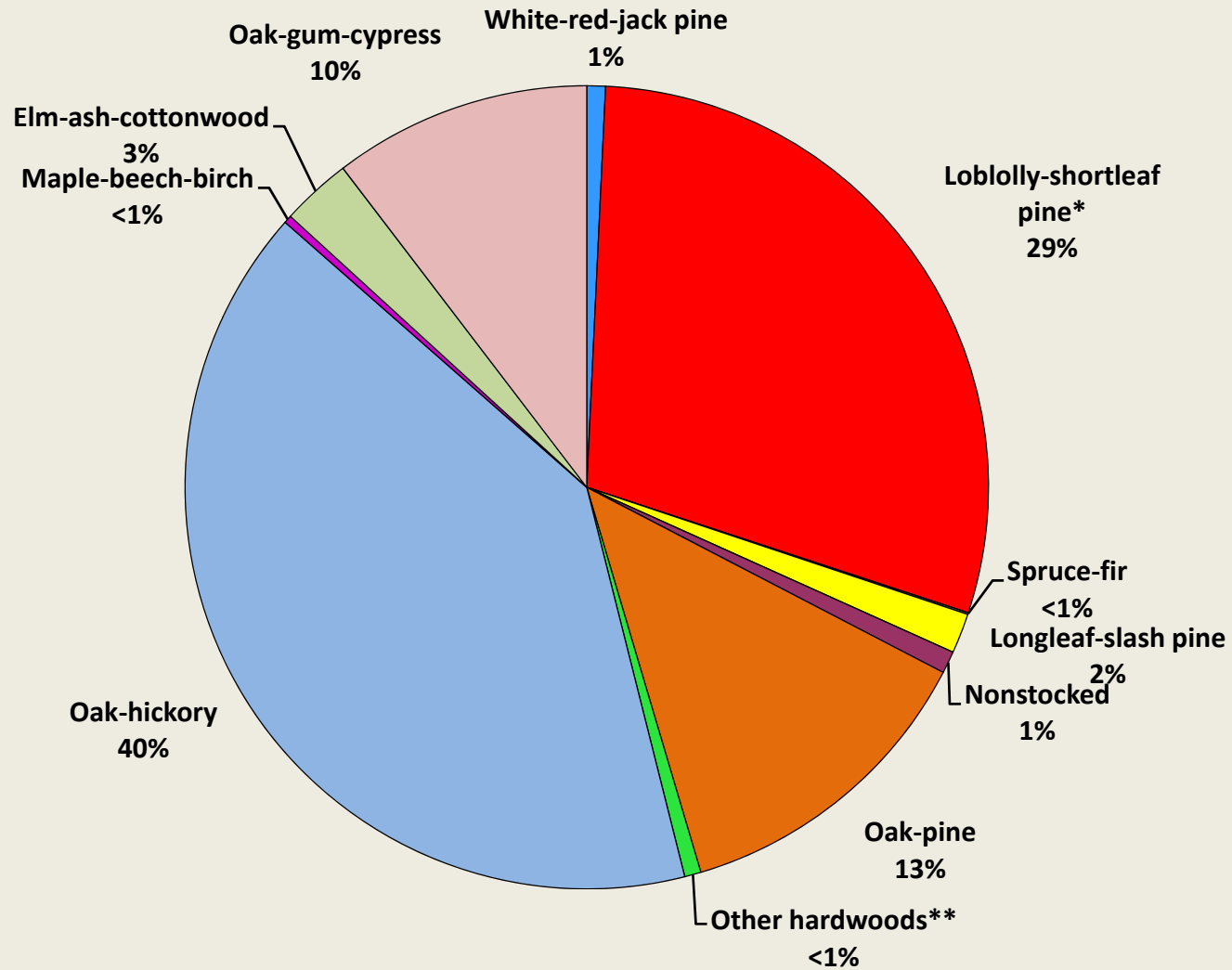
NC Trends by survey cycle



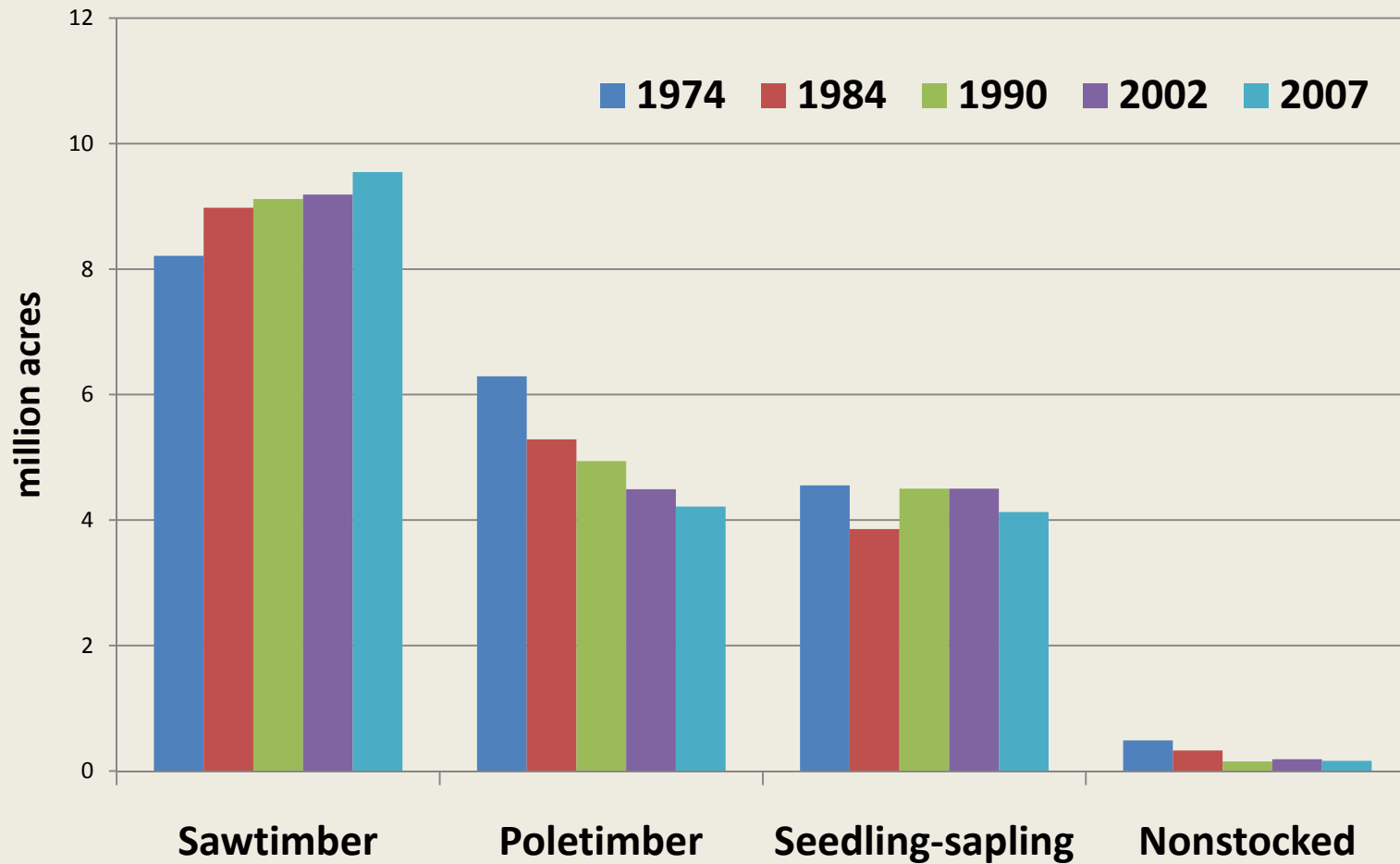
Percentage of land in forest by county, North Carolina, 2007



