

Criterion 6

Maintenance and Enhancement of Long Term Multiple Socio-economic Benefits to Meet the Needs of Society

**Review Workshops for the Draft National Report on
Sustainable Forests - 2010**

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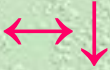












Criterion 6 – Maintenance of benefits

- Indicator objectives
 - Measure the social, economic and cultural contributions of forests
 - Describe the equity of the flows of benefits
 - Assess the ability of forests to meet the needs of future generations
- Sub-criteria
 - Production and consumption
 - Investments in forestry and the forest sector
 - Employment and community needs
 - Recreation and tourism
 - Cultural, social and spiritual needs and values

Production and consumption – wood and paper products

Recent Trend

Recent Level

Production volume and value & harvest 		\$165 billion in 2006
Consumption volume and value		
Per capita harvest 		
Per capita consumption		63 cubic feet
Import share of consumption 		38% in 2006
Paper recycling (U.S. use) (Paper recovery) 		38% in 2006
		(51% in 2006)
Wood recycling 		10% in 2006

Production and consumption – wood and paper products (selected details)

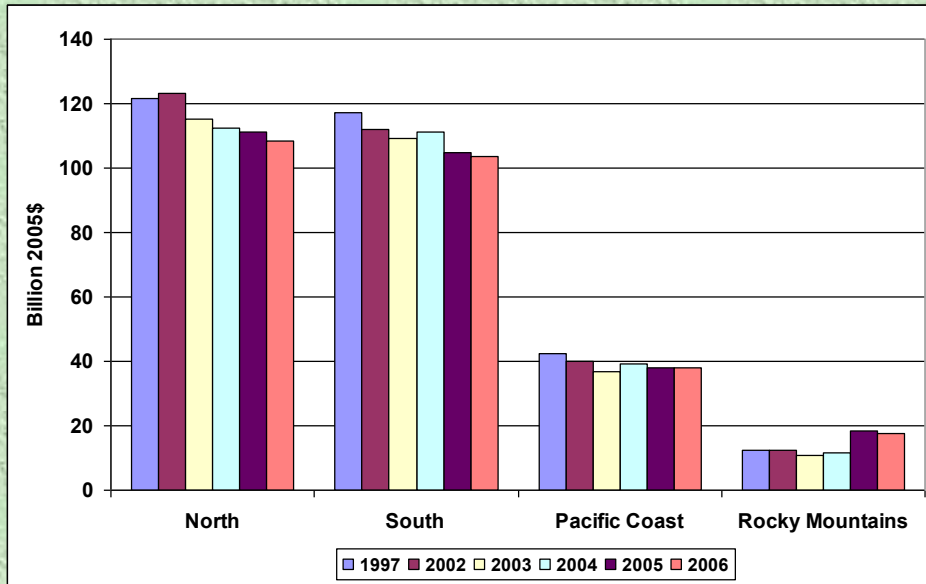


Figure 25-6 Value of shipments in wood and paper products by region (billion 2005\$)

