

## THE STRATEGY OF ANIMAL INDUSTRY DEVELOPMENT IN MARY EL

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**Key words:** animal industry, agricultural economy, Republic of Mary El, Volga Federal district, development strategy, the program of rural economy, raw materials and production.

The article deals with stock-raising development dynamics in Mary El. The article concludes that despite of current positive trends the animal industry sub-branch of regional agriculture is in need of raising its efficiency, expanding the scale of key products manufacture. It is planned to form special areas (or zones) for stock-raising activization in the Republic. These areas viewed as promising perspectives of growth are going to be the site for a series of investment projects. By 2012 the growth of stock-raising produce in farms of all categories is to be 122% against level of 2007.

Last years Russian economy is characterized by stable growth, and nowadays it is possible the formulation of new strategic tasks of development of economy in long-term and average-term perspective. For achievement of these tasks it is necessarily to define the strategies of development of all complexes and branches of national economy, joined in single system. Serious tasks formulated in agrarian economy, provided grocery safety of country, including in animal industry. Last years there are realized many science investigations for the problems of development of animal industry sub-branch (for example, in "Vestnik of Samara State University of Economics" was published articles of V.V. Kuznetcova<sup>1</sup>, N.T. Rafikova, R.R. Bakirova<sup>2</sup> etc.)

In project of Conception of long-term social-economic development of Russian Federation in 2008-2020 years<sup>3</sup> among main aims of state agrarian politics in long-term perspective is called the providing of consumptions of population by agricultural products and provision by national production, effective import-substitution on the market of stock-raising products. There is planned to increase the growth of production of foodstuffs to 2020 in 2,2 time in compare with 2006.

It is planned to reach growth of manufacture of products of a feed by 2020 in 2,2 times in comparison with 2006. Russia can leave on a level per capita of consumption of meat appropriate to recommended rational norm by 2020. It is planned the growth of manufacture of meat in 2 times, decrease of a share of import of meat resources from 38 % in 2006 to 8,8 % in 2020.

The state program of development of an agriculture and regulation of the markets of agricultural production, raw material and foodstuffs on 2008-2012 years includes animal industry in number of priority branches of agriculture, and its accelerated development defines as one of the basic directions.

The target indicators of realization of the program in a part cattle-breeding sub-branch of agriculture are submitted in table 1.

Each subject of the Russian Federation can and must bring the contribution to achievement of the purposes of development of animal industries of the country, in which territory is given the economic activity of the enterprises of this sub-branch of agriculture, including Republic Mary El (RME), located in Privolgskiy Federal District (PFD).

It is necessary to note that in economy of republic the agriculture as a whole have significant role. Its condition and level of development in many respects define a social-economic situation in region. There are it is necessary about 15 % on a share of an agriculture in BPP of republic, about 37 % of the population of region lives at a countryside. The share of an agriculture in the all-Russian manufacture of agricultural production is about 1 %, at a share RME in a total product of Russian Federation about 0,2 %.

There are used electronic resources of a Federal service of state statistics<sup>4</sup> and Ministries of agriculture of the Russian Federation<sup>5</sup> for realization of the analysis of development of animal industries of republic.

In Republic Mary El total number of large horned cattle on January 1, 2008 has 144,6 thousand heads, including cows 63,5 thousand heads, total number of pigs for the same date - 126,6 thousand heads (table 2).

There was observed a decrease of total number of cattle in republic during 2000 years, the tendency to growth of this parameter was planned in 2006-2007 years.

The basic branch of animal industries RME is the cattle breeding with prevalence of a milk-meat direction is advanced also pig farming (except for Zvenigovskiy, Novotorjalskiy, Orshanskiy and Sernurskiy of municipal districts). Volgskiy, Gornomar-

\* Elena V. Rodionova, Candidate of Economic Science, Associate Professor of Mariyskiy State Technical University, Yoshkar-Ola.

