

Economic and social aspects of Forests and Plantations

Manifestations against eucalyptus silviculture I



Source: © Schumacher (2007)

Manifestations against eucalyptus silviculture II



Manifestations against eucalyptus silviculture III



Manifestations against eucalyptus silviculture IV



Manifestations against eucalyptus silviculture V



Manifestations against eucalyptus silviculture VI



Manifestations against eucalyptus silviculture VII



Manifestations against eucalyptus silviculture VIII



Source: Cristiano Lameira (2009)

Extension with AGPTEA



Source: © Schumacher (2009)

Debarking on acacia in South Africa



Source: © Schumacher (2004)

Debarking on acácia in South Brazil



Source: © Schumacher (2012)

*Homo erectus - Pleistocene
(2 million to 10,000 years ago)*



Wood collection and Transportation in the region of Ulm (1483)



Collection and transport of wood in the present days



Source: ©Katzensteiner - Nepal 2008

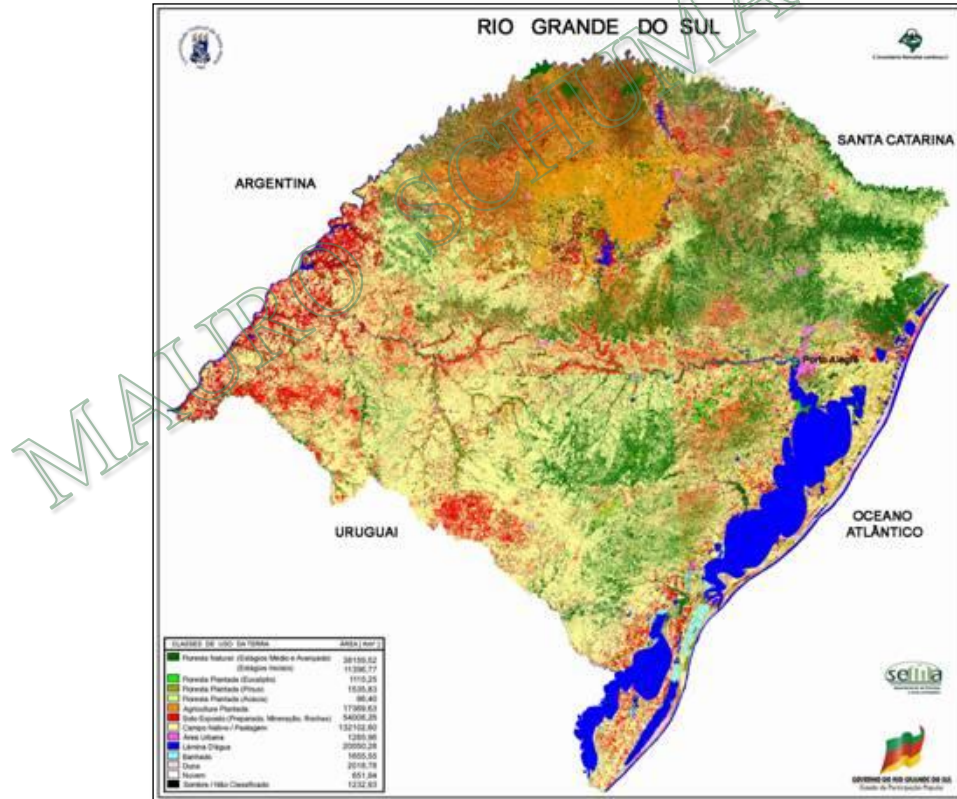
Comparison of yield of conifers and hardwoods in Brazil with other countries (2010)



Source: ABRAF (2011)

Forest Coverage of RS in 2001:

- 5.294.437 ha – 18,72%
- Native forests: 4.932.927 ha – 17,44%
- Plantations: 361.510 ha – 1,28%



Forest Coverage of RS in 2001

Native forests: 4.932.927 ha – 17,44%

TIPO FITOGEOGRÁFICO	ÁREA (ha)	%	% ESTADO
Floresta Ombrófila Densa	68.375	1,39	0,24
Floresta Ombrófila Mista	919.565	18,64	3,25
Floresta Estacional Decidual	1.176.245	23,84	4,16
Floresta Estacional Semidecidual	210.275	4,26	0,74
Estepe (Parque Espinilho)	2.289	0,05	0,01
Savana (Arbórea aberta e gramíneo lenhosa)	1.765.036	35,78	6,24
Estepe (Gramíneo lenhosa)	200.286	4,06	0,71
Savana Estépica	122.087	2,47	0,43
Áreas de Formações Pioneiras	148.804	3,02	0,53
Áreas de Tensão Ecológica	319.965	6,49	1,13
TOTAL	4.932.927	100,00	17,44

Source: IFC/RS (2001)

