



MINISTRY
OF AGRICULTURE
and RURAL DEVELOPMENT

of the SLOVAK REPUBLIC



INTERNATIONAL YEAR
OF FORESTS 2010

FORESTS IN SLOVAKIA



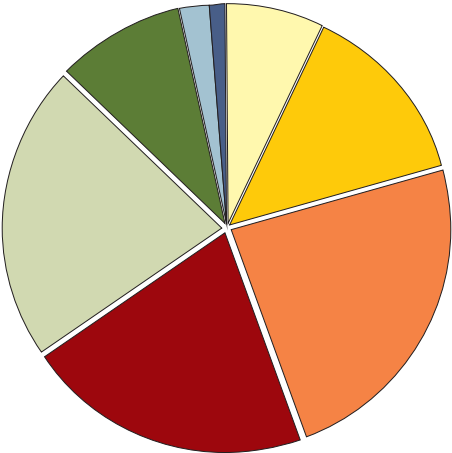
2010

Statement of 31th of December 2010

NATURAL CONDITIONS IN THE FOREST IN SLOVAKIA

								Together
ha / %								
139 450	264 746	457 657	404 874	424 768	185 331	40 743	21 335	1 938 904
7,2	13,7	23,6	20,8	21,9	9,6	2,1	1,1	100,0

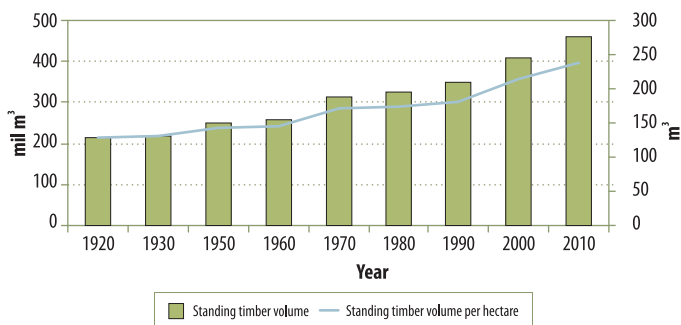
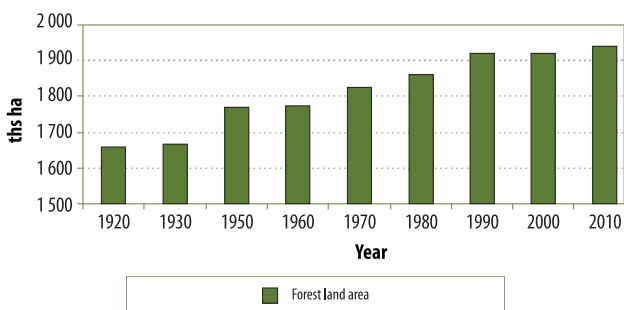
- Oak altitudinal vegetation zone
- Beech-oak altitudinal vegetation zone
- Oak-beech altitudinal vegetation zone
- Beech altitudinal vegetation zone
- Fir-beech altitudinal vegetation zone
- Spruce-beech-fir altitudinal vegetation zone
- Spruce altitudinal vegetation zone
- Dwarf pine altitudinal vegetation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



DEVELOPMENT OF BASIC DATA ON FORESTS IN SLOVAKIA

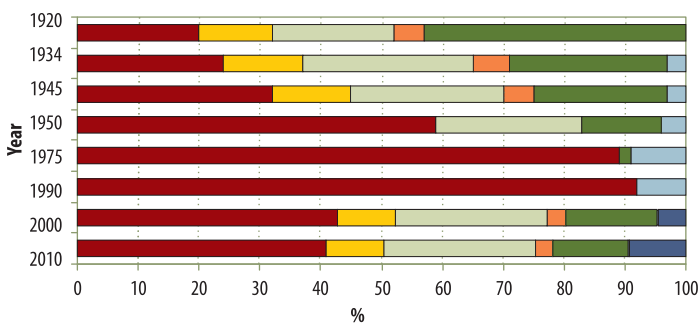
Year	1920	1930	1950	1960	1970	1980	1990	2000	2010
ths ha	1 659,0	1 668,0	1 771,2	1 775,6	1 826,6	1 861,6	1 921,7	1 921,41	1 938,9
%	33,9	34,1	36,1	36,2	37,3	38,0	39,2	39,2	41,0
ha	0,55	0,50	0,51	0,45	0,40	0,37	0,36	0,36	0,36
mil m ³	213,3	217,9	251,2	258,8	313,3	324,0	348,5	410,0	462,0
m ³ /ha	129	131	142	146	171	174	181	215	239
m ³	71	66	73	65	69	65	66	76	85

