Tools of labor productivity management at agricultural enterprises

Anastasia Sharopatova and Julia Olentsova
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Anastasia Sharopatova
Institute of Economics and Management of Agro-Industrial Complex
Krasnoyarsk State Agrarian University
Krasnoyarsk, Russia
sharopatova@yandex.ru

Julia Olentsova
Krasnoyarsk State Agrarian University
Krasnoyarsk, Russia
tutor.eng@yandex.ru

Abstract — The article is devoted to the consideration of labor productivity tools. At the current stage of economic development, the problem of increasing labor productivity and efficiency of labor resources use at agricultural enterprises is of great importance. The factors determining the level and dynamics of labor productivity growth in agriculture are identified and the main components of the assessment and classification of factors affecting the change in labor productivity are presented.

The analysis of the current state of labor productivity at agricultural enterprises in the region showed that the main reserve of its growth is to increase the stock, which requires the introduction of new technologies, varieties of zoned crops, livestock breeds and equipment in the production process.

Keywords — Tools of labor productivity management, labor productivity factors, components of labor productivity assessment and analysis

I. INTRODUCTION

The basis of material and social well-being of society can be considered a highly efficient agricultural sector. It is no accident that agricultural production is a priority industry in absolutely all developed countries of the world. The development of the agricultural sector ensures the food security of our country, as well as the receiving of proven, high-quality products, which is important for the life and health of our population.

At the current stage of economic development, the problem of increasing labor productivity and efficiency of labor resources at agricultural enterprises is of great importance, since in the conditions of market relations strong competition between enterprises is inevitable, which pushes them to improve constantly the quality of their products and reduce production costs [1]. Labor productivity in Russia is up to 30 times lower than the level of the European Union and the United States; such data are provided in the ministry of economic development of the Russian Federation.

In the middle of the last century, productivity in Japan was 10 times lower than in the United States, and they are now the undoubted leaders [2]. It can be noted that increasing the level of labor productivity is the main basis of economic growth and progress.

The aim of the study is to identify the tools of labor productivity management and factors that determine the level and dynamics of its growth in agriculture, as a set of driving forces and reasons by which there is a conscious and purposeful impact on the productivity of labor.

II. METHODS AND RESULTS

A set of economic methods: monographic, analytical, economic and statistical was applied to solve the tasks of the study. Identification of factors determining the level and dynamics of labor productivity growth in agriculture was carried out on the basis of the study of static material and conceptual documents for agricultural development in the region. Confirmation of the conclusions and results of the study was carried out on the basis of the study of practical provisions and recommendations presented in modern works of domestic and foreign scientists on the problems of increasing productivity. As a result of achieving the research objectives, management tools, productivity were identified, cost parameters
were considered for the assessment, the growth rates of productivity and wages in agricultural enterprises and ways of increasing productivity were determined.

III. DISCUSSION

Acceleration of labor productivity in agriculture in modern conditions is an objective necessity and contains a significant economic importance in solving many financial and social problems. The key to productivity is to increase the production of gross agricultural output, which contributes to the fuller satisfaction of all food needs for the population of the country. Increasing labor productivity makes it possible to reduce the cost of payment in general and per unit of agricultural products [3, 19].

In modern economic conditions, the basis of labor productivity is the productive force of labor. The productive power of labor should be understood as the ability of an employee in specific conditions, circumstances to guarantee the achievement of a certain result [4]. The higher the productivity of living labor, the more the means of production are consumed. Thus, the labor productivity growth through reducing the volume of living labor relative to the volume set in motion the means of production, naturally reduces the unit cost of the product [5, 6].

A significant step in the analytical work at the enterprise is the search for reserves of labor productivity, the development of organizational and technical measures for the implementation of these reserves and the direct implementation of these measures [7].

There are many reserves for increasing labor productivity, but for a particular enterprise, the intra-production one is more acceptable, since the increase in labor productivity will occur by reducing the labor intensity of production and improving the use of working time at the enterprise [8, 9]. At the same time, increasing productivity in the enterprise, as a rule, is achieved by several methods:

1. Replacement of labor with capital (re-equipment of production, introduction of new equipment and technologies);
2. Intensification of work (application of administrative measures aimed at accelerating the performance for employees of their work);
3. Improving the efficiency of labor organization (identification and elimination of all factors leading to production losses, determination of rational ways to increase the efficiency of work) [10, 11].

There are several categories of productivity management tools - legal, organizational, economic, motivational.

Legal tools guarantee the regulation of legal relations between management subjects. The main task of the legal tool is to prevent the number of contradictions from the legal relations of the participants in the management process and to provide them with optimal content [13].

Economic tools (forecasting and planning, methods and tools for management of material and technical, financial, investment and innovation subsystem) determine the possible ways to maintain the proper state of management objects, reasoned ways of development of the system and methods of attracting resources for this. Include - wages and bonuses; sanctions for inadequate quality or quantity of work [12, 25].

Motivational tools (a set of command-administrative and socio-economic incentives that encourage staff to work efficiently) - a set of tools, methods and forms of interest in achieving the best socio-economic results for management elements of the system. Among the variety of motivational tools, we can distinguish, for example, economic incentives (all types of rewards for the results of work) as well as motives, that is, internal attitudes and external influences [13].

