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Statistical research of development of integration processes in Russian agriculture

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**THE MINISTRY OF AGRICULTURE OF THE RUSSIAN
FEDERATION
FEDERAL STATE BUDGETARY EDUCATIONAL INSTITUTION OF
HIGHER EDUCATION**

**Russian State Agrarian University - Timiryazev Moscow Agricultural Academy
(RSAU – MAA named after K.A. Timiryazev)**

**The Department of Economics and Finance
Department of statistics and econometrics**

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**«Statistical research of development of integration processes in
Russian agriculture»**

**Abstracts of the poster presentation at the International Conference on Agricultural
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«Statistical research of development of integration processes in Russian agriculture»

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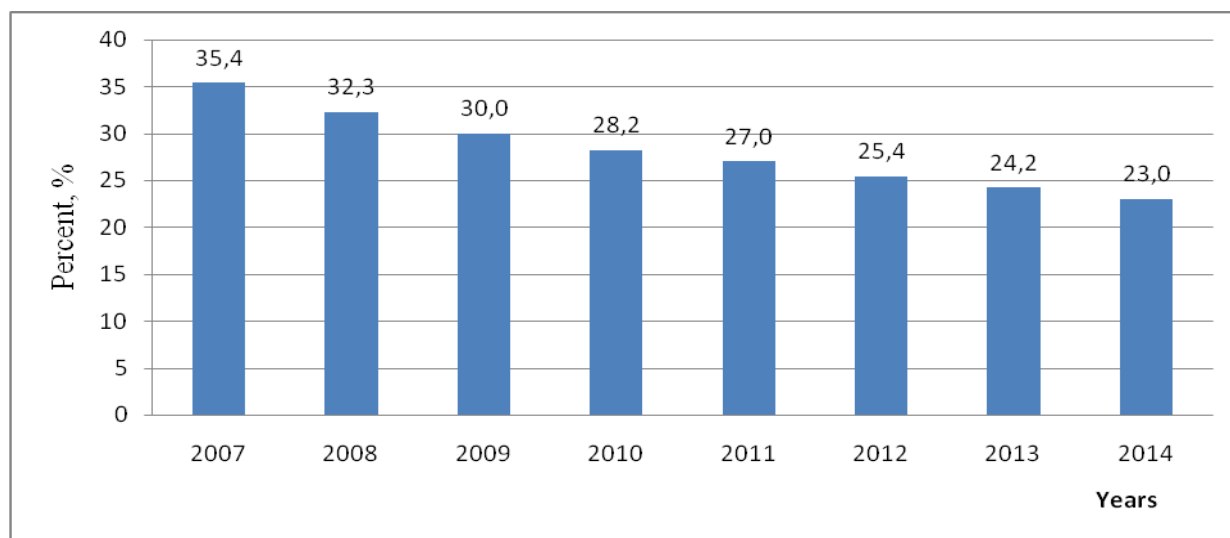
By the integration processes, we mean the development of cooperation, agricultural holdings and agrarian clusters. Cooperation in Russia has a rich history in the early 20th century in our country was developed one of the strongest cooperative movements in the world. Currently, agricultural cooperation in Russia is poorly developed.

Table 1. Dynamics of number of agricultural cooperatives and consumer societies in the rural areas

Form of cooperation	On January 1, thousand units		Percent, %
	2013	2014	
Agricultural cooperatives: production	12,2	9,0	73,8
consumer	7,4	7,0	95,3
including credit	1,88	1,85	98,8
The organizations of consumer cooperation	3,1	3,1	100,0

Dynamics of development of all types of societies is negative, including industrial cooperation.

Figure 1. Dynamics of specific weight of agricultural cooperatives in the total number of agricultural organizations, %



Russia is in the process of consolidation of agricultural production through the development of agricultural holdings.