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



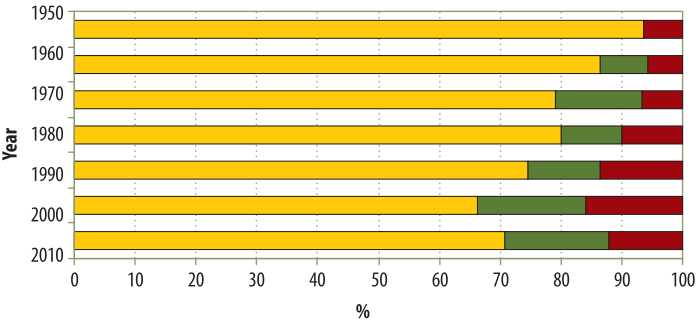
DEVELOPMENT OF USE THE FOREST

Year	1920	1934	1945	1950	1975	1990	2000	2010
	%							
	20	24	32	59	89	92	42,7	40,9
	12	13	13	0	0	0	9,6	9,4
	20	28	25	24	0	0	24,8	25,0
	5	6	5	0	0	0	3,3	2,9
	43	26	22	13	2	0	14,9	12,3
	0	3	3	4	9	8	0,2	0,3
	0	0	0	0	0	0	4,5	9,2



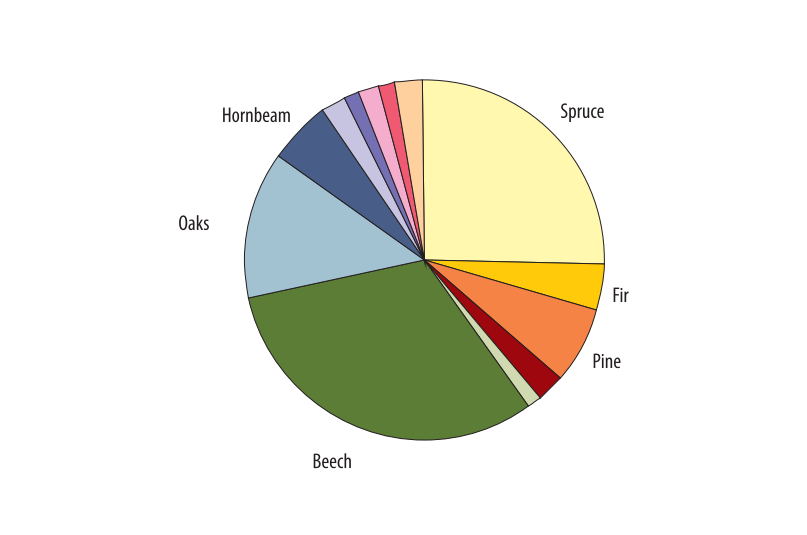
DEVELOPMENT OF FOREST CATEGORIES IN SLOVAKIA ACCORDING TO DOMINANT FUNCTIONS

Year	1950	1960	1970	1980	1990	2000	2010
%							
	93,5	86,4	79,1	80,0	74,5	66,3	70,7
	0,0	7,9	14,3	10,1	12,0	17,7	17,1
	6,5	5,7	6,6	9,9	13,5	16,0	12,2



ACTUAL TREE COMPOSITION
IN THE FORESTS IN SLOVAKIA

Tree species		%
	Spruce	25,3
	Fir	4,0
	Pine	7,0
	Larch	2,4
	Dwarf pine	1,1
	Coniferous	39,8