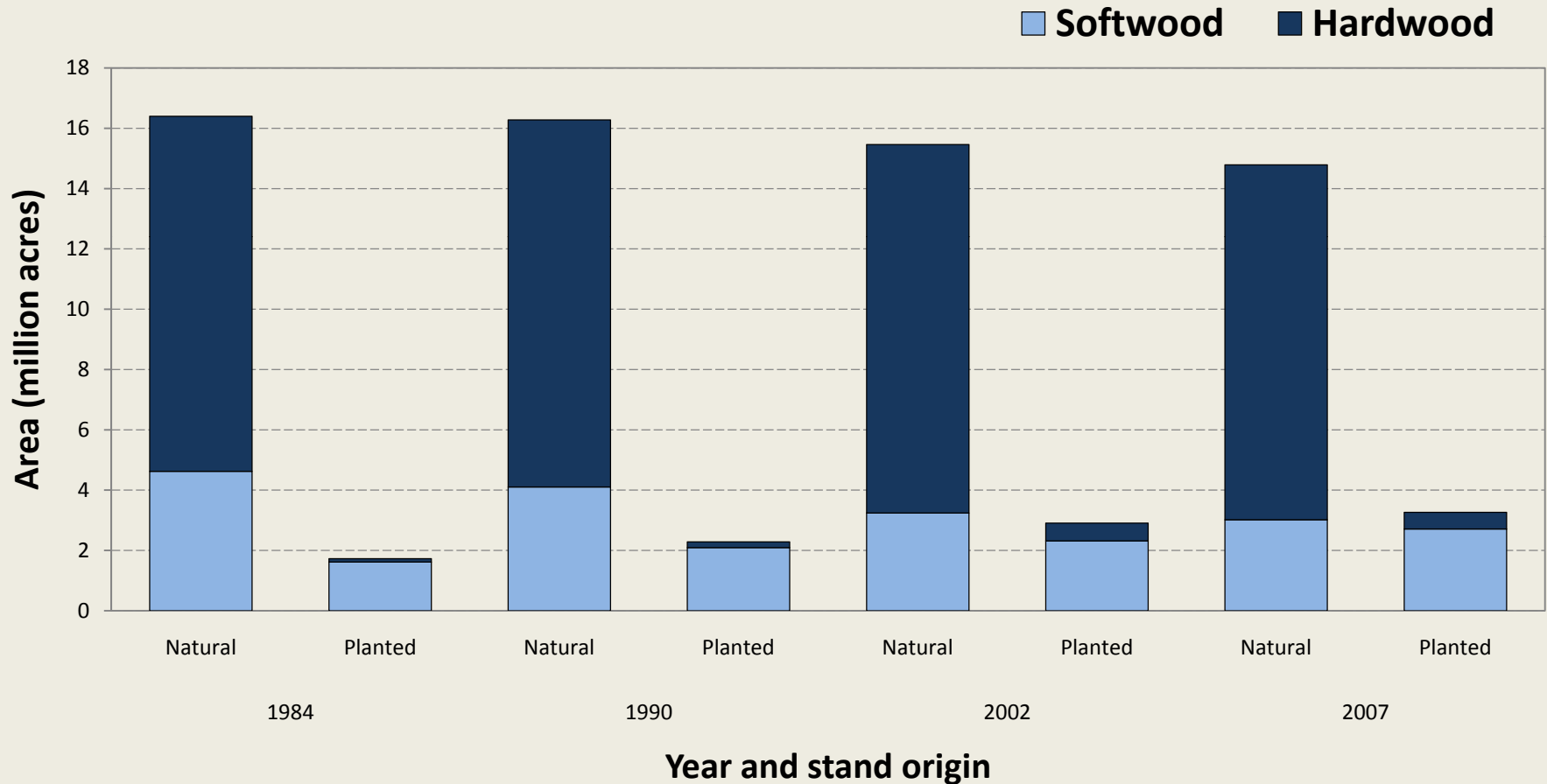
Area of timberland by forest-type group, NC 2007



