











FORESTS IN SLOVAKIA

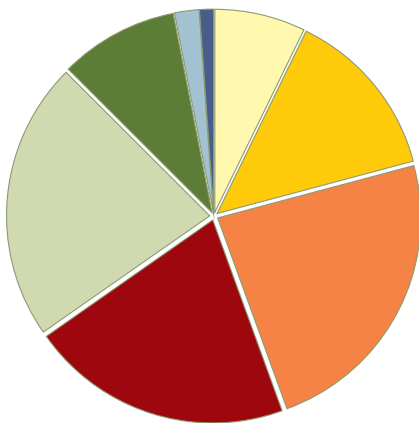


2013

NATURAL CONDITIONS IN THE FORESTS IN SLOVAKIA

Area									Together
ha	138 744	265 066	459 745	404 047	427 837	183 246	40 350	21 265	1 940 300
%	7.2	13.7	23.7	20.8	21.9	9.5	2.1	1.1	100

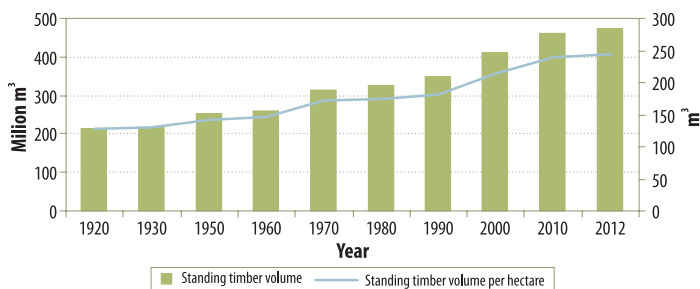
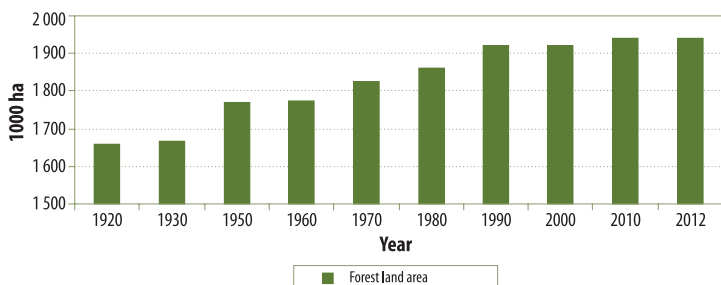
-  Oak altitudinal vegetation zone
-  Oak-beech altitudinal vegetation zone
-  Fir-beech altitudinal vegetation zone
-  Spruce altitudinal vegetation zone
-  Beech-oak altitudinal vegetation zone
-  Beech altitudinal vegetation zone
-  Spruce-beech-fir altitudinal vegetation zone
-  Dwarf pine altitudinal vegetation zone



DEVELOPMENT OF BASIC DATA ON FORESTS IN SLOVAKIA

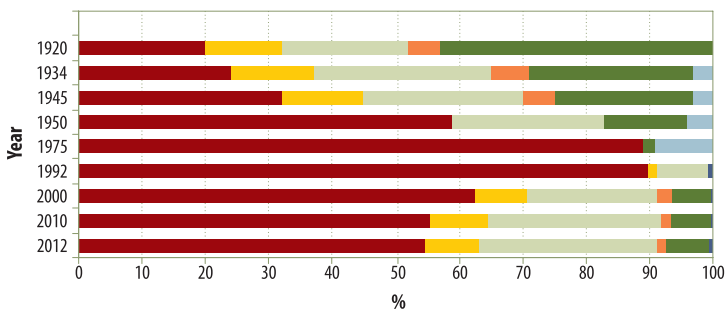
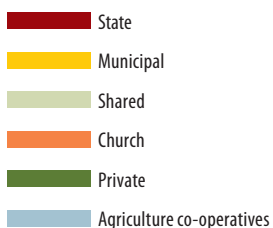
Indicators	Year										
	1920	1930	1950	1960	1970	1980	1990	2000	2010	2012	
1000 ha	1 659	1 668	1 771	1 776	1 827	1 862	1 922	1 921	1 939	1 940	
%	33.9	34.1	36.1	36.2	37.3	38.0	39.2	39.2	41.0	41.0	
ha	0.55	0.50	0.51	0.45	0.40	0.37	0.36	0.36	0.36	0.36	
Mil. m ³	213.3	217.9	251.2	258.8	313.3	324.0	348.5	410.0	462.0	472.2	
m ³ /ha	129	131	142	146	171	174	181	215	239	244	
m ³	71	66	73	65	69	65	66	76	85	87	