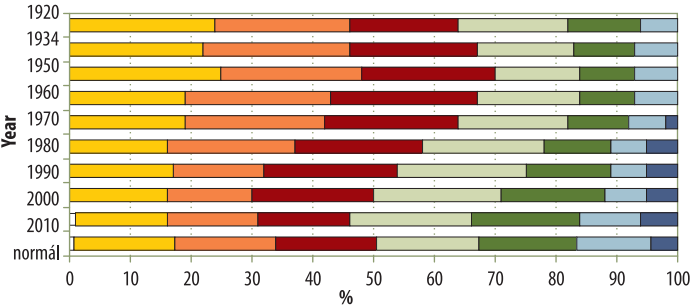


Tree species	%
Beech	31,2
Oaks	13,2
Hornbeam	5,8
Maple	2,1
Ash	1,5
Robinia	1,8
Birch	1,5
Other	2,5
Broadleaved	60,2

STRUCTURE OF FORESTS IN SLOVAKIA ACCORDING TO AGE CLASSES

Year	1920	1934	1950	1960	1970	1980	1990	2000	2010	Normál
0	0	0	0	0	0	0	0	0	0	0,8
24	24	22	25	19	19	16	17	16	15	16,6
22	22	24	23	24	23	21	15	14	15	16,6
18	18	21	22	24	22	21	22	20	15	16,6
18	18	16	14	17	18	20	21	21	20	16,6
12	12	10	9	9	10	11	14	17	18	16,3
6	6	7	7	7	6	6	6	7	10	12,1
0	0	0	0	0	2	5	5	5	6	4,4

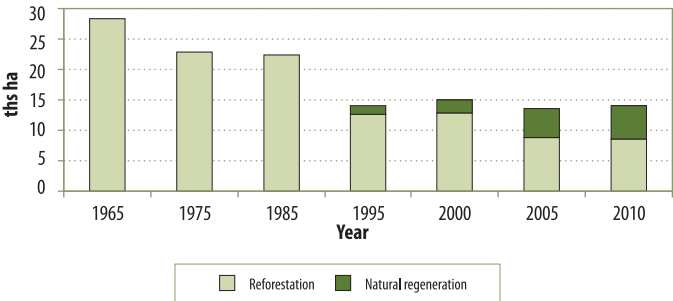
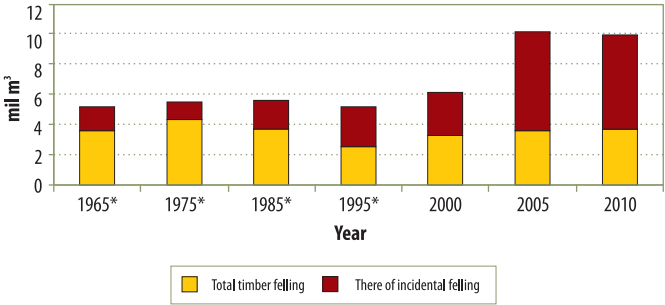
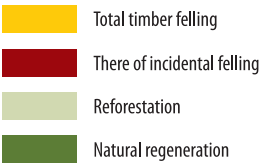
- 0. age class (unstocked area)
- 1. age class (1 – 20 years)
- 2. age class (21 – 40 years)
- 3. age class (41 – 60 years)
- 4. age class (61 – 80 years)
- 5. age class (81 – 100 years)
- 6. age class (101 – 120 years)
- 7. age class (120 years and more)



DEVELOPMENT OF INDICATORS OF MANAGEMENT IN THE FORESTS OF SLOVAKIA

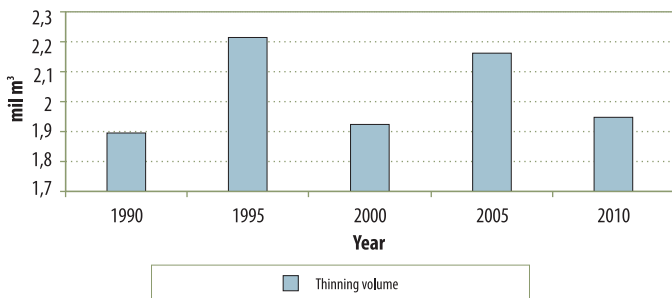
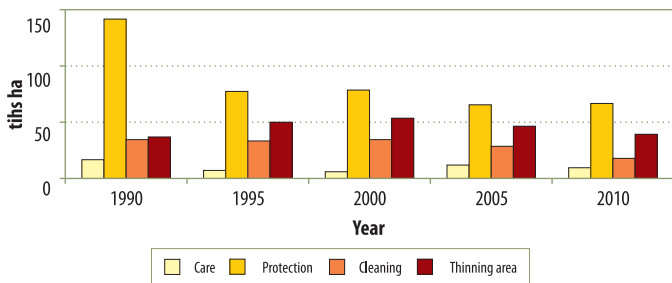
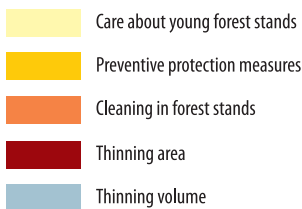
Year		1965*	1975*	1985*	1995*	2000	2005	2010
	mil m ³	5,27	5,54	5,64	5,25	6,22	10,19	9,86
		1,67	1,12	1,9	2,65	3,02	6,53	6,16
	ha	28 252	22 951	22 391	12 609	12 923	8 922	8 520
		0	0	0	1 407	2 134	4 582	5 460