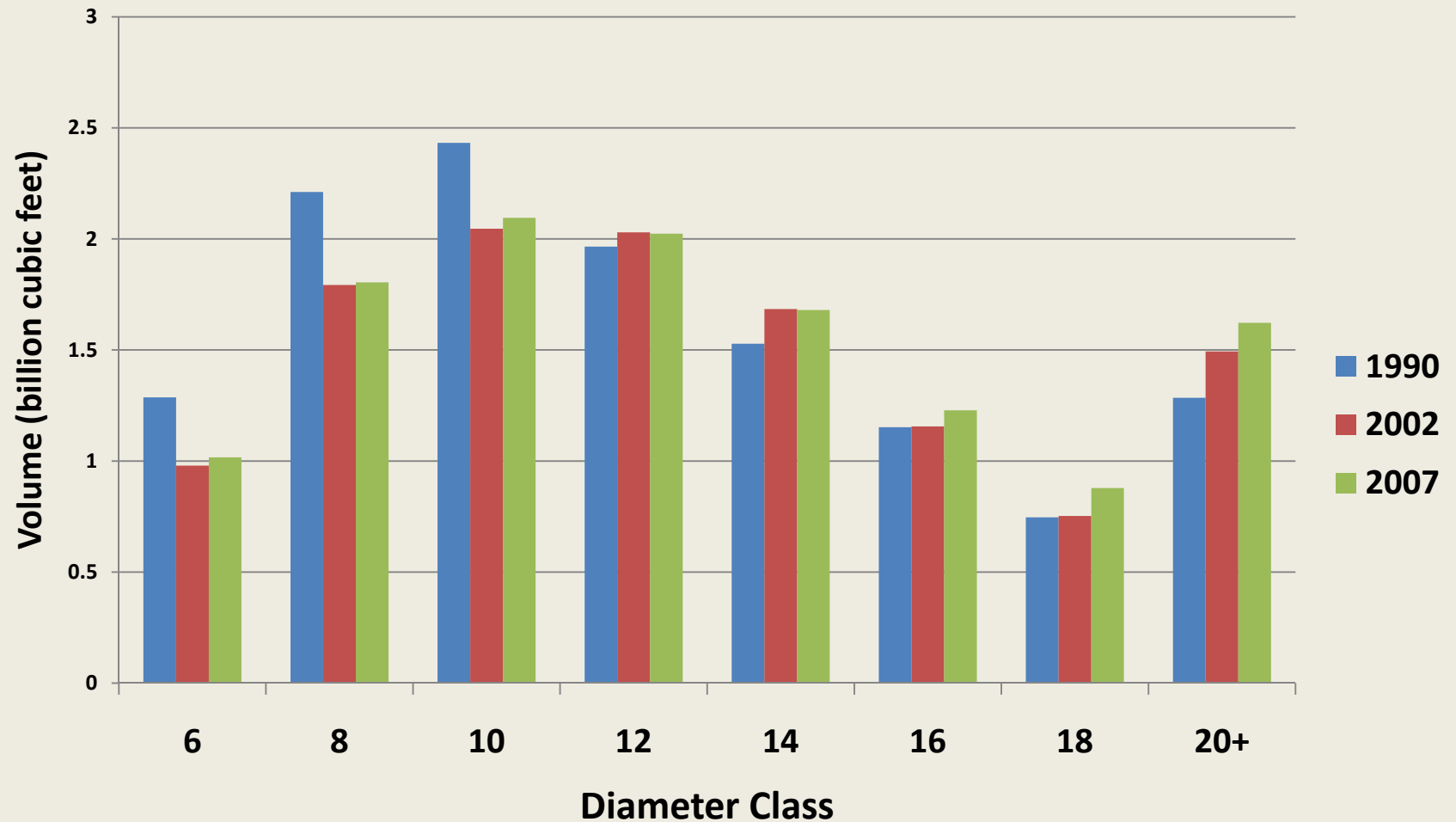
Area of timberland by stand-size class and year, North Carolina



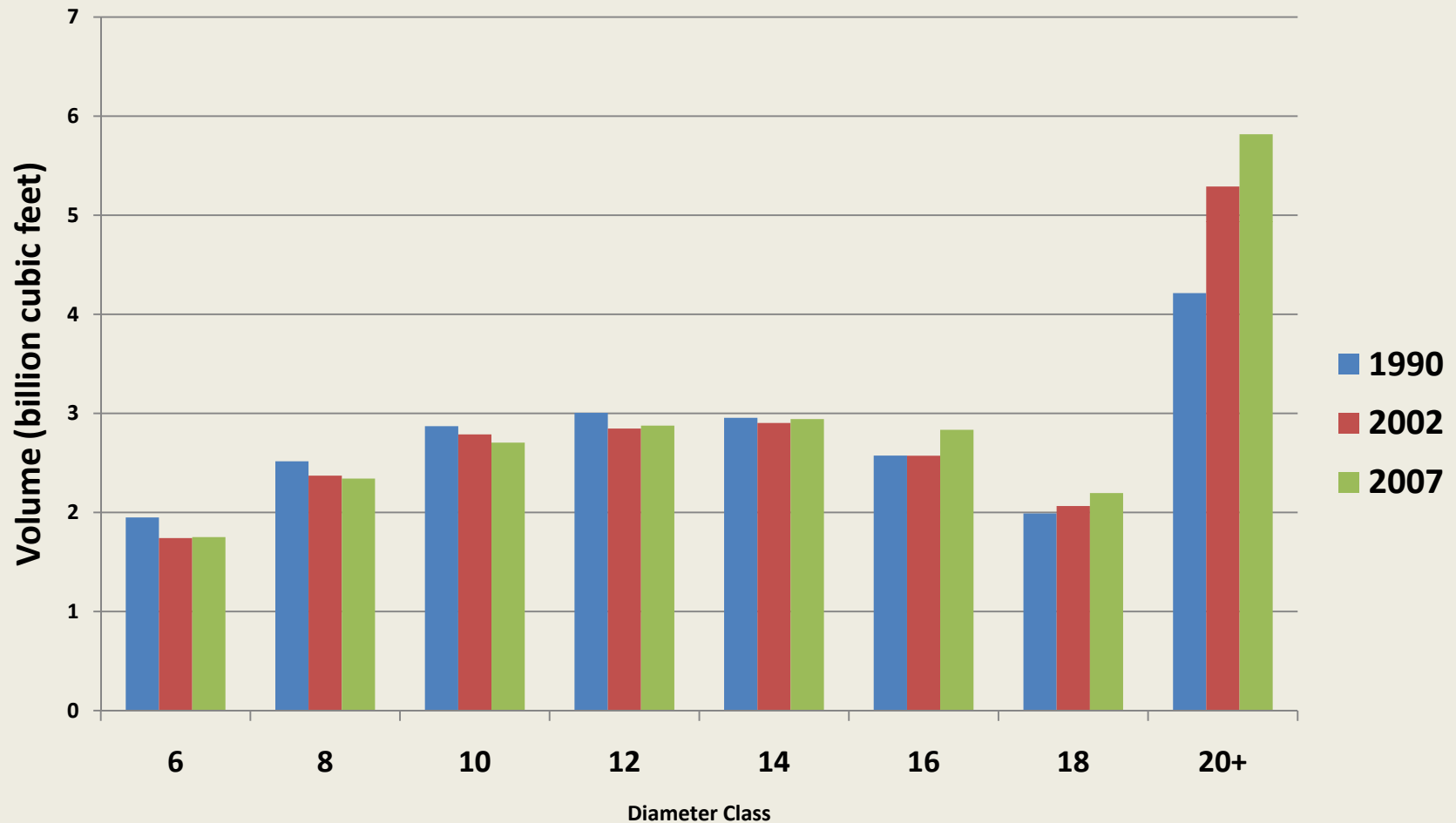
Timberland area by forest-type group and stand origin, North Carolina, 2007



