

# Southern Megaregion – What are the numbers and the trends?

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# Southern Megaregion

- This is a Maine Forest Service (MFS) regional and area of interest, and includes:
  - Capital Area FIA Unit, comprising the counties of Kennebec, Knox, Lincoln, and Waldo
  - Casco Bay FIA Unit, comprising the counties of Androscoggin, Cumberland, Sagadahoc, and York

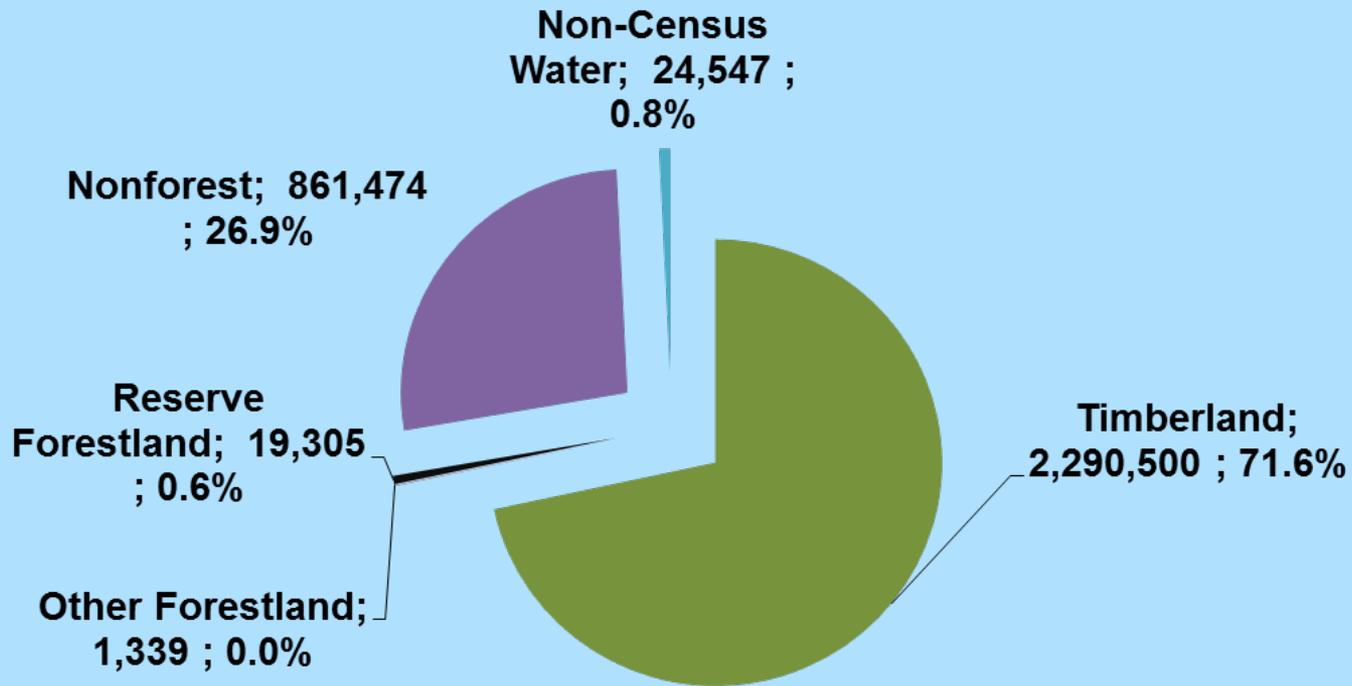
Previous presentation was May, 2012 and was heavily based on FIA and MFS data that was then current to 2010.

So here I am again, 3 years later, with new data that is now current to 2013

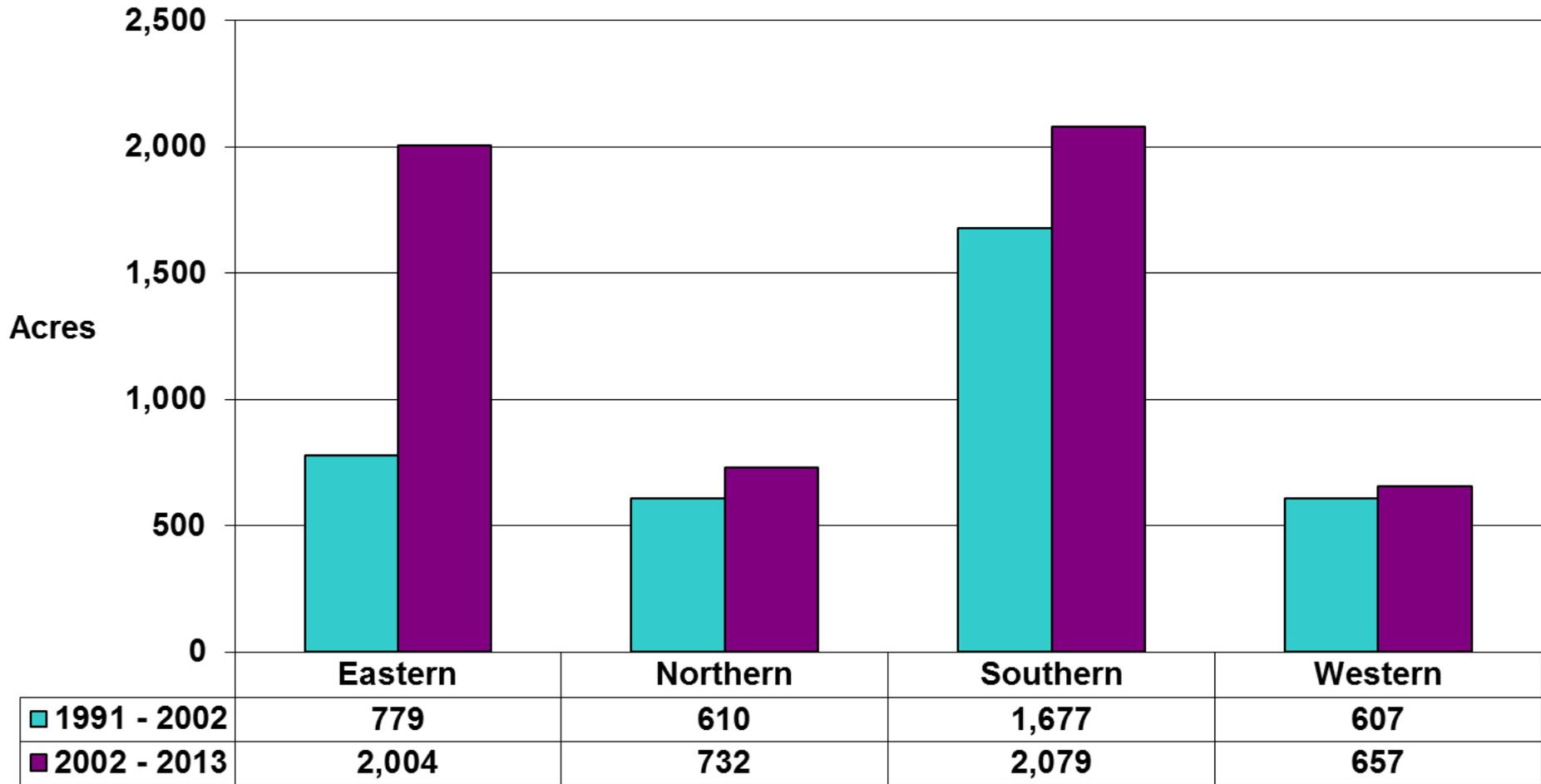
# Topics of interest and the 3-Year Trends

