Agricultural region development: problems, tax threats, potential

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Abstract. The article is devoted to the problem of the development of the agro-industrial region. Economic, geopolitical relations, crisis situations, risks of the state and enterprises require the study of methodological support for new functions of tax administration of agribusiness enterprises. The economic security of public law education characterizes the state of the tax system and tax potential, which ensure the sustainable development of the territory. The authors investigated the purpose of tax potential management, one of which is the assessment of the security of the tax territory. For management and assessment, a tree of goals was built, based on the hierarchical principle of presenting promising goals for managing the economy of an agricultural region. The general goal and objectives of two levels are determined. The authors determined that the process of making management decisions to ensure tax security of the territory should consist of five stages. At the same time, the end result of the assessment should be a tax security strategy. A correlation analysis of a number of factors was carried out, among which the formation of the onset of risks and representing the main threat to the tax security of the territory - incomplete provision of tax revenues at all levels of the budget system - was revealed. Calculations were made on the example of the administrative territory of the Russian Federation (Republic of Mari El).

1 Introduction

The economic security of agribusiness enterprises is an important issue and is being studied by a wide range of scientists around the world, including Russian experts [1]. In the works of scientists from other countries, the tax component is mainly studied in the framework of ensuring the economic security of the territory. For example, the Institute for Social and Political Research (New Haven) calculates the Economic Security Index [2-3].

Another approach is to study tax security not at the state level, but at the level of agro-industrial corporations. Thus, the Internal Revenue Service (IRS) views tax security from a taxpayer's perspective and is based on improved authentication procedures, improved information sharing, increased cybersecurity, and increased education and outreach.

In our opinion, socio-economic security and its assessment are directly related to the sustainable development of the territory. In this regard, the forecast of the onset of unfavorable situations (risks) and the practical assessment of the influence of factors that

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form the main threats to the tax security of the territory should be based on the macroeconomic indicators of the development of this territory. It is necessary to analyze the influence of such indicators on the formation of the tax base when using the legislatively established tax mechanism. The results of such an assessment and the management decisions adopted in accordance with it will reduce the threats to the tax security of the territory with priority agricultural production. The aim of the study is to study the function of managing tax potential in agricultural regions, one of which is the assessment of the security of the tax territory. In this connection, it is necessary to conduct a correlation analysis of a number of factors. This will help to identify risks and threats to the tax security of the territory. Testing of the proposed methodology is carried out on the example of the administrative territory of the Russian Federation (Mari El Republic).

1.1 Problem Statement

In agricultural regions management of tax potential is currently carried out through the implementation of the functions of tax administration by the tax authorities of the state and its territorial departments. Tax administration should be considered in a wide range of tax relations: in the implementation of tax policy, in the relationship of tax authorities with taxpayers, in monitoring the implementation of the tax mechanism and in managing tax potential. This approach allows us to consider the functions of tax administration (tax planning, taxpayer accounting, tax control, analysis, tax regulation, work with taxpayers and tax monitoring [4] as management functions, including tax potential management.

The need to develop the existing functions of tax administration, their content, the allocation of new system and target tasks determine economic, geopolitical relations, crisis situations, risks of the state and taxpayers. To such tasks in modern conditions should include the task of ensuring tax security [6]. The tax potential is a kind of "airbag" in the economic development of the region and its territories, which is explained from several perspectives:

Firstly, a well-defined structure of tax potential and an effective methodology for planning tax payments is a key information basis for budgetary security, determined on the basis of possible tax revenues to budgets of all levels. The structure of the tax potential should be determined based on the current state of tax bases, their development trends, due to the growth of production volumes and business value.

Secondly, the effectiveness of tax payment planning is determined by: a comfortable tax environment in which taxpayers tax culture is maintained and multiplied; reducing tax risks and achieving the optimal level of tax burden, combined with the planned and forecasted level of profitability of the taxpayer organization. Such a tax environment may be characterized by a sufficient level of tax security [7].

Thirdly, the generated tax potential requires an assessment not only of the planned and forecast values used in its formation, but also of the actual data on the tax revenues of the territory that provide the budget and its revenue [8].

2 Material and methods

A comparative analysis of the forecast and actual data on the tax potential of the agricultural regions makes it possible to identify specific areas of management for which decisions are required regarding the prevention of tax risks and increasing the level of tax security [9]. For management and evaluation, an objectives tree is constructed (Fig. 1), which is based on the hierarchical principle of representing promising goals for managing tax potential. An important goal of managing tax potential is the regulation of intergovernmental relations. It should be noted that the tax potential of the territory is

inextricably linked with the norms of distribution of tax resources between budgets - tax revenues of a certain level of the budget system depend on their size, and based on the tax potential index, inter-budget equalization is carried out.

Determining effective methods of managing state and municipal finances, assessing the balance of the budget and determining a long-term budget strategy are necessary for regulating the financial and budget sphere [10-11].

Fig. 1. Objectives tree in the process of managing the tax potential of the territory (author's research).

The objectives of the first level include assessment of the tax security of the territory, which should be understood as the state of the tax system and tax potential, ensuring sustainable development of the territory. The study of this category involves the distinction of such concepts as threats and tax security risks.