- Forest land area
- Standing timber volume
- Percentage of forest land
- Standing timber volume per hectare
- Forest land area per capita
- Standing timber volume per capita



DEVELOPMENT OF FORESTS USE

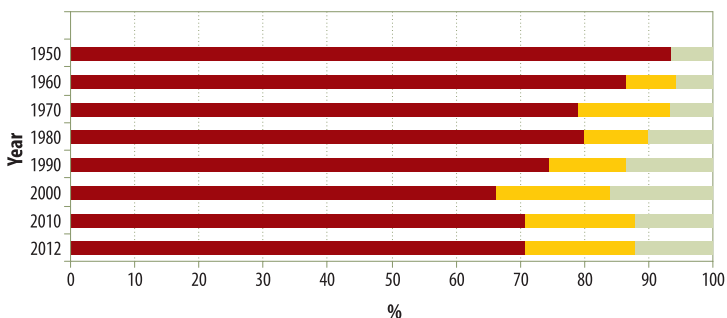
Forest user	Year								
	1920	1934	1945	1950	1975	1992	2000	2010	2012
	%								
State	20	24	32	59	89	89.8	62.4	55.4	54.6
Municipal	12	13	13	0	0	1.5	8.5	9.1	8.6
Shared	20	28	25	24	0	8.1	20.4	27.4	28.0
Church	5	6	5	0	0	0	2.4	1.4	1.4
Private	43	26	22	13	2	0.5	6.0	6.4	7.0
Agriculture co-operatives	0	3	3	4	9	0.1	0.3	0.3	0.4



DEVELOPMENT OF FOREST CATEGORIES IN SLOVAKIA ACCORDING TO DOMINANT FUNCTIONS

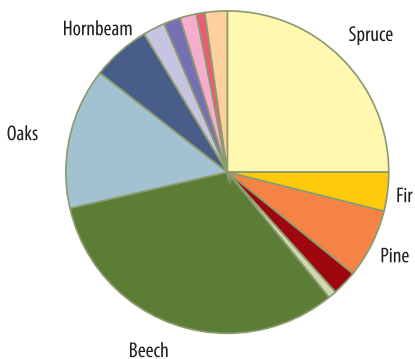
Forest categories	Year							
	1950	1960	1970	1980	1990	2000	2010	2012
	%							
Commercial forests	93.5	86.4	79.1	80.0	74.5	66.3	70.7	70.7
Special purpose forests	0.0	7.9	14.3	10.1	12.0	17.7	17.1	17.1
Protective forests	6.5	5.7	6.6	9.9	13.5	16.0	12.2	12.2

- Commercial forests
- Special purpose forests
- Protective forests



ACTUAL TREE COMPOSITION IN THE FORESTS IN SLOVAKIA

Tree species		%
	Spruce	24.9
	Fir	4.0
	Pine	6.9
	Larch	2.4
	Dwarf pine	1.1
	Coniferous	39.3

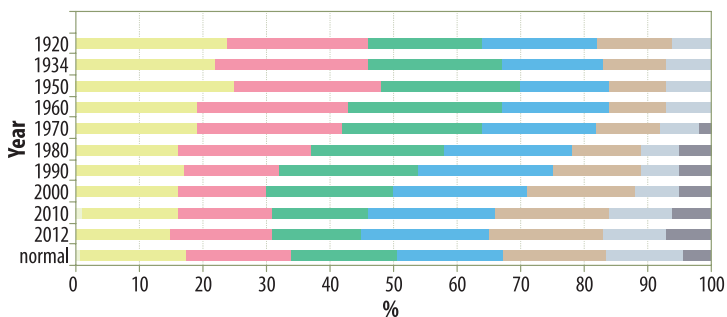


Tree species		%
	Beech	32.2
	Oaks	14.1
	Hornbeam	5.9
	Maple	2.2
	Ash	1.6
	Robinia	1.7
	Birch	0.8
	Other	2.2
	Broadleaved	60.7

