

# STATISTICAL RELEASE

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**Forestry statistics**

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## Forests growing and silviculture in the Republic of Serbia, 2015

### Methodological notes

The report on forests growing and silviculture, including both state and private forests, is issued annually and is based on the data provided by the reporting units of the public enterprise "Srbijasume" and "Vojvodina sume", as well as public enterprises of national parks. Additionally, data are obtained from the working organizations dealing with forestry, regardless of the fact whether it is their main activity or not. This statistical release presents the data on the performed works referring to artificial afforestation, to tending and land reclamation of high forests, offspring forests and other categories of forests, as well as the data related to plantation growing and intensive planting.

Data on artificial afforestation relate to forests' areas (old and recent felling grounds, bare ground) and to areas outside forests (rocky soils, bare grounds, quick sand, eroded and agricultural land). Data on tending and land reclamation of high, offspring and other categories of forests present the works performed in the mentioned forests during a single calendar year. Such works refer to tending of new growth, cleaning, thinning, forests enrichment (conifers and broadleaved), preparation and ground tending, conversion, reconstruction, substitution, resurrection and repair planting. Cleaning presents the measure of removing all the trees that should not remain in the forest, due to any reason, excluding the trees that request further process of thinning. Thinning presents the most important measure for forests tending and its aim is to ensure the development of the best quality trees, in biological and technical sense. Forests enrichment means introducing of conifers and high – quality broadleaved into existing forests, in order to enrich them, i.e. to increase their economic value. Preparation and ground tending refer to works on draining, irrigation, preparation for natural afforestation of stands and similar. Conversion presents converting coppices into high forests, meaning forests transformation from lower to upper growing type. Reconstruction is a reclamation measure: the specified area is cleaned by pure feeling, followed by afforestation of such area. Substitution is a reclamation measure, which also means that specified area is cleaned by pure feeling, but in this case, the process is followed by afforestation, using the same species of trees as the cut ones. Resurrection is a measure by which scrubs are converted into coppices, being cut into stumps. Repair planting refers to filling of some small – sized empty areas, primarily in degraded forests and scrubs, by the trees species that prevail over that stand.

Data on plantation growing and intensive planting refer to forests with selected plants, which tending period is not long and which have intensive increase. Data on safety areas are also included, and such areas are plantations whose main function is protective (protection from wind, floods and drought). Included are only the areas where the selected planting seeds of quick growth have been used. These data exclude treelike paths beside roads, canals, on the boundaries, as well as small groups of trees on the agricultural land.

## 1. Artificial afforestation – without plantations and intensive planting<sup>1)</sup>

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|                                  | Afforested area |              |                 |             |                 |                              |            |             |                    |             |
|----------------------------------|-----------------|--------------|-----------------|-------------|-----------------|------------------------------|------------|-------------|--------------------|-------------|
|                                  | Total           | In forests   |                 |             | Outside forests |                              |            |             |                    |             |
|                                  |                 | All          | Felling grounds | Clearings   | all             | Rocky soils and bare grounds | Quick sand | Eroded land | Agri-cultural land | Other land  |
| 2014                             | 1154            | 890          | 691             | 199         | 264             | 69                           | -          | 5           | 42                 | 148         |
| <b>2015</b>                      | <b>1736*</b>    | <b>1338*</b> | <b>1067*</b>    | <b>271*</b> | <b>398*</b>     | <b>153*</b>                  | -          | <b>3*</b>   | <b>57*</b>         | <b>185*</b> |
| Index 2014 =100                  | 150*            | 150*         | 154*            | 136         | 151*            | 222*                         | -          | 60*         | 136*               | 125*        |
| <b>Republic of Serbia</b>        | <b>1736*</b>    | <b>1338*</b> | <b>1067*</b>    | <b>271*</b> | <b>398*</b>     | <b>153*</b>                  | -          | <b>3*</b>   | <b>57*</b>         | <b>185*</b> |
| Beogradski region                | 32              | 32           | 27              | 5           | -               | -                            | -          | -           | -                  | -           |
| Region Vojvodine                 | 699*            | 662*         | 568*            | 94          | 37*             | -                            | -          | -           | -                  | 37*         |
| Region Šumadije i Zapadne Srbije | 520*            | 326*         | 288*            | 38*         | 194*            | 77*                          | -          | 3*          | 57*                | 57*         |
| Region Južne i Istočne Srbije    | 485*            | 318*         | 184*            | 134         | 167*            | 76*                          | -          | -           | -                  | 91*         |
| Region Kosovo i Metohija         | ...             | ...          | ...             | ...         | ...             | ...                          | ...        | ...         | ...                | ...         |

\* Corrected data.