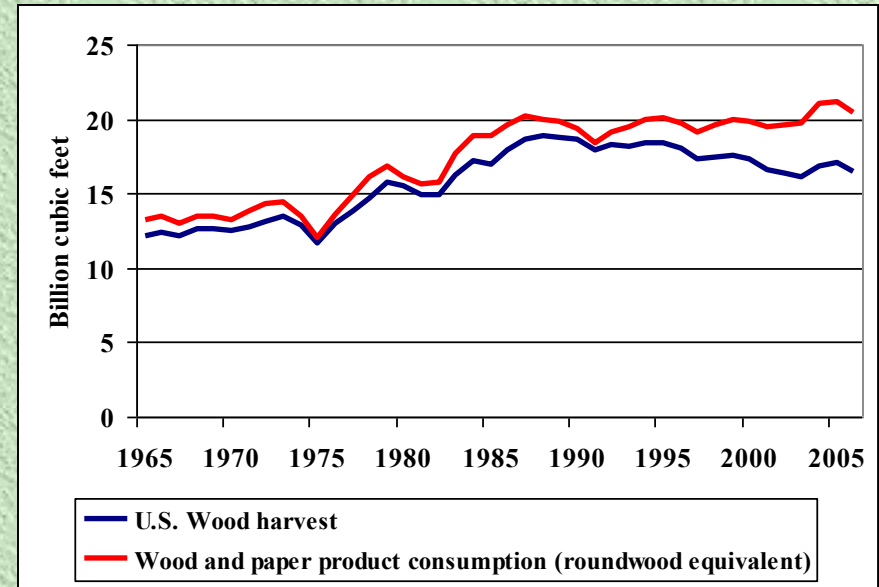


Figure 28-1 U.S. Wood harvest and wood & paper product and fuelwood consumption,

Production and consumption – Non wood forest products/ Environmental Services

Non wood FP production	↔	\$175 million in 2006
Non wood FP consumption	↔	\$301 million in 2006
Per capita Non wood FP	↔ ↓	\$1 per capita
Environmental services 😊	↑↑	\$521 Million in 2006 (up 18% in 2 years)

