



# **WORKING PAPER**

# Economic accounts for agriculture in the Republic of Serbia, 2010 - 2020

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# Abbreviations

GDP	Gross domestic product
GVA	Gross value added
EAA	Economic accounts for agriculture
ESA	European system of accounts
CAP	Common agricultural policy
IAS	Institute for applied science in agriculture
LKAU	Local kind of activity unit
MoA	Ministry of agriculture, forestry and water management
MF	Ministry of finance
VAT	Value added tax
CCIS	Chamber of commerce and industry of Serbia
SORS	Statistical Office of the Republic of Serbia
SNA	System of National Accounts
DAP	Directorate for agrarian payments

# Symbols

-	Category not applicable
	Data not available
0	Data value under 0.5 of measurement unit
Ø	Average
()	Incomplete or insufficiently estimated data
*	Corrected data
$\uparrow \leftarrow$	Covered by data in arrow direction



# List of contents

Abbreviations	3
Symbols	2
Symbols	
INTRODUCTORY NOTES	7
I. METHODOLOGICAL BACKGROUNDS OF ECONOMIC ACCOUNTS FOR AGRICULTURE	8
1.1. Coverage and observation units	8
1.2. Main EAA elements: Definitions	9
1.3. Methods of calculation	
1.4. Items of intermediate consumption according to EAA	
1.5. Factor income	
II. CALCULATION OF AGRICULTURAL GROSS VALUE ADDED AT CONSTANT PRICES	
III. CALCULATION OF ECONOMIC ACCOUNTS FOR AGRICULTURE IN THE REPUBLIC OF SERBIA	16
3.1. Main features of the calculation	16
3.2. Data sources	
3.3. Methods of calculation	
IV. EAA CALCULATION RESULTS FOR THE REPUBLIC OF SERBIA – QUANTITATIVE OVERVIEW	19



# INTRODUCTORY NOTES

The Statistical Office of the Republic of Serbia releases the working paper *Economic Accounts for Agriculture in the Republic of Serbia*, where we present the results of calculations for the period from 2010 – 2020.

Economic accounts for agriculture (EAA) make an integral part of the international statistical system and are created primarily for the purpose of monitoring and evaluating the effects of an agricultural policy. As a part of the Serbian statistical system, they are expected to provide a basis for analysing the production processes of the agricultural sector and the primary income generated by these activities in the country. They also ensure international comparability of the results, as well as comparisons with the results of other economic activities in the national economy.

Since economic accounts for agriculture are an integral part of the system of national accounts (System of National Accounts 2008 – SNA 2008) they provide specific data on economic activities in agriculture, which could not be visible in the system of national accounts as they are either indirectly used in the calculations or form an integral part of the categories presented on the higher level. In addition, these accounts are regarded as complementary to agricultural statistics, in a manner that agricultural variables are consistent with the concepts and definitions of national accounts. Economic accounts for agriculture are intended to ensure a conceptual framework for integrating agricultural statistics and its economic implications, which means, first and foremost, contribution of agriculture to the economy.

The methodological frame for calculating economic accounts for agriculture is ensured by ESA 2010 – European System of National and Regional Accounts, Commission Regulation (EC) No 138/2004 of the European Parliament and of the Council of 5 December 2003 on the economic accounts for agriculture in the Community, Commission Regulation (EC) No 306/2005 of 24 February 2005 amending Annex I, Commission Regulation (EC) No 909/2006 of 20 June 2006 amending Annexes I and II, as well as the Manual on Economic Accounts for Agriculture and Forestry, Rev 1.1.

The presented results of calculations of the economic accounts for agriculture in the Republic of Serbia cover the period from 2010 – 2020, and they relate to the elements of production account and factor income in agriculture. The results are offered at current and constant prices. Also provided are the methodological principles underlying the EAA compilation with a detailed description of calculation methods, data sources and main features.

The working paper was prepared at the SORS National Accounts, Prices and Agriculture Department.

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).

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# I. METHODOLOGICAL BACKGROUNDS OF ECONOMIC ACCOUNTS FOR AGRICULTURE

# 1.1. Coverage and observation units

Economic accounts for agriculture are an integral part of the European system of accounts (ESA), and therefore for their compilation used is (4-digit level nomenclature of activities) the General Classification of Economic activities – NACE Rev. 2 (Regulation of the European Parliament and of the Council No. 1893/2006), which came into force on 1 January 2008).

Accounts by industry describe, in more detail, the level of production process and the use of goods and services by activity. The industry consists of a group of units of homogeneous agricultural production (local KAUs) engaged in the same or similar type of activity. A series of accounts for an industry is limited to the production and generation of income account. These accounts are essentially similar to the corresponding accounts for institutional sectors (and units). However, output and intermediate consumption of the activity are broken by products in the resource and use table.

Since the purpose of economic accounts for agriculture is to measure, describe and analyse the generation of income from agricultural economic activity (which in the Member States is almost exclusively a commercial activity), the units which produce solely for own final consumption (e.g. kitchen gardens and private livestock rearing) are excluded.

Economic accounts for agriculture cover:

- family agricultural holdings having at least 0.5 hectares of agricultural land (area) on which they perform agricultural production;
- family agricultural holdings having less than 0.5 hectares of agricultural land, which they utilize for crop farming, livestock breeding, fruit growing, vineyards, vegetable production, flower growing (glass and plastic protective covers), and for other forms of practices of agricultural production, intended for marketing, as well as fish farming, mushroom growing, snail farming, bee-keeping, etc.;
- enterprises, farm cooperatives, unincorporated enterprises and other forms of organisation with the status of legal entity that are registered as mainly dealing with agricultural production, and
- enterprises, institutions and other legal entities registered for another activity, having organised branches or other organisational units in which their agricultural production is carried out.

### Inseparable non-agricultural secondary activities

The use of the local KAU as the basic unit for the agricultural industry entails the recording of non-agricultural secondary activities where they cannot be distinguished from the main agricultural activity.

Inseparable non-agricultural secondary activities of local agricultural KAUs are defined as activities closely linked to agricultural production for which information on any production, intermediate consumption, compensation of employees, labour input and the gross fixed capital formation cannot be separated from the information on the main agricultural activity during the period of statistical observation.

Two main types of inseparable non-agricultural secondary activity may be distinguished:

- activities which represent a continuation of agricultural activity and which use agricultural products (processing of agricultural products: milk into butter, cream, yoghurts and other dairy products, fruit and vegetables into fruit juices, brandy, jams etc., grapes into dried grapes and wine, processed meat products, processing of other agricultural products, etc.
- activities involving the agricultural holding and its means of agricultural production, i.e. workforce, buildings, machinery, and equipment (agricultural services, rural tourism, etc.).

The agricultural secondary activities of non-agricultural units are negligible and are recorded as zero by convention. Agricultural production carried out by a non-agricultural unit is in fact considered to be always separable.





# 1.2. Main EAA elements: Definitions

Output of agricultural industry is equal to the sum of the value of crop production, animal production, agricultural services and value of production from inseparable non-agricultural secondary activities on the holdings.

Crop output includes production of cereals, industrial crops, forage crops, vegetables and horticultural products, fruit and other agricultural products.

Animal output includes production or rearing (natural growth) of animals, poultry and other animals and animal products.

Production of animal products includes production of milk, eggs and other agricultural products.

Agricultural goods and services output is the value of production of all agricultural goods (crop and animal production) and agricultural services.

Inseparable non-agricultural secondary activity is the activity that cannot be separated from the main activity and is carried out on the agricultural holding (processing of milk, grapes, fruits and vegetables, and other inseparable activities: other goods and services).

## 1.2.1. Scope of output of agricultural industry according to EAA

Output of agricultural "industry"						
	Agricultural goods output					
	Animal	production	Agricultural services output	secondary activities (inseparable)		
Crop output	Animals	Animal products	output			

The reference period is the calendar year.

In the frame of economic accounts for agriculture, agricultural production is valued at basic prices. Hence, subsidies on products and services are included, whereas taxes on products and services are excluded.

Intermediate consumption represents the value of all goods and services used as inputs in the agricultural production process. It is valued at the purchaser prices.

Gross value added at basic prices is equal to the difference between the value of agricultural production (output of the agricultural "industry") at basic prices and intermediate consumption at purchaser prices.

Consumption of fixed capital represents the amount of fixed capital used up in the production process during the period under consideration as a result of normal wear and tear and foreseeable obsolescence.

Net value added at basic prices is equal to the difference between gross value added at basic prices and consumption of fixed capital.

Other subsidies on production are current unrequited payments (other than subsidies on products that are included in the calculation of basic prices in the valuation of output and as such are not presented in the generation of income account) mainly intended to cover a part of production costs or as support to the changes in agricultural production methods.

Factor income is equal to the net value added less taxes on production, plus subsidies on production.



# 1.2.2. Generation of value added and primary income in agricultural industry

Composition of total output value	Output of agricultural "industry"						
	Intra-unit	Processing by producers (as	Own final	Sales	Own-account	Changes in stocks	
	consumption separa	separable activity)	ble consumption	Subsidies on products less taxes on products	produced fixed capital goods		
	Output of agricultural "industry"						
Other subsidies on production		Gross value a					
on production	Net value added at basic prices			Fixed capital	Total intermediate consumption		
Factor income			Other taxes on production	consumption			

# 1.3. Methods of calculation

## 1.3.1. Output

The result of "production" process is the "output", which is recorded as a resource, while intermediate consumption is recorded as a use in the production account.

One of the main characteristics of the economic accounts for agriculture is the adoption of the "quantity x price" formula when measuring the output of the majority of agricultural products.

In economic accounts for agriculture, production is valued at basic prices.

The basic price is the price receivable by the producers from the purchaser for a unit of goods or services produced as output minus any tax payable on that unit as a consequence of its production or sale, i.e. taxes on products, plus any subsidy receivable on that unit, as a result of its production or sale, i.e. subsidies on products. The basic price excludes any transport charges invoiced separately by the producer.