- Land use
- Land use conversion
- Major forest types
- Stand size class
- All live stocking class
- Distance to nearest road
- Species Distribution
- Trees per acre
- Sawtimber volume
- Merchantable volume
- Species/product mix of harvest,
- Harvest intensity
- Net Growth/Removals

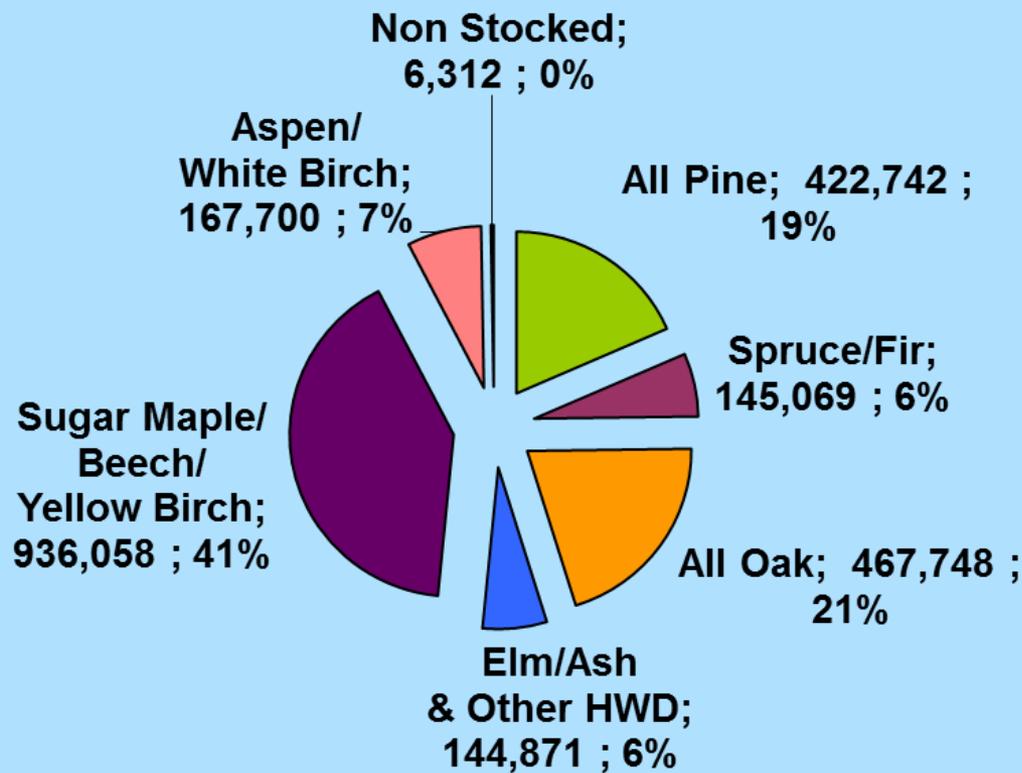
# Southern Megaregion - Land Use category, acres, and percentage



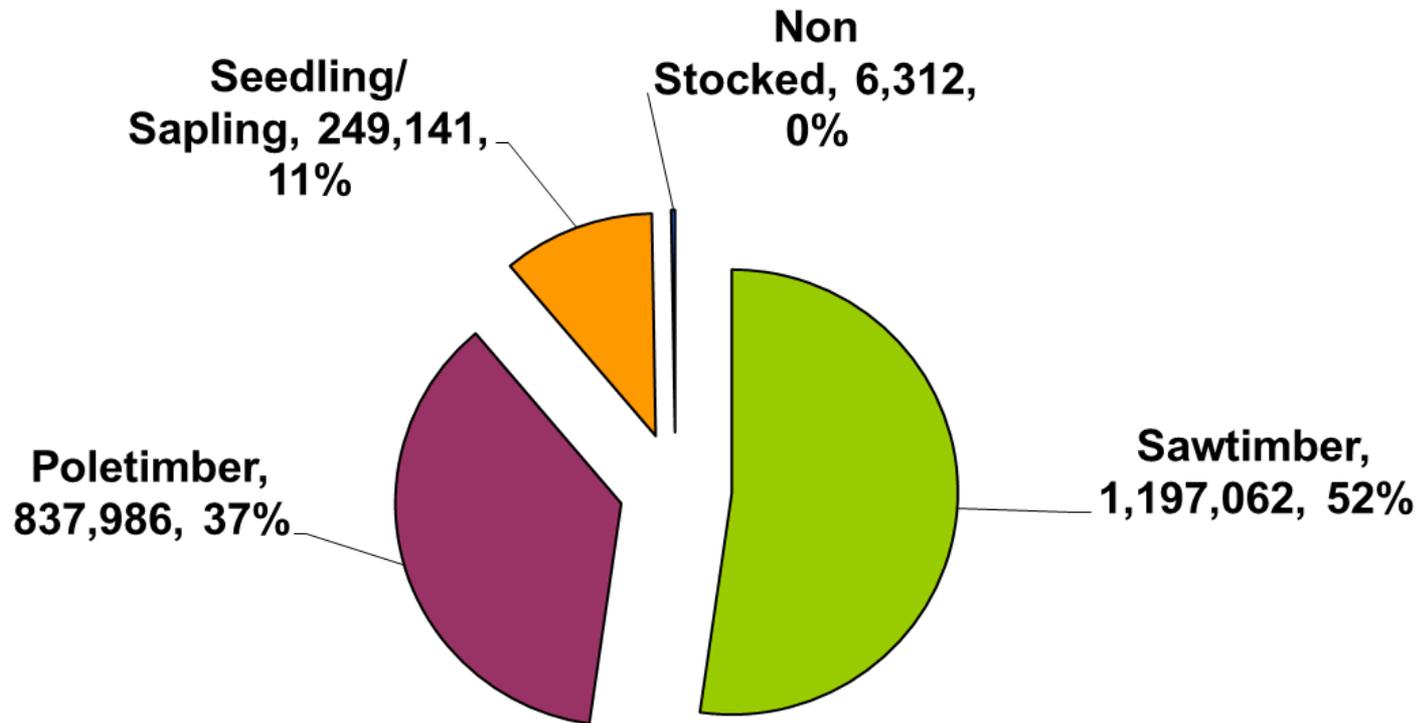
## Average annual forestland conversion to other uses, as reported by landowners for two periods, by megaregion (MFS data sources)