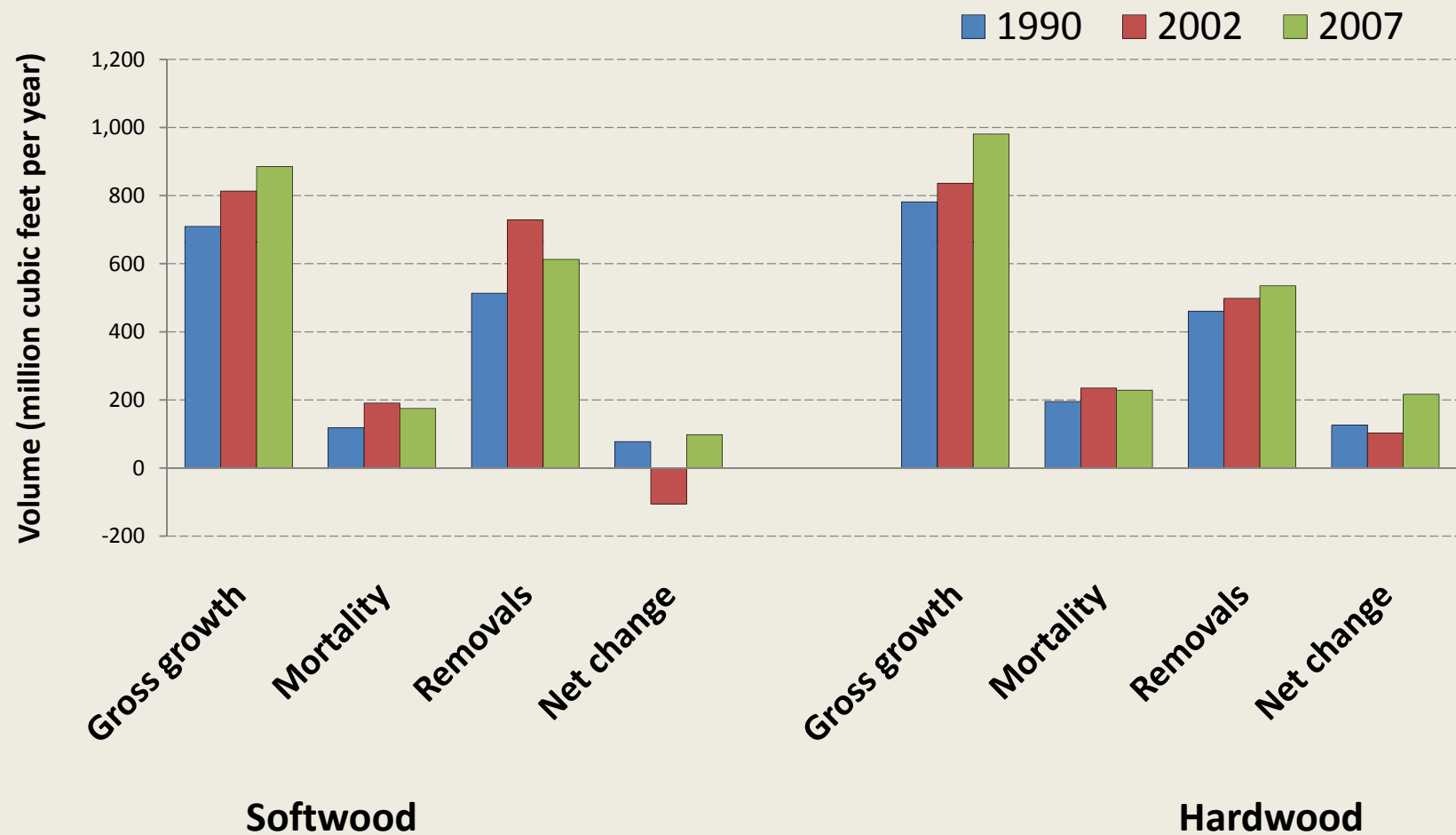
Softwood all-live volume by diameter class and year, North Carolina, 2007



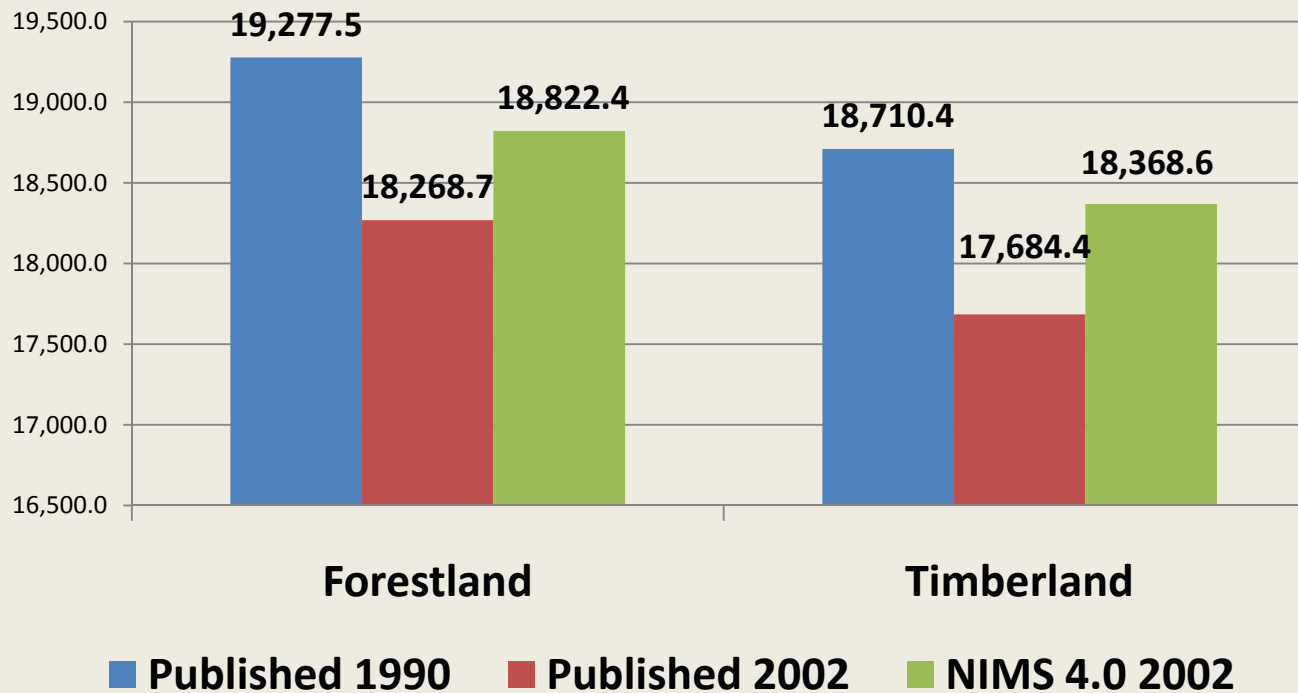
Hardwood all-live volume by diameter class and year, North Carolina, 2007