*Data represent decennial average values.



DEVELOPMENT OF INDICATORS OF MANAGEMENT IN THE FORESTS OF SLOVAKIA

Year	1990	1995	2000	2005	2010
	16,97	7,66	5,81	11,38	9,60
	141,92	77,57	78,32	65,72	66,58
ths ha	34,14	32,89	34,94	29,08	18,14
	37,14	50,24	53,94	46,07	39,59
mil m ³	1,90	2,21	1,93	2,16	1,95

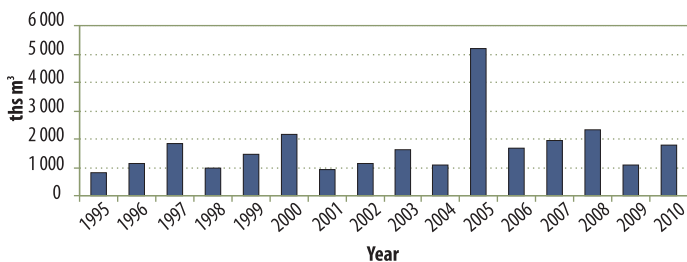


DEVELOPMENT OF FOREST DAMAGE IN SLOVAKIA

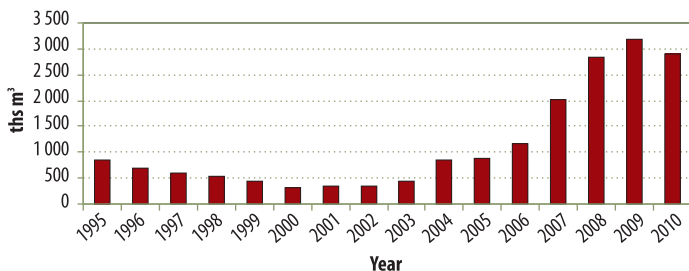
Year	1995	1996	1997	1998	1999	2000	2001	2002
	%							
	56,1	58,9	57,1	41,7	45,5	48,6	39,5	34,5

Year	2003	2004	2005	2006	2007	2008	2009	2010
	%							
	41,3	40,1	64,0	51,0	56,2	64,6	60,4	62,5

■ Proportion of incidental felling in the total annual felling



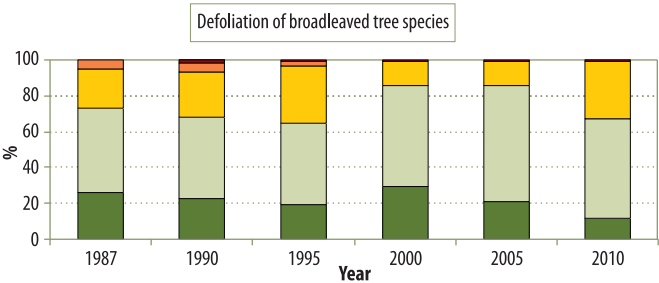
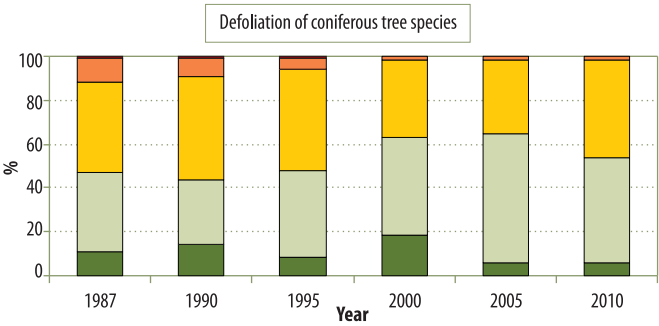
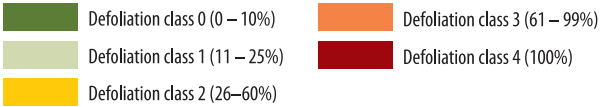
■ Incidental felling caused by wind