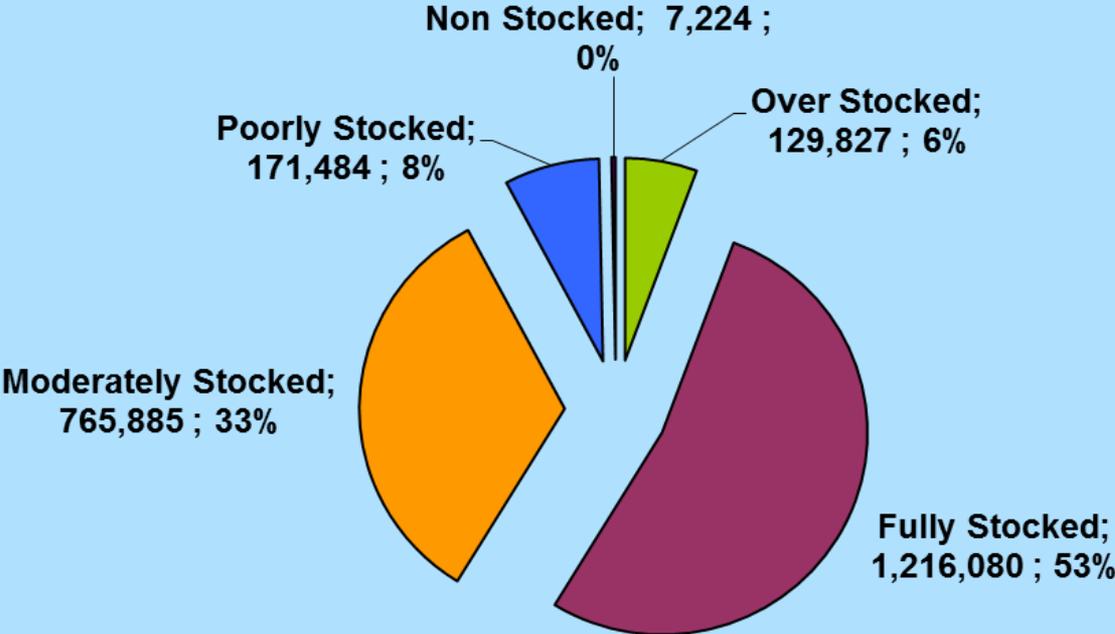
## Southern Megaregion - Major forest types, acres, and percentage



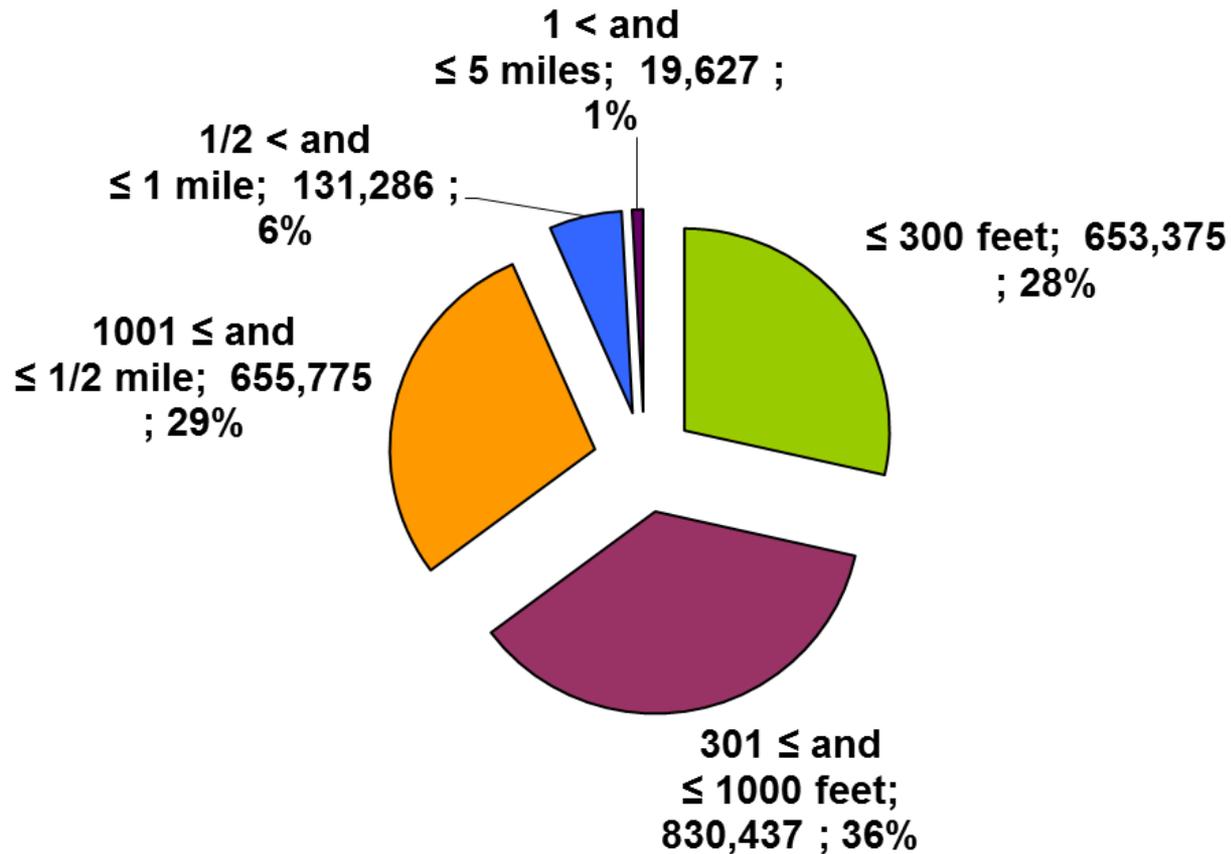
# Southern Megaregion - Stand size class, acres, and percentage