Organizational tools include the regulation of the company's employees through the creation of internal regulations.

These tools together are ready to guarantee a balanced and efficient functioning of the organization. Each of these mechanisms should contribute to the ultimate goal in the management of the organization [24].

One of the main enterprise indicators is the efficiency of labor resources, which is characterized by indicators of labor productivity (tab. 1).

Table 1 - Cost indicators of labor productivity at agricultural enterprises of Aban district

<table>
<thead>
<tr>
<th>Indicators</th>
<th>Aban district</th>
<th>JSC «Molokanovka»</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year</td>
<td>2015</td>
<td>2016</td>
</tr>
<tr>
<td>2017 to 2015, %</td>
<td>2017 to 2015, %</td>
<td></td>
</tr>
</tbody>
</table>
The production of commodity products per 1 person by the study of systemic problems in agriculture is of strategic importance in the formation of agriculture innovative potential [21]. Improving the level of technical equipment at the enterprises of the Aban district, including JSC "Molokanovka", is the most important indicators in determining the policy in the field of its payment. To some extent, the level of labor productivity may indicate the innovative potential [1]. The ratio in the growth rate of labor productivity and wages is one of the most significant indicators of production efficiency. At the macro level, it indicates not only the effectiveness of the use of labor, but also it is one of the important indicators in determining the policy in the field of its payment. To some extent, the level of labor productivity may indicate the competitiveness of products [14, 20]. The main in the study of labor productivity is the law of the ratio in the growth rate of labor productivity and wages. The essence of the law is that productivity growth should outpace wage growth. In this case, we can talk not only about the development of the enterprise, but also about its ability to stay "afloat" in crisis periods [17].

Next, consider the ratio of growth rates in labor productivity and wages in the studied objects (table 2).

**Table 2 - Growth rates of productivity and wages in agricultural enterprises of Aban district**

<table>
<thead>
<tr>
<th>Indicators</th>
<th>Aban district</th>
<th>JSC «Molokanovka»</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hourly labor productivity, rub.</td>
<td>571,5</td>
<td>688,9</td>
</tr>
<tr>
<td>Growth rate of hourly labor productivity, %</td>
<td>-</td>
<td>120,5</td>
</tr>
<tr>
<td>Increase rate of hourly labor productivity, %</td>
<td>-</td>
<td>20,5</td>
</tr>
<tr>
<td>Hourly wage, rub.</td>
<td>51,8</td>
<td>62,2</td>
</tr>
<tr>
<td>Growth rate of hourly wages, %</td>
<td>-</td>
<td>120,1</td>
</tr>
<tr>
<td>Increase rate of hourly wage, %</td>
<td>-</td>
<td>20,1</td>
</tr>
<tr>
<td>Increase rate in labor productivity to wage growth</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

From this table it can be seen that the number of employees decreases every year both in the district and at the enterprise. If we analyze the changes in labor productivity for the period 2015-2017 in the Aban district, we can see a tendency to increase the production of commodity products per 1 person by 35.5% [10].

Labor productivity per 1 employee and per 1 person – day, per 1 person - hour increases steadily during the study period by 23.7 and 25.9 %, respectively. This may be due to several reasons: the introduction of new technologies, so milking machines, new harvesters, etc.; stimulation of workers by increasing wages; reducing the number of workers, whereby the load per 1 person increases, etc.

Labor productivity in agriculture remains one of the most significant indicators of production efficiency. At the macro level, it indicates not only the effectiveness of the use of labor, but also it is one of the important indicators in determining the policy in the field of its payment. To some extent, the level of labor productivity may indicate the competitiveness of products [14, 20]. The main in the study of labor productivity is the law of the ratio in the growth rate of labor productivity and wages. The essence of the law is that productivity growth should outpace wage growth. In this case, we can talk not only about the development of the enterprise, but also about its ability to stay "afloat" in crisis periods [17].

For the entire analyzed period, the economic law that wage increases should be accompanied by a faster increase in labor productivity in agricultural enterprises of the Aban district is not maintained.

**IV. CONCLUSIONS**

Staffing is one of the main topics in the study of systemic problems in agricultural development. Staffing is of strategic importance in the formation of agriculture innovative potential [21]. Improving the level of technical equipment at the enterprises of the Aban district, including JSC "Molokanovka", is the
material basis for productivity growth. In this situation, technological progress, which is expressed in the increase of the number and quality of agricultural machines, is an important process of successive replacement of live labor by the work of the most active part of the fixed assets, which are machines and other equipment [18, 22].

In the process of production activities, many agricultural enterprises experience a constant short-term need for money in order to purchase raw materials, pay for fuel, provide respite to buyers, and stimulate workers to improve productivity. This requires working capital (own working capital), the importance of which for the economy is that it is considered one of the main sources of current needs coverage in the financing of current assets [16, 23]. It is also necessary for the growth of capital labor, as the main reserve to increase productivity in the studied enterprises, through the introduction of new technologies, varieties of crops, livestock breeds, and equipment in the production process.

REFERENCES