<sup>1)</sup> Included are state and private forests.

## 2. Plantations and protective areas growing<sup>1)</sup>

|                              | Republic of Serbia |                   |                  |                                  |                               |                          |
|------------------------------|--------------------|-------------------|------------------|----------------------------------|-------------------------------|--------------------------|
|                              | Total              | Beogradski region | Region Vojvodine | Region Šumadije i Zapadne Srbije | Region Južne i Istočne Srbije | Region Kosovo i Metohija |
| 2014                         | 673                | 185               | 401              | 30                               | 57                            | ...                      |
| <b>2015</b>                  | <b>1054</b>        | <b>194</b>        | <b>763</b>       | <b>44</b>                        | <b>53</b>                     | ...                      |
| Index 2014 =100              | 157                | 105               | 190              | 147                              | 93                            | ...                      |
| <b>Plantations</b>           | <b>1054</b>        | <b>194</b>        | <b>763</b>       | <b>44</b>                        | <b>53</b>                     | ...                      |
| With agricultural species    | 118                | -                 | 73               | -                                | 45                            | ...                      |
| Without agricultural species | 936                | 194               | 690              | 44                               | 8                             | ...                      |
| <b>Protective areas</b>      | <b>6</b>           | <b>6</b>          | -                | -                                | -                             | ...                      |
| With agricultural species    | -                  | -                 | -                | -                                | -                             | ...                      |
| Without agricultural species | 6                  | 6                 | -                | -                                | -                             | ...                      |

<sup>1)</sup> Included are state and private forests.

## 3. Artificial afforestation indices, 2014–2015

2014=100

|       | Republic of Serbia |                   |                  |                                  |                               |                          |
|-------|--------------------|-------------------|------------------|----------------------------------|-------------------------------|--------------------------|
|       | Total              | Beogradski region | Region Vojvodine | Region Šumadije i Zapadne Srbije | Region Južne i Istočne Srbije | Region Kosovo i Metohija |
| 2014  | 1154               | 24                | 410              | 453                              | 267                           | ...                      |
| 2015  | 1736*              | 32                | 699*             | 520*                             | 485*                          | ...                      |
| Index | 150*               | 133               | 170*             | 115*                             | 182*                          | ...                      |

\* Corrected data.

