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**Conference Paper**

## Computer model for evaluating performance and economic risk at the level of farms of different sizes

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# COMPUTER MODEL FOR EVALUATING PERFORMANCE AND ECONOMIC RISK AT THE LEVEL OF FARMS OF DIFFERENT SIZES

BEREVOIANU ROZI LILIANA<sup>1</sup>

**Summary:** *Computer Model for performance evaluation and economic risk is a model complex based on appropriate methodologies with specific indicators, necessary to administer the agricultural farm, management, efficient and increase its productivity. System of indicators is intended as a centralized source of information necessary to improve economic performance and efficient use of production factors by which to ensure the development of commercial farms, efficient use of input, raising yields and improve economic performance.*

**Keywords:** *computer model, agricultural management, economic and financial indicators, economic risk*

## INTRODUCTION

The computer Model was developed as part of Project ADER 513 "Establish the profitability and economic risk assessment in the vegetal and animal farm under the pedo-climatic conditions in the South of the country", with the main purpose to stimulate farmers in the use of computer software for making strategic management options.

By using the computer model will increase the profitability of the agricultural exploitations because information on the mode of operation of the establishment and progress of business, which will result in a direct way, to streamline the exchange of information and reducing information-decision cycle.

At the same time, the computer model is a useful tool for management of farms of different sizes and shapes. This leads to identify the most effective solutions, carrying out financial and economic activity of the farm, the possibility of anticipating the likely success of the business, making proposals for financing agriculture.

Through systematic on-line accessibility of data-processing model, the research team wishes to increase the contribution of scientific research and environmental education to the development and competitiveness of agricultural holdings, to develop an interactive source for farmers, managers, students, researchers and consultants involved in the management of agricultural holdings.

## MATERIAL AND METHOD

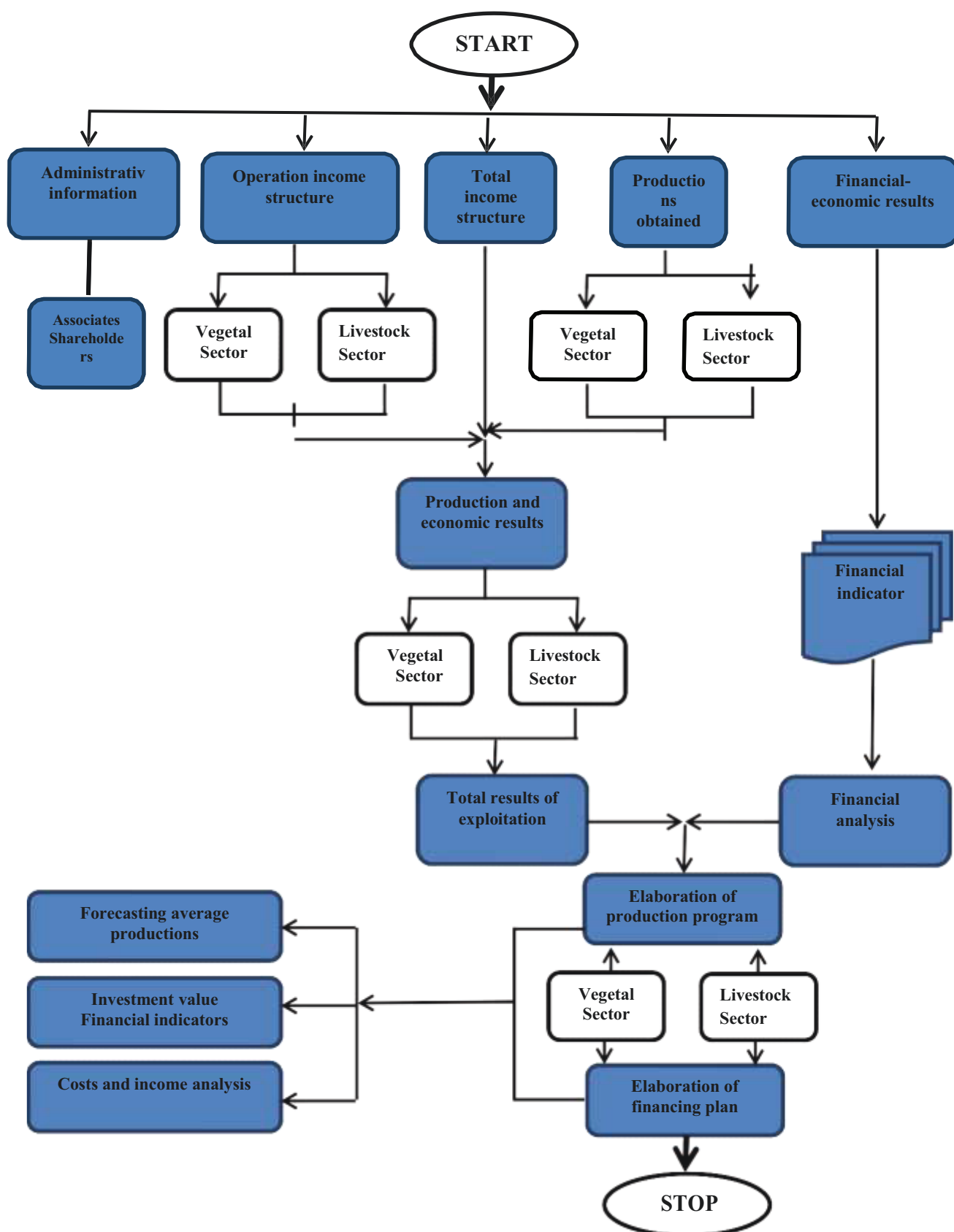
The computer model was designed based on an overall analysis of the components of plans and programmes, the identification of the necessary indicators and their applicability in the boundary area. As a result, it is seen as a unitary system, which manages data and information, with a large utility in the decision-making process.