Basic price	_	Amount received for a		Taxes on		Subsidies on
basic price	=	unit of goods or services	-	products	Ŧ	products





## 1.3.2. Gross value of agricultural "industry" output, resources and uses

Resources	Uses	Agricultu output
Gross output	Sales (total, excluding trade in animals between agricultural holdings)	Х
	Changes in stocks (with producers)	Х
- Losses	<b>Own-account produced fixed capital goods</b> (productive animals, plantations yielding repeat products)	X
	Own final consumption (of agricultural products)	Х
= Usable output	Processing by producers (of agricultural products, separable activities)	Х
	Intra-unit consumption:	
	<ul> <li>for the same activity (seeds, milk for livestock feed, wine grapes, olives for olive oil, hatching eggs)</li> </ul>	
	■ for a separate activity:	
	<ul> <li>crop products used in animal feed (cereals, oil seeds, fodder crops, marketable or not, etc.)</li> </ul>	Х
	<ul> <li>animal by-products used in crop production (slurry, manure, etc.)</li> </ul>	

## 1.3.2.1. Intermediate consumption

Intermediate consumption represents the value of all goods and services used as inputs in the production process, excluding fixed assets whose consumption is recorded as fixed capital consumption. The goods and services concerned are either transformed or used up in the production process.

Products used for intermediate consumption are presented at the time when they enter into the production process and are valued at the purchaser prices at the time of purchase.

The purchaser price is the price the purchaser actually pays for the products, at the time of purchase, which includes all taxes less subsidies on products (except deductible VAT), as well as transport charges paid separately by the purchaser to take delivery at required time and place.

Purchaser	_	Amount paid for a unit of goods or	Ŧ	Taxes on	Deductibl	Subsidies on		Transport
price	-	services	т	products	e VAT	products	т	costs

Taxes on products are compulsory, unrequited payments, in cash or in kind, which are levied by general government and are payable per unit of goods or services produced or transacted. The obligation arises from the production, sale, import, export, transfer and other forms of delivery of goods and services. They may be equivalent to a monetary amount determined per unit of goods or services or calculated "ad valorem" as a fixed percentage of the unit price or value of goods or services. In this category included are value added tax, excise tax, other taxes on products and import duties.

Subsidies on products are subsidies payable per unit of goods or services produced (I, kg, etc.) by agricultural producers.

The following table shows the elements of intermediate consumption, according to the methodology of economic accounts for agriculture.



# 1.4. Items of intermediate consumption according to EAA

	Intermediate consumption
Seeds and pl	anting stocks
Seeds and	planting stock - intra-unit consumption
Seeds and	planting stock - purchased outside the agriculture
Energy, lubri	cants
Fertilisers an	d soil improvers
Plant protec	tion products and pesticides
Veterinary e	xpenses
Animal feed	ng stuffs
Animal fee	eding stuffs - intra-unit consumption
Animal fee	ding stuffs - purchased outside the agriculture
Maintenance	e of materials
Maintenance	e of buildings
Agricultural	services
Other goods	and services

# 1.4.1. Gross value added (GVA)

The balancing item of the production account is gross value added, one of the most important balancing items in economic accounts for agriculture. Since the output is valued at basic prices and intermediate consumption at purchaser prices, the gross value added contains subsidies on products less taxes on products.

## 1.4.2. Net value added

Gross value added less consumption of fixed capital represents the net value added.

Net value added of the industry measures the value created by all agricultural LKAUs (local units kind of activity), after the consumption of fixed capital.

## 1.4.3. Subsidies

Subsidies are current unrequited payments that general governments (including non-resident government units) make to resident producers, with objective of influencing the level of agricultural production, the prices and value of goods and services produced/rendered by the producers, sale or import, production conditions, etc.

Subsidies are classified into:

- subsidies on products (export subsidies and other subsidies on products), and
- other subsidies on production.

Subsidies on products are subsidies payable per unit of goods or services produced (I, kg, etc.) by agricultural producers. The amount of subsidies on products can be specified as (i) a specific amount of money per unit of quantity of goods or services, (ii) a specified percentage of the price per unit, i.e. calculated "ad valorem", (iii) the difference between a specified target price and the market price paid by buyer, and (iv) export support.

Subsidies can be calculated as the difference between the defined, targeted price and the market price payable by purchaser. Subsidies on products usually become payable when goods are produced, sold or exported.

By convention, subsidies on products can pertain to market output or to output for own final use (ESA 2010).



*Other* subsidies on production are paid to resident production units as a result of their production activities. These payments relate mainly to the assumption of production costs (e.g. input subsidies for crop production, such as fertilizers, fuel, seed and planting material, etc.) or support for changes in the method of production.

Since output is valued at basic prices, only other subsidies on production are recorded in the generation of income account (as negative uses).

### 1.4.3.1. Net value added at factor costs (Factor income)

Net value added at factor costs is defined as net value added at basic prices, less other taxes on production, plus other subsidies on production. This indicator measures the remuneration of all factors of production (land, capital and labour) and can be termed "factor income", as it represents the whole value generated by a unit engaged in the agricultural production activity.

# 1.5. Factor income

Production account				
P-1	Output			
P-2	- Intermediate consumption			
K-1	- Consumption of fixed capital			
B.1n	= Net value added			
D.29	- Other taxes on production			
D.39	+ Other subsidies on production			
	= Net value added at factor costs (Factor income)			



EAA agricultural industry differs to some extent from the industry as defined for national accounts purposes.

The differences relate to the definition of both characteristic activities and observation units. They can be summarised as follows<sup>1</sup>:

EAA agricultural industry	=	NA agricultural branch
	+	Wine production units (groupings of producers, co- operatives, etc.)
	+	Production units producing material for plaiting
	+	Production units producing, in nurseries, Christmas trees, fruit trees, vines and ornamental trees
	-	Units engaged in seed production (for research or certification)
	-	Production units rendering associated agricultural services other than agricultural contract work (i.e. operations of irrigation systems, designing, planting and maintaining gardens, parks and green areas for sports facilities and the like, tree pruning and hedge trimming)
	-	Non-holder kitchen gardens and private non-holder livestock rearing.

<sup>&</sup>lt;sup>1</sup>EUROSTAT (2000): *Manual on the economic accounts for Agriculture and Forestry* EAA/EAF97 (Rev.1.1), Office for Official Publications of the European Communities, Luxembourg.



# II. CALCULATION OF AGRICULTURAL GROSS VALUE ADDED AT CONSTANT PRICES

The calculation of agricultural gross value added at constant prices is based on the principles of the System of National Accounts 2008 – SNA 2008 and the European system of accounts 2010 – ESA 2010, as well as on the international standards and recommendations covered by the Handbook on Price and Volume Measures in National Accounts.

For each aggregate of goods and services presented in the accounts, price and quantity measures have to be structured so that:

### Value index = Price index x Volume index

This means that each and every change in the value of aggregate must be attributed to either a price change or a change in volume, or a combination of the two.

The systematic breakdown of the changes in current value into the components "change in price" and "changes in volume" is restricted to the flows representing transactions of goods and services and to the elements concerned in the valuation of these transactions (production, intermediate consumption, consumption of fixed capital, gross value added, net value added, GFCF, changes in stocks, taxes and subsidies on products).

In accordance with the recommendations of ESA 2010, in EAA, changes in volume are measured using Laspeyres-type indices and changes in price are measured using Paasche-type indices.

Laspeyres volume index:

$$L_{(q)} = \frac{\sum p_0 q_n}{\sum p_0 q_0} = \frac{\sum p_0 q_o \frac{q_n}{q_o}}{\sum p_0 q_0} = \frac{\sum V_0 \frac{q_n}{q_0}}{\sum V_0}$$

Paasche price index:

$$P_{(p)} = \frac{\sum q_{n} p_{n}}{\sum q_{n} p_{n}} = \frac{\sum p_{0} q_{n} \frac{p_{n}}{p_{0}}}{\sum p_{o} q_{n}}$$

For each elementary product,

- p<sub>0</sub>: represents the price recorded in the base year 0,
- p<sub>n</sub>: represents the price recorded in year n,
- q<sub>0</sub>: represents the quantity recorded in the base year 0,
- q<sub>n</sub>: represents the quantity recorded in year n,
- Vo : represents the value recorded in the base year 0 ( $V_0 = p_0 q_0$ ).

Changes in volume are measured using Laspeyres-type indices: changes in the quantities of elementary series are therefore weighted by the value in the base year. Changes in price are measured using Paasche-type indices: changes in the prices of elementary series are therefore weighted by the value in the current year at the base year prices.

The term "base year" refers to the year from which the prices are used to compile the weighting scheme.

The calculation of GVA for agriculture at the previous year prices means that every previous year is treated as the base year and the weights are changed successively by years. This approach guarantees that weights are relatively up-to-date and helps avoiding problems, and therefore are linked to weighting products that are no longer produced and new products that have emerged. It is for this reason that the EAA measures changes in volume with using the weightings for the preceding year.



Value added constitutes the balancing item of the production account. As such, it is not possible to split value added directly into a price component and a volume component.

The theoretically correct method for calculating value added at constant prices is to carry out "double deflation". Therefore, Gross value added in the prices of the preceding year is defined as the difference between the output measured at the prices of the preceding year and intermediate consumption measured at the prices of the preceding year.

According to this calculation method, only two consecutive years expressed at the same prices are comparable. The obtained data series calculated at the previous year prices cannot be used to calculate the rate of real growth, which is due the fact that the data are not comparable (each year is valued at previous year prices). In order to obtain comparable data series for calculating the growth rate it is necessary to make it a continuous procedure, which is achieved by chainliking of the data to a selected reference year. The reference year is the year that is used for the presentation of the data series at constant prices. In a series of index numbers it is the year that has the value of 100. One of the main features of chain-linking is that by changing the reference year, the absolute values are changing, but growth rates remain the same. According to Eurostat recommendations, the reference year is 2015.