■ Incidental felling caused by bark beetles and woodborers

DEVELOPMENT OF HEALTH CONDITION OF THE FOREST IN SLOVAKIA

Year		1987	1990	1995	2000	2005	2010
	coniferous	11	14	8	18	6	6
	broadleaved	26	23	19	29	21	12
	coniferous	36	30	40	44	59	48
	broadleaved	47	45	46	57	65	55
	coniferous	41	47	46	35	33	44
	broadleaved	22	25	32	13	13	32
	coniferous	11	8	5	2	2	2
	broadleaved	5	5	2	1	1	1
	coniferous	1	1	1	0	0	0
	broadleaved	0	2	1	0	0	0

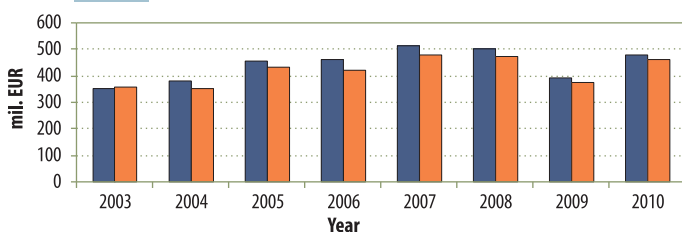


DEVELOPMENT OF ECONOMIC INDICATORS IN FORESTRY OF SLOVAKIA

Year	2003	2004	2005	2006	2007	2008	2009	2010
mil. EUR								
	350	381	457	459	511	502	390	479
	277	314	377	364	405	405	310	377

Sales and revenues in current prices

There of sales for timber in current prices



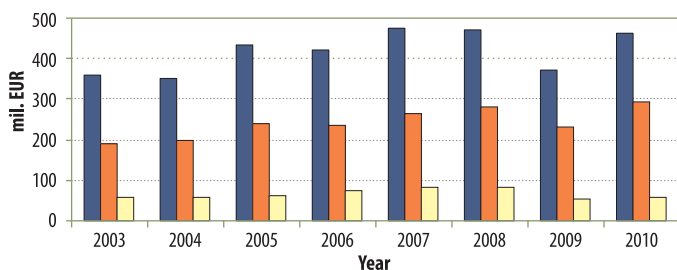
Sales and revenues	Production costs together
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Year	2003	2004	2005	2006	2007	2008	2009	2010
mil. EUR								
	359	353	434	420	476	471	373	461
	192	197	238	235	266	279	231	293
	58	57	63	73	82	83	52	58

Production costs together in current prices

There of total costs of logging operations in current prices

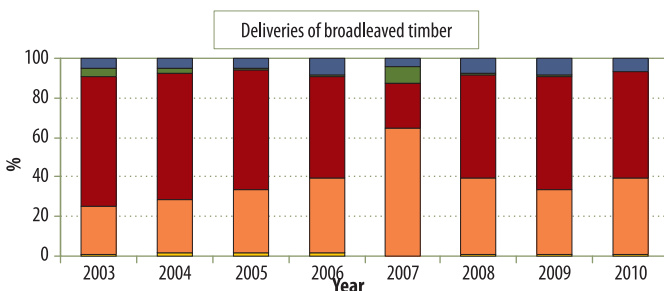
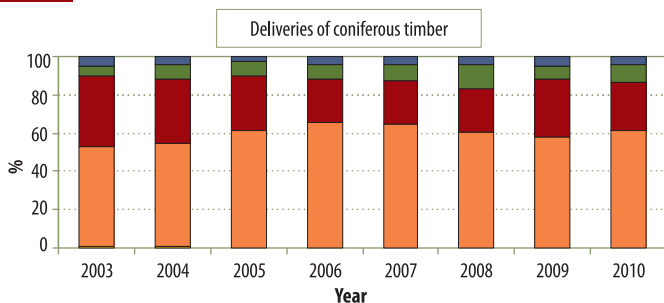
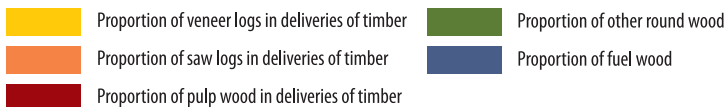
There of total costs of silvicultural operations in current prices



