



MINISTRY
of AGRICULTURE
of the SLOVAK REPUBLIC



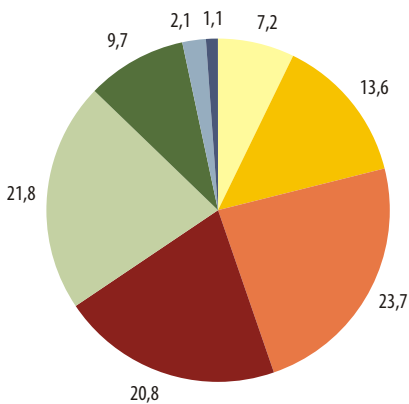
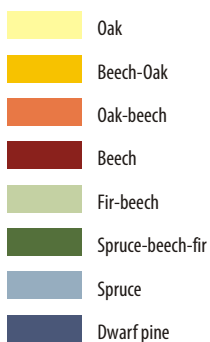
FORESTS IN SLOVAKIA



2009

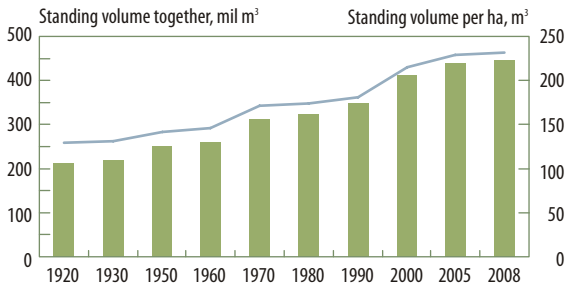
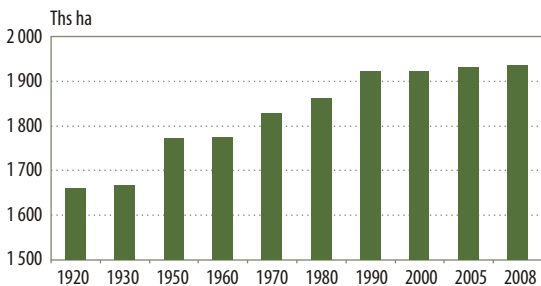
NATURAL CONDITIONS OF THE FORESTS IN SLOVAKIA

| Altitudinal vegetation zones, ha/% | | | | | | | | Together |
|------------------------------------|--------|--------|--------|--------|--------|-------|-------|----------|
| 139383 | 262246 | 457480 | 401880 | 419337 | 186635 | 41323 | 20251 | 1928535 |
| 7,2 | 13,6 | 23,7 | 20,8 | 21,8 | 9,7 | 2,1 | 1,1 | 100 |



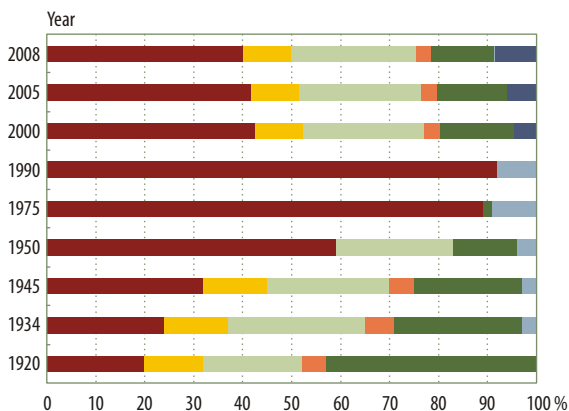
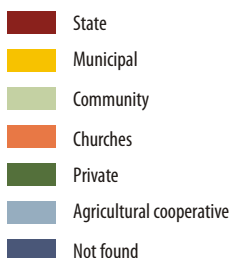
DEVELOPMENT OF BASIC DATA ON THE FORESTS IN SLOVAKIA

| Year | Ths ha | % | ha | mil m ³ | m ³ .ha ⁻¹ | m ³ |
|------|---------|------|------|--------------------|----------------------------------|----------------|
| 1920 | 1 659,0 | 33,9 | 0,55 | 213,3 | 129 | 71 |
| 1930 | 1 668,0 | 34,1 | 0,50 | 217,9 | 131 | 66 |
| 1950 | 1 771,2 | 36,1 | 0,51 | 251,2 | 142 | 73 |
| 1960 | 1 775,6 | 36,2 | 0,45 | 258,8 | 146 | 65 |
| 1970 | 1 826,6 | 37,3 | 0,40 | 313,3 | 171 | 69 |
| 1980 | 1 861,6 | 38,0 | 0,37 | 324,0 | 174 | 65 |
| 1990 | 1 921,7 | 39,2 | 0,36 | 348,5 | 181 | 66 |
| 2000 | 1 921,4 | 39,2 | 0,36 | 410,0 | 215 | 76 |
| 2005 | 1 931,6 | 39,4 | 0,36 | 438,9 | 229 | 81 |
| 2008 | 1 933,6 | 40,9 | 0,36 | 452,1 | 234 | 82 |