### Breakdown of taxes and subsidies on products into volume and price component

The volume index of subsidies (or taxes) on product is identical to the volume index of the output at the producer prices. In this case, the volume index of the output is the same whether expressed at producer prices or at basic prices.

# III. CALCULATION OF ECONOMIC ACCOUNTS FOR AGRICULTURE IN THE REPUBLIC OF SERBIA

#### 3.1. Main features of the calculation

Calculation of the economic accounts for agriculture in the Republic of Serbia was carried out for the period 2010 – 2020 and is in accordance with the concepts and rules stipulated by the Regulation (EC) No 138/2004 of the European Parliament and of the Council of 5 December 2003 on the economic accounts for agriculture in the Community with annexes. The general methodological framework comprises the System of National Accounts 2008 – SNA 2008 and the European System of Accounts 2010 - ESA 2010.

In the current statistical system of the Republic of Serbia no special surveys are implemented to provide direct data in value terms for the calculation of items and elements of the economic accounts for agriculture; however, the indirect data from the regular SORS statistical surveys envisaged to measure different areas of the economy (agricultural production, industry, prices, and price indices etc.) are used for this purpose. Also, administrative data are used; in the first place, data on subsidies in agriculture (data from the Ministry of agriculture, forestry and water management, the Directorate for agrarian payments and the Ministry of finance).

The calculation of the economic accounts for agriculture covers the overall agricultural production. Hence, family holdings, as well as legal entities and unincorporated enterprises in the Republic of Serbia are covered.

The main features of the calculation can be summarised as follows:

- It is carried out in accordance with the General Industrial Classification of Economic Activities within the European Communities, Revision 2, or NACE, Rev. 2, for agricultural industry,
- At current and constant prices,
- "Double deflation", i.e. direct, so-called double indicator method is used for the calculation at constant prices (previous year prices), and
- Reference year is 2015.





# 3.2. Data sources

Given the multi-source character of the EAA and the fact that it represents a kind of statistics of synthesis, a wide range of data collection techniques can be used.

Therefore, in the Republic of Serbia, apart from analytical procedures imposed on primary statistics, alternative indirect methods are needed to be applied for some EAA items such as intra-unit consumption, intermediate consumption, consumption of fixed capital, and other, for which no direct statistical data are available. The indirect methods rely upon the assumptions and developed models with input coefficients based on respective expertise and technical standards.

In this process a large number of agricultural statistics are available, both compiled by SORS and obtained from external sources. They can be split into two main groups:

- Regular statistical surveys, and
- Administrative and other data sources.

The following table shows the available data sources, their EAA relevance with corresponding input variables for the calculations, including the institutions in charge of data provision.

### 3.2.1. EAA elements and the major data sources

Data source	EAA item	Input variable for the EAA calculation	Institution in charge
		Agricultural statistics	
Crop production statistics	Output	Sown areas, harvested areas, average yield, total production	SORS
Survey on agriculture production – livestock production	Output, Intermediate consumption, Gross fixed capital formation in livestock	Number of livestock by species and categories, incl. the number of beehives, livestock turnover by species, average weight per head, production of milk (from cows, sheep and goats), eggs, honey and wool, feedstuffs consumption	SORS
Survey on agriculture production – crop production	Output, Intermediate consumption	Harvested areas, average yield, total production, intra-unit consumption, production costs by elements	SORS
Annual survey on legal entities dealing with agricultural production	Output, Intermediate consumption	Balance of wheat and maize for legal entities, production costs by elements	SORS
Slaughtering statistics	Output, Gross fixed capital formation in livestock	Number of heads slaughtered and the average weight at slaughter (only for legal entities)	SORS
Monthly reports on purchase and sale of agricultural products	Output, Intermediate consumption	Monthly data on purchase and sale of agricultural products (quantities and values)	SORS
Agricultural price statistics	Output, Intermediate consumption, constant prices	Output absolute prices and indices, Input absolute prices and indices	SORS
Results of research projects, bio-technical coefficients, experts' estimates	Output, Intermediate consumption, Gross fixed capital formation in livestock, "missing prices"	Bio-technical coefficients such as seed consumption per ha, live/carcass weight coefficient, calving percentage, etc.	Faculty of Agriculture, IAS, CCIS
	Other	statistics and data sources	
External trade statistics	Output, Intermediate consumption	Export and import (quantities and values)	SORS
Industry statistics	Output, Intermediate consumption	Industry production (quantities and values)	SORS
Producer price indices (PPI)	Intermediate consumption at constant prices	Producer price indices on product level	SORS
Consumer price index (CPI)	Intermediate consumption at constant prices	Consumer price indices on product level	SORS
Data on compensatory payments in agriculture	Basic prices, Factor Income	Subsidies on production, other subsidies on production, capital transfers	MoA, DAP and MF



# 3.3. Methods of calculation

Calculation of crop output relies upon the data of agricultural production statistics, such as the data on produced (harvested) quantities of crops. These data are obtained on the basis of the estimated area and the average yields for each crop provided by agricultural production statistics. When it comes to calculating animal production, use is made of data on the number, weights, balance and slaughtering of animals and poultry, as well as data on the production of animal products (milk, eggs, wool, etc.).

For the valuation of agricultural production (output), use is made of average producer prices of agricultural products.

Producer prices of agricultural products are calculated on monthly and annual basis, based on sales data on agricultural products from own production of legal entities engaged in agricultural production (sales prices) and data on purchases of agricultural products from family holdings, performed by the authorized units (purchaser prices).

Calculation of the output of inseparable non-agricultural secondary activities includes the following activities:

- Processing of cereals into flours, shredded wheat, etc.
- Processing of fruits and vegetables into juices, brandy, marmalade, etc.
- Processing of grapes into dried grapes, wine, etc.
- Processing of milk into cheese, butter, yoghurt and other dairy products
- Processing of meat, and
- Agricultural services.

Intermediate consumption refers to all goods and services used as inputs in the production process, such as seeds and planting material, energy and lubricants, fertilizers and other means for improving soil quality, plant protection products, veterinary expenses, animal feed, maintenance of materials and equipment, maintenance of buildings, agricultural services and other goods and services (costs of renting buildings, equipment and machines without personnel to carry out agricultural production, agricultural extension services fees, subscriptions, fees for membership in professional associations, chambers of commerce, purchases of small tools, working clothing, spare parts and durable equipment of low value, i.e. less than 500 EUR at 1995 prices or with a normal service life of less than one year, etc.).

Goods used for intermediate consumption are valued at purchaser prices at the time they enter into the production process.

As the balancing item of output and intermediate consumption, the gross value added of agriculture is obtained. Subtracting the amount of the fixed capital depreciation results in the net value added of agriculture. At this point, the estimates of depreciation in agriculture in the Republic of Serbia are based on the expert correction coefficients that are applied to the output of agriculture.

The calculation of the subsidies in agriculture was conducted so as to allow their classification as prescribed by the methodology on economic accounts for agriculture. Since the method of monitoring and recording of projected and paid subsidies in agriculture by the Agency for Payments in Agriculture and the Ministry of agriculture, forestry and water management is based on a completely different classification, it is necessary to examine in detail the contents of each of the support measures in agriculture and then execute its reclassification according to the requirements of the EAA (division into subsidies on products and other subsidies on production). For this purpose, the OECD methodology for the assessment of support to agriculture was used<sup>2</sup>.

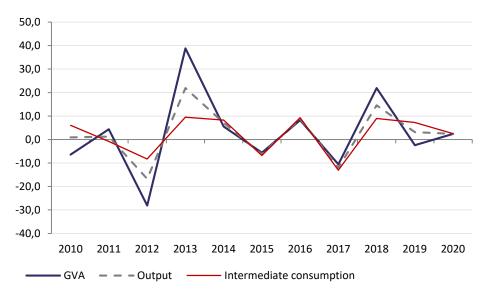
<sup>&</sup>lt;sup>2</sup> OECD (2008): OECD's Producer Support Estimate and Related Indicators of Agricultural Support: Concepts, Calculations, Interpretation and Use (The PSE Manual), OECD Trade and Agriculture Directorate, Paris.



# IV. EAA CALCULATION RESULTS FOR THE REPUBLIC OF SERBIA: QUANTITATIVE OVERVIEW

The presented results of the calculation of economic accounts for agriculture in the Republic of Serbia refer to the period from 2010 – 2020.

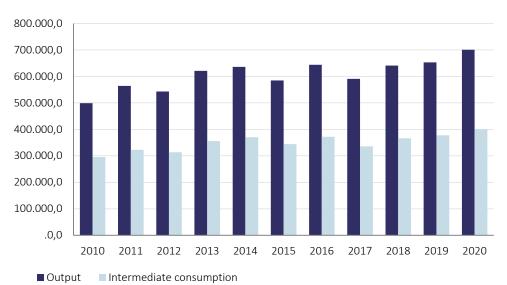
In the period observed achieved was the cumulative growth of agricultural GVA equalling 23.0%, while the average annual growth rate equalled 1.3%. After recording the real GVA fall of -6.4%% in 2010, notable was the growth of 4.3% in 2011. The most notable fall was recorded in 2012 (-28.1%), while in 2013 a significant growth of 38.8% was recorded. In 2020, recorded was a growth of agricultural GVA of 2.4%.





### Output and intermediate consumption of agriculture

In the period from 2010 – 2020, intermediate consumption equalled 58.1% of the agricultural industry output on average, with the top share of 59.2% expressive in 2010, and the share noted to equal 57.1% in 2020.