#### 4. Silviculture, 2015

|  | Tending and land reclamation of forests |                              |                   |                  |                                  |                               |                            |        |                   |                  |                                  |                               |                          |
|--|---|------------------------------|-------------------|------------------|----------------------------------|-------------------------------|----------------------------|--------|-------------------|------------------|----------------------------------|-------------------------------|--------------------------|
|  | Total                                   | In private ownership forests |                   |                  |                                  |                               | In state ownership forests |        |                   |                  |                                  |                               |                          |
|  |   | All                          | Beogradski region | Region Vojvodine | Region Šumadije i Zapadne Srbije | Region Južne i Istočne Srbije | Region Kosovo i Metohija   | All    | Beogradski region | Region Vojvodine | Region Šumadije i Zapadne Srbije | Region Južne i Istočne Srbije | Region Kosovo i Metohija |
| <b>High forests tending</b>                            |   |                              |                   |                  |                                  |                               |                            |        |                   |                  |                                  |                               |                          |
| Tending of new growth                                  | 2269                                    | 3                            | -                 | -                | -                                | 3                             | ...                        | 2266   | 54                | 1636             | 416                              | 160                           | ...                      |
| Cleaning   | 1123                                    | 87                           | -                 | -                | 73                               | 14                            | ...                        | 1036   | 12                | 63               | 830                              | 131                           | ...                      |
| Thinning   | 20188*                                  | 4987*                        | -                 | -                | 2587*                            | 2400*                         | ...                        | 15201* | 40                | 897              | 7036                             | 7228*                         | ...                      |
| Forests enrichment                                     | 179                                     | 25                           | -                 | -                | 12                               | 13                            | ...                        | 154    | -                 | -                | 68                               | 86                            | ...                      |
| Conifers   | 172                                     | 18                           | -                 | -                | 5                                | 13                            | ...                        | 154    | -                 | -                | 68                               | 86                            | ...                      |
| Broadleaved  | 7                                       | 7                            | -                 | -                | 7                                | -                             | ...                        | -      | -                 | -                | -                                | -                             | ...                      |
| Preparation and ground tending                         | 1567*                                   | -                            | -                 | -                | -                                | -                             | ...                        | 1567*  | -                 | 1428             | 66                               | 73*                           | ...                      |
| Conversion   | 495                                     | -                            | -                 | -                | -                                | -                             | ...                        | 495    | -                 | -                | 134                              | 361                           | ...                      |
| Substitution   | 23                                      | -                            | -                 | -                | -                                | -                             | ...                        | 23     | -                 | 7                | -                                | 16                            | ...                      |
| Reconstruction   | 600                                     | -                            | -                 | -                | -                                | -                             | ...                        | 600    | -                 | -                | 318                              | 282                           | ...                      |
| <b>Coppices tending</b>                                |   |                              |                   |                  |                                  |                               |                            |        |                   |                  |                                  |                               |                          |
| Tending of new growth                                  | 412                                     | -                            | -                 | -                | -                                | -                             | ...                        | 412    | -                 | 392              | 20                               | -                             | ...                      |
| Cleaning   | 376*                                    | 60                           | -                 | -                | 6                                | 54                            | ...                        | 316    | -                 | 214              | 1                                | 1                             | ...                      |
| Thinning   | 23989*                                  | 12543                        | 22*               | -                | 4022                             | 8499                          | ...                        | 11446* | 419               | 1390             | 4594                             | 5043*                         | ...                      |
| Forests enrichment                                     | -                                       | -                            | -                 | -                | -                                | -                             | ...                        | -      | -                 | -                | -                                | -                             | ...                      |
| Conifers   | -                                       | -                            | -                 | -                | -                                | -                             | ...                        | -      | -                 | -                | -                                | -                             | ...                      |
| Broadleaved  | -                                       | -                            | -                 | -                | -                                | -                             | ...                        | -      | -                 | -                | -                                | -                             | ...                      |
| Preparation and ground tending                         | 9                                       | -                            | -                 | -                | -                                | -                             | ...                        | 9      | -                 | 7                | 1                                | 1                             | ...                      |
| Conversion   | 424                                     | 290                          | -                 | -                | -                                | 290                           | ...                        | 134    | -                 | 57               | -                                | 77                            | ...                      |
| Substitution   | 407                                     | -                            | -                 | -                | -                                | -                             | ...                        | 407    | -                 | -                | -                                | 407                           | ...                      |
| Reconstruction   | 253                                     | 93                           | -                 | -                | 41                               | 52                            | ...                        | 160    | -                 | -                | 52                               | 108                           | ...                      |
| <b>Land reclamation of other categories of forests</b> |   |                              |                   |                  |                                  |                               |                            |        |                   |                  |                                  |                               |                          |
| Tending of new growth                                  | 52                                      | -                            | -                 | -                | -                                | -                             | ...                        | 52     | -                 | 36               | 16                               | -                             | ...                      |
| Cleaning   | 50                                      | -                            | -                 | -                | -                                | -                             | ...                        | 50     | -                 | -                | 50                               | -                             | ...                      |
| Thinning   | -                                       | -                            | -                 | -                | -                                | -                             | ...                        | -      | -                 | -                | -                                | -                             | ...                      |
| Forests enrichment                                     | 3                                       | -                            | -                 | -                | -                                | -                             | ...                        | 3      | -                 | 3                | -                                | -                             | ...                      |
| Conifers   | -                                       | -                            | -                 | -                | -                                | -                             | ...                        | -      | -                 | -                | -                                | -                             | ...                      |
| Broadleaved  | 3                                       | -                            | -                 | -                | -                                | -                             | ...                        | 3      | -                 | 3                | -                                | -                             | ...                      |
| Conversion   | -                                       | -                            | -                 | -                | -                                | -                             | ...                        | -      | -                 | -                | -                                | -                             | ...                      |
| Substitution   | -                                       | -                            | -                 | -                | -                                | -                             | ...                        | -      | -                 | -                | -                                | -                             | ...                      |
| Resurrection   | 32736                                   | 32716                        | -                 | -                | 21                               | 32695                         | ...                        | 20     | -                 | -                | 20                               | -                             | ...                      |
| Repair planting  | 1                                       | -                            | -                 | -                | -                                | -                             | ...                        | 1      | -                 | -                | 1                                | -                             | ...                      |

\* Corrected data.