STRUCTURE OF FORESTS IN SLOVAKIA ACCORDING TO AGE CLASSES

Age classes	Year										
	1920	1934	1950	1960	1970	1980	1990	2000	2010	2012	Normal
	%										
0	0	0	0	0	0	0	0	1	1	0	0.8
1	24	22	25	19	19	16	17	15	15	15	16.6
2	22	24	23	24	23	21	15	15	15	16	16.6
3	18	21	22	24	22	21	22	15	15	14	16.6
4	18	16	14	17	18	20	21	20	20	20	16.6
5	12	10	9	9	10	11	14	18	18	18	16.3
6	6	7	7	7	6	6	6	10	10	10	12.1
7	0	0	0	0	2	5	5	6	6	7	4.4

- 0. age class (unstocked area)
- 1. age class (1 – 20 years)
- 2. age class (21 – 40 years)
- 3. age class (41 – 60 years)
- 4. age class (61 – 80 years)
- 5. age class (81 – 100 years)
- 6. age class (101 – 120 years)
- 7. age class (120 years and more)

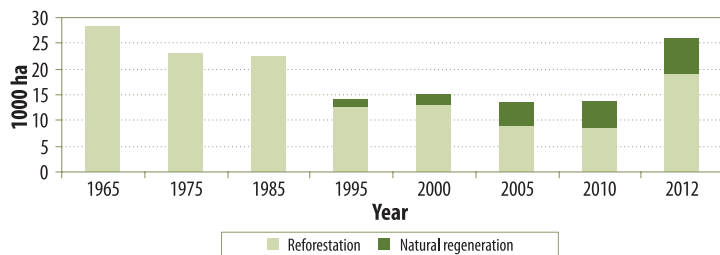
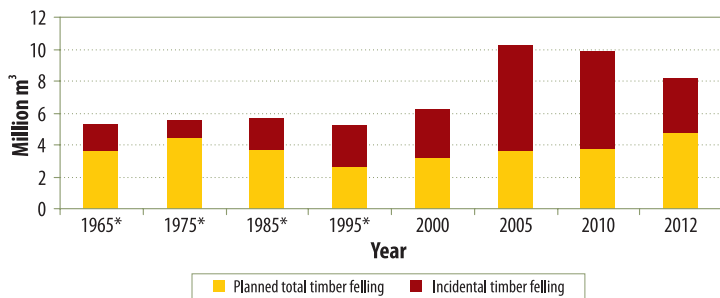


DEVELOPMENT OF INDICATORS OF MANAGEMENT IN THE FORESTS OF SLOVAKIA

Indicators	Year							
	1965*	1975*	1985*	1995*	2000	2005	2010	2012
Mil. m ³	5.27	5.54	5.64	5.25	6.22	10.19	9.86	8.23
	1.67	1.12	1.90	2.65	3.02	6.53	6.16	3.50
ha	28 252	22 951	22 391	12 609	12 923	8 922	8 520	11 964
	0	0	0	1 407	2 134	4 582	5 460	7 047

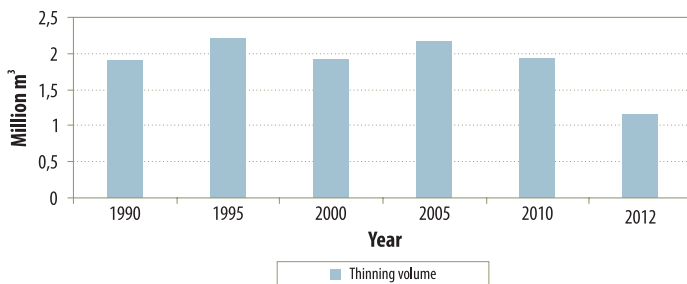
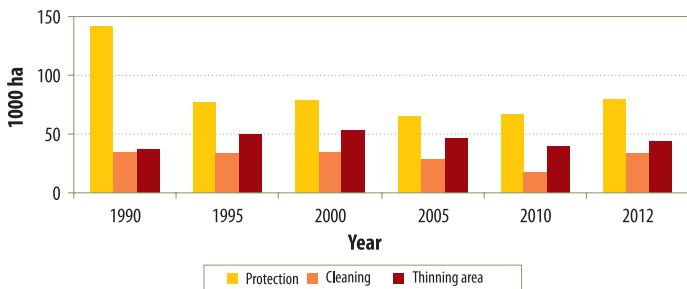
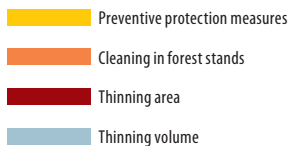
*Data represent decennial average values.