Under the threats to the tax security of the territory, we understand the totality of conditions and factors that create a danger to the important interests of the state in the field of formation of tax potential.

Tax security risks are adverse uncertainties that create conditions and form danger factors for the interests of the state and territory [12-13]. It should be noted that all risks are formed in a certain environment: economic, legal, political, social, technological, etc. Moreover, the whole set of risks does not exist, but is in constant interaction, which explains: the appearance of a risk threat, the likelihood of a risk, an assessment of the consequences the onset of risk [14-18]. The most difficult in practice is the process of identifying risk.

Risks and the environment in which they arise differ in their degree of influence on the tax security of different territories. For example, the risk of a decrease in oil prices is

especially relevant for regions with a large share of oil producing organizations, and its onset indicates the threat of the regional budget not being provided with income tax, and the federal budget with a mineral extraction tax.

For the basis of the initial data for analysis, the data of the Tax passport of the Mari El Republic were taken. A regional tax passport is a consolidated official document that reflects all information about tax revenues to the region's budget.

3 Results and discussions

A large amount of data was analyzed. We selected 25 factors contained in the tax passport of the administrative territories of the Russian Federation (Mari El Republic). As a result of the correlation analysis, factors have been identified that are forming in the economic environment and are related to the management of tax potential: In the event of adverse situations, factors create threats to the tax security of the territory (Table 1).

Table 1. Data for analysis.

Factor name	Factor number	2017	2018	2019
gross domestic product (billion dollars)	1	906,1646	999,9538	1325,363
the volume of shipped goods of own production, works and services performed by our own mining operations (billion dollars)	2	174,7585	180,1846	211,6308
the volume of shipped goods of our own production, work and services performed by our own manufacturing industries (billion dollars)	3	491,7508	521,5077	574,3231
the volume of shipped goods of own production, work and services performed by own forces for the production and distribution of electricity, gas and water (billion dollars)	4	71,48308	79,44615	79,93846
agricultural output (billion dollars)	5	77,49538	86,55385	86,98462
the amount of work performed by the activity "Construction" (billion dollars)	6	91,46923	95,14462	116,0908
retail turnover (billion dollars)	7	423,6677	435,6508	458,5231
wholesale turnover of wholesale organizations (billion dollars)	8	614,0108	768,3538	885,3262
foreign trade turnover (billion dollars)	9	8,096923	7,196923	8,984615
fixed investment (billion dollars)	10	223,9369	225,2277	245,6431
balanced financial result (profit minus loss) (billion dollars)	11	129,5646	178,2723	158,7769
profit margin for profitable organizations (billion dollars)	12	173,1369	203,0062	188,8631

loss amount of enterprises (billion dollars)	13	43,57231	24,73385	30,08615
accounts payable (billion dollars)	14	598,8554	650,4631	684,3277
receivables (billion dollars)	16	549,7908	570,0492	619,3477
average monthly accrued salary per employee	18	34 012,3	36 745,7	690,8769
labor force (economically active population) (thousands of people)	19	76 587,5	76 630,0	76 100,0
- employed (thousands of people)	20	72 323,6	72 390,0	72 140,0
- unemployed (thousands of people)	21	4 260,0	4 240,0	3 966,5
number of taxpayers (unit)	22	158 433 950	166 312 758	168 651 992
number of legal entities (unit)	23	4 820 432	4 553 818	4 371 335
number of individuals (unit)	24	153 613 518	161 758 940	164 280 657
region population (thousands of people)	25	146 519,8	146 804,4	146 880,4

The correlation results are presented in Table 2. The analysis shows that the following factors have the greatest impact on tax revenues: gross domestic product, volume of shipped goods of own production, retail turnover, wholesale turnover of wholesale organizations, foreign trade turnover, fixed capital investments, accounts payable, accounts receivable.

The following factors negatively influenced the assessment data: the number of legal entities, the number of labor force (economically active population), employed, unemployed.

Table 2. Results of correlation assessment.

Factor number	Effective sign - tax revenues
1	1,00
2	1,00
3	0,98
4	0,69
5	0,68
6	1,00
7	0,99
8	0,91
9	0,76
10	0,99
11	0,30
12	0,21
13	-0,42
14	0,90
15	0,52
16	0,99
17	0,83
18	1,00
19	-0,97
20	-0,90
21	-0,99
22	0,80
23	-0,90
24	0,81
25	0,79

4 Conclusion

The results obtained allow us to conclude that the management of tax potential, ensured through the implementation of the above functions of tax administration, helps to identify and identify risks that form in the tax relations management system and apply to all economic processes.

The onset of tax risks is closely related to threats to the tax security of the region, to which we attributed:

- (a) threat of incomplete provision of tax revenues of the federal budget;
- (b) threat of incomplete provision of tax revenues to the regional budget;
- (c) threat of incomplete provision with tax revenues of the local budget.

Therefore, reducing and preventing tax risks, which can lead to threats to tax security, seems to be one of the main tools for managing the tax potential of the agricultural region.

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