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**Protection against damaging water effects in the Republic of Serbia, 2012**

**– Preliminary results –**

The data represent the preliminary results of the annual survey referring to protection against flood and river control, land drainage, land erosion control and torrent regulation.

The total area flooded by surface waters in 2012 was 32 583 ha, of which 85% referred to used agricultural land.

The total area defended from flooding in 2012 amounted to 1 469 thous. ha, presenting the decrease of 25%, compared to 2011. Used agricultural land represented 86% of the area defended from flooding, showing the decrease of 26%, compared to 2011.

In 2012, system of drainage area decreased by 3.7% relative to 2011, while the length of drainage canals was by 4.5% longer than the referent values in 2011. The total drainage area in 2012 amounted to 1 837 thous. ha, of which 86,2% referred to used agricultural land.

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).

**Graph 1. Total and used agricultural areas flooded by surface waters in the Republic of Serbia, 2010-2012**

![](data:application/x-msmetafile;base64...)

**Graph 2.Total and used agricultural areas defended against flood in the Republic of Serbia, 2010-2012**

![](data:application/x-msmetafile;base64...)

**1. Protection against damaging water effects, 2012**1) **by Regions**

|  |  |
| --- | --- |
|   | Republic of Serbia |
| Total  | Belgrade | Vojvodina | Šumadija and West Serbia  | South and East Serbia |
| Areas and facilities flooded by surface water |
|  Total flooded area, ha | 32 583 | - | 9 300 | 5 893 | 17 390 |
|  Used agricultural area, ha | 28 133 | - | 6 900 | 4 850 | 16 383 |
|  Settlements, number | 71 | - | 11 | 31 | 29 |
|  Buildings, number | 2 798 |  -  | 82 | 2 559 | 157 |
|  Industrial facilities, number | 107 | - | 5 | 97 | 5 |
|  Other industrial facilities, number | 1 135 | - | 3 | 997 | 135 |
|  Railway lines, km | 8 | - | 3 | 3 | 2 |
|  Roads, km | 199 | - | 15 | 149 | 35 |
| Areas and facilities protected against floods |
|  Total area protected against floods, ha | 1 468 826 | 33 819 | 762 162 | 255 308 | 417 537 |
|  Used agricultural area, ha | 1 260 471 | 28 429 | 647 300 | 192 941 | 391 801 |
|  Settlements, number | 716 | 13 | 167 | 215 | 321 |
|  Industrial facilities, number | 586 | 7 | 129 | 274 | 176 |
|  Other industrial facilities, number | 13 938 | 120 | 288 | 1 594 | 11 936 |
|  Railway lines, km | 711 | 46 | 281 | 140 | 244 |
|  Roads, km | 2 411 | 70 | 756 | 579 | 1006 |
|  Total length of embankment, km | 3 458  | 471 | 1 304 | 599 | 1 084 |
| Areas and facilities flooded by ground water |
|  Total flooded area, ha | 20 419 | - | 6 750 | 8 535 | 5 134 |
|  Used agricultural area, ha | 16 304 | - | 4 600 | 7 839 | 3 865 |
|  Settlements, number | 60 | - | 7 | 19 | 34 |
|  Buildings, number | 788 | - | 42 | 344 | 402 |
|  Industrial facilities, number | 21 | - | 3 | 13 | 5 |
|  Other industrial facilities, number | 366 | - | 4 | 302 | 60 |
|  Railway lines, km | 1 | - | - | 1 | - |
|  Roads, km | 234 | - | 8 | 31 | 195 |
| Drainage |
|  Total area covered by drainage system, ha | 2 156 452 | 115 350 | 1 766 180 | 195 800 | 79 122 |
|  Used agricultural area covered by drainage system, ha | 1 824 514 | 65 221 | 1 543 031 | 150 835 | 65 427 |
|  Total drained area, ha | 1 837 627 | 34 013 | 1 566 187 | 186 247 | 51 180 |
|  Used agricultural drained area, ha | 1 584 423 | 28 429 | 1 363 600  | 142 185 | 50 209 |
| Drainage canals, km | 5 575 | 878 | 3 350 | 425 | 922 |
|  Pumping stations, number | 231 | 22 | 154 | 11 | 44 |
| Land erosion |
|  Eroded land, km2 | 6 296 | 1 150 | - | 255 | 4 891 |
|  Reclaimed land, km2 | 374 | - | - | 72 | 302 |

1) Preliminary data

**2. Floods and protection against damaging water effects, 2010-2012**

**Republic of Serbia**

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|  | 2010 | 2011 | 20121) |
| Areas and facilities flooded by surface water |
|  Total flooded area, thous. ha | 43 | 31 | 33 |
|  Used agricultural area, thous. ha  | 34 | 27 | 28 |
|  Settlements, number |  292 | 125 | 71 |
|  Industrial facilities, number |  126 | 107 | 107 |
|  Railway lines, km |  44 | 33 | 8 |
|  Roads, km |  622 | 269 | 199 |
| Areas and facilities protected against floods |
|  Total area protected against floods, thous.ha | 1 959 | 1 958 | 1 468 |
|  Used agricultural area, thous. ha |  1 763 | 1 709 | 1 260 |
|  Settlements, number |  657 | 644 | 716 |
|  Industrial facilities, number |  498 | 481 | 586 |
|  Railway lines, km |  862 | 1 039 | 711 |
|  Roads, km | 4 810 | 4 832 | 2 411 |
| Total length of embankments, km | 3 299 | 3 446 | 3 458 |
| Areas and facilities flooded by ground water |
|  Total flooded area, thous. ha | 74 | 44 | 20 |
|  Used agricultural area, thous. ha  |  64 | 40 | 16 |
|  Settlements, number |  154 | 103 | 60 |
|  Industrial facilities, number |  45 | 156 | 21 |
|  Railway lines, km |  6 | 6 | 1 |
|  Roads, km |  141 | 54 |  234 |
| Drainage |
|  Total drainage area, thous. ha | 1 954 | 1 979 | 1 837 |
|  Drainage canals, km | 5 488 | 5 336 | 5 575 |
|  Pumping stations, number | 231 | 249 | 231 |
| Land erosion |
| Eroded land, km2 | 2 623 | 3 708 | 6 296 |
| Reclaimed land, km2 | 316 | 362 | 374 |

1) Preliminary data

Methodological explanations on protection against damaging water effects can be found on the SORS website: [http://webrzs.stat.gov.rs/WebSite/Publi](http://webrzs.stat.gov.rs/WebSite/Public/PageView.aspx?pKey=201)[c/PageView.aspx?pKey=201](http://webrzs.stat.gov.rs/WebSite/Public/PageView.aspx?pKey=201).

Data series on protection against damaging water effects from the reference year 2008 are available within the SORS database: <http://webrzs.stat.gov.rs/WebSite/public/ReportView.aspx>, and as a part of the SORS publications: <http://webrzs.stat.gov.rs/WebSite/Public/PageView.aspx?pKey=200>.

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