Production and consumption – Environmental Services

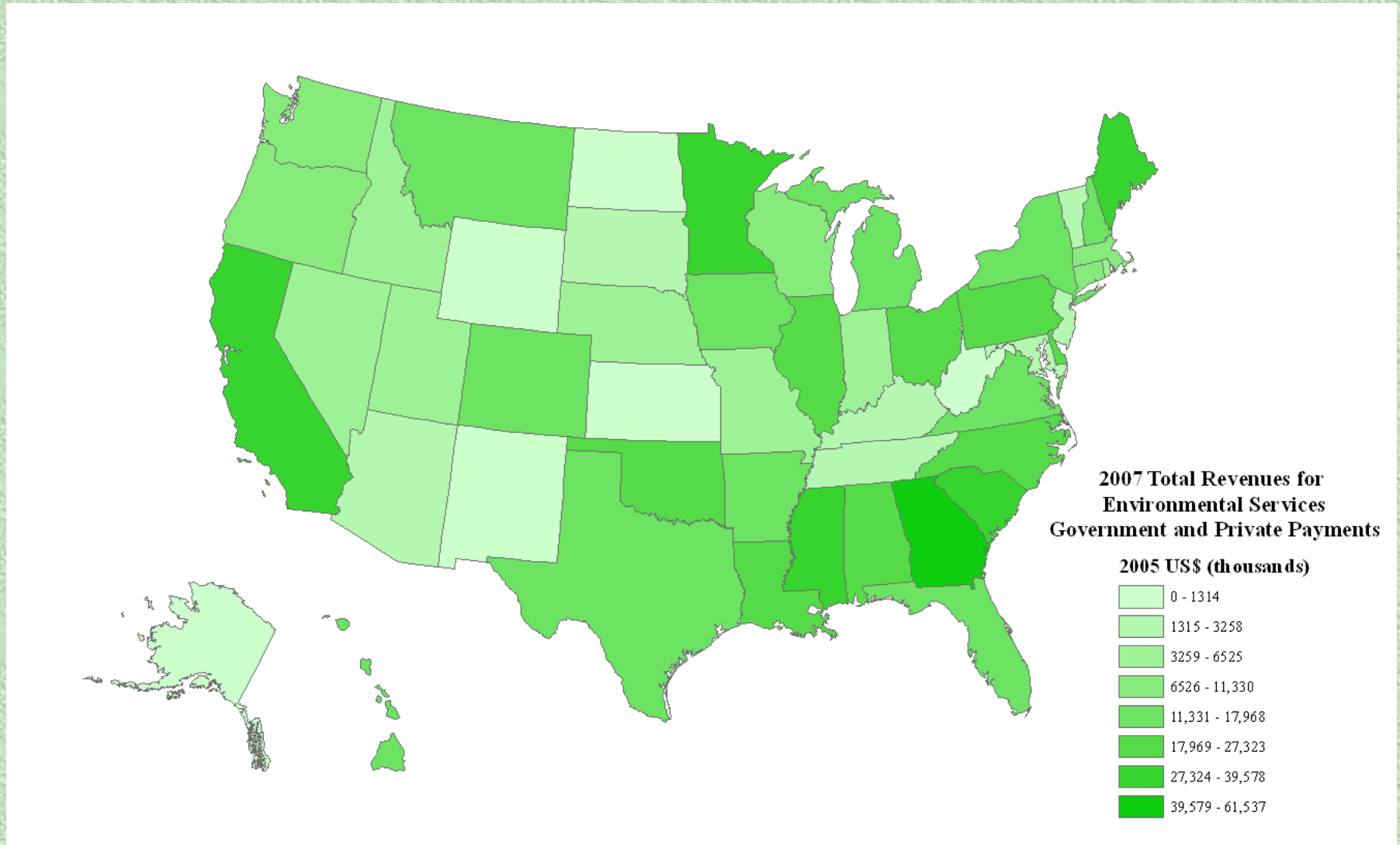


Figure 27-2. **Total payments** in 2007 from Federal and State agencies and non-government organizations and individuals in constant 2005 dollars (\$1000s).

Investments in forestry and the forest sector

– forest sector



State forestry programs	↔ ?	\$2.1 billion
Forest Service Capital investments	?	\$501/ \$390 million in 2005/ 2007
Wood and paper industry capital investments	Volatile	\$3.5 billion in 2006
Private Forest Recreation capital investment	?	\$1.5 billion in 2006
National Park concessionaires facility improvements	?	\$22 million in 2006
Wood products industry operating expenses	↑ (to 2006)	\$84 billion in 2006
Paper products industry operating expenses	↓	\$107 billion in 2006

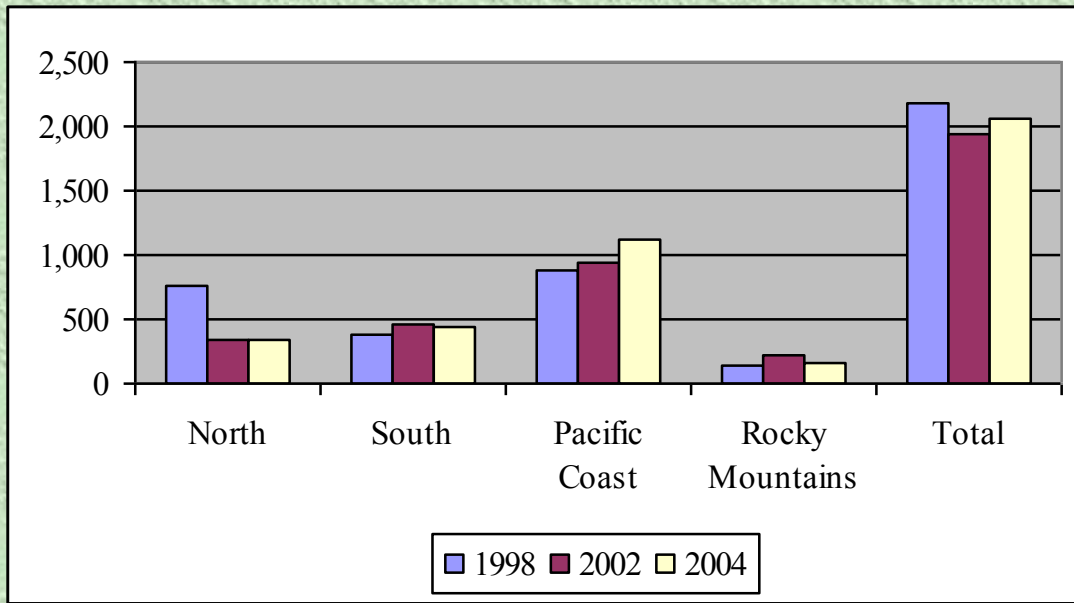
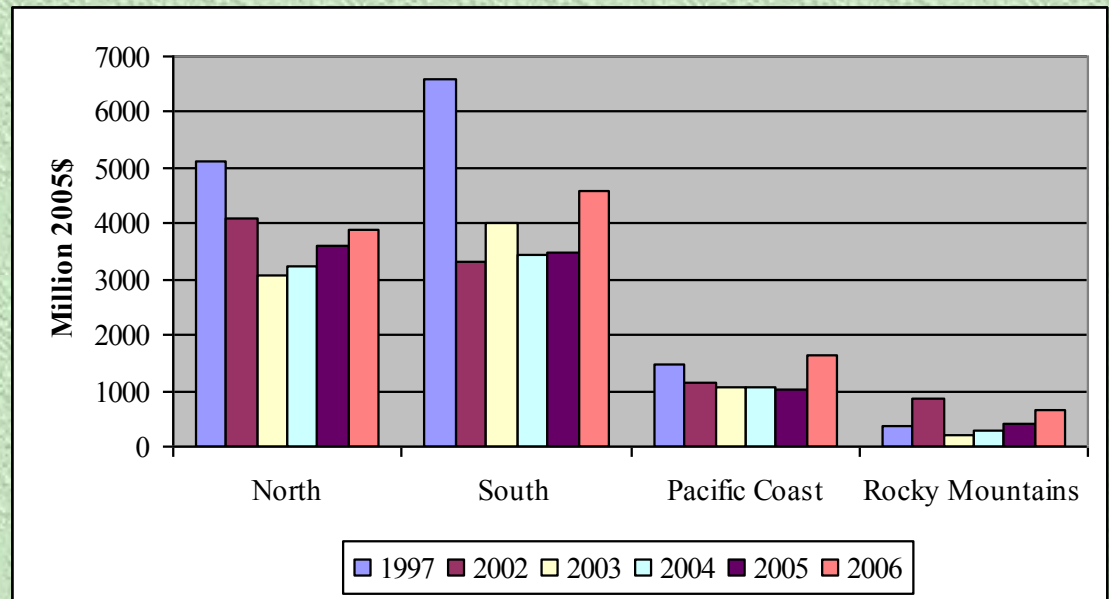
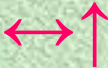