- Total timber felling
- Incidental timber felling
- Reforestation
- Natural regeneration



DEVELOPMENT OF INDICATORS OF MANAGEMENT IN THE FORESTS OF SLOVAKIA

Indicators	Year					
	1990	1995	2000	2005	2010	2012
1000 ha	141.92	77.57	78.32	65.72	66.58	79.50
	34.14	32.89	34.94	29.08	18.14	32.84
	37.14	50.24	53.94	46.07	39.59	44.32
Mil. m ³	1.90	2.21	1.93	2.16	1.95	1.17

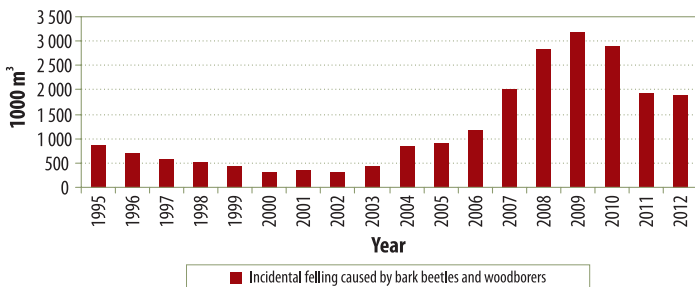
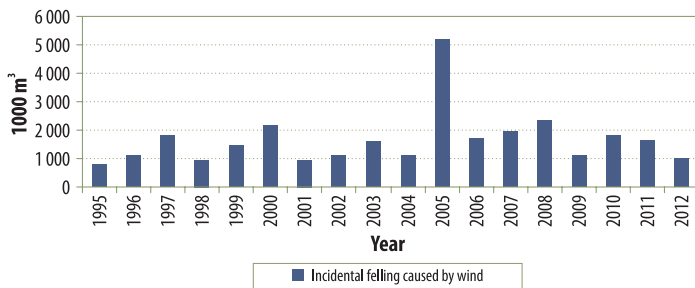


DEVELOPMENT OF FOREST DAMAGE IN SLOVAKIA

Proportion of incidental felling	Year								
	1995	1996	1997	1998	1999	2000	2001	2002	2003
	%								
	56.1	58.9	57.1	41.7	45.5	48.6	39.5	34.5	41.3

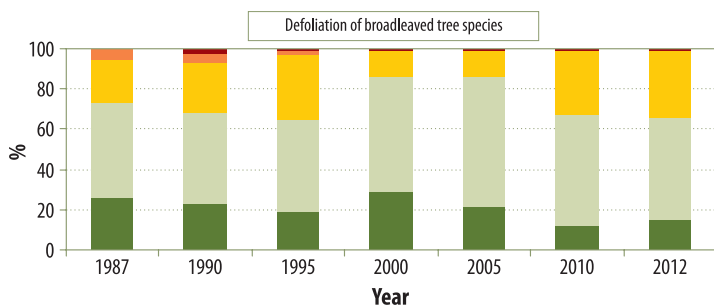
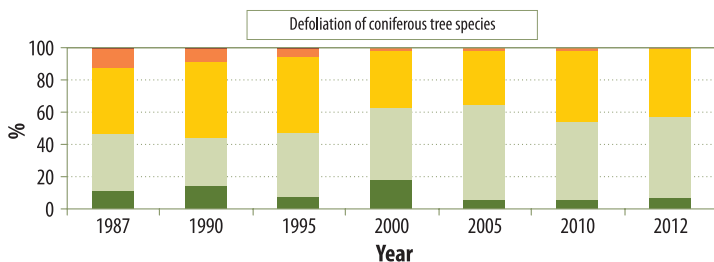
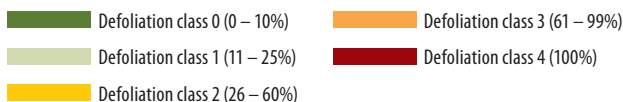
Proportion of incidental felling	Year								
	2004	2005	2006	2007	2008	2009	2010	2011	2012
	%								
	40.1	64.0	51.0	56.2	64.6	60.4	62.5	52.7	42.6