DEVELOPMENT OF FORESTS OWNERSHIP*

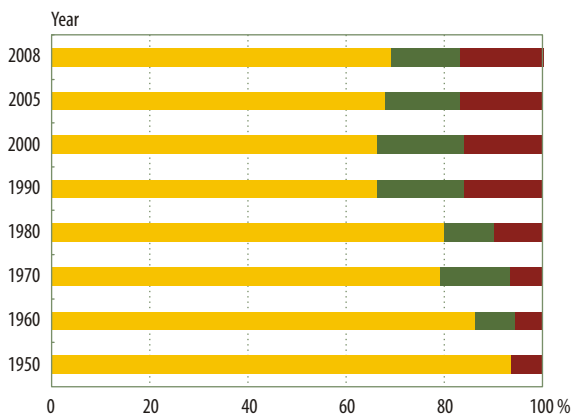
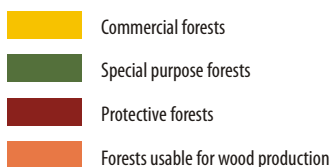
| Year | 1920 | 1934 | 1945 | 1950 | 1975 | 1990 | 2000 | 2005 | 2008 |
|--------------------------|------|------|------|------|------|------|------|------|------|
| % | | | | | | | | | |
| State | 20 | 24 | 32 | 59 | 89 | 92 | 42,7 | 41,8 | 40,2 |
| Municipal | 12 | 13 | 13 | 0 | 0 | 0 | 9,6 | 9,7 | 9,7 |
| Community | 20 | 28 | 25 | 24 | 0 | 0 | 24,8 | 24,9 | 25,6 |
| Churches | 5 | 6 | 5 | 0 | 0 | 0 | 3,3 | 3,4 | 3,0 |
| Private | 43 | 26 | 22 | 13 | 2 | 0 | 14,9 | 14,2 | 13,0 |
| Agricultural cooperative | 0 | 3 | 3 | 4 | 9 | 8 | 0,2 | 0,1 | 0,2 |
| Not found | 0 | 0 | 0 | 0 | 0 | 0 | 4,5 | 5,9 | 8,2 |



*In the period 1945–1989 the forest ownership started to be respected gradually

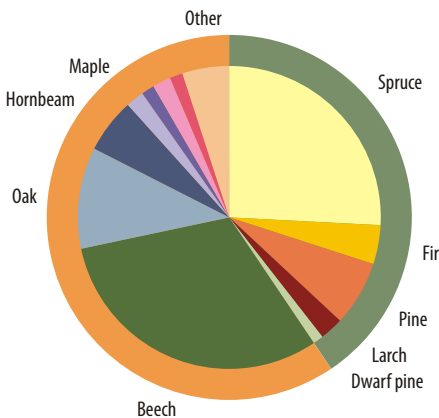
DEVELOPMENT OF FOREST CATEGORIES ACCORDING TO PREVAILING FUNCTIONS

| Year | 1950 | 1960 | 1970 | 1980 | 1990 | 2000 | 2005 | 2008 |
|------|------|------|------|------|------|------|------|------|
| % | | | | | | | | |
| | 93,5 | 86,4 | 79,1 | 80,0 | 66,3 | 66,3 | 67,7 | 68,9 |
| | 0,0 | 7,9 | 14,3 | 10,1 | 17,7 | 17,7 | 15,3 | 14,0 |
| | 6,5 | 5,7 | 6,6 | 9,9 | 16,0 | 16,0 | 17,0 | 17,1 |
| | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 90,7 | 91,5 |



REAL DISTRIBUTION OF TREE SPECIES IN THE FORESTS OF SLOVAKIA

| TREE SPECIES | % |
|---------------------|------|
| Coniferous together | 40,3 |
| Spruce | 25,7 |
| Fir | 4,0 |
| Pine | 7,1 |
| Larch | 2,4 |
| Dwarf pine | 1,1 |