The table 1

Target indicators of animal industry of Russian Federation

Parameters	Units of measure	Years				
		2008	2009	2010	2011	2012
1. Index of production of animal industries in economy of all categories	% by the previous year	104,8	105,1	105,1	105,0	105,1
2. Share of the Russian manufacture in formation of resources:						
Meat and meat products	%	61,1	63,5	65,7	68,1	69,6
Milk and milk products	%	78,3	79,2	79,9	80,4	81,1
3. Manufacture of cattle and bird (in alive weight)	тыс. т	8950	9520	10100	10750	11400
4. Manufacture of milk	тыс. т	33 000	34 000	35 000	36 000	37 000
5. Gain of realization of breeding	% by the previous year	15,2	15,4	15,0	15,0	15,0
6. Specific gravity of breeding cattle in general (common)	%	8,3	9,2	10,1	12	13,1
7. Level of disease of gypodermatosis of animal	%	25,5	15,0	-	-	-

The table 2

Heads of cattle in economies of all categories, on the end of year, thousand heads

Kind of cattle	Years							
	2000	2001	2002	2003	2004	2005	2006	2007
1. Large horned cattle	194,0	192,0	186,9	165,7	158,2	147,4	143,3	144,6
2. Sheep and goats	68,7	66,6	65,5	62,0	65,9	59,6	66,4	77,7
3. Pigs	113,7	107,6	106,8	92,7	94,3	99,7	120,7	126,6

iyskiy, Sovetskiy and Volgskiy municipal districts specialize on the poultry farming.

Dynamics of volumes of manufacture of cattle-breeding production in republic in comparison with parameters for Privolgskiy federal district and Russian Federation as a whole is given in table 3.

The temps of growth of output of animal industries in republic in 2000, 2003 and 2005 were lower in comparison with parameters in the average for Russia and Privolgskiy Federal District, in 2001 - in comparison with a level for Privolgskiy Federal District. In 2002, 2004 and last two years of the analyzed period the growth of manufacture of cattle-breeding production in region was by higher temps than in the average for a district and for the country.

The volumes of manufacture in republic of the basic kinds of production of animal industries in natural expression are submitted in table 4.

Dynamics of manufacture of the basic kinds of production of animal industries in republic is characterized by the unstable tendencies. It is negatively possible to estimate a decrease in 2007 of volumes of manufacture of milk and eggs.

The efficiency of conducting animal industries in region in comparison with the average data for Privolgskiy Federal District and Russian Federation is characterized by parameters given in table 5.

The above mentioned parameters testify that, despite of the available positive tendencies of development cattle-breeding sub-branch of an agriculture of republic, it is necessary to raise the efficiency and to expand scales of production of the basic kinds of products on the basis of creation of new technological base, using of the modern equipment for modernization of cattle-breeding farms, growth of genetic potential of efficiency of branch, for the accelerated creation of the appropriate fodder base.

Nowadays in republic is developed and authorized the Strategy of long-term social-economic development of Republic Mary El on 2008-2025 years\_, in which as one of the basic directions of development of region is a formation of zones of activation of agro-industrial activity. In animal industries priority directions of development are production of meat and milk (including goat), poultry farming.

The table 3

**Dynamics of volume of production of animal industries, % by the previous year**

Region	Years							
	2000	2001	2002	2003	2004	2005	2006	2007
Republic Mary El	89,1	105,1	103,9	96,3	98,7	98,1	108,9	105,3
Privolgskiy Federal District	98,2	105,4	102,0	101,0	97,5	100,1	105,2	103,6
Russian Federation	100,8	103,5	103,2	99,4	97,6	100,2	105,4	104,8

The table 4

**Production of basic kinds of products**

Parameter	Years							
	2000	2001	2002	2003	2004	2005	2006	2007
1. Manufacture of cattle and bird on slaughter (in slaughter weight), thousand of ton	40,3	40,3	42,0	42,8	40,1	39,4	42,7	47,1
2. Manufacture of milk, thousand of ton	253,6	251,2	272,4	262,6	253,6	251,5	260,9	257,1
3. Manufacture of eggs, thousand of ton	230,9	253,5	270,8	279,7	265,4	270,4	303,8	291,9

The table 5

**Efficiency of animal industries (in agricultural organizations)**

Показатель	Years								
	2004			2005			2006		
	RME	PFD	RF	RME	PFD	RF	RME	PFD	RF
1. Daily average increasing of weight of large horned cattle on cultivation, feed and walking, gram	444	408	387	441	430	414	493	459	437
2. Daily average increasing of weight of pigs on cultivation and feed, gram	254	285	272	313	325	310	343	347	328
3. Getting of milk per one cow, kilogram	3120	2927	3065	3501	3153	3280	3816	3461	3564
4. Daily average increasing of weight of pigs on cultivation and feed, gram	295	293	292	301	303	301	296	305	302

Where RME - Republic Mary El, PFD - Privolgskiy Federal District, RF - Russian Federation.