#### 5. Artificial afforestation, by trees species, 2015

ha

|                    | Artificial afforestation, by trees species, 2015 |                              |                   |                  |                                  |                               |                            |              |                   |                  |                                  |                               |                          |
|--------------------|--|------------------------------|-------------------|------------------|----------------------------------|-------------------------------|----------------------------|--------------|-------------------|------------------|----------------------------------|-------------------------------|--------------------------|
|                    | Total  | In private ownership forests |                   |                  |                                  |                               | In state ownership forests |              |                   |                  |                                  |                               |                          |
|                    |  | All                          | Beogradski region | Region Vojvodine | Region Šumadije i Zapadne Srbije | Region Južne i Istočne Srbije | Region Kosovo i Metohija   | All          | Beogradski region | Region Vojvodine | Region Šumadije i Zapadne Srbije | Region Južne i Istočne Srbije | Region Kosovo i Metohija |
| <b>Total</b>       | <b>1736*</b>                                     | <b>218*</b>                  | -                 | -                | <b>148*</b>                      | <b>70*</b>                    | ...                        | <b>1518*</b> | <b>32</b>         | <b>699*</b>      | <b>372*</b>                      | <b>415*</b>                   | ...                      |
| <b>Conifers</b>    | <b>668*</b>                                      | <b>140*</b>                  | -                 | -                | <b>124*</b>                      | <b>16</b>                     | ...                        | <b>528*</b>  | -                 | <b>6</b>         | <b>304*</b>                      | <b>218*</b>                   | ...                      |
| Spruce             | 386*   | 111*                         | -                 | -                | 105*                             | 6                             | ...                        | 275*         | -                 | -                | 119*                             | 156                           | ...                      |
| Fir                | -  | -                            | -                 | -                | -                                | -                             | ...                        | -            | -                 | -                | -                                | -                             | ...                      |
| Black pine         | 216*   | 15*                          | -                 | -                | 11*                              | 4                             | ...                        | 201*         | -                 | 6                | 146*                             | 49*                           | ...                      |
| Scots pine         | 52*  | 13*                          | -                 | -                | 7*                               | 6                             | ...                        | 39*          | -                 | -                | 31*                              | 8                             | ...                      |
| Weymouth fir       | 5  | -                            | -                 | -                | -                                | -                             | ...                        | 5            | -                 | -                | -                                | 5                             | ...                      |
| Douglas fir        | 9  | 1                            | -                 | -                | 1                                | -                             | ...                        | 8            | -                 | -                | 8                                | -                             | ...                      |
| Larch              | -  | -                            | -                 | -                | -                                | -                             | ...                        | -            | -                 | -                | -                                | -                             | ...                      |
| Other conifers     | -  | -                            | -                 | -                | -                                | -                             | ...                        | -            | -                 | -                | -                                | -                             | ...                      |
| <b>Broadleaved</b> | <b>1068*</b>                                     | <b>78*</b>                   | -                 | -                | <b>24*</b>                       | <b>54*</b>                    | ...                        | <b>990*</b>  | <b>32</b>         | <b>693*</b>      | <b>68</b>                        | <b>197*</b>                   | ...                      |
| Beech              | 16*  | 3*                           | -                 | -                | 3*                               | -                             | ...                        | 13*          | -                 | -                | 4                                | 9*                            | ...                      |
| Oak                | 227  | 3                            | -                 | -                | 3                                | -                             | ...                        | 224          | 12                | 212              | -                                | -                             | ...                      |
| Acacia             | 139*   | 11*                          | -                 | -                | 5                                | 6*                            | ...                        | 128*         | 3                 | 26               | 15                               | 84*                           | ...                      |
| Other hardwood     | 150*   | 6                            | -                 | -                | 6                                | -                             | ...                        | 144*         | 17                | 7                | 36                               | 84*                           | ...                      |
| Poplar             | 415*   | 55*                          | -                 | -                | 7                                | 48*                           | ...                        | 360*         | -                 | 327*             | 13                               | 20                            | ...                      |
| Other softwood     | 121*   | -                            | -                 | -                | -                                | -                             | ...                        | 121*         | -                 | 121*             | -                                | -                             | ...                      |

\* Corrected data.

## Notes:

Starting from 1999 the Statistical Office of the Republic of Serbia has not at disposal and may not provide available certain data relative to AP Kosovo and Metohija and therefore these data are not included in the coverage for the Republic of Serbia (total). Afforestation works volume in 2015 has increased by 50\*% in relation to the previous year. Regarding conifers, the most wide spread was spruce, with the afforested area of 386\* ha and regarding broadleaved, the most present was poplar, with the area of 415\* ha. Works referring to plantation and protective areas growing in 2015, compared to 2014 increased by 381 ha.

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\* Corrected data.

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