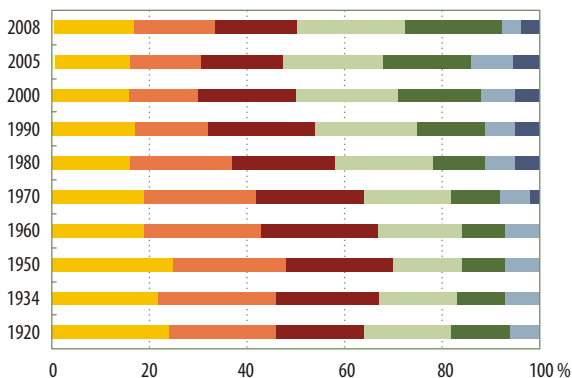


| TREE SPECIES | % |
|----------------------|------|
| Broadleaved together | 59,7 |
| Beech | 31,4 |
| Oak | 10,8 |
| Hornbeam | 5,8 |
| Maple | 2,1 |
| Ash | 1,5 |
| Robinia | 1,7 |
| Birch | 1,4 |
| Other | 5,0 |

DEVELOPMENT OF STRUCTURE OF FORESTS IN SLOVAKIA ACCORDING TO AGE CLASSES

| Year | 1920 | 1934 | 1950 | 1960 | 1970 | 1980 | 1990 | 2000 | 2005 | 2008 |
|------|------|------|------|------|------|------|------|------|------|------|
| | % | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0,6 | 0,6 |
| | 24 | 22 | 25 | 19 | 19 | 16 | 17 | 16 | 15,3 | 16,3 |
| | 22 | 24 | 23 | 24 | 23 | 21 | 15 | 14 | 14,8 | 16,5 |
| | 18 | 21 | 22 | 24 | 22 | 21 | 22 | 20 | 16,7 | 16,9 |
| | 18 | 16 | 14 | 17 | 18 | 20 | 21 | 21 | 20,4 | 22,2 |
| | 12 | 10 | 9 | 9 | 10 | 11 | 14 | 17 | 18,1 | 19,6 |
| | 6 | 7 | 7 | 7 | 6 | 6 | 6 | 7 | 8,5 | 4,2 |
| | 0 | 0 | 0 | 0 | 2 | 5 | 5 | 5 | 5,6 | 3,7 |

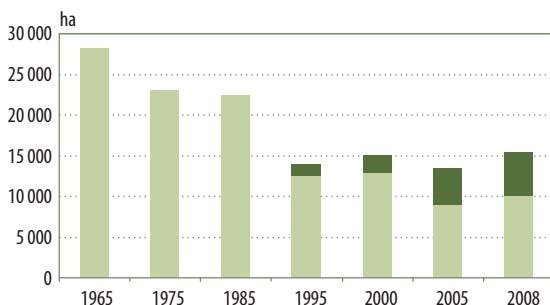
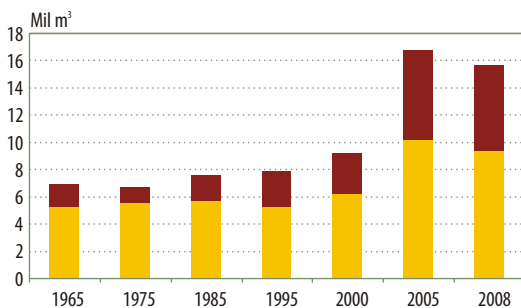
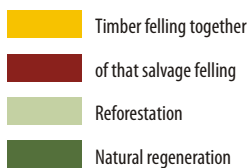
- 0 age class (clearing)
- 1st age class (1–20 years)
- 2nd age class (21–40 years)
- 3rd age class (41–60 years)
- 4th age class (61–80 years)
- 5th age class (81–100 years)
- 6th age class (101–120 years)
- 7th age class (121–140 years)



DEVELOPMENT OF INDICATORS OF THE MANAGEMENT IN THE FORESTS IN SLOVAKIA

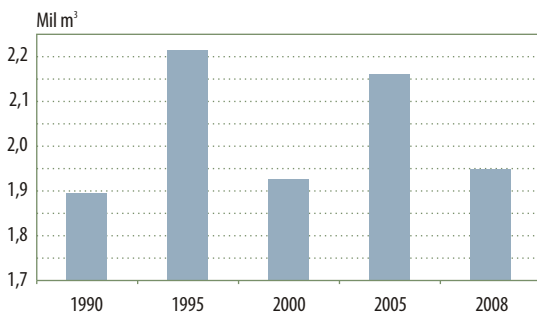
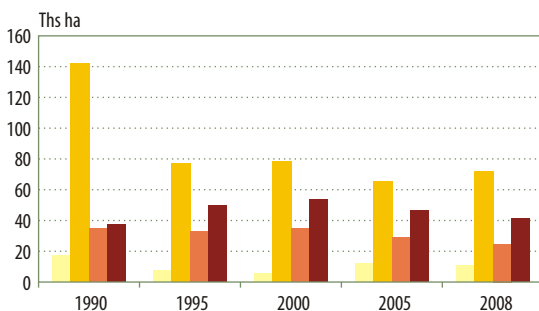
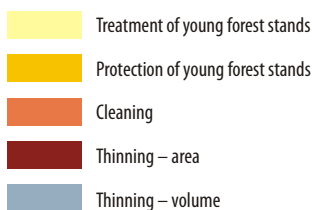
| Year | 1965* | 1975* | 1985* | 1995* | 2000 | 2005 | 2008 |
|--------------------|--------|--------|--------|--------|--------|-------|-------|
| Mil m ³ | 5,27 | 5,54 | 5,64 | 5,25 | 6,22 | 10,19 | 9,47 |
| | 1,67 | 1,12 | 1,9 | 2,65 | 3,02 | 6,53 | 6,12 |
| ha | 28 252 | 22 951 | 22 391 | 12 609 | 12 923 | 8 922 | 9 984 |
| | 0 | 0 | 0 | 1 407 | 2 134 | 4 582 | 5 418 |