Figure 2. The average area of arable land per agricultural organization, thousand hectares

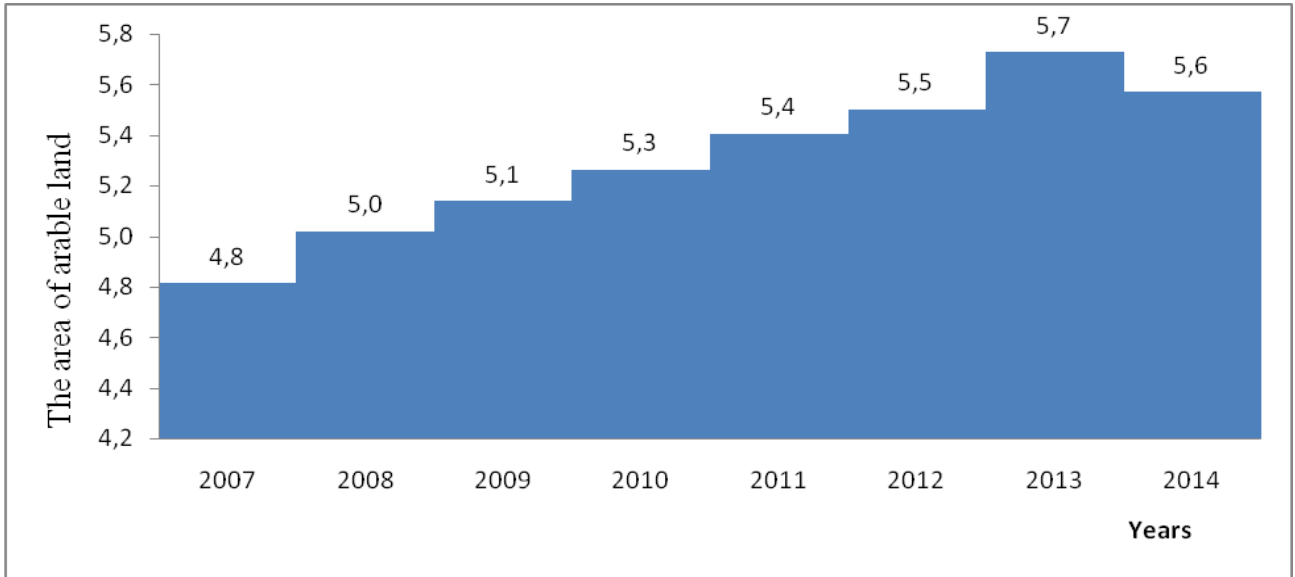
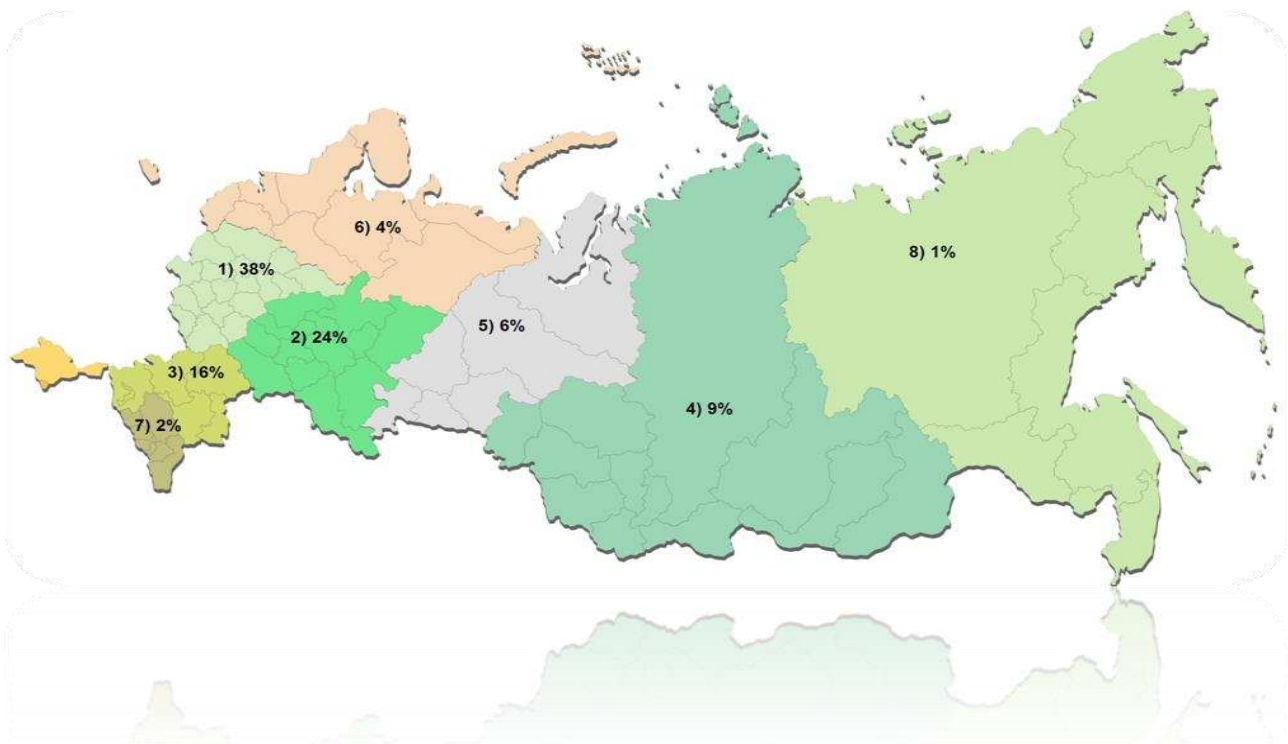