■ Proportion of incidental felling in the total annual felling



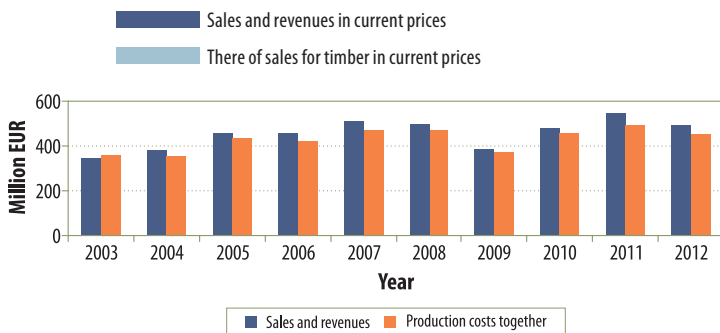
DEVELOPMENT OF HEALTH CONDITION OF THE FOREST IN SLOVAKIA

Defoliation classes		Year						
		1987	1990	1995	2000	2005	2010	2012
		%						
Defoliation class 0 (0 – 10%)	Coniferous	11	14	8	6	6	6	7
	Broadleaved	26	23	19	12	21	12	15
Defoliation class 1 (11 – 25%)	Coniferous	36	30	40	48	59	48	50
	Broadleaved	47	45	46	55	65	55	51
Defoliation class 2 (26 – 60%)	Coniferous	41	47	46	44	33	44	42
	Broadleaved	22	25	32	32	13	32	33
Defoliation class 3 (61 – 99%)	Coniferous	11	8	5	2	2	2	1
	Broadleaved	5	5	2	1	1	1	1
Defoliation class 4 (100%)	Coniferous	1	1	1	0	0	0	0
	Broadleaved	0	2	1	0	0	0	0

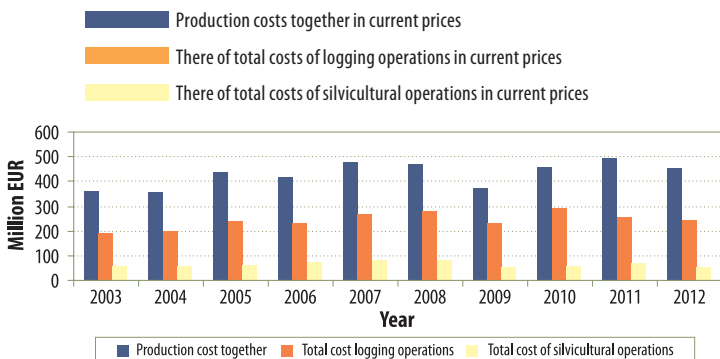


DEVELOPMENT OF ECONOMIC INDICATORS IN FORESTRY OF SLOVAKIA

Indicators	Year									
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
	Million EUR									
	350	381	457	459	511	502	390	479	544	494
	277	314	377	364	405	405	310	377	433	392

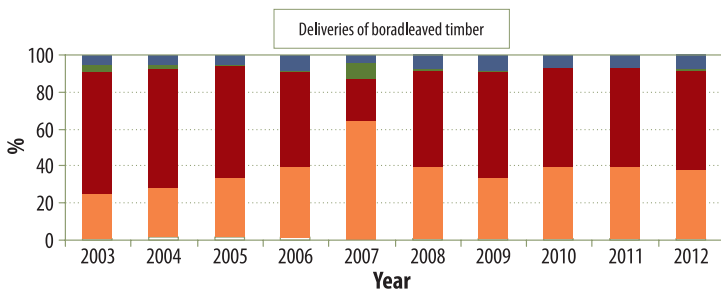
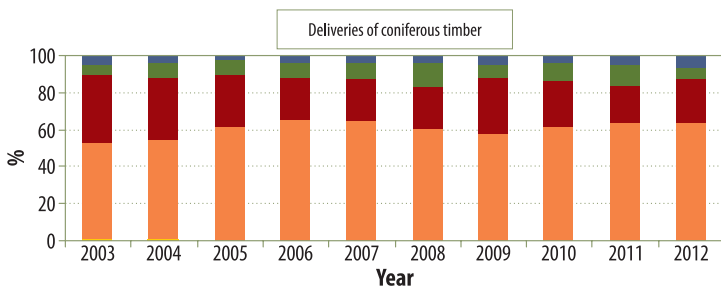
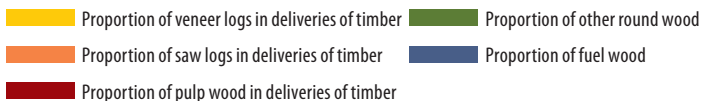


Indicators	Year									
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
	Million EUR									
	359	353	434	420	476	471	373	461	496	454
	192	197	238	235	266	279	231	293	256	243
	58	57	63	73	82	83	52	58	70	54