*Data represent averages for 10 years



DEVELOPMENT OF INDICATORS OF THE MANAGEMENT IN THE FORESTS IN SLOVAKIA

| Year | | 1990 | 1995 | 2000 | 2005 | 2008 |
|------|--------------------|--------|-------|-------|-------|-------|
| | Ths ha | 16,97 | 7,66 | 5,81 | 11,38 | 10,73 |
| | | 141,92 | 77,57 | 78,32 | 65,72 | 71,70 |
| | | 34,14 | 32,89 | 34,94 | 29,08 | 25,34 |
| | | 37,14 | 50,24 | 53,94 | 46,07 | 40,75 |
| | Mil m ³ | 1,896 | 2,213 | 1,926 | 2,163 | 1,948 |

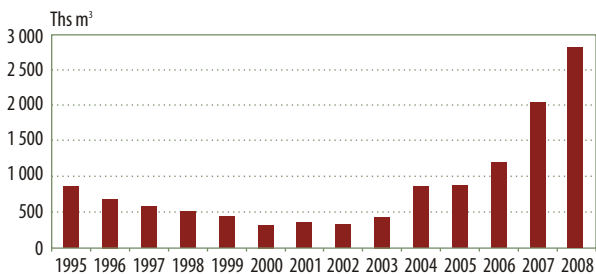
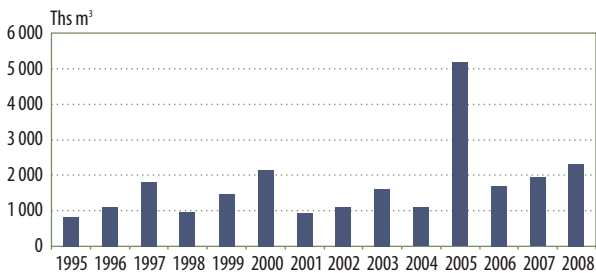


DEVELOPMENT OF DAMAGE TO FORESTS IN SLOVAKIA

| Year | m ³ | m ³ |
|------|----------------|----------------|
| 1995 | 822 897 | 861 281 |
| 1996 | 1 122 026 | 690 497 |
| 1997 | 1 815 592 | 585 115 |
| 1998 | 954 270 | 513 242 |
| 1999 | 1 472 253 | 444 527 |
| 2000 | 2 143 483 | 324 447 |
| 2001 | 933 670 | 353 527 |
| 2002 | 1 115 861 | 331 559 |
| 2003 | 1 607 474 | 428 536 |
| 2004 | 1 096 220 | 857 837 |
| 2005 | 5 177 337 | 874 566 |
| 2006 | 1 684 124 | 1 185 088 |
| 2007 | 1 943 505 | 2 024 629 |
| 2008 | 2 330 586 | 2 827 153 |

Salvage felling caused by mechanical effect of wind, m³

Salvage felling caused by bark beetles and wood boring insects, m³



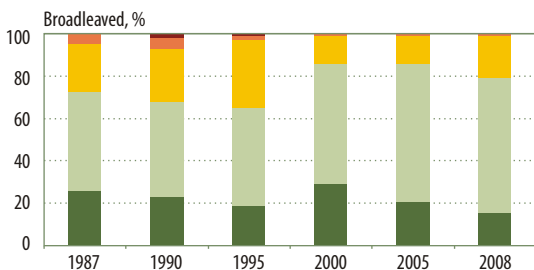
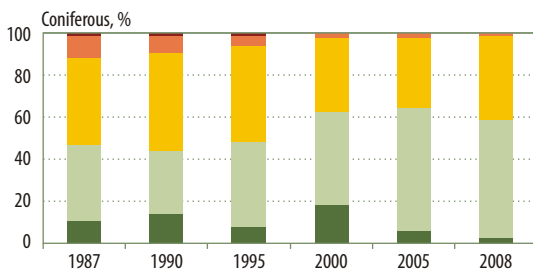
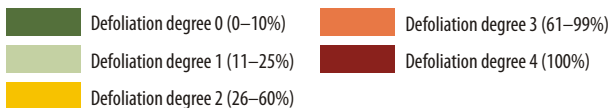
DEVELOPMENT OF HEALTH CONDITIONS OF THE FORESTS IN SLOVAKIA