Production cost together	Total cost of logging operations	Total cost of silvicultural operations
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DEVELOPMENT OF ECONOMIC INDICATORS IN FORESTRY OF SLOVAKIA

Year	2003	2004	2005	2006	2007	2008	2009	2010
Coniferous, %								
	0,63	0,46	0,11	0,2	0,21	0,12	0,14	0,04
	52,29	54,47	61,26	65,51	64,27	60,10	57,72	61,63
	37,3	33,13	28,35	22,8	23,24	23,29	30,54	24,69
	5,01	8,1	7,9	7,06	8,10	11,97	6,52	9,54
	4,77	3,84	2,38	4,43	4,18	4,52	5,08	4,10
Broadleaved, %								
	1,08	1,47	1,43	1,3	0,24	0,90	0,50	0,61
	23,99	26,68	31,88	38,29	64,27	38,57	33,04	39,10
	65,7	64,29	60,58	51,01	23,20	52,43	57,39	53,28
	4,43	2,9	1,27	1,35	8,08	0,47	0,82	0,32
	4,8	4,65	4,84	8,05	4,21	7,63	8,25	6,69



DEVELOPMENT OF ECONOMIC INDICATORS IN FORESTRY OF SLOVAKIA

Year	2003	2004	2005	2006	2007	2008	2009	2010
EUR/m ³								
	48,73	45,84	39,77	47,3	50,26	43,05	32,96	39,64
	39,43	40,89	42,26	45,94	50,23	46,47	37,14	38,93
	44,31	43,65	40,6	46,77	20,29	44,18	34,26	39,4



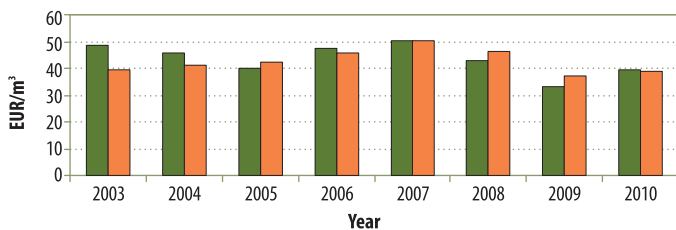
Average monetization of coniferous timber in current prices



Average monetization of broadleaved timber in current prices



Average timber monetization in current prices



Average monetization of coniferous timber in current prices



Average monetization of broadleaved timber in current prices

DEVELOPMENT OF ECONOMIC INDICATORS IN FORESTRY OF SLOVAKIA

Year	1990	1991	1992	1993	1994	1995	1996
mil. EUR							
	37	31	27	20	19	18	23
	37	19	16	9	8	7	8

Year	1997	1998	1999	2000	2001	2002	2003
mil. EUR							
	17	23	16	19	20	17	12
	6	7	4	5	5	4	2

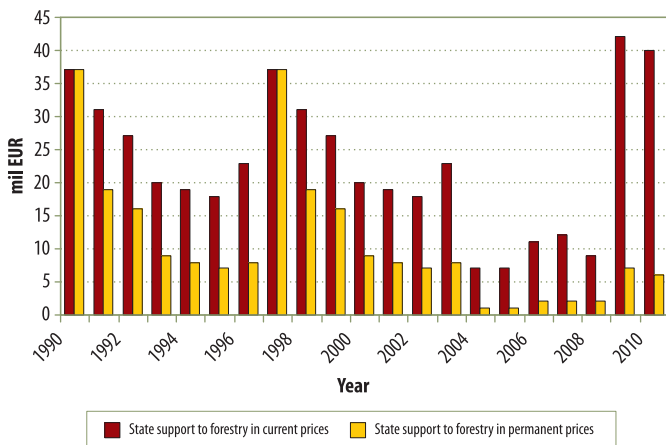
Year	2004	2005	2006	2007	2008	2009	2010
mil. EUR							
	7	7	11	12	9	42	40
	1	1	2	2	2	7	6