The computer model has the support of a collection of tables, organized in such a way as to ensure the possibility of manufacturing records and, at the same time to establish a common data source for all applications in the system subsystems.

For an understanding of how to work within the computer model we present further linkage between Windows (sheet) in their logical sequence of usage:

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<b>Flow chart - flow of information</b>
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To organize the tables by computer model components and to allow this procedure to be permissible under the agreement, it had the following features:

- table-size must be equal to the size or total number of the registered information;
- the degree of activity-refers to the number of records that are processed when running the system that uses a specific table;
- mobility-refers to the elimination of doubles records and the opportunity to delete or insert information into the table.

With regard to the processing of records in a table are the following basic processes:

- sequential processing where input data is grouped and sorted in order to follow the sequence of entries in the table, the records being processed in sequence, as are entered;
- processing random data is used for the processing of entries in the order in which they appear.

Program structure clarified the following:

- in order to run correctly, you must firstly declared administrative information, followed by the income structure, the structure of production and the economic-financial results for a period of 3 years;
- the model allows you to enter information and generate data for both crop production and livestock production.

## RESULTS AND DISCUSSION

Computer-model application program developed included:

- A.** data entry in the system (inputs),
- B.** system constants (information taken from the parts lists and tables),
- C.** data output from the system (outputs or reports)

**A. Data entry in the system (inputs)**the information input by the user of the system:

- administrative information;
- information about the structure of operating income sectors;
- information about the structure of total revenues;
- information about the plant - crop, area, total production, total expenditure, subsidies, production value etc .;
- information about livestock - animal category, total, total expenditure, subsidies, production value etc .;
- information relating to financial results etc.

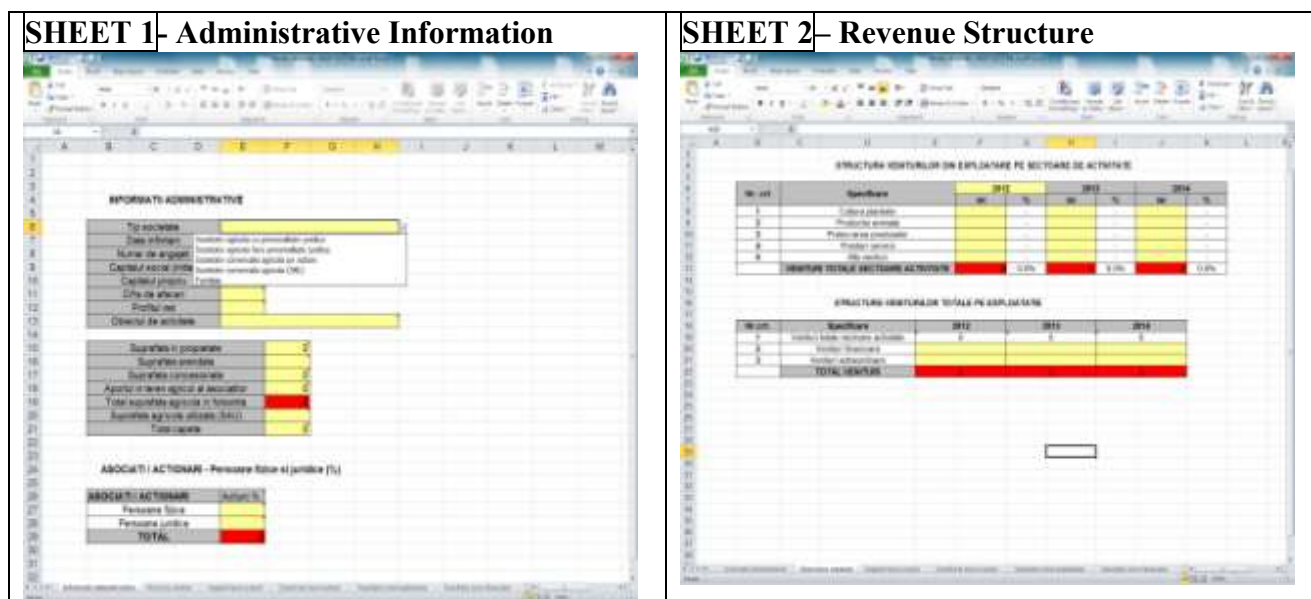
**B. Constants system** is information taken from lists and tables that can be achieved by classifying farms by economic size, the type of crop and animal species, determining the economic dimension in euro SO per farm (total standard production - SO euro), you can make judgments on economic indicators - those holding's financial.