Coniferous, %

| Year | 1987 | 1990 | 1995 | 2000 | 2005 | 2008 |
|------|------|------|------|------|------|------|
| 0 | 11 | 14 | 8 | 18 | 6 | 3,0 |
| 1 | 36 | 30 | 40 | 44 | 59 | 55,9 |
| 2 | 41 | 47 | 46 | 35 | 33 | 39,7 |
| 3 | 11 | 8 | 5 | 2 | 2 | 1,1 |
| 4 | 1 | 1 | 1 | 0 | 0 | 0,3 |

Broadleaved, %

| Year | 1987 | 1990 | 1995 | 2000 | 2005 | 2008 |
|------|------|------|------|------|------|------|
| 0 | 26 | 23 | 19 | 29 | 21 | 15,0 |
| 1 | 47 | 45 | 46 | 57 | 65 | 64,2 |
| 2 | 22 | 25 | 32 | 13 | 13 | 20,0 |
| 3 | 5 | 5 | 2 | 1 | 1 | 0,8 |
| 4 | 0 | 2 | 1 | 0 | 0 | 0 |



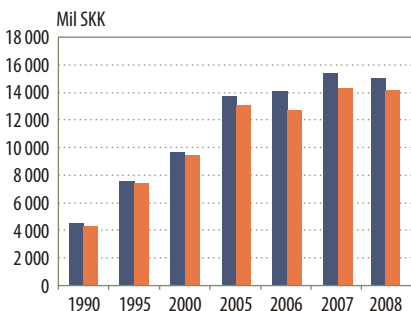
DEVELOPMENT OF INDICATORS OF THE ECONOMICS OF FOREST MANAGEMENT

| Year | 1990 | 1995 | 2000 | 2005 | 2006 | 2007 | 2008 |
|---------|-------|-------|-------|--------|--------|--------|--------|
| Mil SKK | | | | | | | |
| | 4 531 | 7 528 | 9 682 | 13 779 | 14 138 | 15 409 | 15 121 |
| | 2 604 | 5 614 | 7 104 | 11 355 | 10 979 | 12 195 | 12 204 |

- Sales and revenues in mil SKK of current prices
- of that sales for wood in mil SKK of current prices






| Year | 1990 | 1995 | 2000 | 2005 | 2006 | 2007 | 2008 |
|---------|-------|-------|-------|--------|--------|--------|--------|
| Mil SKK | | | | | | | |
| | 4 326 | 7 419 | 9 497 | 13 061 | 12 664 | 14 348 | 14 180 |
| | 1 584 | 4 466 | 5 718 | 7 163 | 7 079 | 8 021 | 8 402 |
| | 1 094 | 1 268 | 1 623 | 1 890 | 2 210 | 2 465 | 2 495 |

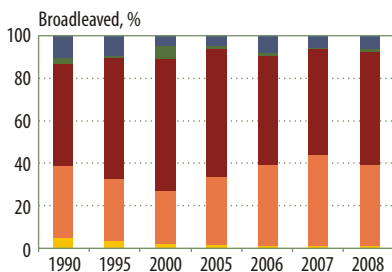
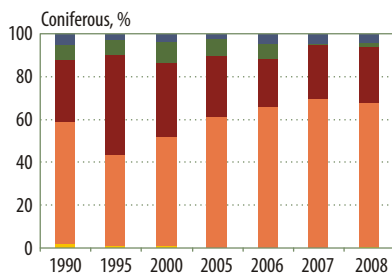
- Production costs together in mil SKK of current prices
- of that total costs of logging in mil SKK of current prices
- of that total costs of silviculture in mil SKK of current prices