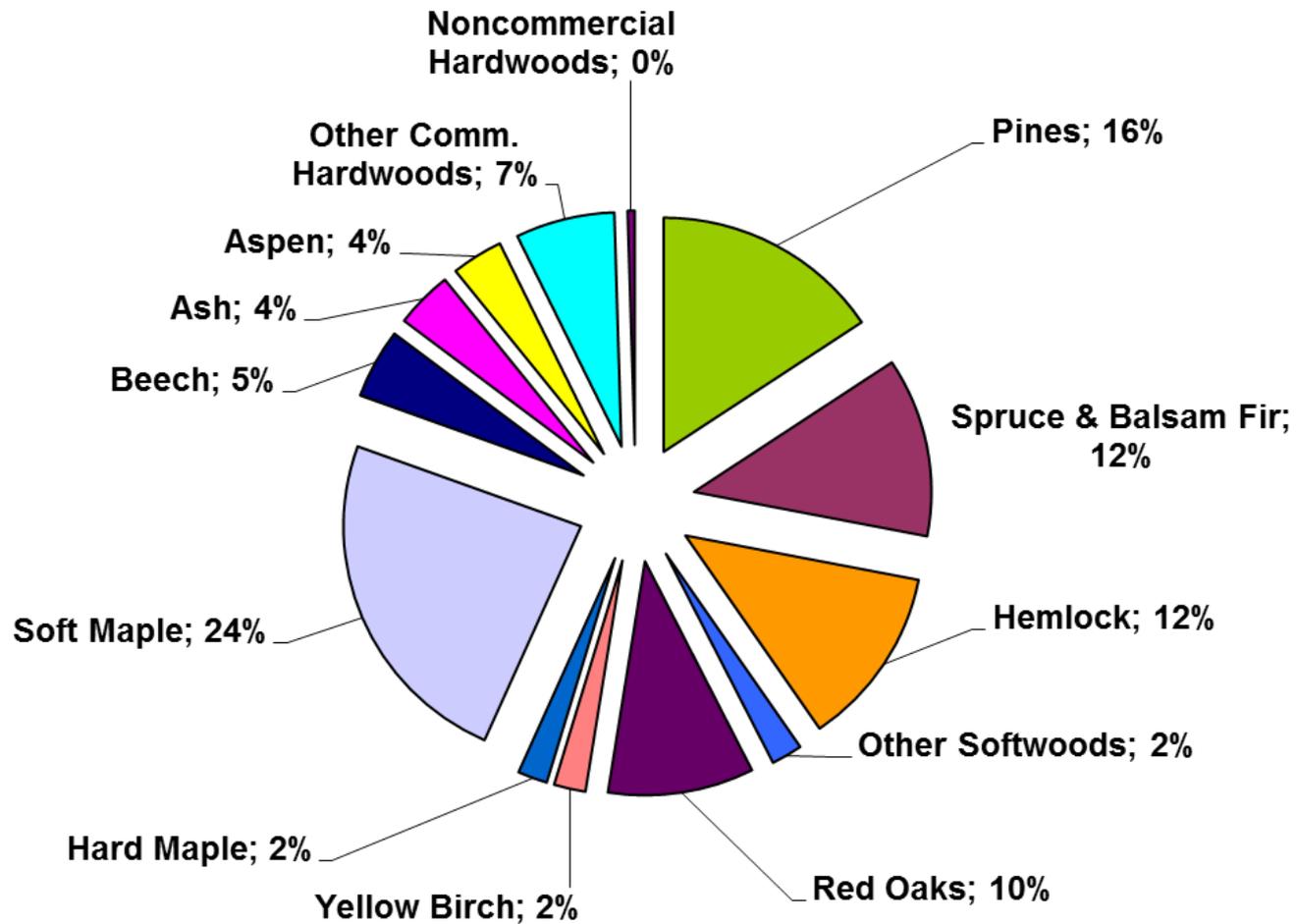
# Southern Megaregion - All live stocking class, acres, and percentage



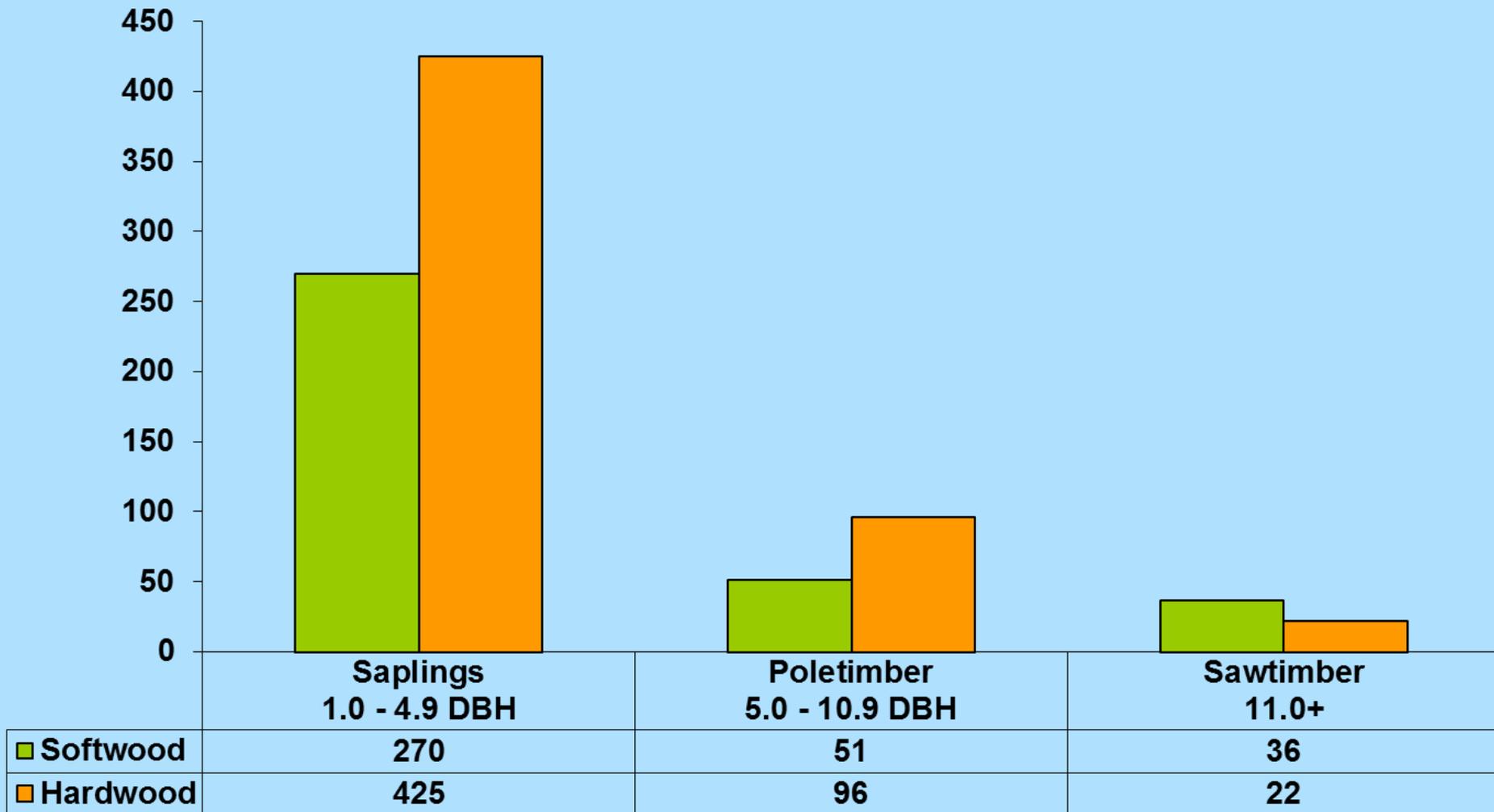
# Southern Megaregion - Road Distance class, acres, and percentage



