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Crop production, 2016^(p)

Utilized agricultural land in 2016 is 255 845.8 ha, what is an increase of 10.6 % compared to 2015. In total utilized agricultural land areas, perennial meadows and pastures areas prevail with the share of 94.3 %, while arable land are present with 2.8 %, permanent crops 2.1 % and kitchen gardens 0.8 %.

In comparison with 2015, perennial meadows and pastures area increased by 10.9%, arable land increased by 3.7 %, permanent crops increased by 8.5 % and kitchen garden increased by 3.3 %.

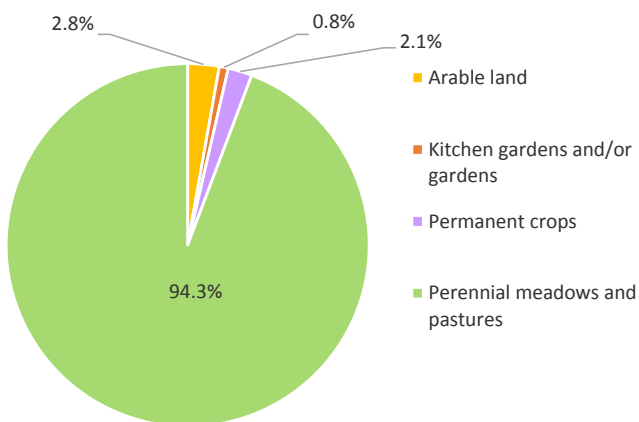
Achieved wheat production in 2016 was 2 353.8 t, what is a rise of 11.5 % compared to 2015. An increase in production was also recorded in the following crops: barley (12.2 %), potato (11.5 %), tomato (13.4 %) and cabbage (15.4%). Total production of maize for grain in 2016 reduced by 1.9 %.

There is also recorded lower production of watermelon by 13.8 %.

When comparing with 2015, an increase is recorded in total production of: plums (86.6%), tangerine (47.5 %), olives (38.3%), while there was recorded lower production of: apples (24.9%), pears (1.4%) and peaches (44.2%).

Total production of grapes in 2016 records an increase by 21.5 % in comparison with previous year.

Graph 1. Utilised agricultural area



(p) - preliminary data. The final data will be published with the publication of data from the Survey on the structure of agricultural holdings in Montenegro

Table 1: Utilised agricultural land by categories, 2016

	ha		
	2015	2016	Indices $\frac{2016}{2015}$
Utilised agricultural area	231 405.4	255 845.8	110.6
Arable land	6 853.3	7 103.9	103.7
Cereals for grain	2 298.3	2 372.5	103.2
Potato	1 616.6	1 612.7	99.8
Vegetables, watermelons and melons	1 228.1	1 274.5	103.8
Fodder plant	1 599.0	1 680.4	105.1
Other plants on arable land and fallow land	111.3	163.8	147.2
Kitchen gardens and/or gardens	1 861.1	1 922.4	103.3
Fruits	767.6	778.7	101.4
Vineyards	144.1	116.4	80.8
Potato	505.1	537.5	106.4
Vegetables	444.3	489.8	110.2
Permanent crops	5 057.9	5 486.3	108.5
Orchards	2 292.0	2 551.4	111.3
Orchards - extensive	1 147.2	1 217.6	106.1
Orchards - plantations	1 144.8	1 333.8	116.5
Vineyards - plantations	2 708.0	2 860.4	105.6
Nurseries	57.9	74.5	128.7
Perennial meadows and pastures	217 633.1	241 333.2	110.9

Table 2: Production of cereals, potatoes and fodder crops on arable land, 2016

	Area harvested, ha		Indices $\frac{2016}{2015}$	Production, t		Indices $\frac{2016}{2015}$	Yield, t/ha	
	2015	2016		2015	2016		2015	2016
Wheat	736.5	747.1	101.4	2 110.5	2 353.8	111.5	2.9	3.2
Ray	178.2	183.9	103.2	338.8	391.1	115.4	1.9	2.1
Barley	370.1	385.9	104.3	952.0	1 067.8	112.2	2.6	2.8
Oats	202.7	207.1	102.2	555.5	557.0	100.3	2.7	2.7
Maize for grain	629.4	628.1	99.8	2 700.2	2 649.9	98.1	4.3	4.2
Other cereals for grain	181.4	220.4	121.5	356.9	580.5	162.6	2.0	2.6
Potato	1 616.4	1 612.7	99.8	27 193.4	29 916.6	110.0	16.8	18.6
Clover	364.1	375.2	103.0	2 199.5	2 488.3	113.1	6.0	6.6
Lucerne	371.0	367.8	99.1	2 208.8	2 190.7	99.2	6.0	6.0
Other fodder crops	945.6	993.1	105.0	9 074.0	10 143.2	111.8	9.6	10.2