DEVELOPMENT OF INDICATORS OF THE ECONOMICS OF FOREST MANAGEMENT




| Year | 1990 | 1995 | 2000 | 2005 | 2006 | 2007 | 2008 |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| Coniferous, % | | | | | | | |
| | 2,21 | 1,1 | 0,97 | 0,11 | 0,2 | 0,24 | 0,14 |
| | 56,66 | 42,22 | 51,07 | 61,26 | 65,51 | 69,37 | 67,53 |
| | 29,21 | 46,58 | 34,07 | 28,35 | 22,8 | 25,07 | 26,28 |
| | 6,62 | 7,42 | 10,05 | 7,90 | 7,06 | 0,73 | 1,96 |
| | 5,39 | 2,68 | 3,83 | 2,38 | 4,43 | 4,59 | 3,99 |
| Broadleaved, % | | | | | | | |
| | 4,78 | 3,89 | 1,76 | 1,43 | 1,30 | 1,32 | 0,92 |
| | 33,92 | 28,89 | 25,36 | 31,88 | 38,29 | 42,55 | 38,40 |
| | 48,43 | 56,71 | 62,14 | 60,58 | 51,01 | 50,02 | 52,99 |
| | 2,64 | 1,12 | 5,94 | 1,27 | 1,35 | 0,11 | 1,22 |
| | 10,23 | 9,39 | 4,79 | 4,84 | 8,05 | 5,99 | 6,47 |

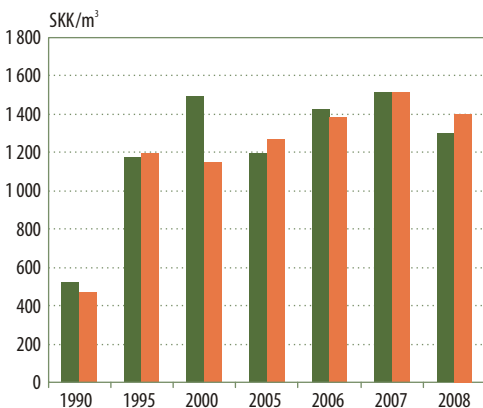
-  Proportion of veneer logs in timber deliveries
-  Proportion of sawmill logs in timber deliveries
-  Proportion of pulpwood in timber deliveries
-  Proportion of other roundwood
-  Proportion of fuelwood



DEVELOPMENT OF INDICATORS OF THE ECONOMICS OF FOREST MANAGEMENT

| Year | 1990 | 1995 | 2000 | 2005 | 2006 | 2007 | 2008 |
|------|------|-------|-------|-------|-------|-------|-------|
| | | | | | | | |
| | 523 | 1 172 | 1 497 | 1 198 | 1 425 | 1 514 | 1 297 |
| | 472 | 1 196 | 1 149 | 1 273 | 1 384 | 1 516 | 1 400 |
| | 499 | 1 183 | 1 308 | 1 223 | 1 409 | 1 515 | 1 331 |

-  Average monetization of the assortments of coniferous raw timber in SKK/m³ of current prices
-  Average monetization of the assortments of broadleaved raw timber in SKK/m³ of current prices
-  Average monetization of the assortments of raw timber in SKK/m³, of current prices

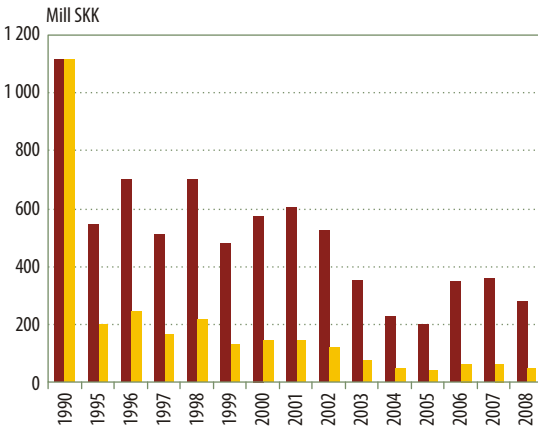


DEVELOPMENT OF INDICATORS OF THE ECONOMICS OF FOREST MANAGEMENT

| Year | 1990 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 |
|----------|-------|------|------|------|------|------|------|------|
| Mill SKK | | | | | | | | |
| | 1 115 | 546 | 699 | 511 | 698 | 479 | 572 | 605 |
| | 1 115 | 201 | 243 | 167 | 214 | 133 | 142 | 140 |

| Year | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
|----------|------|------|------|------|------|------|------|
| Mill SKK | | | | | | | |
| | 526 | 355 | 225 | 198 | 346 | 357 | 276 |
| | 117 | 73 | 43 | 37 | 62 | 61 | 46 |

- State support to forest management for performances in public interest in mil SKK
- State support to forest management for performances in public interest in mil SKK of constant prices