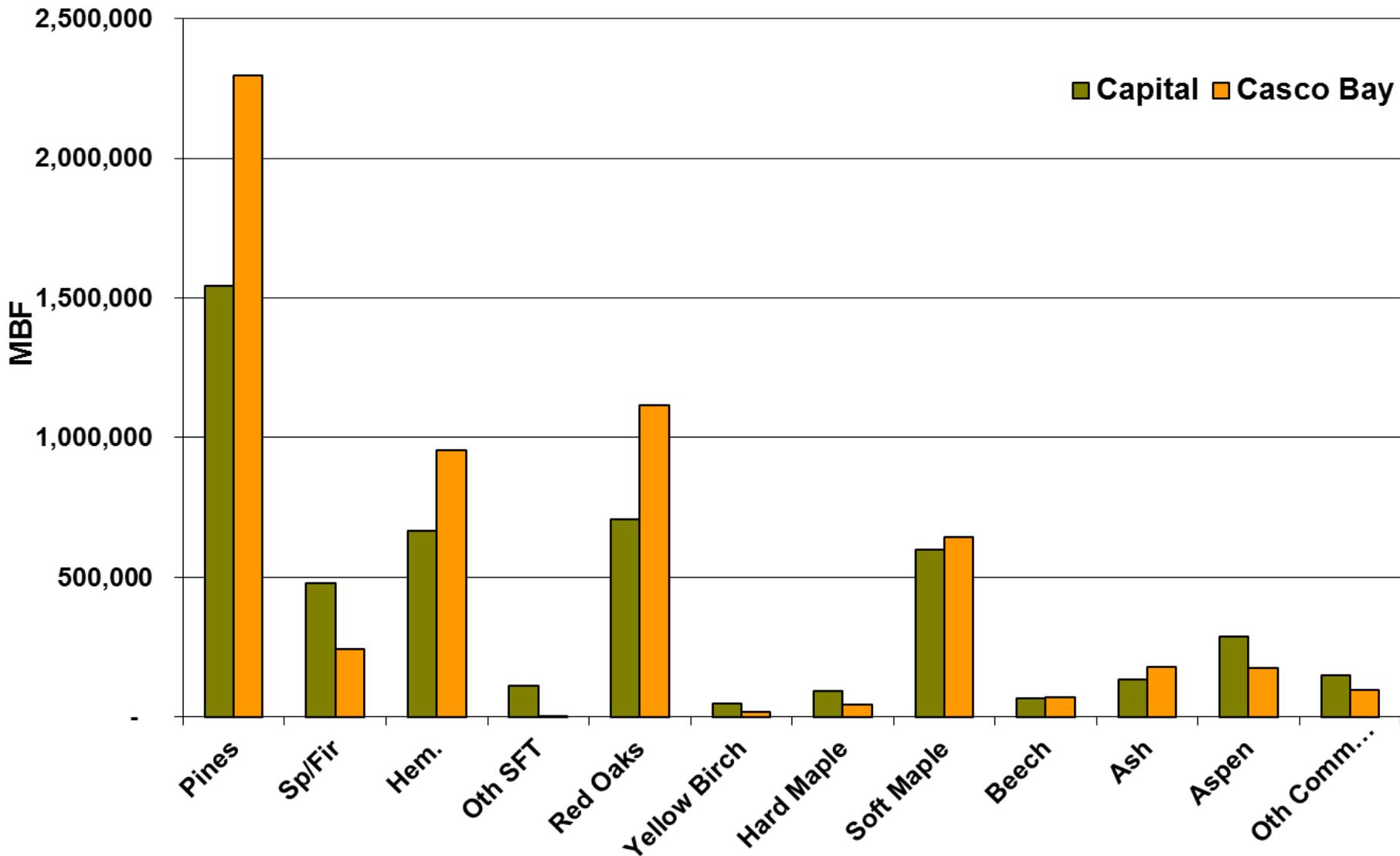
# Southern Megaregion - Species distribution of merchantable live trees, 5.0"+ DBH



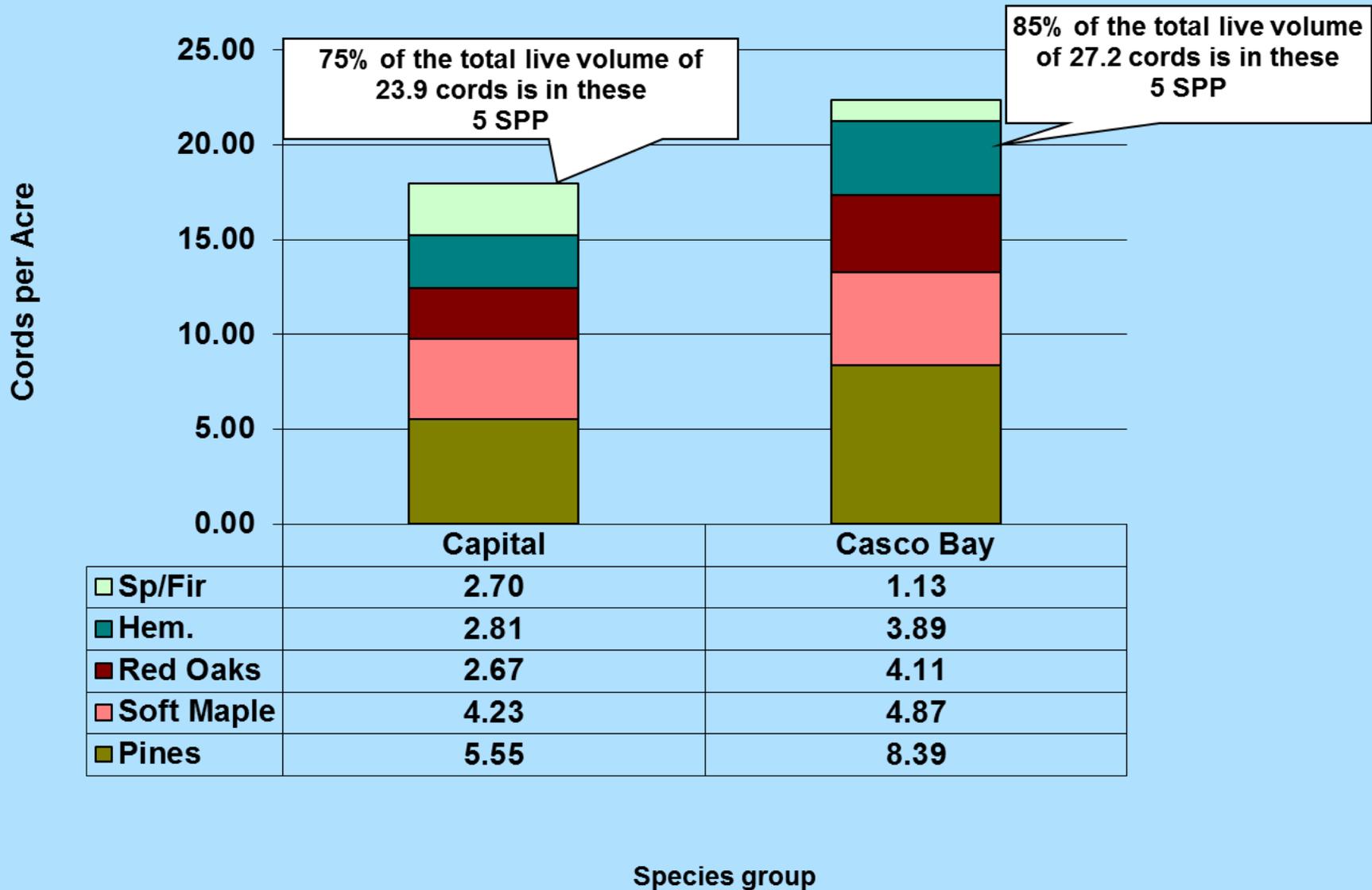
## Southern Megaregion - average trees per acre, by major species group, and dbh range