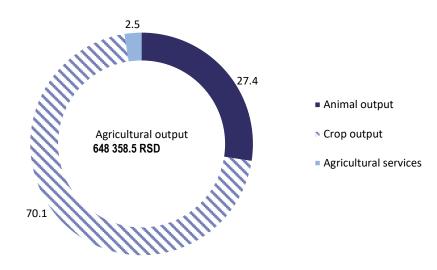


Graph 4.2. Output and intermediate consumption at current prices, 2010 - 2020, RSD million

### Agricultural output structure

In the period from 2010 – 2020, the average share of agricultural goods production in the total production of agricultural goods and services equalled 97.5%, while the share of agricultural services equalled 2.5%.

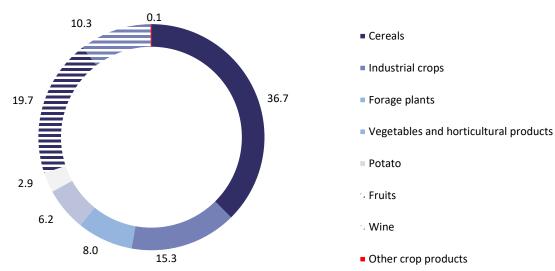
In the same period, the average share of animal output in the production of agricultural goods and services accounted for 27.4%, while the share of crop output equalled 70.1%.



Graph 4.3. Structure of the agricultural output in 2020

### Crop output

In the 2020 the average share of cereals dominated in the structure of crop production with 37.6%. Fruit production contributed with 19.7%, followed by industrial crops with 15,3%, while the share of wine production equalled 10,3%. Forage crops production equalled 8.0%, and vegetables and horticultural products – 6,2%. The lowest share was noted for potatoes production equalling 2.9%.



# Graph 4.4. Structure of crop output in 2020

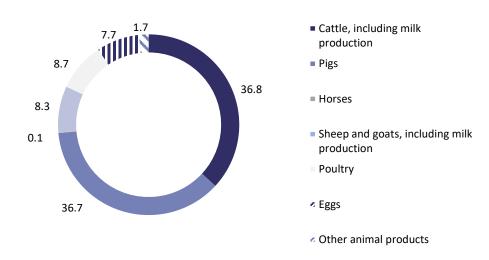
Working paper

### Animal output

In the period from 2010 – 2020, animal husbandry participated in the structure of animal output with 69.6% on average, while animal products participated with 30.4% in the animal output.

The highest average share in animal husbandry had the raising of pigs (52.7%), followed by the raising of cattle (23.5%). The raising of poultry accounted for 12.5%, while the raising of sheep and goats participated with 11.2%. The share of horse raising equalled 0.1%.

Milk was the major product of animal production. The average share of milk production in the total value of animal production (animal output) equalled 69.1%.



### Graph 4.5. Structure of animal output in 2020

### Volume of agricultural production

The volume of agricultural production represents the value of production at the previous year prices. It is expressed in producer prices with a view to avoiding the impact of subsidies.

In the observed period, the volume of agricultural production varied considerably, mainly due to unfavourable climatic effects.

In 2010 the volume of production of agricultural goods increased by 1.3%. This is followed by a period of lower growth in volume, further followed by significant fall of 17.2% in 2012. The highest growth (21.6%) in the observed period was recorded in 2013. In 2014, lower growth of 9.0% was recorded, and then in 2015 fall of 6.9%. In 2020 recorded was a volume growth of 2,1%.

These developments are the result of high fluctuations in the volume of crop production. In 2010 recorded was a fall of crop production volume (1.2%), which resumed until 2012 when the fall equalled 26.6%. The highest growth was recorded in 2013 (32.7%), but in 2014, a lower growth of 12.7% was seen. In 2015, recorded was fall of 14.6%. In 2020 recorded was volume growth of 4,0%.

In 2010 the volume of livestock production fell by 6.3%. The next two years saw a growth of 2.7% and 5.3%, respectively. In 2015 recorded was the top growth of 10.1%; however, in 2020 the fall was notable and equalled 2.2%.



### Consumption structure of agricultural output

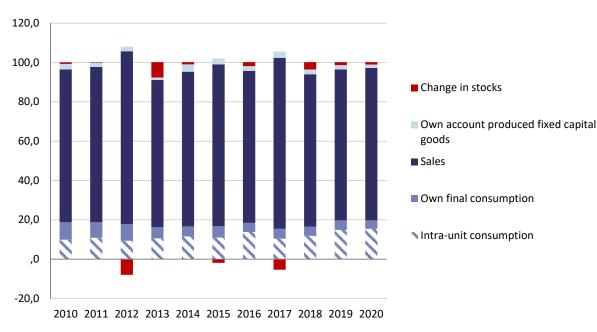
The main part of agricultural production is intended for the market; the data are estimated on the basis of direct and indirect statistical sources. In compliance with the EAA methodology, the sales from agricultural holdings include sales to other agricultural holdings, sales to non-agricultural units outside agriculture and exports.

In the period 2010 – 2020, the total sales from holdings on average equalled 79.6% of agricultural production. In 2019, the share of total sales from holdings in agricultural production equalled 76.7%, while in 2020 it equalled 77.5%.

Intra-unit consumption moved between 8.4% and 15.3% in the observed period. Intra-unit consumption includes the products that are produced and consumed in various parts of agricultural activity at the four-digit level of NACE Rev. 2, like crop products used as animal feeding stuffs. It is worthwhile noting that the products produced and consumed on the agricultural holdings and corresponding to the same activity at the four-digit NACE Rev. 2 level are not included as part of agricultural production within EAA. Characteristic examples are seeds used in the same production, grapes for producing wine, olives for producing olive oil, milk used as calves' fodder, etc. In 2019 the share of intra-unit consumption equalled 14.9%, and in 2020 it equalled 15.3%%.

On average agricultural holdings used 6.2% of agricultural output value for own final consumption in the period 2010 - 2020. The share of own consumption of holdings in agricultural production in 2019 equalled 4.9%, and in 2020 it equalled 4.4%.

Gross fixed capital formation for own account equalled on average 2.5% of agricultural output value. In 2020, this share fell in comparison with the previous year.

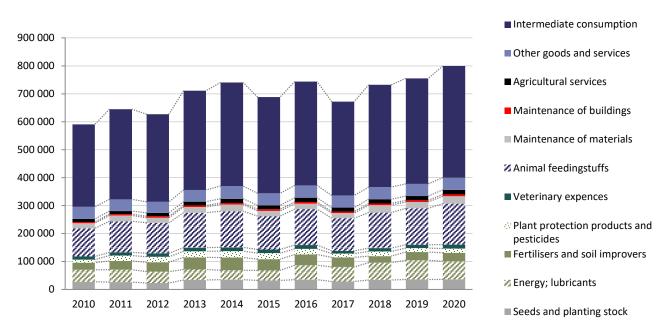


### Graph 4.6. Consumption structure of agricultural output at producer prices, 2010 – 2020



### Intermediate consumption

The value of intermediate consumption in 2020 amounted to RSD 399 918.8 million, representing growth of 5.9% when compared to the previous year. The real level of intermediate consumption increased by 2.5%, while the input prices increased by 3.4%.



### Graph 4.7. Structure of intermediate consumption, 2010 – 2020, RSD mill.

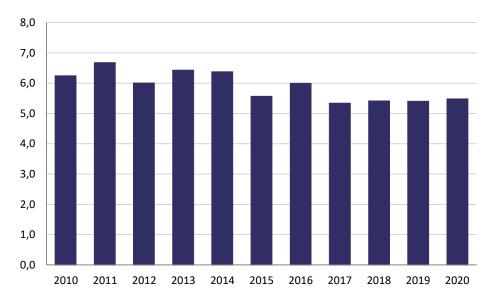
In the period from 2010 – 2020, the largest share in the total production costs of agricultural holdings had animal feeding stuffs with 36.7% on average, followed by the costs of energy and lubricants (16.3%) and other goods and services (11.0%). Seeds and planting stocks had the average share of 8.9%, while fertilisers and other means for improving the quality of soil had the average share of 7.6%. The lowest share had the costs of maintenance of buildings (1.7%).



## Table 1. Economic accounts for agriculture, Republic of Serbia

Description	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
					Curren	t prices. RSD r	nillion				
Production at basic prices	498 776.4	564 117.8	542 919.5	621 215.3	635 984.9	584 834.1	643 685.6	590 706.9	640 861.9	653 183.7	700 488.3
Intermediate consumption	295 276.6	322 353.7	313 514.6	355 550.2	370 166.1	344 055.9	371 854.1	336 109.2	366 069.2	377 541.4	399 918.8
Gross value added	203 499.7	241 764.1	229 404.9	265 665.0	265 818.8	240 778.2	271 831.5	254 597.7	274 792.7	275 642.3	300 569.5
Factor income	188 795.4	214 397.3	210 801.3	242 751.5	247 263.3	217 384.3	243 415.7	228 284.2	246 110.5	246 157.6	267 436.8
Share of GVA of agriculture in GDP. % (updated data)	6.3	6.7	6.0	6.4	6.4	5.6	6.0	5.4	5.4	5.4	5.5
				Const	ant prices (pr	revious year pi	rices). RSD m	nillion			
Production in basic prices	443 708.6	505 141.2	469 602.6	661 754.9	665 429.2	595 988.4	636 794.4	566 602.9	676 759.5	660 982.1	669 116.8
Intermediate consumption	273 646.1	292 799.4	295 724.0	343 301.2	385 035.9	345 109.9	376 068.9	323 429.4	366 352.8	392 755.7	386 817.1
Gross value added	170 062.5	212 341.9	173 878.6	318 453.7	280 393.2	250 878.4	260 725.5	243 173.5	310 406.8	268 226.5	282 299.8
				Chain-lir	nked volume	measures. 20	15=100. RSD	million			
Production in basic prices	498 776.4	505 141.2	420 507.3	512 548.8	549 028.5	514 500.6	560 212.0	493 125.4	564 962.6	582 700.0	596 913.8
Intermediate consumption	295 276.6	292 799.4	268 611.2	294 131.5	318 523.7	296 963.2	324 594.4	282 324.1	307 728.0	330 161.4	338 272.9
Gross value added	203 499.7	212 341.9	152 717.9	211 998.9	223 751.9	211 175.8	228 670.7	204 563.0	249 404.2	243 444.6	249 324.5
Real growth rates of GVA	- 6.4	4.3	- 28.1	38.8	5.5	- 5.6	8.3	- 10.5	21.9	- 2.4	2.4