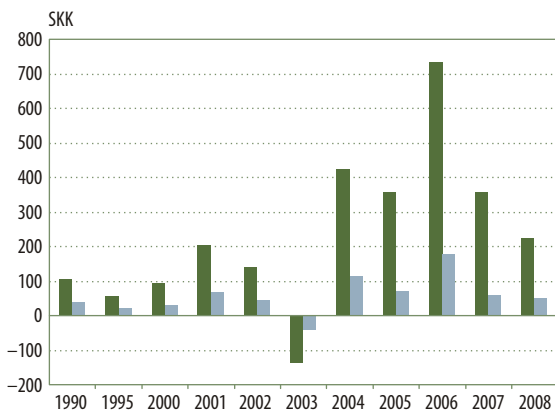


DEVELOPMENT OF INDICATORS OF THE ECONOMICS OF FOREST MANAGEMENT

| Year | 1990 | 1995 | 2000 | 2001 | 2002 | 2003 |
|------|------|------|------|------|------|------|
| SKK | | | | | | |
| | 104 | 55 | 93 | 203 | 139 | -136 |
| | 39 | 20 | 30 | 66 | 45 | -41 |

| Year | 2004 | 2005 | 2006 | 2007 | 2008 |
|------|------|------|------|------|------|
| SKK | | | | | |
| | 425 | 358 | 735 | 357 | 219 |
| | 117 | 70 | 178 | 61 | 47 |

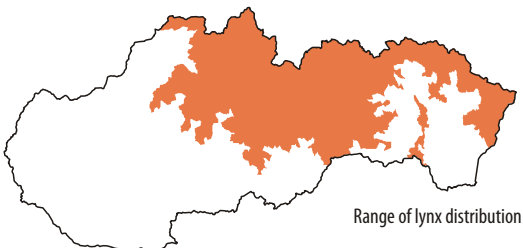
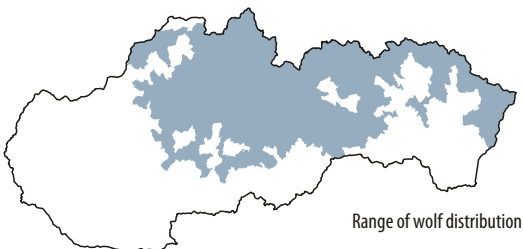
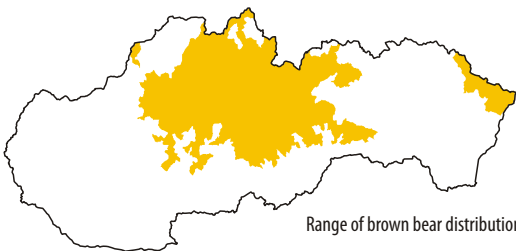
- Economic results of forestry subjects in SKK per ha of forest
- Economic result of forestry subjects in SKK per m of logging



ABUNDANCE OF GAME IN SLOVAKIA

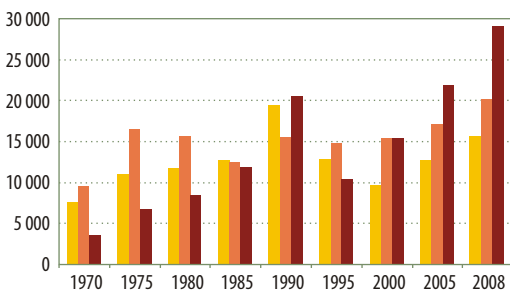
| Kind of game | Number |
|--------------|---------|
| Red deer | 44 316 |
| Roe deer | 92 680 |
| Wild boar | 29 290 |
| Fallow deer | 9 068 |
| Mouflon | 10 867 |
| Hare | 203 123 |
| Pheasant | 110 279 |
| Partridge | 13 453 |

| Kind of game | Number |
|--------------|--------|
| Capercaillie | 1 474 |
| Hazel grouse | 7 660 |
| Chamois | 661 |
| Brown bear | 1 939 |
| Wolf | 1 563 |
| Lynx | 1 447 |
| Wild cat | 2 375 |

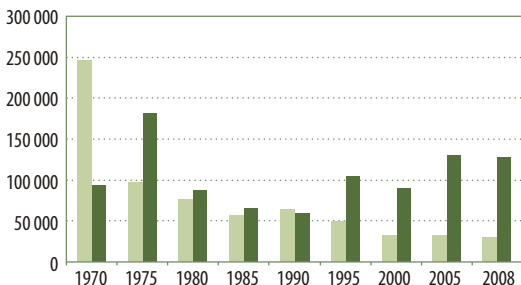


DEVELOPMENT OF GAME BAGS IN SLOVAKIA

| Year | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2008 |
|--------------|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Kind of game | Number of shoted or trapped individuals | | | | | | | | |
| Red deer | 7 650 | 10 990 | 11 770 | 12 710 | 19 370 | 12 910 | 9 650 | 12 771 | 15 625 |
| Roe deer | 9 520 | 16 560 | 15 650 | 12 440 | 15 540 | 14 790 | 15 470 | 17 174 | 20 164 |
| Wild boar | 3 550 | 6 720 | 8 490 | 11 860 | 20 570 | 10 360 | 15 450 | 21 939 | 29 121 |
| Fallow deer | 310 | 420 | 480 | 880 | 1 690 | 980 | 1 350 | 2 325 | 3 016 |
| Mouflon | 220 | 460 | 720 | 1 070 | 1 810 | 1 640 | 1 810 | 2 603 | 3 407 |