Table 3: Total production of vegetables, watermelons and melons, 2016

	Area harvested, ha		Indices <u>2016</u> 2015	Production, t		Indices <u>2016</u> 2015	Yield, t/ha	
	2015	2016		2015	2016		2015	2016
Onion	126.9	133.7	105.4	2 341.6	2 473.4	105.6	18.4	18.5
Tomato	114.3	139.6	122.1	3 935.8	4 464.1	113.4	34.4	32.0
Pepper	180.6	229.6	127.1	4 499.6	5 643.8	125.4	24.9	24.6
Dry beans	100.5	101.2	100.7	855.5	931.7	108.9	8.5	9.2
Melon	53.8	58.2	108.2	1 368.9	1 744.8	127.5	25.4	30.0
Watermelon	482.7	419.9	87.0	20 194.2	17 412.7	86.2	41.8	41.5
Cucumber	49.9	63.9	128.1	1 821.7	1 962.5	107.7	36.5	30.7
Potato	2 114.1	2 150.2	101.7	35 444.7	39 504.4	111.5	16.7	18.4
Cabbage	318.4	379.5	119.2	10 623.2	12 257.5	115.4	33.4	32.3
Other vegetables	300.2	365.9	121.9	5 464.1	6 685.2	122.3	-	-

Table 4: Total production fruits, citrus and olives, 2016

	2015		2016		Total production indices <u>2016</u> 2015
	Production - total, t	Of that production on plantations, t	Production - total, t	Of that production on plantations, t	
Plums	7 035.1	1 259.2	13 127.6	1 587.6	186.6
Apples	10 614.8	2 816.8	7 968.1	1 638.3	75.1
Pears	2 648.9	365.5	2 612.7	431.6	98.6
Peaches	1 585.0	1 491.9	884.6	797.2	55.8
Mandarins	3 040.2	2 574.7	4 485.0	3 449.5	147.5
Olives	554.1	244.3	766.5	412.0	138.3

Table 5: Production of grapes, 2016

	2015		2016		Total production indices <u>2016</u> 2015
	Production - total, t	Of that production on plantations, t	Production - total, t	Of that production on plantations, t	
Total	24 826.6	23 085.6	30 153.0	28 925.4	121.5

Table 6: Production of hay on meadows, 2016

	Area, ha		Indices <u>2016</u> 2015	Production, t		Indices <u>2016</u> 2015	Yield, t/ha	
	2015	2016		2015	2016		2015	2016
Meadows	63 323.4	72 819.9	115.0	174 693.6	194 738.8	111.5	2.7	2.7

METHODOLOGICAL NOTES

Legal basis

The survey is conducted in accordance with the Law on Official Statistics and Official Statistical System (Official Gazette of Montenegro No 18/12), and in accordance with the Annual Plan of Statistical Surveys for 2016 (Official Gazette of Montenegro No 71/15).

Aim of survey

According to the Annual Plan of Statistical Surveys for 2016, in November 2016, five sample surveys were carried out in the field of agricultural statistics: a survey on the structure of agricultural holdings, three surveys in the field of crop production statistics and a survey on livestock production. These surveys are merged into the Farm Structure Survey in order to relieve the respondents by visiting the interviewers in the same farms and consolidate the budget. For the statistics on crop production, data on the area of agricultural land are collected by categories of use, harvesting areas per individual crops, realized production of crops, vegetables, fruits and grapes.

Coverage

The survey includes agricultural organizations (agricultural enterprises and cooperatives) and private agricultural holdings that are engaged in crop production. Data on agricultural organizations (agricultural enterprises and cooperatives) are collected by reporting method, and data on family agricultural holdings by survey method.

Definitions

Used agricultural area covers arable land, kitchen gardens and/or gardens, orchards, vineyards, nurseries, meadows and pastures, regardless of the type of ownership (own land or land leased).

Arable lands are areas of land that are regularly used, and crops are sown/planted according to certain order (crop rotation). On arable land there are cultivated grains, industrial crops, potato, fodder crop, vegetables, flowers, seeds, and seedlings.

Kitchen gardens and/or gardens are areas where crop plants (different types of vegetables, potatoes, fruit and vine) are cultivated for the consumption of household members, and that are mainly not intended for the sale. Only occasional surplus of products grown on these areas is sold outside the household.

Other cereals for grain include: buckwheat, millet, sorghum, etc.

Other fodder crops include: green maize, grass mixture, grass-clover mixtures, fodder beet, etc.

Other plants on the arable land include: industrial plants, flowers and ornamental plants and production of seeds and seedlings.

Other vegetables include: carrots, garlic, cauliflower, broccoli, kale, lettuce, spinach, eggplant, zucchini and others.

Harvested area is the area from which crops are harvested and yield was realized.

Plantation orchards are areas under the fruit trees, with certain spacing between lines and rows. Mechanical processing can be carried out in them, and other agro-technical measures are by rule carried out.

Extensive orchards are semi-intensive or extensive fruit crops intended mostly for own consumption. The trees are located on the yards, on the kitchen gardens, on the borders, along the roads, as well as in the trees of different fruit species. The area of extensive orchards is entered only if the area is not recorded as meadows and in case the economic value of the orchard is higher.

Vineyards are plantations of vine intended for the production of grapes.

Plantation vineyards - areas under vine with a certain distance between the vines, in which there can be performed a mechanized processing, and by a rule there are conducted other agro-technical measures.

Nurseries are areas of land on which there are grown young woody plants intended for transplantation later, and include: fruit seedlings, grapevine seedlings, decorative plants and forest trees.

Meadows – land that is permanently (five or more years) used to grow green animal feed, and is not included in the crop rotation.

Pastures – land that is used for grazing of livestock.

**Published and printed by Statistical Office of Montenegro - MONSTAT
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