DEVELOPMENT OF ECONOMIC INDICATORS IN FORESTRY OF SLOVAKIA

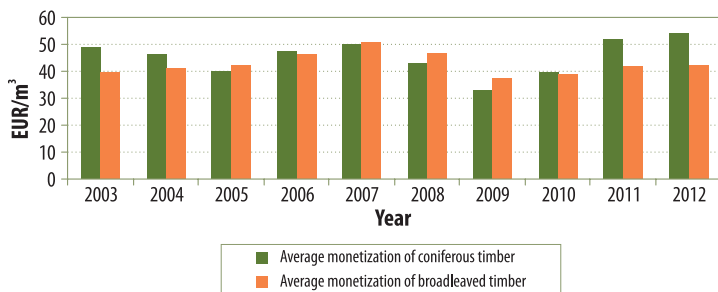
Proportion of timber assortments	Year									
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
	%									
Coniferous	0.63	0.46	0.11	0.20	0.21	0.12	0.14	0.04	0.04	0.04
	52.29	54.47	61.26	65.51	64.27	60.10	57.72	61.63	63.75	64.14
	37.3	33.13	28.35	22.8	23.24	23.29	30.54	24.69	19.99	23.25
	5.01	8.1	7.9	7.06	8.10	11.97	6.52	9.54	10.88	5.75
	4.77	3.84	2.38	4.43	4.18	4.52	5.08	4.10	5.34	6.80
Broadleaved	1.08	1.47	1.43	1.30	0.24	0.90	0.50	0.61	0.61	0.72
	23.99	26.68	31.88	38.29	64.27	38.57	33.04	39.10	38.90	37.24
	65.7	64.29	60.58	51.01	23.20	52.43	57.39	53.28	53.51	53.40
	4.43	2.9	1.27	1.35	8.08	0.47	0.82	0.32	0.26	0.77
	4.8	4.65	4.84	8.05	4.21	7.63	8.25	6.69	6.72	7.87



DEVELOPMENT OF ECONOMIC INDICATORS IN FORESTRY OF SLOVAKIA

Indicators	Year									
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
	EUR/m ³									
	48.73	45.84	39.77	47.30	50.26	43.05	32.96	39.64	51.46	53.80
	39.43	40.89	42.26	45.94	50.32	46.47	37.14	38.93	41.72	42.02
	44.31	43.65	40.60	46.77	50.29	44.18	34.26	39.40	47.46	48.34

- Average monetization of coniferous timber in current prices
- Average monetization of broadleaved timber in current prices
- Average timber monetization in current prices



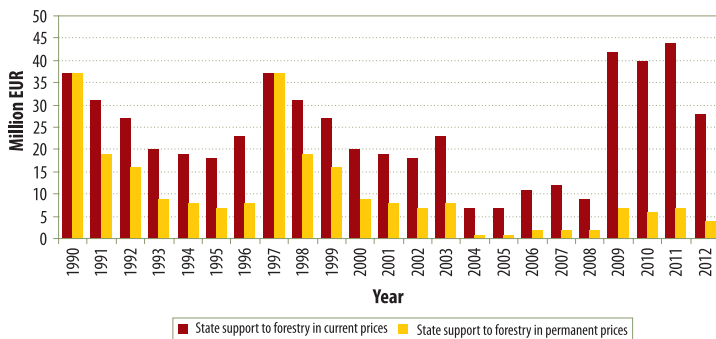
DEVELOPMENT OF ECONOMIC INDICATORS IN FORESTRY OF SLOVAKIA

State support for forestry	Year							
	1990	1991	1992	1993	1994	1995	1996	1997
	Million EUR							
State support to forestry in current prices	37	31	27	20	19	18	23	17
State support to forestry in permanent prices	37	19	16	9	8	7	8	6

State support for forestry	Year							
	1998	1999	2000	2001	2002	2003	2004	2005
	Million EUR							
State support to forestry in current prices	23	16	19	20	17	12	7	7
State support to forestry in permanent prices	7	4	5	5	4	2	1	1

State support for forestry	Year						
	2006	2007	2008	2009	2010	2011	2012
	Million EUR						
State support to forestry in current prices	11	12	9	42	40	44	28
State support to forestry in permanent prices	2	2	2	7	6	7	4