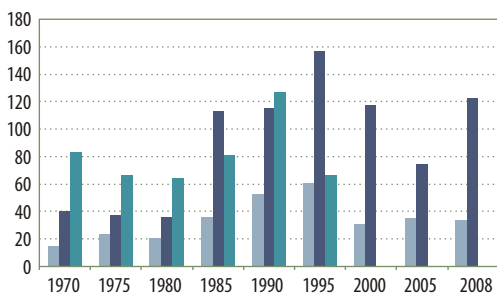


| Year | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2008 |
|--------------|---|---------|--------|--------|--------|---------|--------|---------|---------|
| Kind of game | Number of shoted or trapped individuals | | | | | | | | |
| Hare | 246 380 | 97 640 | 76 570 | 56 550 | 63 840 | 48 920 | 32 050 | 32 314 | 29 202 |
| Pheasant | 93 130 | 181 580 | 87 320 | 64 890 | 60 170 | 105 200 | 90 260 | 130 111 | 127 857 |
| Partridge | 49 700 | 20 520 | 10 | 0 | 0 | 60 | 270 | 36 | 175 |
| Wild duck | 26 610 | 26 880 | 25 250 | 21 160 | 22 500 | 16 420 | 18 390 | 8 658 | 12 898 |
| Wild rabbit | 2 130 | 4 310 | 2 700 | 750 | 280 | 30 | 20 | 0 | 34 |

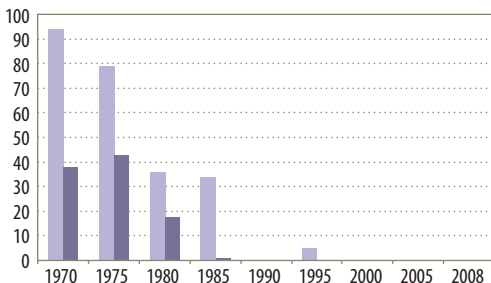


DEVELOPMENT OF GAME BAGS IN SLOVAKIA

| Year | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2008 |
|--------------|--|-------|--------|--------|--------|--------|--------|--------|--------|
| Kind of game | Number of shooted or trapped individuals | | | | | | | | |
| Brown bear | 15 | 24 | 21 | 36 | 53 | 61 | 31 | 35 | 34 |
| Wolf | 40 | 37 | 36 | 113 | 115 | 157 | 118 | 74 | 121 |
| Lynx | 83 | 67 | 64 | 81 | 127 | 67 | 0 | 0 | 0 |
| Wild cat | 796 | 536 | 228 | 150 | 160 | 216 | 0 | 0 | 0 |
| Fox | 9 260 | 9 030 | 13 330 | 13 130 | 14 130 | 15 950 | 15 560 | 17 354 | 17 139 |



| Year | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2008 |
|--------------|--|------|------|------|------|------|------|------|------|
| Kind of game | Number of shooted or trapped individuals | | | | | | | | |
| Capercaillie | 94 | 79 | 36 | 34 | 0 | 5 | 0 | 0 | 0 |
| Black grouse | 38 | 43 | 18 | 1 | 0 | 0 | 0 | 0 | 0 |
| Hazel grouse | 343 | 166 | 30 | 29 | 11 | 5 | 1 | 5 | 6 |
| Chamois | 4 | 8 | 1 | 1 | 4 | 3 | 7 | 8 | 9 |

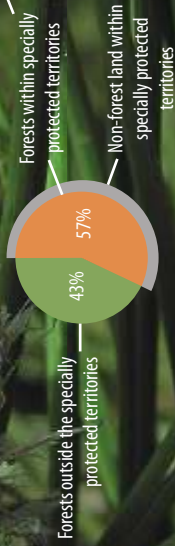


FORESTS WITHIN SPECIALLY PROTECTED TERRITORIES



| Level of protection | % |
|---------------------|------|
| SPA* | 11,0 |
| 2 | 29,4 |
| 3 | 12,5 |
| 4 | 0,6 |
| 5 | 3,6 |
| Total | 57,1 |

*Specially Protection Areas



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