Figure 3. Distribution of agricultural holdings by Federal districts of Russia in 2014



Federal district of Russia:

1. Central
2. Privolzhsky
3. Southern (including the Crimea)
4. Siberian
5. Ural
6. The North-West
7. The North Caucasus
8. Dalnevostochny

Agroholdings in Russia are a large, vertically integrated structures. The typical structure of Russian agricultural holding can be represented as follows.

Figure 4. The typical structure of the agricultural holding in Russia.

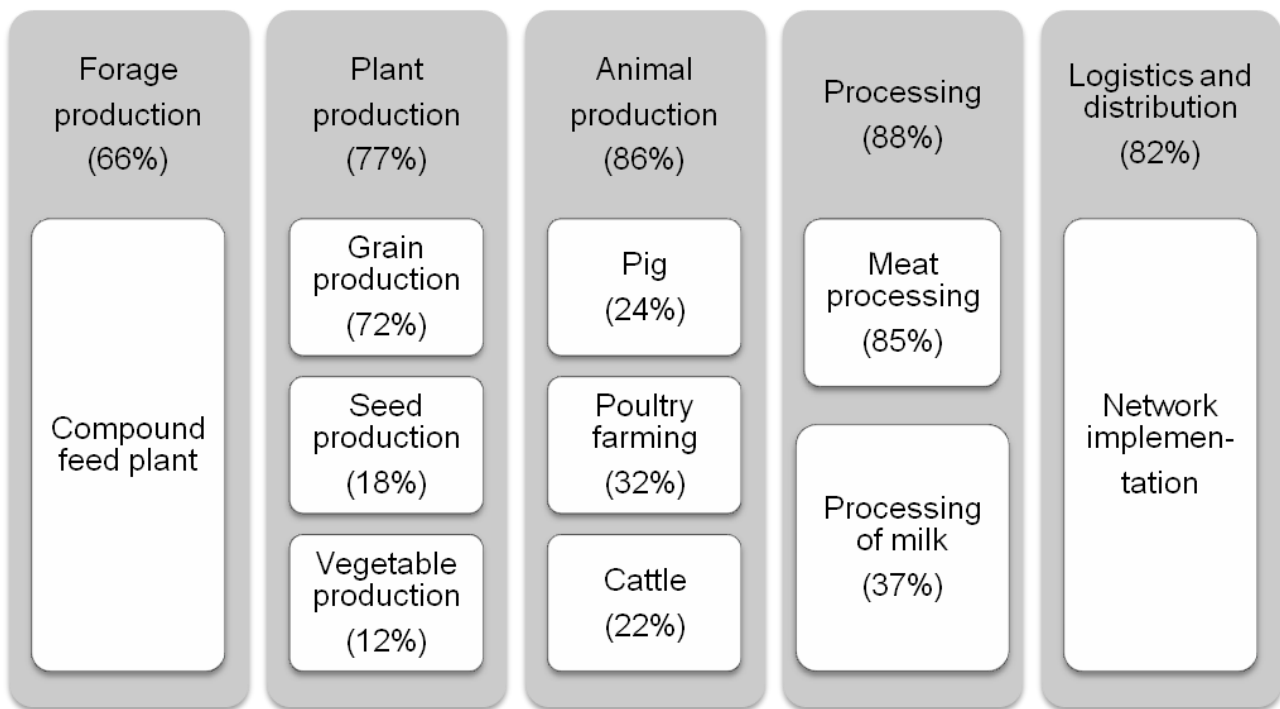


Table 2. Resources and production results agricultural holdings of Russia in 2014

Name of the indicator	Agricultural holdings	In Russia on average	Percent, %
Agricultural land, million hectares	19,8	191,1	10,4
Average number of people employed, million persons.	1,8	67,9	2,7
The gross grain harvest, million tons	14,0	92,4	15,2
Livestock, million goal:			
cattle	1,0	19,5	5,1
pigs	12,0	19,2	62,5
chicken	222,0	394,4	56,3
Production, million tons:			
poultry meat	3,2	5,1	62,7
pork	1,7	2,8	60,7
milk	5,0	30,5	16,4
feed	15,0	20,0	75,0
Production of eggs, billion pieces	5,0	41,3	12,1

The most competitive form of integration are agrarian clusters, the development of which is possible only on the basis of expanded reproduction of agricultural economics (regions of high group).

Table 3. The conditions of formation of agrarian clusters in agriculture of regions in Russia (2014)*

Name of the indicator	Group of regions			On average
	Lower	Average	Higher	
The number of regions	23	35	20	78
Per 1000 population:				
- the area under agricultural crops, hectares	229	570	929	562
- production of livestock and poultry for slaughter, tons	29	61	158	76
- milk production, tons	140	241	341	237