Figure 34-1 Annual state forestry program expenditures/ costs by region (million 2005\$)
















Figure 34-3 Capital expenditure in wood products and paper products industries by Region, 1997 and 2002 to 2006 (million 2005\$)



Investments in forestry and the forest sector – research and education

Forest Service Research expenditures		\$326 million in 2008
University research 		\$282 million in 2006
Forest science degrees 		1,810 in 2006 (down 20% in 5 years)
Forest Service Conservation education programs 		\$18 million in 2006 4 million people reached in 2006
Agenda 2020 Forest products research (federal + industry)		\$30 million in 2003


Employment and community needs

Forest service NFS jobs	 	22,867 in 2006
State agencies jobs	  ?	24,507 in 2004
Forest based recreation jobs	 	551,000 in 2006 ?
Non wood FP jobs	?	Many thousands
Forest Service Research jobs	 	1,760 in 2006
University & college jobs	?	1,361 in 2001
Wood and paper industry jobs	  	1.3 million in 2006
Wood & paper industry wages	Paper  Solidwood 	
Wood & paper industry injuries	 	
Distribution of revenues	?	Payroll 80%, profits 18%
Land used for subsistence		AK, HI and native lands use protected
Community Resilience	?	



Recreation and tourism

Public forest - access	↔	330 million ac, assumed open to the public
Corporate forest - access	?	137 million ac, some public access
Family & other forest - access 😞	↓	284 million ac, 11% allow access - 2001
People engaged in outdoor recreation - - 😊	↑	217 million in 2007
Percent of population engaged - - 😞	↓	
Outdoor activity days -- 😊	↑ ↑	83 billion in 2007
Activity days per active person- ↑	↑	

Cultural, social and spiritual needs and values

<p>Area protected for range of values</p> <p>Public</p> <p>Private </p>	<p>↔</p> <p>↑ ↑</p>	<p>328 million acres</p> <p>37million acres+</p>
<p>Importance of forests</p>	<p>?</p>	<p>Focus groups ranking of importance categories</p> <p>Environmental/ biologic</p> <p>Cultural heritage</p> <p>Recreation</p> <p>Products</p> <p>Sense of place</p> <p>Health & well being</p> <p>Aesthetics</p> <p>Spiritual</p> <p>Diversity</p> <p>Education</p> <p>Economics</p> <p>Privacy</p>

Are C 6 Indicator measures showing trends that favor sustaining benefits?

Sub criteria			??
Production and consumption			
--Wood products	2	4	2
--Non Wood products	-	-	3
--Environmental services	1	-	-
Investments			
--Forestry and forest sector	-	-	7
--Education and research	2	1	2
Employment and community needs	2	1	10
Cultural, social and spiritual needs and values	1	-	2
All Criterion 6 measures	8	6	26