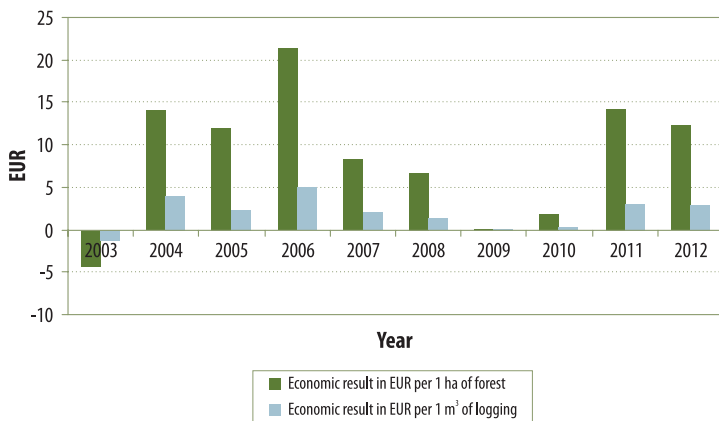
State support to forestry in current prices
 State support to forestry in permanent prices



DEVELOPMENT OF ECONOMIC INDICATORS IN FORESTRY OF SLOVAKIA

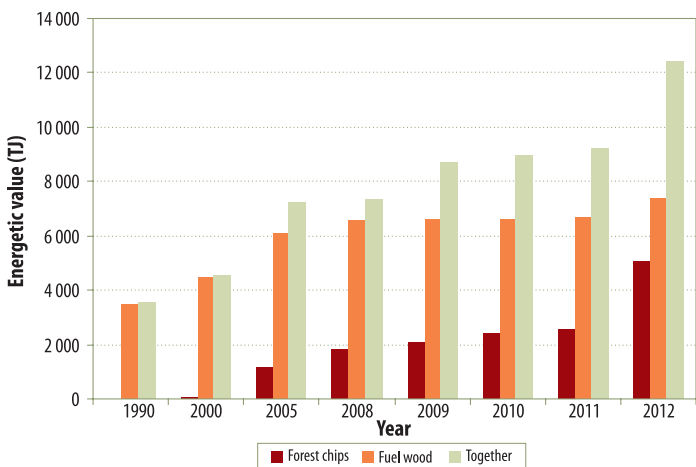
Indicators	Year									
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
	EUR									
	-4.51	14.11	11.88	21.38	8.33	6.64	0.12	1.91	14.21	12.35
	-1.36	3.88	2.32	5.05	1.99	1.36	0.02	0.36	3.11	2.94

- Economic result of the subjects in the forestry of SR in Eur per 1 ha of forest
- Economic result of the subjects in the forestry of SR in Eur per 1 m³ of logging



OVERVIEW OF DEVELOPMENTS IN THE AMOUNT OF BIOMASS FOR ENERGY USE

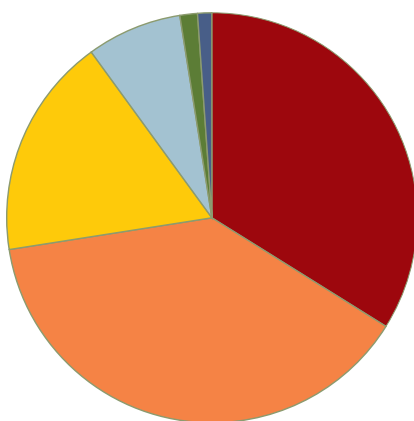
Year	Forest chips		Fuel wood and other		Together	
	1 000 t	TJ	1 000 t	TJ	1 000 t	TJ
1990	2	19	368	3 496	370	3 515
2000	5	48	471	4 475	476	4 523
2005	120	1 140	640	6 080	760	7 220
2008	190	1 805	690	6 555	880	8 360
2009	220	2 090	695	6 602	915	8 692
2010	250	2 375	695	6 602	945	8 977
2011	270	2 565	700	6 650	970	9 215
2012	530	5 035	780	7 410	1 310	12 445



NUMBER AND AREA OF SITES UNDER PROTECTION IN TERMS OF FULFILLMENT OF INTERNATIONAL OBLIGATIONS OF SR

Territory	Number	Area (ha)*
Biosphere Reserves	4	247 248
Ramsar's localities	14	42 458
Natural Heritage Areas UNESCO	2	38 363
Natura 2000 – Special Protection Bird Areas	41	1 282 811
Natura 2000 – Areas of European Importance	473	583 370
Sites reported to Carpathian Convention (national protected areas over 100 ha)	180	1 126 560
Total	714	3 321 170

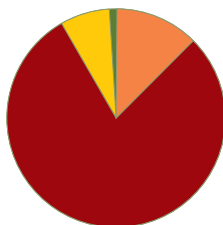
*Area in ha without mutual overlapping of the areas.