**C. Output data**from the system are those reports that it generates system after loading the input data and constants, based on the calculation algorithms specific to each module designed:

- vegetable sector - the average yield, total physical production expenses per hectare, cost of production, crude, average selling price, etc;
- livestock - average yield, total physical production, livestock expenses, cost of production, crude, average selling price, etc;
- total expenses, total revenues, profit or loss, the rate of profit;
- forecasting average production;

- variations of production structures;
- analysis of revenue and expenditure in the previous period and the year in which the program is;
- financial projections for a period of three years from the receipt of financial assistance;
- basic indicators and calculation efficiency indicators etc..

Below are images and exemplified during the development / use computer model developed:



- SHEET-ul 1 „*Administrative Data*” -the user enters the data on the agricultural holding. There is a button for selecting the type of society that allows one choice, depending on user's choice.
- SHEET-ul 2 „*Income structure*” - the user enters the value in lei in operating income sectors. There selector button that allows the user the choice of year 1, then year 2 to year 3 (written automatically in ascending order).

The following spreadsheet (sheets) of the application require differentiation by sector of activity (plant and animal). Each module allows the user to enter the holding activity-specific data, respectively to obtain, through the automatic calculation, information on the results of economic and productive results. Thus:

- SHEET-ul 3 ”*Input-Output Plant*”
  - Cultivated land and acquired productions"-for the select (series of 3 consecutive years). In this section the user can enter data on existing crop cultivation: in the suite (there is a button for selection of vegetable crops in the database created), the area in hectares and total production in tonnes for each of the selected crops.

The data entered and the values obtained through calculations specified results are obtained for production and economic results, which will be displayed in the same sheet, table, as follows:

  - "Production and economic results" - select years (range 3 consecutive years). In this section the user enters data on: total expenditure (lei), grants (lei), the production (lei) for each crop in the system
- SHEET-ul4 ”*Livestock Input-Output*”
  - “Effective animals and yields obtained” - selected years (range 3 consecutive years). In this section the user enters data on: existing categories of animals on their premises (there are buttons for selecting the category of animals created database), total number of heads yields obtained for each animal category selected.

The data entered and the values obtained through calculations specified results are obtained for production and economic results, which will be displayed in the same sheet, table, as follows:

- "The production and economic Results"-selected years (series of 3 consecutive years). In this section the user can enter data: total expenditure (lei), subsidies (lei), the production value (lei) for each category of animal is introduced into the system.