# Share of GVA of agriculture (EAA) in GDP, 2010 – 2020, %



Description	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
						RSD million					
Agricultural output	466 810.9	519 959.5	502 684.2	565 521.3	584 299.7	534 779.5	589 817.8	543 746.5	589 704.3	605 291.2	648 358.
Agricultural goods output	455 752.7	509 125.4	491 597.1	552 078.6	569 276.2	520 965.6	574 817.9	529 890.4	574 703.9	589 978.3	632 360.9
Crop production	328 980.8	359 103.1	324 451.0	378 832.9	390 747.7	351 927.4	419 400.1	357 056.3	398 513.5	414 528.6	454 422.6
Cereals	146 732.7	175 221.3	138 324.7	174 602.0	178 776.0	139 584.0	164 831.9	113 759.6	157 004.2	158 628.8	170 698.0
Industrial crops	44 618.9	46 655.3	52 805.6	51 487.0	54 392.7	48 500.6	58 939.9	58 443.1	62 530.5	63 157.4	69 350.3
Forage plants	17 601.0	17 183.5	18 693.3	16 626.0	23 688.2	17 553.2	27 062.5	20 984.6	28 649.1	33 556.5	36 295.0
Vegetables and horticultural products	42 902.7	27 246.3	28 985.5	27 374.7	28 813.2	35 588.2	40 579.0	32 537.9	26 097.1	31 554.1	28 125.3
Potato	17 695.1	17 870.0	12 342.0	19 102.0	13 024.7	13 641.5	13 892.3	11 686.6	13 218.4	11 805.3	13 001.2
Fruits	41 159.2	50 859.5	53 932.0	61 567.1	56 879.7	73 669.8	74 991.0	76 995.0	68 815.9	67 045.1	89 740.6
Wine	17 872.6	23 712.7	18.925.0	27 534.5	34 621.3	22 794.7	38 568.5	42 111.7	41 578.5	48 249.0	46 667.2
Olive oil	-	-	-	-	-	-	-	-	-	-	-
Other crop products	398.6	354.5	442.9	539.6	552.0	595.3	534.9	537.7	619.8	532.5	544.6
Animal production	126 771.9	150 022.3	167 146.1	173 245.8	178 528.4	169 038.2	155 417.8	172 834.0	176 190.4	175 449.7	177 938.3
Animals	89 606.0	102 774.2	113 462.5	118 892.8	123 133.0	111 012.3	104 280.9	120 477.8	114 530.3	121 969.3	123 909.3
Cattle	24 797.0	29 058.9	31 377.2	32 406.8	32 114.4	31 703.4	30 352.6	31 039.7	33 686.7	32 412.0	29 158.2
Pigs	45 392.2	48 768.0	58 641.6	60 982.8	65 764.6	57 097.8	54 272.3	66 198.5	57 503.1	63 582.6	65 256.8
Equines	61.4	60.9	377.2	203.2	151.3	77.3	366.8	383.2	35.9	320.4	120.2
Sheep and goats	8 516.4	9 314.9	7 800.5	8 121.4	10 107.9	8 971.1	5 998.2	8 415.6	8 298.6	10 611.7	13 856.6
Poultry	10 838.9	15 571.5	15 266.1	17 178.6	14 994.7	13 162.7	13 291.1	14 440.7	15 006.0	15 042.5	15 517.4
Other animals											
Animal products	37 165.9	47 248.1	53 683.5	54 353.0	55 395.5	58 026.0	51 136.8	52 356.3	61 660.1	53 480.5	54 029.2
Milk	26 942.5	34 212.1	36 776.5	38 017.9	38 459.0	37 309.9	35 047.9	35 387.5	44 261.1	37 192.3	37 350.0
Eggs	8 608.4	10 809.9	14 678.0	13 395.1	14 970.9	15 507.4	13 740.5	14 504.0	13 357.3	13 558.5	13 619.5
Other animal products	1 615.0	2 226.1	2 229.0	2 940.0	1 965.6	5 208.7	2 348.5	2 464.8	4 041.7	2 729.6	3 059.7
Agricultural services	11 058.2	10 834.1	11 087.1	13 442.6	15 023.5	13 813.9	14 999.9	13 856.1	15 000.5	15 313.0	15 997.6



Table 2. Agricultura	l output at	current pric	es, Republic	of Serbia	(continued)
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Description	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
						Structure (%)					
Agricultural output	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Agricultural goods output	97.6	97.9	97.8	97.6	97.4	97.4	97.5	97.5	97.5	97.5	97.5
Crop production	70.5	69.1	64.5	67.0	66.9	65.8	71.1	65.7	67.6	68.5	70.1
Cereals	31.4	33.7	27.5	30.9	30.6	26.1	27.9	20.9	26.6	26.2	26.3
Industrial crops	9.6	9.0	10.5	9.1	9.3	9.1	10.0	10.7	10.6	10.4	10.7
Forage plants	3.8	3.3	3.7	2.9	4.1	3.3	4.6	3.9	4.9	5.5	5.6
Vegetables and horticultural products	9.2	5.2	5.8	4.8	4.9	6.7	6.9	6.0	4.4	5.2	4.3
Potato	3.8	3.4	2.5	3.4	2.2	2.6	2.4	2.1	2.2	2.0	2.0
Fruits	8.8	9.8	10.7	10.9	9.7	13.8	12.7	14.2	11.7	11.1	13.8
Wine	3.8	4.6	3.8	4.9	5.9	4.3	6.5	7.7	7.1	8.0	7.2
Olive oil	-	-	-	-	-	-	-	-			0.0
Other crop products	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Animal production	27.2	28.9	33.3	30.6	30.6	31.6	26.4	31.8	29.9	29.0	27.4
Animals	19.2	19.8	22.6	21.0	21.1	20.8	17.7	22.2	19.4	20.2	19.1
Cattle	5.3	5.6	6.2	5.7	5.5	5.9	5.1	5.7	5.7	5.4	4.5
Pigs	9.7	9.4	11.7	10.8	11.3	10.7	9.2	12.2	9.8	10.5	10.1
Equines	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0
Sheep and goats	1.8	1.8	1.6	1.4	1.7	1.7	1.0	1.5	1.4	1.8	2.1
Poultry	2.3	3.0	3.0	3.0	2.6	2.5	2.3	2.7	2.5	2.5	2.4
Other animals											0.0
Animal products	8.0	9.1	10.7	9.6	9.5	10.9	8.7	9.6	10.5	8.8	8.3
Milk	5.8	6.6	7.3	6.7	6.6	7.0	5.9	6.5	7.5	6.1	5.8
Eggs	1.8	2.1	2.9	2.4	2.6	2.9	2.3	2.7	2.3	2.2	2.1
Other animal products	0.3	0.4	0.4	0.5	0.3	1.0	0.4	0.5	0.7	0.5	0.5
Agricultural services	2.4	2.1	2.2	2.4	2.6	2.6	2.5	2.5	2.5	2.5	2.5



Description	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
						RSD million	<b>/</b>	1	1	1	
Agricultural output	412 979.6	469 685.0	430 501.4	611 096.6	616 463.0	544 084.6	581 180.5	520179.5	624318.9	612085.9	618220.8
Agricultural goods output	401 203.4	458 558.7	421 531.3	597 618.4	601 809.4	530 095.1	566 168.0	506950.6	608409.6	596516.1	602533.9
Crop production	261 832.3	328 426.3	263 565.1	430 448.5	426 840.6	333 546.9	404 404.2	346401.6	437607.6	408464.8	430995.6
Cereals	119 123.4	144 178.4	121 304.2	201 050.7	205 237.2	136 820.7	174 833.8	104734.0	174429.9	163825.3	168992.9
Industrial crops	36 048.7	42 955.4	35 052.2	70 087.1	60 248.7	44 755.3	62 032.9	52541.8	74856.3	63339.7	58330.8
Forage plants	15 897.3	16 133.1	13 532.5	19 158.2	19 897.7	21 143.1	20 669.8	20848.0	27824.6	34311.7	36160.5
Vegetables and horticultural products	28 782.4	42 038.3	23 553.5	34 306.9	23 301.7	33 015.4	37 127.1	38627.8	26081.6	24208.2	29542.3
Potato	9 895.6	17 608.9	11 565.8	13 171.3	18 627.3	12 850.9	14 560.4	12933.0	9820.3	10150.5	18333.7
Fruits	30 923.5	46 164.9	39 202.0	70 415.6	61 362.6	57 036.7	70 406.8	76021.1	83615.8	69793.8	74651.5
Wine	20 819.2	18 993.7	18 960.0	21 752.3	37 560.2	27 360.9	24 260.9	40219.9	40145.5	42339.2	44477.1
Olive oil	-	-	-	-	-	-	-	-	-	-	
Other crop products	342.3	353.4	395.0	506.3	605.2	563.9	512.6	475.9	833.6	496.6	506.8
Animal production	139 371.1	130 132.4	157 966.2	167 169.9	174 968.8	196 548.2	161 763.8	160549.1	170801.9	188051.3	171538.3
Animals	102 633.1	92 014.4	108 849.3	115 191.1	119 950.4	137 106.1	109 033.8	109297.1	116572.6	127137.5	118945.9
Cattle	26 958.0	26 938.9	29 706.7	30 321.4	29 718.4	36 165.9	27 529.9	34955.1	29122.9	41604.9	27487.4
Pigs	57 119.3	43 634.8	44 654.5	61 837.5	64 574.6	74 878.2	60 365.6	53146.8	63362.3	60570.2	65140.7
Equines	72.4	45.1	424.0	162.4	160.5	68.7	310.7	407.7	37.3	318.8	118.9
Sheep and goats	7 680.6	8 542.1	20 005.0	7 439.0	8 997.3	11 841.7	7 426.1	6320.6	7945.1	8276.8	10728.0
Poultry	10 802.8	12 853.5	14 059.2	15 430.8	16 499.6	14 151.5	13 401.4	14466.9	16105.1	16366.8	15470.8
Other animals											
Animal products	36 738.0	38 118.0	49 116.8	51 978.8	55 018.4	59 442.2	52 730.0	51252.0	54229.4	60913.8	52592.4
Milk	25 296.9	27 790.9	34 584.1	35 125.2	38 840.1	38 383.8	36 156.7	35556.8	35610.2	44597.2	37015.4
Eggs	10 272.8	8 741.3	12 299.7	14 097.7	14 435.7	16 412.3	13 911.8	13045.8	14822.7	13558.5	13047.5
Other animal products	1 168.2	1 585.9	2 233.0	2 755.9	1 742.5	4 646.1	2 661.5	2649.4	3796.4	2758.0	2529.4
Agricultural services	11 776.2	11 126.3	8 970.1	13 478.2	14 653.5	13 989.5	15 012.5	13228.9	15909.3	15569.8	15896.8

