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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.

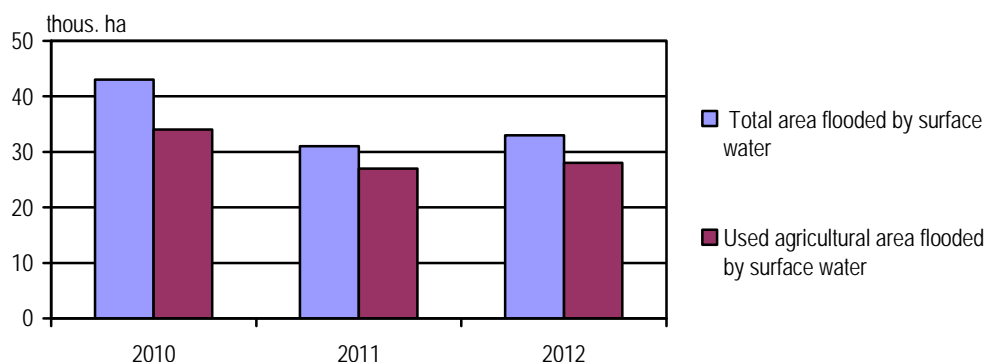
The total area flooded by surface waters in 2012 was 32 583 ha, of which 85% referred to used agricultural land.

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.

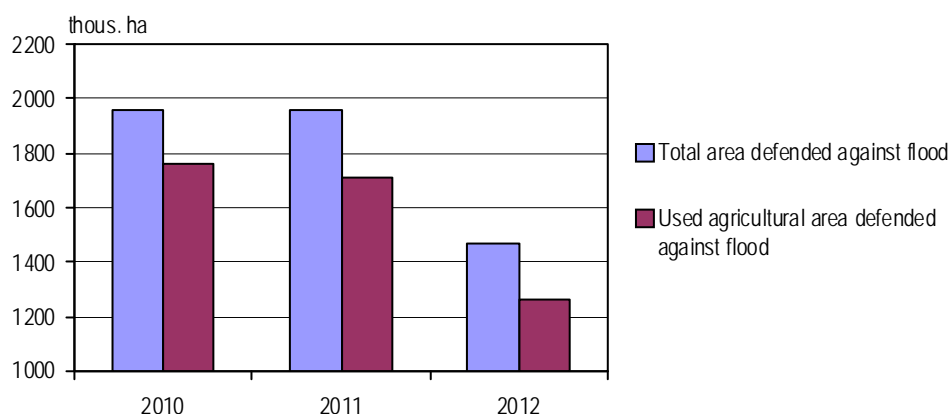
In 2012, system of drainage area decreased by 3.7% relative to 2011, while the length of drainage canals was by 4.5% longer than the referent values in 2011. The total drainage area in 2012 amounted to 1 837 thous. ha, of which 86,2% referred to used agricultural land.

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



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



1. Protection against damaging water effects, 2012¹⁾ 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, km ²	6 296	1 150	–	255	4 891
Reclaimed land, km ²	374	–	–	72	302

¹⁾ Preliminary data

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

Republic of Serbia

	2010	2011	2012 ¹⁾
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, km ²	2 623	3 708	6 296
Reclaimed land, km ²	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/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>.