State support to forestry in current prices



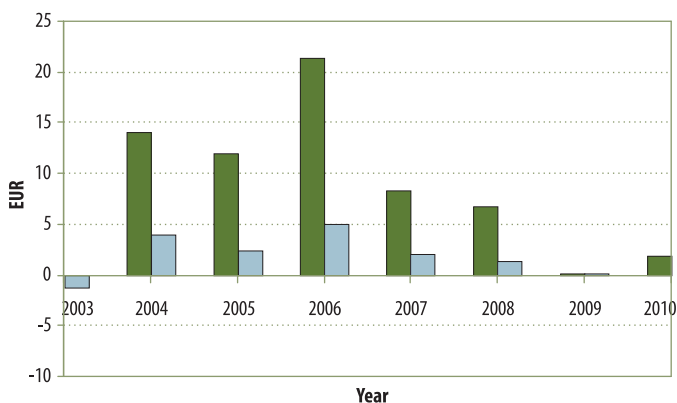
State support to forestry in permanent prices



DEVELOPMENT OF ECONOMIC INDICATORS IN FORESTRY OF SLOVAKIA

Year	2003	2004	2005	2006	2007	2008	2009	2010
	EUR							
	-4,51	14,11	11,88	21,38	8,33	6,64	0,12	1,91
	-1,36	3,88	2,32	5,05	1,99	1,36	0,02	0,36

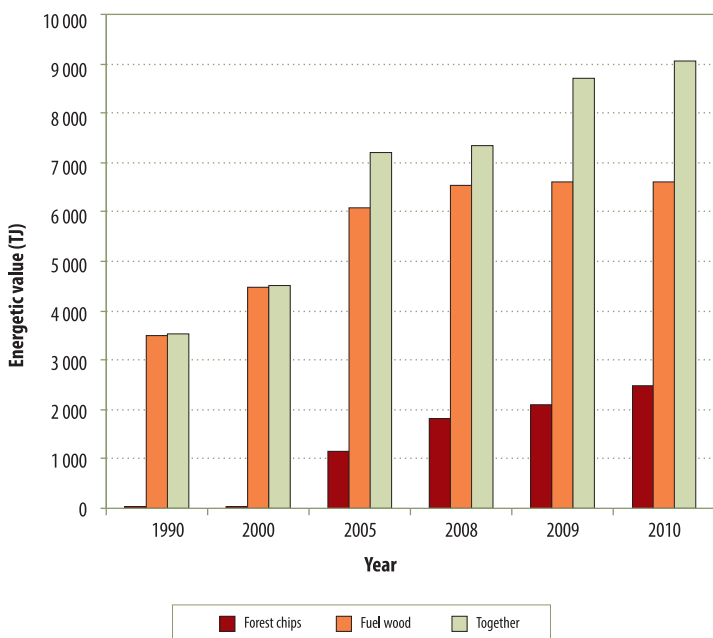
- Economic result of the subjects in the forestry of SR in EUR per 1 ha of forest
- Economic result of the subjects in the forestry of SR in EUR per 1 m³ of logging



- 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

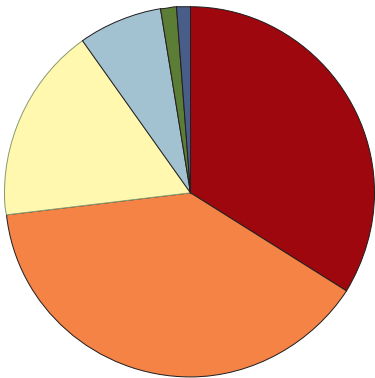
Year	Forest chips		Fuel wood and other		Together	
	ths. ton	TJ	ths. ton	TJ	ths. ton	TJ
1990	2	19	368	3 496	370	3 515
2000	5	48	471	4 475	476	4 523
2005	120	1 140	640	6 080	760	7 220
2008	190	1 805	690	6 555	880	8 360
2009	220	2 090	695	6 602	915	8 692
2010	260	2 470	695	6 602	955	9 072



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

Territory	Number	Area (ha)*
Biosphere Reserves	4	247 247,55
Ramsar's localities	14	42 457,90
Natural Heritage Areas UNESCO	2	38 363,49
Natura 2000 – Special Protection Bird Areas	41	1 314 534,49
Natura 2000 – Areas of European Importance	382	568 785,09
Sites reported to Carpathian Convention (national protected areas over 100 ha)	180	1 126 559,94
Total	623	3 337 948,46

*Area in ha without mutual overlapping of the areas.