# Table 3. Agricultural output at previous year prices, Republic of Serbia



Table 3. Agricultura	I output at previous	year prices, Republic	of Serbia (continued)
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Description	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
				Volun	ne changes						
Agricultural output	1.3	0.6	- 17.2	21.6	9.0	- 6.9	8.7	-11.8	14.8	3.8	2.1
Agricultural goods output	1.3	0.6	- 17.2	21.6	9.0	- 6.9	8.7	-11.8	14.8	3.8	2.1
Crop production	- 1.2	- 0.2	- 26.6	32.7	12.7	- 14.6	14.9	-17.4	22.6	2.5	4.0
Cereals	7.9	- 1.7	- 30.8	45.3	17.5	- 23.5	25.3	-36.5	53.3	4.3	6.5
Industrial crops	17.3	- 3.7	- 24.9	32.7	17.0	- 17.7	27.9	-10.9	28.1	1.3	-7.6
Forage plants	9.0	- 8.3	- 21.2	2.5	19.7	- 10.7	17.8	-23.0	32.6	19.8	7.8
Vegetables and horticultural products	0.1	- 2.0	- 13.6	18.4	- 14.9	14.6	4.3	-4.8	-19.8	-7.2	-6.4
Potato	1.5	- 0.5	- 35.3	6.7	- 2.5	- 1.3	6.7	-6.9	-16.0	-23.2	55.3
Fruits	- 16.5	12.2	- 22.9	30.6	- 0.3	0.3	- 4.4	1.4	8.6	1.4	11.3
Wine	- 37.5	6.3	- 20.0	14.9	36.4	- 21.0	6.4	4.3	-4.7	1.8	-7.8
Olive oil	-	-	-	-	-	-	-				0.0
Other crop products	- 36.4	- 11.3	11.4	14.3	12.1	2.2	- 13.9	-11.0	55.0	-19.9	-4.8
Animal production	6.3	2.7	5.3	0.0	1.0	10.1	- 4.3	3.3	-1.2	6.7	-2.2
Animals	7.1	2.7	5.9	1.5	0.9	11.3	- 1.8	4.8	-3.2	11.0	-2.5
Cattle	1.1	8.6	2.2	- 3.4	- 8.3	12.6	- 13.2	15.2	-6.2	23.5	-15.2
Pigs	11.6	- 3.9	- 8.4	5.4	5.9	13.9	5.7	-2.1	-4.3	5.3	2.5
Equines	- 31.3	- 26.5	595.6	- 56.9	- 21.0	- 54.6	302.2	11.1	-90.3	788.5	-62.9
Sheep and goats	4.3	0.3	114.8	- 4.6	10.8	17.2	- 17.2	5.4	-5.6	-0.3	1.1
Poultry	2.7	18.6	- 9.7	1.1	- 4.0	- 5.6	1.8	8.8	11.5	9.1	2.8
Other animals											0.0
Animal products	4.2	2.6	4.0	- 3.2	1.2	7.3	- 9.1	0.2	3.6	-1.2	-1.7
Milk	- 0.7	3.1	1.1	- 4.5	2.2	- 0.2	- 3.1	1.5	0.6	0.8	-0.5
Eggs	18.8	1.5	13.8	- 4.0	7.8	9.6	- 10.3	-5.1	2.2	1.5	-3.8
Other animal products	2.8	- 1.8	0.3	23.6	- 40.7	136.4	- 48.9	12.8	54.0	-31.8	-7.3
Agricultural services	1.3	0.6	- 17.2	21.6	9.0	- 6.9	8.7	-11.8	14.8	3.8	3.8