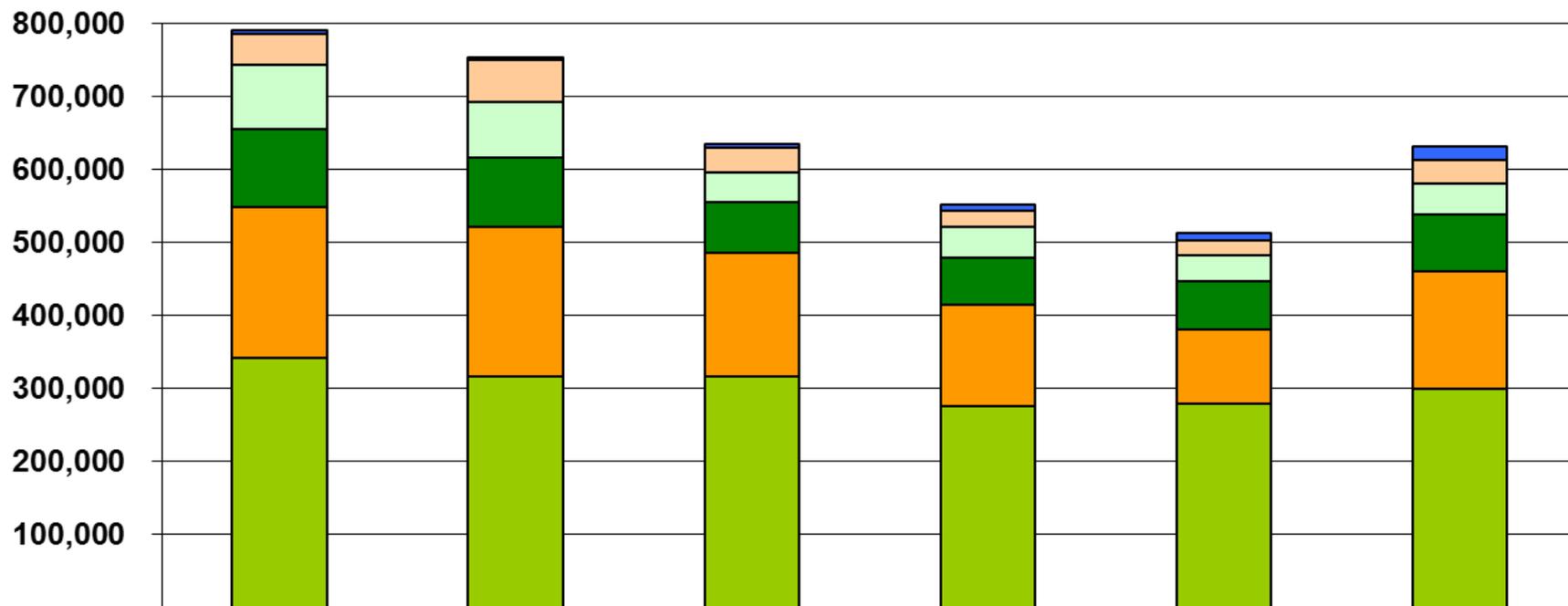
## Sawtimber volumes (MBF) in tree grades 1, 2, and 3, by species group, by FIA Unit