Growth, Removals, Mortality & Net Change by Species Group & Year, North Carolina



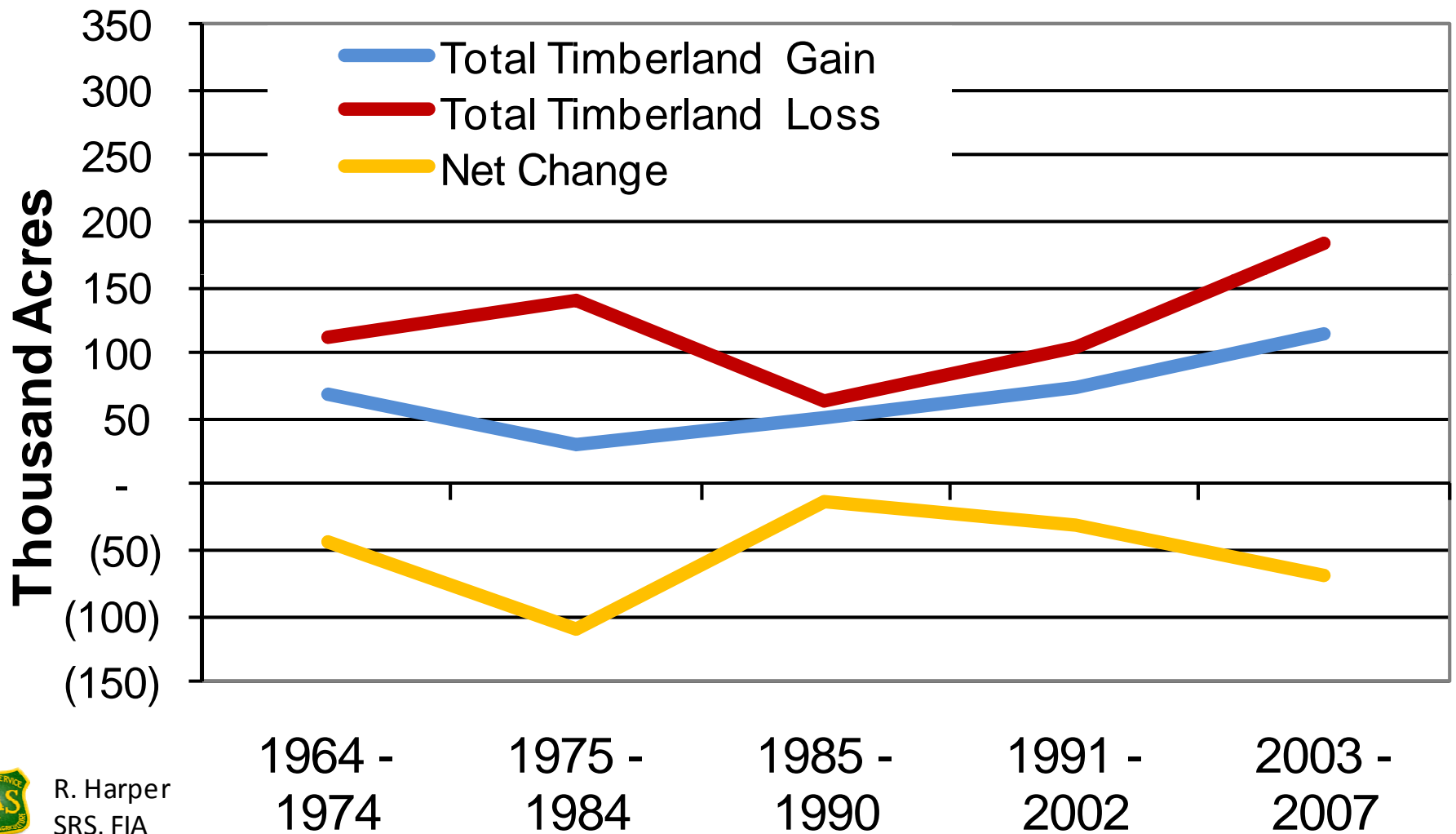
What about the 1+ million acres of forestland lost 1990 – 2002?



Net change 1990-2002 NIMS Reprocessed

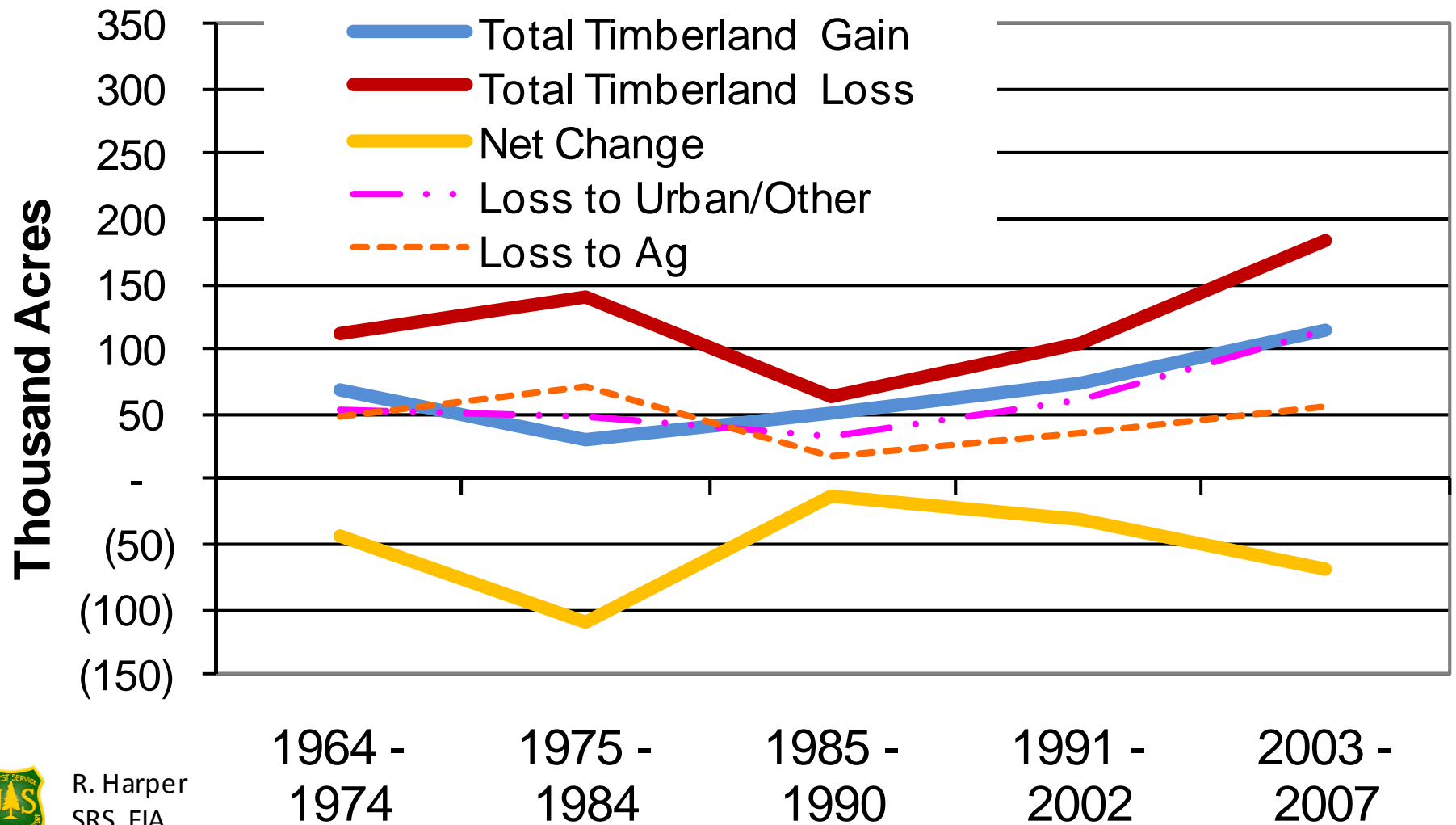
-455,000 ac. Forestland
-342,000 ac. Timberland