### **SHEET 3- Input-output Plant**

Area under cultivation and the production obtained for the select (series of 3 consecutive years)

Categorie de culturi	2010			2011			2012		
	Suprafata	Productie	Valoare	Suprafata	Productie	Valoare	Suprafata	Productie	Valoare
1. Cereale									
2. Leguminoase									
3. Vegetale									
4. Altele									
<b>Total</b>									

### **SHEET 3- Input-output Plant**

Production and economic Results for the select (series of 3 consecutive years)

Categorie de productie	2010			2011			2012		
	Productie	Valoare	Costuri	Productie	Valoare	Costuri	Productie	Valoare	Costuri
1. Cereale									
2. Leguminoase									
3. Vegetale									
4. Altele									
<b>Total</b>									

### **SHEET 6- Economic-financial Results**

Nr. crt.	Indicator	Valori		
		2010	2011	2012
1	Activul			
2	Activul permanent			
3	Activul curent			
4	Activul total			
5	Capitalul propriu			
6	Capitalul stranut			
7	Capitalul total			
8	Capitalul propriu			
9	Capitalul stranut			
10	Capitalul total			
11	Capitalul propriu			
12	Capitalul stranut			
13	Capitalul total			
14	Capitalul propriu			
15	Capitalul stranut			
16	Capitalul total			
17	Capitalul propriu			
18	Capitalul stranut			
19	Capitalul total			
20	Capitalul propriu			
21	Capitalul stranut			
22	Capitalul total			
23	Capitalul propriu			
24	Capitalul stranut			
25	Capitalul total			
26	Capitalul propriu			
27	Capitalul stranut			
28	Capitalul total			

### **SHEET 6- Economic-financial Results**

Nr. crt.	Indicator	Valori		
		2010	2011	2012
1	Activul			
2	Activul permanent			
3	Activul curent			
4	Activul total			
5	Capitalul propriu			
6	Capitalul stranut			
7	Capitalul total			
8	Capitalul propriu			
9	Capitalul stranut			
10	Capitalul total			
11	Capitalul propriu			
12	Capitalul stranut			
13	Capitalul total			
14	Capitalul propriu			
15	Capitalul stranut			
16	Capitalul total			
17	Capitalul propriu			
18	Capitalul stranut			
19	Capitalul total			
20	Capitalul propriu			
21	Capitalul stranut			
22	Capitalul total			
23	Capitalul propriu			
24	Capitalul stranut			
25	Capitalul total			
26	Capitalul propriu			
27	Capitalul stranut			
28	Capitalul total			

- SHEET-ul5 "*Total Results Holding*" -it shows the information related to the production and economic results, the economic size of the holding and its classification corresponding to each year of production achieved for vegetable and animal sector. Classification of agricultural holding is handle according to The Standard Production SO (SO euro/expl.) and according to economic size (ESU/expl.).
- SHEET-ul 6 "*Economic and Financial Results*" -the user can enter data from the balance sheet and the profit and loss account. The accounts provide information on the State of assets, financial situation and results of the enterprise in a fiscal year.
- SHEET-ul 7 "*Financial Indicators*" - based on the data from Sheet 6 - "economic and financial results" are automatically calculates financial ratios for selected years (three years in