## Top 5 species, merchantable volume per timberland acre, by FIA Unit

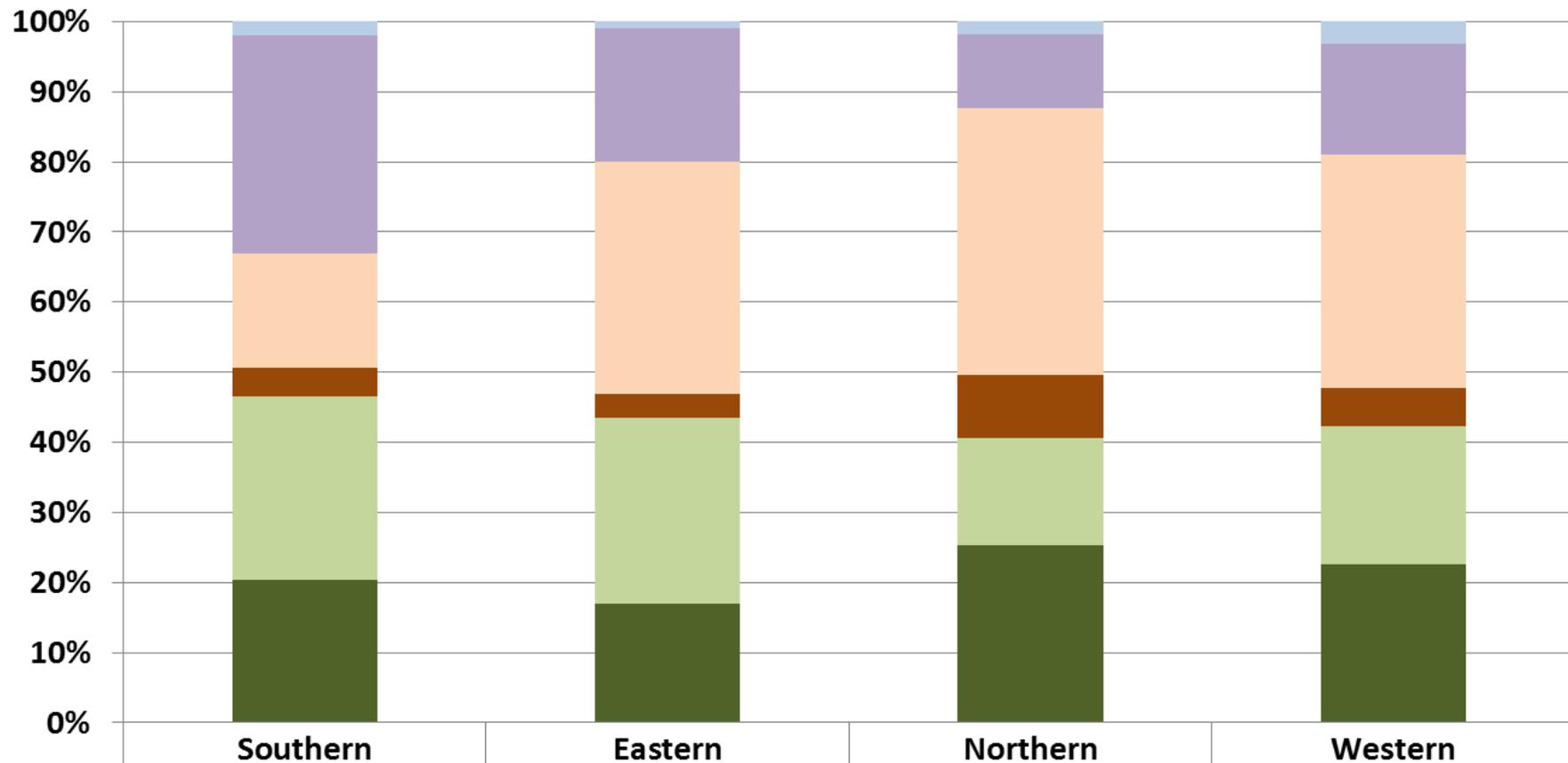


## Cord volume contribution by species group to the total sawlog and pulpwood harvest for six 3-Year periods



	1996 - 1998	1999 - 2001	2002 - 2004	2005 - 2007	2008 - 2010	2011 - 2013
■ Misc SFT	3,930	3,550	3,789	8,518	9,333	19,398
■ Intolerant Hwd	43,074	57,505	34,600	21,442	20,649	31,275
■ Spruce-Fir	88,316	76,559	41,531	43,155	35,449	42,772
■ Hemlock	106,683	94,374	69,092	63,220	65,724	78,607
■ Northern Hwd	207,209	205,187	169,011	140,293	101,893	160,632
■ White & Red Pine	341,078	316,316	316,498	274,955	279,081	299,095

## Distribution of harvest volume by major species and product groupings, 2011 - 2013 average



Firewood	2%	1%	2%	3%
Biomass	31%	19%	10%	16%
HWD Pulp	16%	33%	38%	33%
HWD Saw	4%	3%	9%	5%
SFT Pulp	26%	27%	15%	20%
SFT Saw	20%	17%	25%	23%

# Harvest Intensity (2010 – 2012)

## ➤ Southern Megaregion

- 2.2% of timberland acres were annually harvested, up from 1.9% in 2009
- 40.3 green tons per harvested acre, a 1.6 GT increase since 2009
- 23% Sawtimber (NC)
- 43% Pulpwood (+4%)
- 34% Biomass (-4%)

## ➤ Statewide

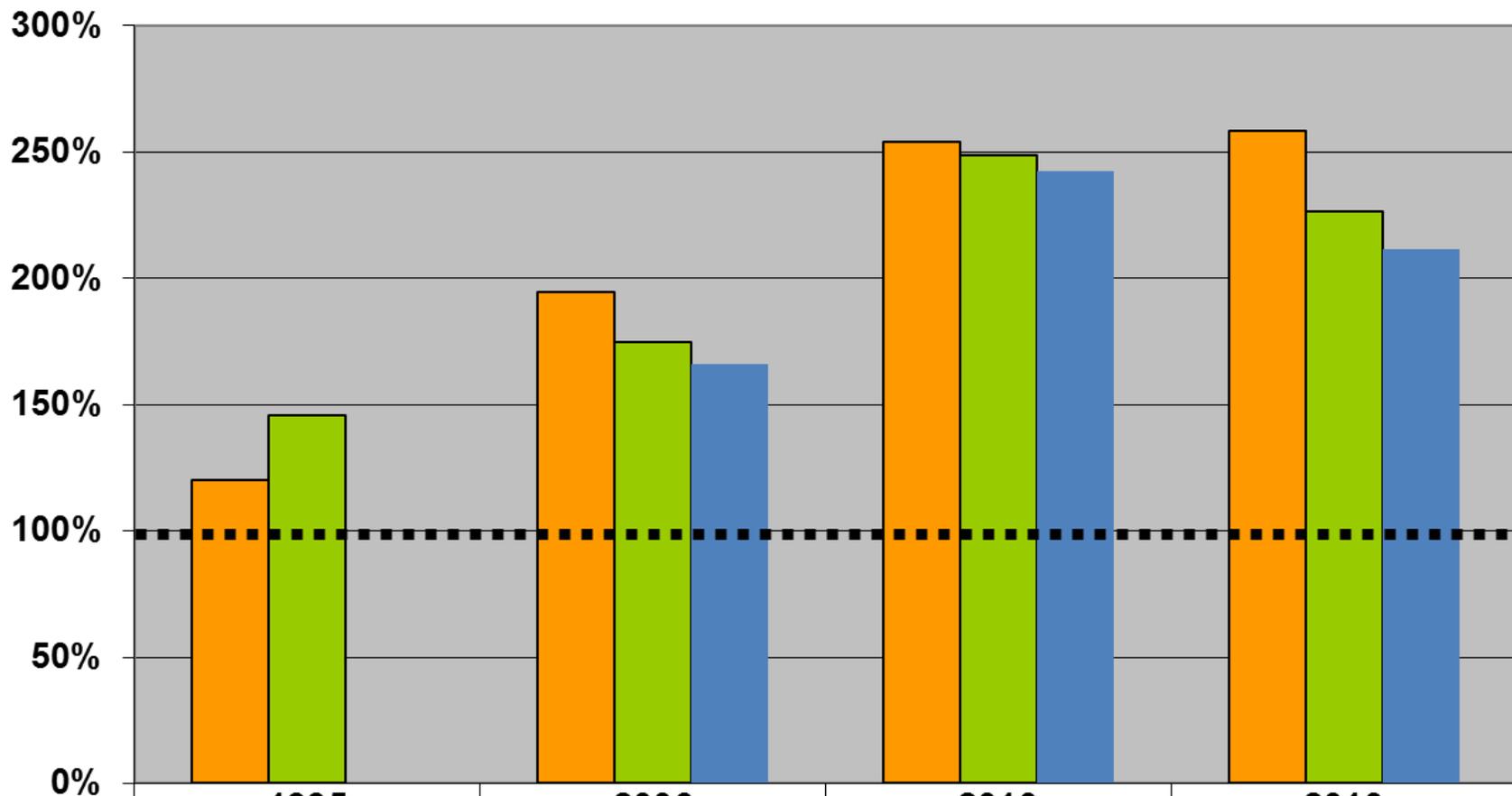
- 2.6% of timberland acres were annually harvested, no change since 2009
- 32.1 green tons per harvested acre (0.5 GT decrease since 2009)
- 25% Sawtimber (-2%)
- 56% Pulpwood (+5%)
- 19% Biomass (-3%)