Average Annual Landuse Change of Timberland in North Carolina by Survey Period



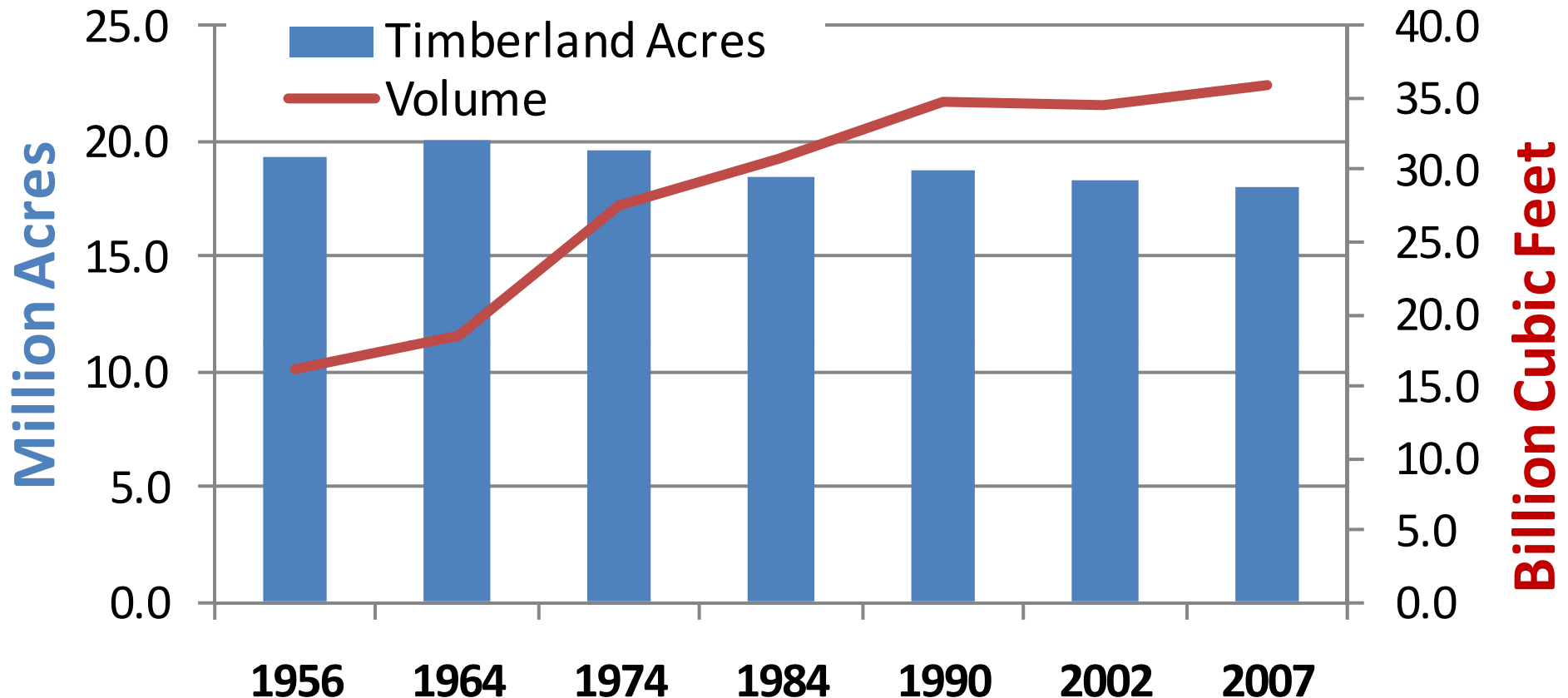
R. Harper
SRS, FIA

Average Annual Landuse Change of Timberland in North Carolina by Survey Period



R. Harper
SRS, FIA

Timberland Area and Live Tree¹ Volume by FIA survey, North Carolina

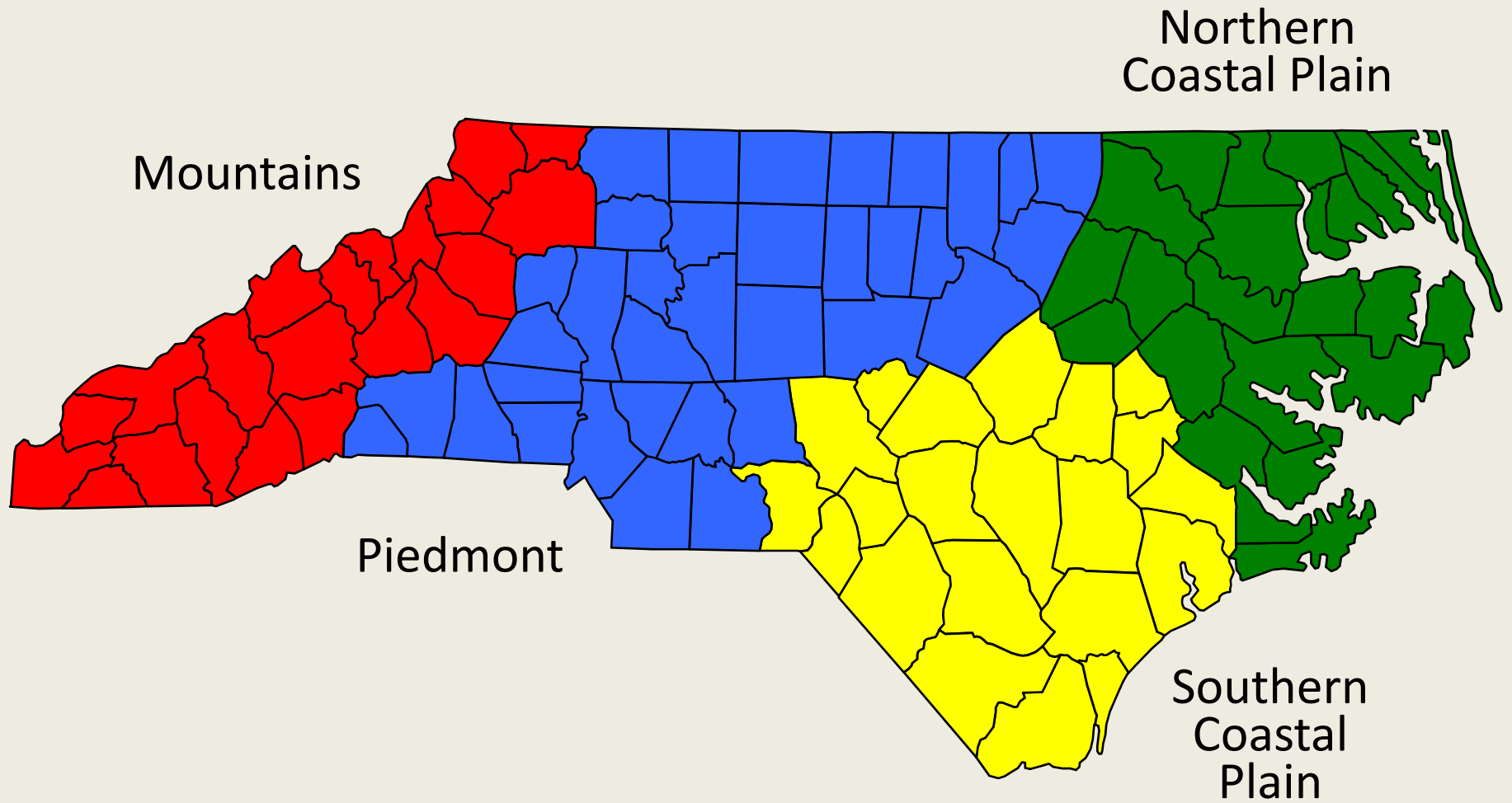


R. Harper
SRS, FIA

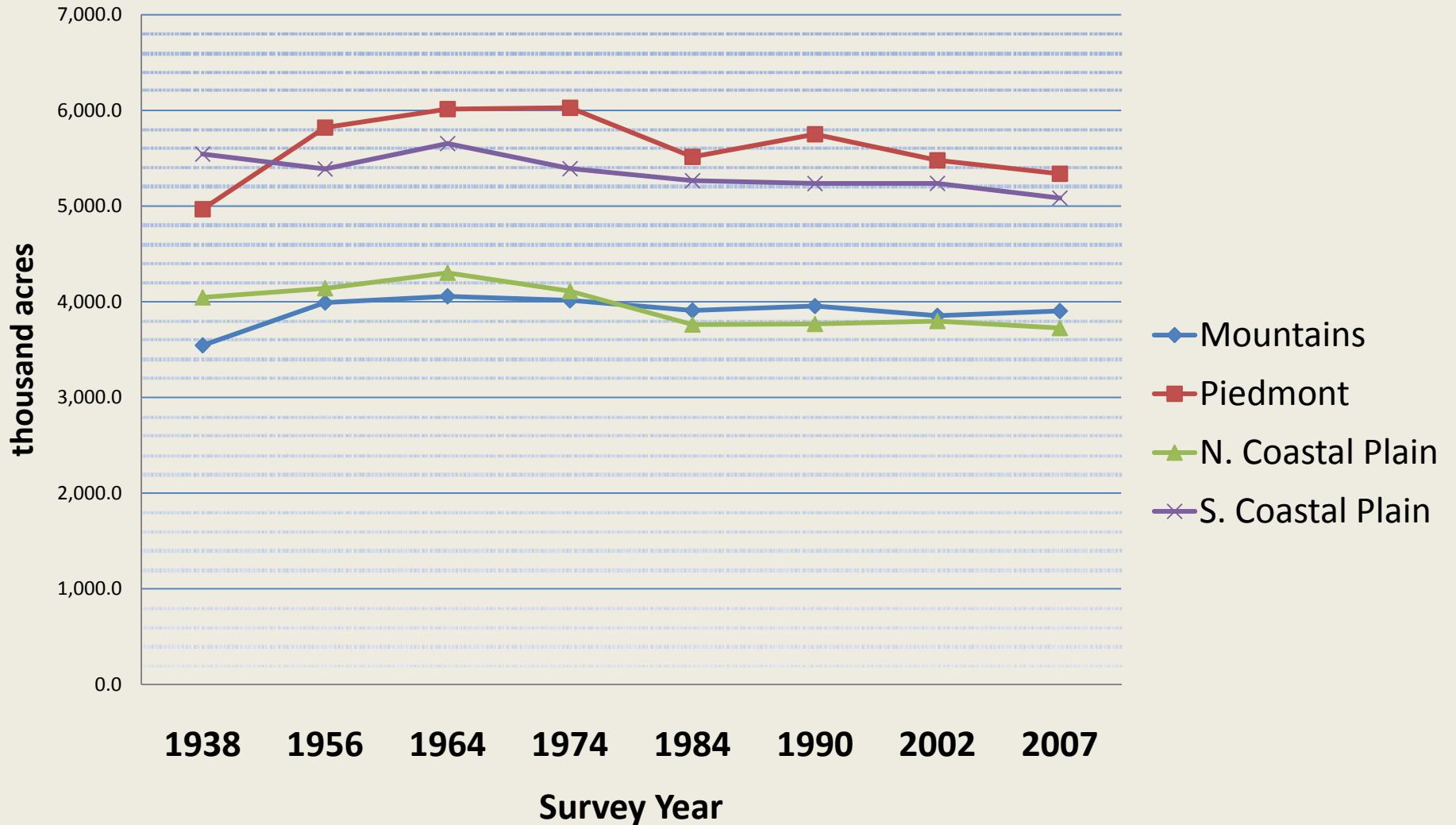
^{1/} 1956 and 1964 are growing stock volume.

While NC timberland has experienced pressure from conversions to development and agricultural land-use, the forestry community has been able to maintain a sustainable wood volume over time. Timber inventory volume is at an all time high and has doubled over the last 50 years.

North Carolina Survey Units



Timberland area trends by survey unit, North Carolina



Highlights

- Forest & timberland area continues to moderately decline.
- 85% of NC's forests are privately held. 62% by individuals & families.
- Hardwoods dominate timberland area (68%) and all live volume (66%).
- GS volume 63% hdwd vs. 37% sftwd. 32.7 billion cu ft tot.
- GS total volume:
 - 25% loblolly
 - 14% yellow poplar
 - 6% sweetgum
 - 6% soft maple
- Positive annual net change in G/R/M 2002-2007 for both sftwd & hdwd.
- Reprocessed 2002 data shows net loss of 455,000 ac forestland & 342,000 ac timberland 1990-2002, not 1+ million acres.

Acknowledgements

USFS SRS FIA

Mark Brown, Forester/Analyst

Richard Harper, Forester/Analyst

Jeff Turner, Forester/Analyst

Jason Meade, Forester/Analyst

DFR

Don Roach, FIA Coordinator

Michael Mann, former Utilization Forester

Forest Inventory and Analysis National Program

(enter query)

Search

- ▶ U.S. Forest Service
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- Regional Offices
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Other Tools



EVALIDator

This program allows users to produce a large variety of population estimates and their sampling errors based on FIADB version 4.0.