# Table 4. Intermediate consumption of agriculture at current prices. Republic of Serbia

Internet         42 747.3         44 588.5         40 977.4         37 599.6         33 409.2         35 80.42         51 612.0         52 305.1         61 610.8         68 85.6         61 40.6           Fertilisers and soil improvers         25 277.1         30 650.4         33 714.6         43 436.5         45 673.8         40 436.3         38 609.1         34 264.8         23 597.4         29 098.4         30 400.0           Plant protection products         11 357.9         19 577.5         19 577.3         21 597.4         21 372.4         20 024.2         13 416.8         16 760.0         14 477.0         14 885.3           Veterinary expenses         11 115.0         11 302.4         12 151.6         12 962.0         13 610.1         13 407.7         14 029.2         10 048.9         11 92.6         14 478.9         14 679.7         14 88.9           Aintenance of materials         17 845.2         20 916.6         18 012.5         20 77.6         23 475.5         18 609.1         19 192.6         18 488.9         26 769.4         25 592.5         26 508.8           Maintenance of materials         17 85.2         20 916.4         18 012.5         27 77.6         5 986.3         6 32.1         5 695.3         5 987.1         6 000.5         6 78.9         6 78.9												
Intermediate consumption295 276.6322 39.3313 51.6355 55.0370 166.1344 055.9371 88.1361 09.2366 09.237 541.439 188.1Seeds and planting stock27226026 126.322 550.233 54.036 407.331 881.734 457.628 003.233 82.2.435 45.035 40.0Fergi; lubricants27 47.345 56.040 977.437 599.633 409.235 80.034 26.4.823 597.420 60.068 66.061 40.0Plant protection products11 35.719 57.519 57.521 59.7.21 59.7.921 37.420 07.4.221 04.0.714 07.9.210 4.8.8.114 67.0.314 47.014 88.8.1Feeding stuff101 04.511 13.0.212 15.1.612 90.7.912 97.9.311 95.9.612 97.7.311 64.9.210 4.8.8.116 98.0.212 68.0.113 0.0.414 07.914 87.9Mathenace of materials17 84.5.220 91.6.618 01.2.520 77.6.823 47.5.518 69.119 19.2.618 48.9.326 76.9.420 50.0.8Mathenace of buildings44 77.951 32.452 57.050 95.557 90.859 96.363 21.150 95.3.559 87.660 0.0.315 90.0.515 91.0.5Mathenace of buildings41 75.911 86.7.220 91.6.615 91.2.655 90.557 90.850 91.516 91.0.315 90.0.515 91.0.515 91.6.115 90.0.515 91.0.515 91.6.115 91.0.516 91.0.515 91.0.515 91.0.515 91.6	Description	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Seeds and planting stock         27 2260         26 1263         22 550.2         33 540         34 673.5         31 881.7         34 457.6         28 00.2         33 82.4         34 563.8         35 50.0           Energy, lubricants         42 747.3         44 588.5         40 977.4         37 599.6         33 409.2         58 04.2         51 612.0         52 30.5.1         61 610.8         68 86.6         65 140.4           Fertilisers and soli improves         25 277.1         30 650.4         33 714.6         43 436.5         45 67.8         40 43.6.3         38 60.01         34 264.8         23 597.4         20 90.8         14 870.0         14 805.3           Path protection products         11 357.9         19 597.5         12 957.0         12 97.9						I	RSD million					
Internet         42 747.3         44 588.5         40 977.4         37 599.6         33 409.2         35 80.42         51 612.0         52 305.1         61 610.8         68 85.6         61 40.6           Fertilisers and soil improvers         25 277.1         30 650.4         33 714.6         43 436.5         45 673.8         40 436.3         38 609.1         34 264.8         23 597.4         29 098.4         30 400.0           Plant protection products         11 357.9         19 577.5         19 577.3         21 597.4         21 372.4         20 024.2         13 416.8         16 760.0         14 477.0         14 885.3           Veterinary expenses         11 115.0         11 302.4         12 151.6         12 962.0         13 610.1         13 407.7         14 029.2         10 048.9         11 92.6         14 478.9         14 679.7         14 88.9           Aintenance of materials         17 845.2         20 916.6         18 012.5         20 77.6         23 475.5         18 609.1         19 192.6         18 488.9         26 769.4         25 592.5         26 508.8           Maintenance of materials         17 85.2         20 916.4         18 012.5         27 77.6         5 986.3         6 32.1         5 695.3         5 987.1         6 000.5         6 78.9         6 78.9	Intermediate consumption	295 276.6	322 353.7	313 514.6	355 550.2	370 166.1	344 055.9	371 854.1	336 109.2	366 069.2	377 541.4	399 918.8
Fertilisers and soil improvers       25 277.1       30 650.4       33 714.6       43 436.5       45 673.8       40 436.3       38 609.1       34 264.8       23 597.4       29 098.4       30 406.0         Plant protection products and pesticides       11 357.9       19 579.5       19 577.3       21 595.1       22 937.6       21 372.4       20 024.2       13 416.8       16 796.0       14 477.0       14 880.3         Veterinary expenses       11 115.0       11 302.4       12 151.6       12 962.0       13 610.1       13 401.7       14 02.2       10 48.9       11 92.7       11 476.0       14 388.1         Feeding stuff       10 10 24.5       11 1356.2       109 341.2       125 049.9       129 673.9       119 359.6       128 775.3       116 492.8       126 681.7       13 08.66       14 679.6       14 679.7         Maintenance of materials       17 845.2       20 916.6       18 012.5       507.05       5 790.8       5 996.3       6 322.1       5 695.3       5 987.1       6 00.7       6 79.7       6 79.7         Agricultural services       11 058.2       10 834.1       11 986.8       13 442.6       15 03.5       13 813.9       14 99.9       13 856.1       15 00.0       15 01.0       15 00.0       15 01.0       15 00.0       100.0	Seeds and planting stock	27 226.0	26 126.3	22 550.2	33 544.0	34 673.5	31 881.7	34 457.6	28 003.2	33 822.4	35 453.8	35 500.0
Plant protection products and pesticides         11 357.9         19 579.5         19 577.3         21 595.1         22 937.6         21 372.4         20 024.2         13 416.8         16 796.0         14 477.0         14 885.3           Veterinary expenses         11 1150         11 102.4         12 151.6         12 967.0         13 401.7         14 029.2         10 404.9         11 92.3         11 476.0         14 387.1           Feeding stuff         10 10 04.5         11 13 56.2         10 9 341.2         125 04.9         129 67.9         19 192.6         18 488.9         26 76.9         22 550.2         26 50.8           Maintenance of materials         17 845.2         20 916.6         18 012.5         20 776.8         23 475.5         18 60.9         19 192.6         18 488.9         26 76.9         22 552.2         26 50.8           Maintenance of materials         17 845.2         10 91.6         18 489.5         26 76.9         3 80.7         6 302.5         5 97.8         5 99.6         6 322.5         5 898.7         6 32.5         5 898.7         6 382.0         4 3 53.7         4 8 69.7         6 69.7         6 69.7         6 69.7         6 69.7         6 38.0         4 3 50.7         6 38.0         4 3 50.7         6 30.6         6 3 8.0         7 8 69.6	Energy; lubricants	42 747.3	44 588.5	40 977.4	37 599.6	33 409.2	35 804.2	51 612.0	52 305.1	61 610.8	68 856.6	65 140.4
and pesticides11 35/919 5/9.519 5/9.521 395.122 397.621 32.420 024.213 41.6816 96.014 47/.018 85.3Veterinary expenses11 115.011 302.412 151.612 962.013 610.113 401.714 02.910 048.911 923.711 47/.014 88.1Feeding stuff101 024.5111 356.2109 341.2125 049.9129 673.9119 359.6128 775.3116 492.8126 881.7130 818.6146 579.7Maintenance of materials17 845.220 916.618 012.520 776.823 475.518 609.119 192.618 488.926 769.422 532.226 550.8Maintenance of buildings4 477.95 132.45 257.05 509.55 790.85 996.36 322.15 695.35 987.16 007.26 749.1Agricultural services110 58.210 834.111 986.813 442.615 023.513 813.914 999.913 856.115 000.515 313.015 997.6Other goods and services43 147.541 867.239 946.041 63.445 898.243 380.643 832.043 537.243 680.343 508.643 801.7Intermediate consumption100.0	Fertilisers and soil improvers	25 277.1	30 650.4	33 714.6	43 436.5	45 673.8	40 436.3	38 609.1	34 264.8	23 597.4	29 098.4	30 406.0
Feeding stuff101 024.5111 356.2109 341.2125 049.9129 67.9119 359.6128 775.3116 492.8126 881.7130 818.6146 77.7Maintenance of materials17 845.220 916.618 012.520 776.823 475.518 609.119 192.618 488.926 76.922 532.226 550.8Maintenance of buildings4 477.95 132.45 257.05 595.55 790.85 996.36 322.15 695.35 987.16 007.26 749.1Agricultural services110 58.210 834.111 986.813 442.615 023.513 813.914 999.913 856.115 000.515 313.015 997.6Other goods and services43 147.541 867.239 946.041 634.445 898.243 380.643 832.043 537.243 680.343 508.640 50.640.0 <t< th=""><th>• •</th><td>11 357.9</td><td>19 579.5</td><td>19 577.3</td><td>21 595.1</td><td>22 937.6</td><td>21 372.4</td><td>20 024.2</td><td>13 416.8</td><td>16 796.0</td><td>14 477.0</td><td>14 805.3</td></t<>	• •	11 357.9	19 579.5	19 577.3	21 595.1	22 937.6	21 372.4	20 024.2	13 416.8	16 796.0	14 477.0	14 805.3
Maintenance of materials       17 845.2       20 916.6       18 012.5       20 776.8       23 475.5       18 609.1       19 192.6       18 48.9       26 769.4       22 532.2       26 550.8         Maintenance of buildings       4 477.9       5 132.4       5 257.0       5 509.5       5 790.8       5 993.3       6 322.1       5 695.3       5 987.1       6 070.2       6 749.1         Agricultural services       11 058.2       10 834.1       11 986.8       13 442.6       15 023.5       13 813.9       14 999.9       13 856.1       15 000.5       15 313.0       15 997.6         Other goods and services       43 147.5       41 867.2       39 94.0       41 634.4       45 898.2       43 380.6       43 832.0       43 587.2       43 680.3       43 508.6       43 801.7         Intermediate consumption       100.0<	Veterinary expenses	11 115.0	11 302.4	12 151.6	12 962.0	13 610.1	13 401.7	14 029.2	10 048.9	11 923.7	11 476.0	14 388.1
Maintenance of buildings       4 477.9       5 132.4       5 257.0       5 509.5       5 790.8       5 996.3       6 322.1       5 695.3       5 987.1       6 007.2       6 749.1         Agricultural services       11 058.2       10 834.1       11 986.8       13 442.6       15 023.5       13 813.9       14 999.9       13 856.1       15 000.5       15 31.0       15 997.6         Other goods and services       43 147.5       41 867.2       39 946.0       41 634.4       45 898.2       43 380.6       43 832.0       43 503.1       43 680.3       43 508.6       43 801.7         Intermediate consumption       100.0	Feeding stuff	101 024.5	111 356.2	109 341.2	125 049.9	129 673.9	119 359.6	128 775.3	116 492.8	126 881.7	130 818.6	146 579.7
Agricultural services       11 058.2       10 834.1       11 986.8       13 442.6       15 023.5       13 813.9       14 999.9       13 856.1       15 000.5       15 313.0       15 997.6         Other goods and services       43 147.5       41 867.2       39 946.0       41 634.4       45 898.2       43 830.6       43 832.0       43 537.2       43 680.3       43 508.6       43 801.7         Intermediate consumption       100.0 <th>Maintenance of materials</th> <td>17 845.2</td> <td>20 916.6</td> <td>18 012.5</td> <td>20 776.8</td> <td>23 475.5</td> <td>18 609.1</td> <td>19 192.6</td> <td>18 488.9</td> <td>26 769.4</td> <td>22 532.2</td> <td>26 550.8</td>	Maintenance of materials	17 845.2	20 916.6	18 012.5	20 776.8	23 475.5	18 609.1	19 192.6	18 488.9	26 769.4	22 532.2	26 550.8
Other goods and services       43 147.5       41 867.2       39 946.0       41 634.4       45 898.2       43 380.6       43 832.0       43 537.2       43 680.3       43 508.6       43 801.7         Structure (%)         Intermediate consumption       100.0	Maintenance of buildings	4 477.9	5 132.4	5 257.0	5 509.5	5 790.8	5 996.3	6 322.1	5 695.3	5 987.1	6 007.2	6 749.1
Structure (%)           Intermediate consumption         100.0	Agricultural services	11 058.2	10 834.1	11 986.8	13 442.6	15 023.5	13 813.9	14 999.9	13 856.1	15 000.5	15 313.0	15 997.6
Intermediate consumption100.0 <th>Other goods and services</th> <td>43 147.5</td> <td>41 867.2</td> <td>39 946.0</td> <td>41 634.4</td> <td>45 898.2</td> <td>43 380.6</td> <td>43 832.0</td> <td>43 537.2</td> <td>43 680.3</td> <td>43 508.6</td> <td>43 801.7</td>	Other goods and services	43 147.5	41 867.2	39 946.0	41 634.4	45 898.2	43 380.6	43 832.0	43 537.2	43 680.3	43 508.6	43 801.7
Seeds and planting stock       9.2       8.1       7.2       9.4       9.4       9.3       9.3       8.3       9.2       9.4       8.9         Energy; lubricants       14.5       13.8       13.1       10.6       9.0       10.4       13.9       15.6       16.8       18.2       16.3         Fertilisers and soil improvers       8.6       9.5       10.8       12.2       12.3       11.8       10.4       10.2       6.4       7.7       7.6         Plant protection products and pesticides       3.8       6.1       6.2       6.1       6.2       6.2       5.4       4.0       4.6       3.8       3.7         Veterinary expenses       3.8       3.5       3.9       3.6       3.7       3.9       3.8       3.0       3.3       3.0       3.6         Feeding stuff       34.2       34.5       34.9       35.2       35.0       34.7       34.6       34.7       34.7       34.7         Maintenance of materials       6.0       6.5       5.7       5.8       6.3       5.4       5.2       5.5       7.3       6.0       6.6         Maintenance of buildings       1.5       1.6       1.7       1.7       1.7       <						S	tructure (%	)				
Energy; lubricants       14.5       13.8       13.1       10.6       9.0       10.4       13.9       15.6       16.8       18.2       16.3         Fertilisers and soil improvers       8.6       9.5       10.8       12.2       12.3       11.8       10.4       10.2       6.4       7.7       7.6         Plant protection products and pesticides       3.8       6.1       6.2       6.1       6.2       6.2       5.4       4.0       4.6       3.8       3.7         Veterinary expenses       3.8       3.5       3.9       3.6       3.7       3.9       3.8       3.0       3.3       3.0       3.6         Feeding stuff       34.2       34.5       34.9       35.2       35.0       34.7       34.6       34.7       34.7       34.7       36.7         Maintenance of materials       6.0       6.5       5.7       5.8       6.3       5.4       5.2       5.5       7.3       6.0       6.6       6.7         Maintenance of buildings       1.5       1.6       1.7       1.7       1.7       1.6       1.6       1.7         Agricultural services       3.7       3.4       3.8       3.8       3.1       4.0 <th< th=""><th>Intermediate consumption</th><th>100.0</th><th>100.0</th><th>100.0</th><th>100.0</th><th>100.0</th><th>100.0</th><th>100.0</th><th>100.0</th><th>100.0</th><th>100.0</th><th>100.0</th></th<>	Intermediate consumption	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Fertilisers and soil improvers       8.6       9.5       10.8       12.2       12.3       11.8       10.4       10.2       6.4       7.7       7.6         Plant protection products and pesticides       3.8       6.1       6.2       6.1       6.2       6.2       5.4       4.0       4.6       3.8       3.7         Veterinary expenses       3.8       3.5       3.9       3.6       3.7       3.9       3.8       3.0       3.3       3.0       3.6         Feeding stuff       34.2       34.5       34.9       35.2       35.0       34.7       34.6       34.7       34.7       34.7       36.7         Maintenance of materials       6.0       6.5       5.7       5.8       6.3       5.4       5.2       5.5       7.3       6.0       6.6         Maintenance of buildings       1.5       1.6       1.7       1.7       1.7       1.6       1.6       1.7         Agricultural services       3.7       3.4       3.8       3.8       4.1       4.0       4.0       4.1       4.1       4.1       4.0	Seeds and planting stock	9.2	8.1	7.2	9.4	9.4	9.3	9.3	8.3	9.2	9.4	8.9
Plant protection products and pesticides       3.8       6.1       6.2       6.1       6.2       6.2       5.4       4.0       4.6       3.8       3.7         Veterinary expenses       3.8       3.5       3.9       3.6       3.7       3.9       3.8       3.0       3.3       3.0       3.6         Feeding stuff       34.2       34.5       34.9       35.2       35.0       34.7       34.6       34.7       34.7       34.7       36.7         Maintenance of materials       6.0       6.5       5.7       5.8       6.3       5.4       5.2       5.5       7.3       6.0       6.6         Maintenance of buildings       1.5       1.6       1.7       1.7       1.7       1.6       1.6       1.7         Agricultural services       3.7       3.4       3.8       3.8       4.1       4.0       4.0       4.1       4.1       4.1       4.0	Energy; lubricants	14.5	13.8	13.1	10.6	9.0	10.4	13.9	15.6	16.8	18.2	16.3
and pesticides       3.8       6.1       6.2       6.1       6.2       5.4       4.0       4.6       3.8       3.7         Veterinary expenses       3.8       3.5       3.9       3.6       3.7       3.9       3.8       3.0       3.3       3.0       3.6         Feeding stuff       34.2       34.5       34.9       35.2       35.0       34.7       34.6       34.7       34.7       34.7       36.7         Maintenance of materials       6.0       6.5       5.7       5.8       6.3       5.4       5.2       5.5       7.3       6.0       6.6         Maintenance of buildings       1.5       1.6       1.7       1.5       1.6       1.7       1.7       1.6       1.6       1.7         Agricultural services       3.7       3.4       3.8       3.8       4.1       4.0       4.0       4.1       4.1       4.1       4.0	Fertilisers and soil improvers	8.6	9.5	10.8	12.2	12.3	11.8	10.4	10.2	6.4	7.7	7.6
Feeding stuff       34.2       34.5       34.9       35.2       35.0       34.7       34.6       34.7       34.7       34.7       36.7         Maintenance of materials       6.0       6.5       5.7       5.8       6.3       5.4       5.2       5.5       7.3       6.0       6.6         Maintenance of buildings       1.5       1.6       1.7       1.5       1.6       1.7       1.7       1.6       1.6       1.7         Agricultural services       3.7       3.4       3.8       3.8       4.1       4.0       4.0       4.1       4.1       4.0		3.8	6.1	6.2	6.1	6.2	6.2	5.4	4.0	4.6	3.8	3.7
Maintenance of materials       6.0       6.5       5.7       5.8       6.3       5.4       5.2       5.5       7.3       6.0       6.6         Maintenance of buildings       1.5       1.6       1.7       1.5       1.6       1.7       1.7       1.6       1.6       1.7         Agricultural services       3.7       3.4       3.8       3.8       4.1       4.0       4.0       4.1       4.1       4.1       4.0	Veterinary expenses	3.8	3.5	3.9	3.6	3.7	3.9	3.8	3.0	3.3	3.0	3.6
Maintenance of buildings         1.5         1.6         1.7         1.5         1.6         1.7         1.7         1.7         1.6         1.6         1.7           Agricultural services         3.7         3.4         3.8         3.8         4.1         4.0         4.0         4.1         4.1         4.1         4.0	Feeding stuff	34.2	34.5	34.9	35.2	35.0	34.7	34.6	34.7	34.7	34.7	36.7
Agricultural services         3.7         3.4         3.8         3.8         4.1         4.0         4.0         4.1         4.1         4.0	Maintenance of materials	6.0	6.5	5.7	5.8	6.3	5.4	5.2	5.5	7.3	6.0	6.6
	Maintenance of buildings	1.5	1.6	1.7	1.5	1.6	1.7	1.7	1.7	1.6	1.6	1.7
Other goods and services         14.6         13.0         12.7         11.7         12.4         12.6         11.8         13.0         11.9         11.5         11.0	Agricultural services	3.7	3.4	3.8	3.8	4.1	4.0	4.0	4.1	4.1	4.1	4.0
	Other goods and services	14.6	13.0	12.7	11.7	12.4	12.6	11.8	13.0	11.9	11.5	11.0