# Roundwood harvest intensity (1982 – 2013)

- Premises are that all acres have an equal chance of being harvested and harvest volume should be an equal removal from each acre.
- Are harvest volume proportions by megaregion proportional to harvest acres?

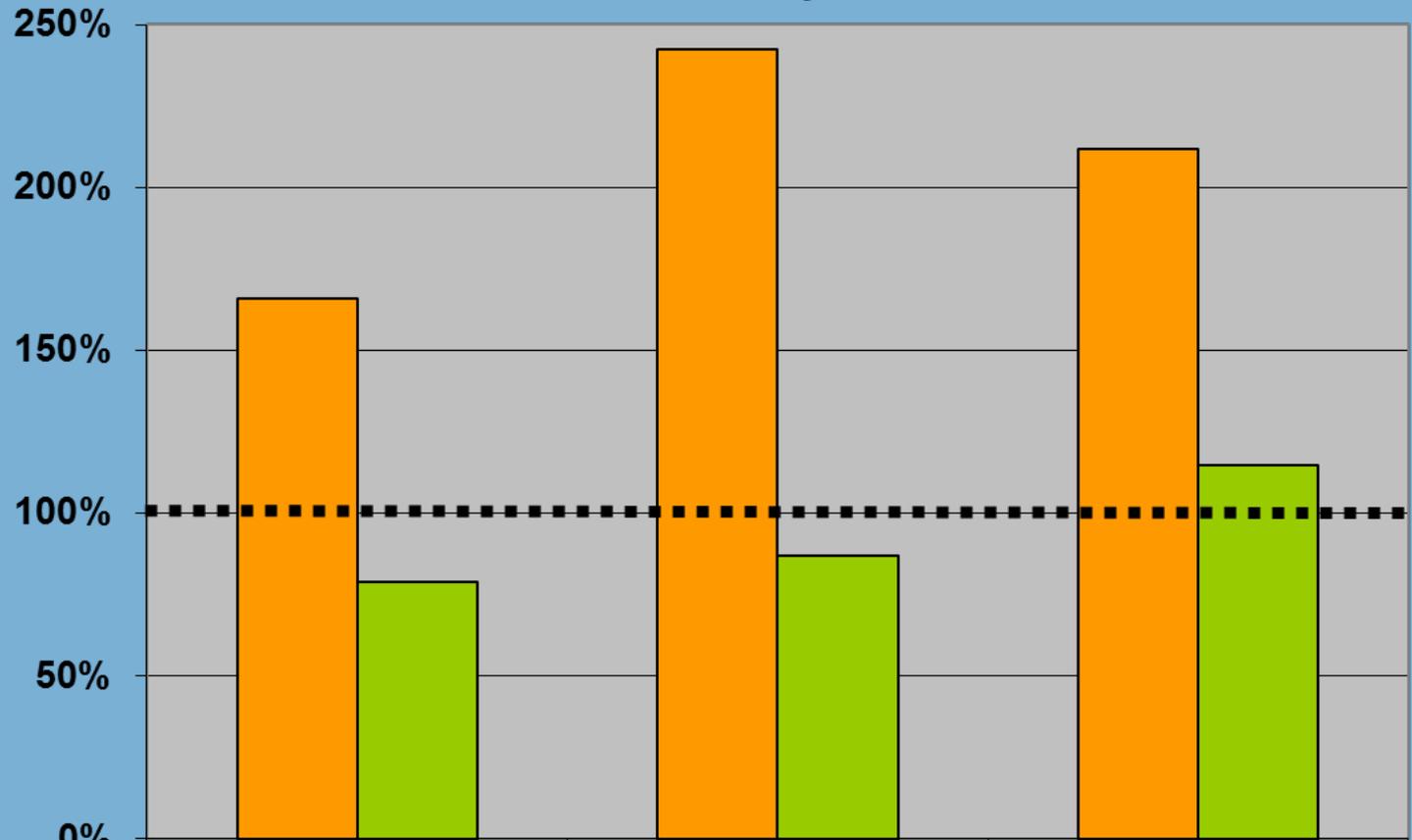
	<u>1982 - 1989</u>			<u>1990 - 2000</u>			<u>2001 - 2013</u>		
	Share of State's Timberland	Share of State's Harvest	Differential (Positive is > Share) (Negative is < Share)	Share of State's Timberland	Share of State's Harvest	Differential (Positive is > Share) (Negative is < Share)	Share of State's Timberland	Share of State's Harvest	Differential (Positive is > Share) (Negative is < Share)
Northern	49.0%	49.0%	0.0%	48.9%	47.3%	-1.6%	48.8%	52.5%	3.7%
Eastern	24.1%	24.7%	0.6%	24.5%	25.0%	0.5%	24.9%	22.3%	-2.7%
Southern	14.0%	11.4%	-2.6%	13.8%	12.9%	-0.9%	13.6%	11.2%	-2.4%
Western	12.9%	14.8%	1.9%	12.8%	14.8%	2.0%	12.7%	14.1%	1.4%

## Southern Megaregion, all species, net growth to removals percentage for 1995, 2006, 2010, and 2013 Inventory Years



<span style="color: orange;">■</span> Sawtimber	<b>120%</b>	<b>195%</b>	<b>254%</b>	<b>258%</b>
<span style="color: green;">■</span> Growing Stock	<b>146%</b>	<b>175%</b>	<b>249%</b>	<b>227%</b>
<span style="color: blue;">■</span> All Live		<b>166%</b>	<b>242%</b>	<b>212%</b>

**Southern megaregion and the rest of state,  
all live and all species net growth to removals (%)  
for 2006, 2010, and 2013 Inventory Years**



	2006	2010	2013
<b>Southern Megaregion</b>	<b>166%</b>	<b>242%</b>	<b>212%</b>
<b>Rest of State</b>	<b>79%</b>	<b>87%</b>	<b>115%</b>

# Questions

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