- Sites reported to Carpathian Convention
- Natura 2000 – Special Protection Bird Areas
- Natura 2000 – Areas of European Importance
- Biosphere Reserves
- Ramsar's localities
- Natural Heritage Areas UNESCO

SELECTED FINANCIAL AND SOCIO-ECONOMIC IMPACTS OF NATURE CONSERVATION

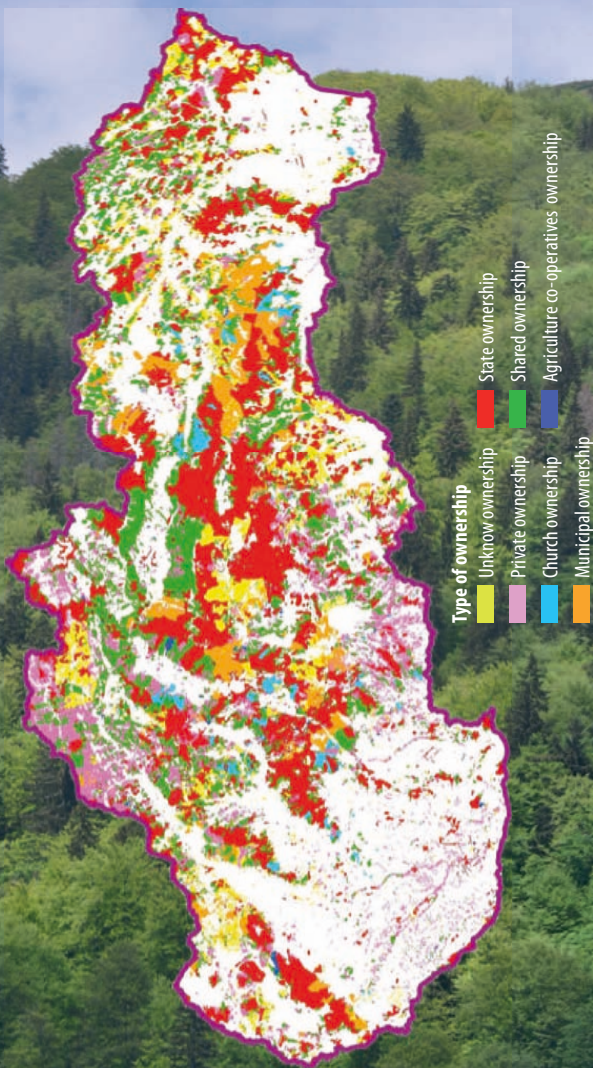
Indicators of the impact		Million EUR
The overall financial impacts – material damage		26.983
of which	loss of the yield from wood	1.648
	reducing the yield from wood	0.030
	increased costs of forest management	16.061
	damage in the sites of Community importance and Protected Bird Areas beyond national network of protected areas	1.710
	reduce the overall value of forests	2.979
	reduce the overall value of forests	2.379
	increased costs of protective measures in buffer zones of strict protected areas	2.176
Paid property damage		2.134
of which	financial contributions paid pursuant to § 61 of the Law on the Protection of Nature and Landscape	1.431
	payments under RDP 2007–2013	0.703
Hitherto unpaid property damage		24.849
The overall socio-economic impacts		169.267
Loss of income in the wood –processing industry		167.806
of which	employee and employer contributions	5.173
	income tax for natural persons and legal entities	2.255
	value added tax (VAT)	7.486
	net income of employees (excluding service providers)	8.786
	economic result	8.286
	other costs	119.536
	cost of wood = Loss of income in Forestry	16.283
of which	employee and employer contributions	2.197
	income tax for natural persons and legal entities	0.746
	value added tax (VAT)	1.419
	net income (including supply sector)	7.215
	economic result	1.177
	other costs	3.530
Negative trade balance due to substitution of fuel wood for gas		1.461



- Damage to property
- Loss of income in the Wood-processing industry
- Loss of income in the Forestry
- Negative trade balance due to substitution of fuel wood for gas



FOREST LAND OWNERSHIP IN SLOVAKIA



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