# Table 5. Intermediate consumption of agriculture at constant prices of the previous year. Republic of Serbia

Description	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
						RSD million					
Intermediate consumption	273 521.4	292 761.9	295 736.0	343 301.2	385 035.9	345 109.9	376 068.9	323 429.4	366 352.8	392 755.7	386 817.1
Seeds and planting stock	21 153.2	23 077.8	26 460.7	31 271.1	37 594.2	32 229.4	33 162.9	19 319.7	32 135.3	44 378.0	37 368.4
Energy; lubricants	41 827.6	42 852.6	36 028.3	36 877.7	32 710.6	37 733.3	52 719.1	47 932.3	59 292.4	68 708.1	67 854.6
Fertilisers and soil improvers	22 715.6	25 319.6	29 390.2	48 688.0	50 314.9	37 530.0	42 149.7	36 606.3	23 606.8	27 293.7	30 390.8
Plant protection products and pesticides	8 931.4	11 377.0	19 154.1	19 117.1	21 926.3	20 067.3	19 865.3	13 572.5	18 428.8	15 235.6	14 790.6
Veterinary expenses	10 677.2	11 262.9	10 863.1	12 864.4	13 033.7	13 683.9	13 644.8	10 285.5	11 113.7	11 709.2	14 373.7
Feeding stuff	92 910.0	102 369.2	107 028.0	118 375.1	141 075.9	126 134.5	133 445.9	116 161.7	126 112.4	138 800.1	130 525.1
Maintenance of materials	16 963.0	18 854.1	16 487.9	20 019.4	23 673.6	17 816.0	18 151.7	17 882.6	30 211.9	21 837.9	25 732.6
Maintenance of buildings	4 200.4	4 436.1	4 479.1	4 475.4	5 376.3	5 872.0	6 600.8	5 511.9	5 969.6	5 956.9	6 539.4
Agricultural services	11 776.2	11 126.3	8 970.1	13 478.2	14 653.5	13 989.5	15 012.5	13 228.9	15 909.3	15 569.8	15 683.9
Other goods and services	42 366.8	42 086.2	36 874.4	38 134.8	44 676.9	40 054.0	41 316.2	42 927.9	43 572.5	43 266.4	43 557.9
					Vo	lume chang	es				
Intermediate consumption	6.0	-0.9	-8.3	9.5	8.3	-6.8	9.3	-13.0	9.0	7.3	2.5
Seeds and planting stock	9.1	-15.2	1.3	38.7	12.1	-7.0	4.0	-43.9	14.8	31.2	5.4
Energy; lubricants	31.5	0.2	-19.2	-10.0	-13.0	12.9	47.2	-7.1	13.4	11.5	-1.5
Fertilisers and soil improvers	1.0	0.2	-4.1	44.4	15.8	-17.8	4.2	-5.2	-31.1	15.7	4.4
Plant protection products and pesticides	1.0	0.2	-2.2	-2.4	1.5	-12.5	-7.1	-32.2	37.4	-9.3	2.2
Veterinary expenses	1.0	1.3	-3.9	5.9	0.6	0.5	1.8	-26.7	10.6	-1.8	25.2
Feeding stuff	1.0	1.3	-3.9	8.3	12.8	-2.7	11.8	-9.8	8.3	9.4	-0.2
Maintenance of materials	1.8	5.7	-21.2	11.1	13.9	-24.1	-2.5	-6.8	63.4	-18.4	14.2
Maintenance of buildings	7.3	-0.9	-12.7	-14.9	-2.4	1.4	10.1	-12.8	4.8	-0.5	8.9
Agricultural services	1.3	0.6	-17.2	12.4	9.0	-6.9	8.7	-11.8	14.8	3.8	2.4
Other goods and services	3.7	-2.5	-11.9	-4.5	7.3	-12.7	-4.8	-2.1	0.1	-0.9	0.1



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