- Sites reported to Carpathian Convention

Natura 2000 – Areas of European Importance

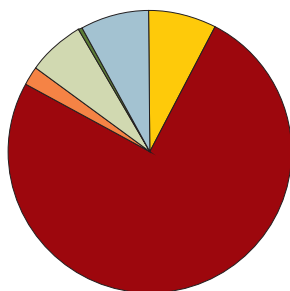
Ramsars's localities
- Natura 2000 – Special Protection Bird Areas

Biosphere Reserves

Natural Heritage Areas UNESCO

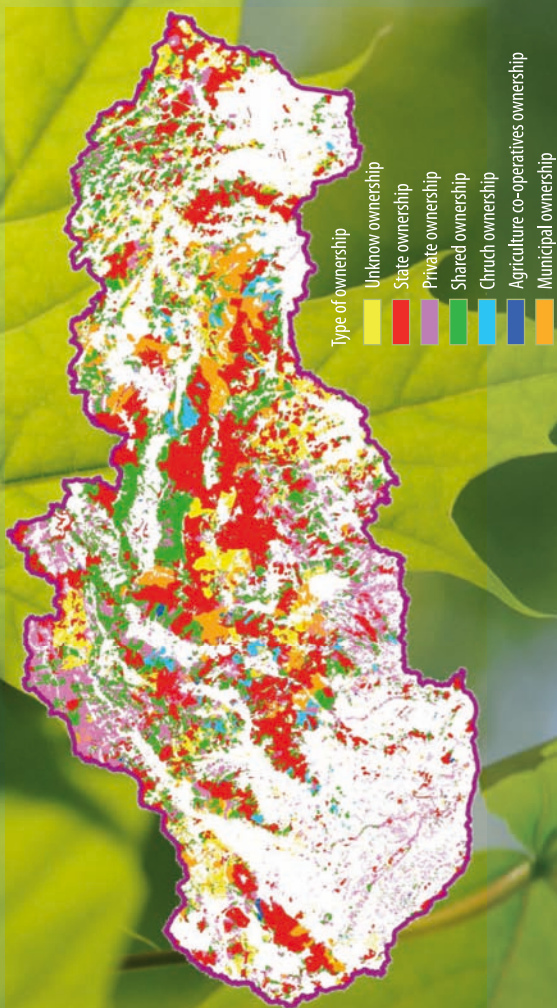
EXPECTED IMPACTS OF NON-PROCESSED CALAMITY TIMBER

Category of financial and socio-economic impacts	EUR . (m ³) ⁻¹	EUR . year ⁻¹
Financial impacts of non-processed calamity timber in the forest sector and wood-processing industry		
Loss of profit of forest enterprises	42,98	15 558 760
Loss of economic results of forest enterprises	3,01	1 089 620
Loss of profit in wood-processing industry	443	151 949 000
Loss of economic results of enterprises in wood-processing industry	21,90	7 511 700
Socio-economic impacts of non-processed calamity timber		
<i>– In the forest sector</i>		
Loss in transfers	5,81	2 103 220
Loss in income tax	1,97	713 140
Loss in VAT	3,76	1 361 120
<i>– In wood-processing industry</i>		
Loss in transfers	13,67	4 688 810
Loss in income tax	5,96	2 044 280
Loss in VAT	19,73	6 767 390
<i>– In the field of wood utilization for energy purposes</i>		
Negative balance of trade due to replacement of fuel wood by natural gas	77	1 460 600
Increased costs of calamity processing		
	2,91	15 612 150
Loss of the possibility to create or maintain jobs (Number)		
In the forest sector	923	
In wood-processing industry	1 345	
Total	2 268	



- Loss of profit of forest enterprises
- Loss of profit in wood-processing industry
- Socio-economic impact in the forest sector
- Socio-economic impact in wood-processing industry
- Socio-economic impact in the field of wood utilisation for energy purposes
- Increased costs of calamity processing

FOREST LAND OWNERSHIP IN SLOVAKIA



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