**NWOS
Table
Maker**

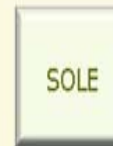
The National Woodland Owner Survey table maker allows users to create custom tables based on data collected during the years 2002-2006.



**TPO
Reporting
Tools**

The National version of this tool allows users to generate Timber Products Output tables for the entire United States.

The Southern Research Station version allows users to focus more specifically on those states in the southern United States.



<http://www.fia.fs.fed.us/tools-data/default.asp>

Start New...



FIA Standard Reports

Produce standard FIA reports on your own selection of states, counties, and survey year(s) ... You can also select from a wide range of custom filters.



Custom Retrievals

Customize a retrieval for your own specific needs or build new, user-defined report templates.

Forest Inventory Data Online (FIDO)



Welcome to FIDO!

FIDO gives you access to the National FIA (Forest Inventory and Analysis) databases. You now have the ability to generate tables and maps of forest statistics through a web browser without having to understand the underlying data structures.

With FIDO, you will be able to run any of the standard reports for a specific area of interest and survey year or, if you are an advanced user, create completely customized reports based on whatever criteria you choose. As an advanced user, you can also save your work to your hard drive to load/rerun your custom FIDO retrievals at a later time.

Technical Assistance

Regional Contacts

If you have any questions or need assistance, please contact the support person for your region (from the list below):

- **Interior West** (AZ, CO, ID, MT, NM, NV, WY, UT)
Jim Menlove: 801-625-5426 (e-mail: jmenlove@fs.fed.us)
- **Pacific Northwest** (AK, CA, HI, OR, WA)
Karen Waddell: 503-808-2046 (e-mail: kwaddell@fs.fed.us)
- **Northern** (CT, DE, IA, IL, IN, KS, MA, MD, ME, MI, MN, MO, ND, NE, NH, NJ, NY, OH, PA, RI, SD, VT, WI, WV)
Chuck Barnett: 610-557-4031 (e-mail: cjbarnett@fs.fed.us)
- **Southern** (AL, AR, FL, GA, KY, LA, MS, NC, OK, SC, TN, TX, VA)
Carol Perry: 865-862-2087 (e-mail: cperry@fs.fed.us)

IMPORTANT NOTE:

Read the release information below to see if there are any changes you should be aware of before choosing your report generating tool.

Please enjoy -- The FIDO Team!

System Configuration

In order to run FIDO Standard and Custom reports, you will need the following configuration:

- Windows® Internet Explorer 6 or 7; Mozilla Firefox 2 or 3;
- Javascript must be enabled in your browser;
- High-speed (broadband) Internet connection;
- 512MB RAM system memory;
- 2.0+ GHz processor, and
- MSXML 4.0 or 6.0 (Internet Explorer only).

Note: the application runs much better under Internet Explorer 7 and Firefox 3.

Data available for survey cycles
1974, 1984, 1990, 2002R, 2003-
2007, 2003-2010

FIDO -- Custom Retrievals!

Survey Years

- 2010 (NC)
- NORTH CAROLINA 2003-2010:
CURRENT AREA, CURRENT VOLUME
- 2009 (NC)
- 2007 (NC)
- NORTH CAROLINA 2003-2007:
CURRENT AREA, CURRENT VOLUME
- 2006 (NC)
- 2005 (NC)
- 2004 (NC)
- 2003 (NC)
- 2002 (NC)
- NORTH CAROLINA REVISED 2002-
2002: CURRENT AREA, CURRENT
VOLUME
- 1990 (NC)
- 1984 (NC)
- 1974 (NC)

Add Custom File

Add Custom FIDO file

Choose Survey Years

Choose the survey years on which you want to base your report. The survey years displayed are dependent on the states in your area of interest.

FIDO Wizard

FIA data is inventoried either on an annual basis (for more recent years) or on a periodic basis (any year prior to 1999). You can select one or more years for which to run the reports or open up the year and pick specific options for each state in your region of interest. You must have selected a region of interest and a data attribute before a list of survey years can be built. You must select a survey year to run the report.

- Summary Attribute:** Area of sampled land (area)
- Report Layout:** Table break: U.S. States (plot.statecd)
Row break: U.S. Counties (plot.countycd)
Column break: Forest type group (cond.pl:fortypgrpd)
- Filter Options:** - No selections made -
- Area of Interest:** North Carolina (37)
- Survey Years:** - Not yet selected (required) -

Hide Wizard

Continue >>

Create your custom retrieval by selecting from the list of tasks below:

- Start New Retrieval**
- Set Summary Attribute**
- Design Report Layout**
- Select Filter Options**
- Define Region of Interest**
- Choose Survey Years**
- Produce Report**
- Save Active Retrieval**

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Southern
865-862-2087
cperry@fs.fed.us

http://treesearch.fs.fed.us/

The screenshot shows the TreeSearch website interface. At the top left, it says "US FOREST SERVICE" and "TreeSearch Research & Development TreeSearch". On the right, there is a "Forest Service National Links" dropdown menu and a "Get" button. Below the header, there is a search bar with the placeholder "(enter query)" and a "Search" button. A navigation menu on the left includes "TreeSearch Home", "About TreeSearch", "Contact Us", "Research & Development", "Forest Products Lab", "International Institute of Tropical Forestry", "Northern", "Pacific Northwest", "Pacific Southwest", "Rocky Mountain", "Southern", and "Help". Below the navigation menu, there is a section titled "US FS Research Publications" with the text "Your onestop site for Research & Development Publications online." Below this, there are two search sections: "Google™ Search for on-line publications" with a search box and button, and "Advanced Search for on-line publications" with fields for "Keywords:", "Author:", and "Title:", and a date filter section with "Filter by date Starting: 1999 Through: 2011" and a "Search" button. On the right side, there is a "Search for Station Series Publications" section with a text box and a "Search" button, and a "Listing of Publications in the TreeSearch Database (number pubs on-line)" section with a list of stations and their publication counts: FPL (2290), IITF (509), NRS (10333), PNW (3700), PSW (3882), RMRS (4757), SRS (7906), WO (233), and All Publications (33649). At the bottom left, there is contact information for "US Forest Service" including address, phone number, and website.

US FOREST SERVICE

Forest Service National Links

TreeSearch Research & Development TreeSearch

(enter query) Search

TreeSearch Home

About TreeSearch

Contact Us

Research & Development

Forest Products Lab

International Institute of Tropical Forestry

Northern

Pacific Northwest

Pacific Southwest

Rocky Mountain

Southern

Help

US FS Research Publications

Your onestop site for Research & Development Publications online.

Google™ Search for on-line publications

Advanced Search for on-line publications

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Search

Search for Station Series Publications

Know the publication type and number of the publication you're looking for? Try our Station Series Search.

Any - Any

Search

GTR? FPL? What does it all mean? Get a list of acronyms used on this site.

Listing of Publications in the TreeSearch Database (number pubs on-line)

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