Forest Coverage of RS in 2001

Plantations: 361.510 ha – 1,28%

REGIÃO FISIAGRÁFICA	<i>Eucalyptus</i> spp. (ha)	<i>Pinus</i> spp. (ha)	<i>Acacia mearnsii</i> (ha)	TOTAL		ESTADO
				(ha)	(%)	
1. Litoral	1.588	53.297	-	54.885	15,18	0,19
2. Depressão Central	45.143	9.592	4.049	58.784	16,26	0,21
3. Encosta do Sudeste	2.729	2.449	9.114	14.292	3,95	0,05
4. Serra do Sudeste	11.407	39.110	38.777	89.294	24,70	0,32
5. Campanha	26.995	4.069	535	31.599	8,74	0,11
6. Missões	5.627	152	3.259	9.038	2,50	0,03
7. Alto Uruguai	6.426	2.175	1.905	10.506	2,91	0,04
8. Planalto Médio	4.337	17.270	886	22.493	6,22	0,08
9. Encosta Inferior Nordeste	7.303	5.380	36.258	48.941	13,54	0,17
10. Encosta Superior Nordeste	-	1.366	597	1.963	0,55	0,01
11. Campos de Cima da Serra	-	18.704	1.011	19.715	5,45	0,07
TOTAL	111.555	153.564	96.391	361.510	100,00	1,28
%	30,86	42,48	26,66			

Black Forest - Germany



Source: © Schumacher (2010)

Tourism in the Black Forest I



Source: © Schumacher (2010)

Tourism in the Black Forest II



Source: © Schumacher (2010)

Recreation in the Forest



Hunting activity in forests



Source: © Schumacher (2008)

Wood for energy



Source: © Schumacher (2002)

Agroforestry



Source: © Schumacher (2007)

Silvopasture System



Agroforestry



Agroforestry



Source: © Schumacher (2007)

Agroforestry



Source: © Schumacher (2010)

Agroforestry



Source: © Schumacher (2007)

Agroforestry



Source: © Schumacher (2007)

Agriculture in the landscape



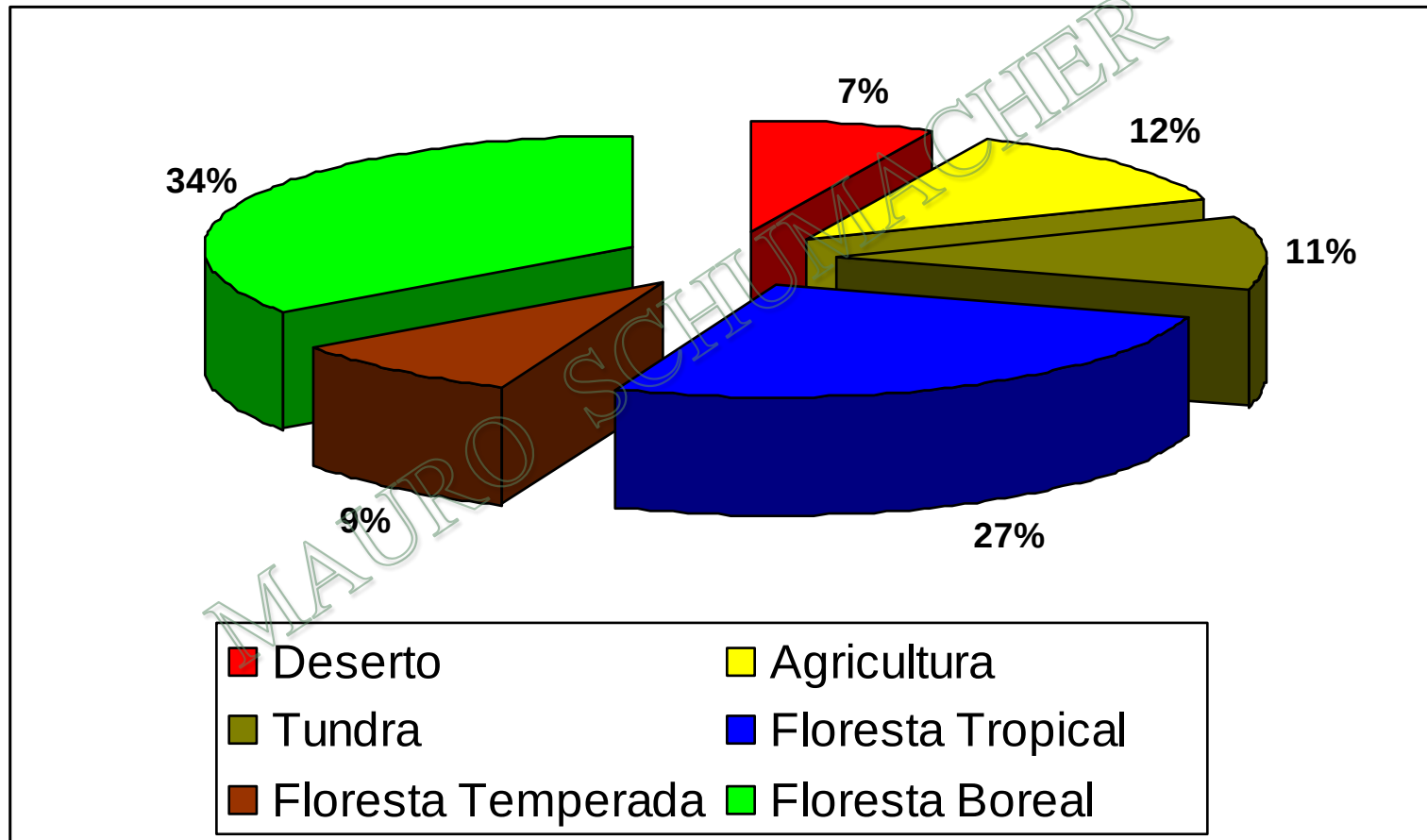
Source: © Schumacher (2000)

Carbon sequestration in forests and plantations



Source: © Schumacher (2010)

Carbon stock by ecosystem



Source: Adapted from FAO (2001)