- the average number of regularly employed in agriculture, persons	49	62	83	64
- agricultural products, million rubles	19	30	57	34
The share of crops in arable land area, %	55,9	58,0	76,8	62,2
The number of tractors per 1000 hectares of arable land, units	4,9	2,4	3,0	3,3
The degree of security of the region's population with food, %	75	114	182	120
Specific weight, %:				
- agriculture in the economy of the region	6,9	11,1	13,8	10,6
- agriculture in fixed capital investment	1,2	4,7	14,7	6,3

*-by region shows the average values

Table 4. Agrocluster the development of the economy in the regions of Russia in 2014

Name of the indicator	Group of regions			On average
	Lower	Average	Higher	
The number of organizations in the region, units:				
- agricultural	95	296	400	263
- producing foods	13	35	51	32
The population with higher education per 1000 persons, persons	154	167	166	163
The density of public roads with hard surface, km/1000 km ²	76	253	344	224
Population density, persons/km ²	13	34	41	29
The proportion of profitable entities, %	76	75	85	78
Development, %:				
- integration processes	57	64	74	65
- information potential	89	88	90	89

Directions of improvement of statistical study of integration processes in economy of Russian agriculture:

A) Improvement of statistics of agricultural sector. B) Development of current statistics and analysis. C) Improvement of sample surveys of the activities of peasant (farmer) farms and individual entrepreneurs. D) The Extension program of the agricultural census. E) Organization of special and continuous sample surveys of the activities of agricultural holdings and agro-clusters.

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