With the purposes of activization of development of an agriculture of republic in its territory it is offered to generate zones of activization of agro-industrial activity, in which will be increased resource potential, will be introduced innovation technology, will be developed infrastructure. As zones of activization of agro-industrial activity it is expedient to use 9 of 14 municipal districts Republic Mary El. The zones of activization of agro-industrial activity, which will specialize on animal industries, are submitted in table 6.

As perspective points of growth for territory of these zones is planned to carry out a few investment projects for reconstruction and modernization poultry farming complexes (poultry farm "Solnechnaya", cost of the project 880 billion of rubles; poultry farm "Akashevskaya", cost of the project 850 billion of rubles;), construction of pig farm

(factory "Shoybulakskiy", cost of the project 361,6 billion of rubles;) and other objects.

The republic actively realizes the national project "Development of agro industrial complex", as one of which priority directions is provided an accelerated development of animal industries. The breeding facilities of republic are capable to realize annually 455 heads of breeding large horned cattle and 200 heads of pigs, that does not satisfy demand on breeding animals, therefore purchase of breeding cattle will be carried out outside republic also, including abroad. As a whole it is planned to buy about 1000 heads of high reproductive large horned cattle, 500 heads of pigs for selection of available herd.

The Republican target program "Development of an agriculture and regulation of the markets of agricultural production, raw material and foodstuffs

The table 6

Zones of activation of animal industries

Specialization	The name of district	Volume of manufacture
1. Realization of cattle and bird on slaughter, thousand ton	Medvedevskiy	18,2
	Zvenigovskiy	14,0
	Gornomariyskiy	5,4
2. Manufacture of milk, thousand ton	Medvedevskiy	37,19
	Gornomariyskiy	34,53
	Morkinskiy	26,49
	Sovietskiy	22,99
	Sernurskiy	22,58
3. Manufacture of eggs, million of items	Volgskiy	113,8
	Gornomariyskiy	64,9
	Medvedevskiy	53,3
	Kilemarskiy	24,0

The table 7

Target indicators of development of animal industries of Republic Mary El

Parameters	Units of measuring	Years				
		2008	2009	2010	2011	2012
1. Manufacture of cattle and bird (in alive weight)	Thousand of ton	76,6	84,0	96,7	118,4	124,0
2. Manufacture of milk	Thousand of ton	262,0	275,0	300,0	320,0	340,0
3. Gain of realization of breeding	% by previous year	15,0	15,0	15,0	15,0	15,0
4. Specific gravity of breeding cattle in general(common): large horned cattle	%	5,1	6,8	6,8	6,8	6,8
	%	1,9	1,9	1,7	1,5	1,5
5. Level of disease of gypodermatosis of animal	%	10	5	-	-	-

in Republic Mary El in 2008-2012 years defines the development of animal industries of region in intermediate term prospect”<sup>6</sup>. According to the given program, the levels of parameters submitted in table 7 should be achieved.

As a result of realization of measures of the program by 2012 is planned to reach meaning of an index of production of animal industries in facilities of all categories 122 % (in relation to a level of 2007). Average per capita consumption of meat and meat products (in recalculation on meat) should increase from 49 kg in 2005 up to 67 kg in 2012, milk and milk products (in recalculation on milk) - accordingly, with 290 up to 316 kg.

In the whole realization of strategic directions of development of animal industries of republic should result to increase of a level of economic development of region, growth of the incomes and improvement of quality of life of the population.

<sup>1</sup> V.V. Kuznetcova. Economic substitution of formation and functioning integrated enterprise in egg production in Omsk region // Vestnik of Samara State University of Economics. Samara, 2007. № 4 (30). P. 97-101.

<sup>2</sup> N.T. Rafikova, R.R. Bakirova. Organization-economic factors of effectiveness of [production and milk realization // Vestnik of Samara State University of Economics. Samara, 2005. № 2 (17). P. 177-183.

<sup>3</sup> Situation of Government Of Russian Federation from 14 July, 2007 № 446 “About State program of development of agriculture and regulation of markets of agricultural production, raw materials and provision for 2008-2012”.

<sup>4</sup> <http://www.gks.ru>.

<sup>5</sup> <http://www.mcx.ru>.

<sup>6</sup> Situation of Government of Republic Mary El from 31 August, 2007 г. № 214 “About strategy of long-term socio-economic development of Republic Mary El”.