**SHEET 7– Financial indicators**

Nr. crt.	INDICATOR FINANCIAR	Trimestru		
		2010	Apărut în anul 2011	2012
1	Cuota de lichiditate	0,00%	0,00%	0,00%
2	Rata activelor curente	0,00%	0,00%	0,00%
3	Activitatea financiară intermediară	0,00%	0,00%	0,00%
4	Lichiditatea activelor intermediare	0,00%	0,00%	0,00%
5	Lichiditatea mediului financiar	0,00%	0,00%	0,00%
6	Mediul financiar	0,00%	0,00%	0,00%
7	Rata activelor	0,00%	0,00%	0,00%
8	Cuota de lichiditate	0,00%	0,00%	0,00%
9	Rata de activitate	0,00%	0,00%	0,00%
10	Cuota de lichiditate	0,00%	0,00%	0,00%
11	Rata activelor financiare	0,00%	0,00%	0,00%
12	Mediul de activitate	0,00%	0,00%	0,00%
13	Mediul activelor financiare	0,00%	0,00%	0,00%
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147	Mediul activelor financiare	0,00%	0,00%	0,00%
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152	Mediul activelor financiare	0,00%	0,00%	0,00%
153	Mediul activelor financiare	0,00%	0,00%	0,00%
154	Mediul activelor financiare	0,00%	0,00%	0,00%
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156	Mediul activelor financiare	0,00%	0,00%	0,00%
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158	Mediul activelor financiare	0,00%	0,00%	0,00%
159	Mediul activelor financiare	0,00%	0,00%	0,00%
160	Mediul activelor financiare	0,00%	0,00%	0,00%
161	Mediul activelor financiare	0,00%	0,00%	0,00%
162	Mediul activelor financiare	0,00%	0,00%	0,00%
163	Mediul activelor financiare	0,00%	0,00%	0,00%
164	Mediul activelor financiare	0,00%	0,00%	0,00%
165	Mediul activelor financiare	0,00%	0,00%	0,00%
166	Mediul activelor financiare	0,00%	0,00%	0,00%
167	Mediul activelor financiare	0,00%	0,00%	0,00%
168	Mediul activelor financiare	0,00%	0,00%	0,00%
169	Mediul activelor financiare	0,00%	0,00%	0,00%
170	Mediul activelor financiare	0,00%	0,00%	0,00%
171	Mediul activelor financiare	0,00%	0,00%	0,00%
172	Mediul activelor financiare	0,00%	0,00%	0,00%
173	Mediul activelor financiare	0,00%	0,00%	0,00%
174	Mediul activelor financiare	0,00%	0,00%	0,00%
175	Mediul activelor financiare	0,00%	0,00%	0,00%
176	Mediul activelor financiare	0,00%	0,00%	0,00%
177	Mediul activelor financiare	0,00%	0,00%	0,00%
178	Mediul activelor financiare	0,00%	0,00%	0,00%
179	Mediul activelor financiare	0,00%	0,00%	0,00%
180	Mediul activelor financiare	0,00%	0,00%	0,00%
181	Mediul activelor financiare	0,00%	0,00%	0,00%
182	Mediul activelor financiare	0,00%	0,00%	0,00%
183	Mediul activelor financiare	0,00%	0,00%	0,00%
184	Mediul activelor financiare	0,00%	0,00%	0,00%
185	Mediul activelor financiare	0,00%	0,00%	0,00%
186	Mediul activelor financiare	0,00%	0,00%	0,00%
187	Mediul activelor financiare	0,00%	0,00%	0,00%
188	Mediul activelor financiare	0,00%	0,00%	0,00%
189	Mediul activelor financiare	0,00%	0,00%	0,00%
190	Mediul activelor financiare	0,00%	0,00%	0,00%
191	Mediul activelor financiare	0,00%	0,00%	0,00%
192	Mediul activelor financiare	0,00%	0,00%	0,00%
193	Mediul activelor financiare	0,00%	0,00%	0,00%
194	Mediul activelor financiare	0,00%	0,00%	0,00%
195	Mediul activelor financiare	0,00%	0,00%	0,00%
196	Mediul activelor financiare	0,00%	0,00%	0,00%
197	Mediul activelor financiare	0,00%	0,00%	0,00%
198	Mediul activelor financiare	0,00%	0,00%	0,00%
199	Mediul activelor financiare	0,00%	0,00%	0,00%
200	Mediul activelor financiare	0,00%	0,00%	0,00%
201	Mediul activelor financiare	0,00%	0,00%	0,00%
202	Mediul activelor financiare	0,00%	0,00%	0,00%
203	Mediul activelor financiare	0,00%	0,00%	0,00%
204	Mediul activelor financiare	0,00%	0,00%	0,00%
205	Mediul activelor financiare	0,00%	0,00%	0,00%
206	Mediul activelor financiare	0,00%	0,00%	0,00%
207	Mediul activelor financiare	0,00%	0,00%	0,00%
208	Mediul activelor financiare	0,00%	0,00%	0,00%
209	Mediul activelor financiare	0,00%	0,00%	0,00%
210	Mediul activelor financiare	0,00%	0,00%	0,00%
211	Mediul			

**METEZA SCORABILOR - cu utilizarea metodei clasice de Metoda** April 2012

**Metoda - Metoda Altfel**  $2 = 1.5 \times T1 + 1.5 \times T2 + 8.5 \times T3 + 1.5 \times T4 + 1.5 \times T5$

	2	3	11	1	13	16	12	14	15	10
SCOR	82.00	82.00	82.00	82.00	82.00	82.00	82.00	82.00	82.00	82.00

**Interpretare**

11.8 Situat critică spre FALȘEVIT  
 16.02 Răscălmăcit de la Metoda Clasică  
 10 Răscălmăcit de la FALȘEVIT

**Metoda - Metoda Clasic si Balot**  $2 = 16.82 + 22.82 + 27.82 + 28.82 + 28.82$

	2	16	81	31	12	87	16	86	28	85
SCOR	82.00	82.00	82.00	82.00	82.00	82.00	82.00	82.00	82.00	82.00

**Interpretare**

16.82 Proportie Metoda 100%  
 16.82 Proportie Metoda 10.00%  
 17.4 Proportie Metoda 10.75%  
 4.82 Proportie Metoda 10.75%  
 16.82 Proportie Metoda 10.75%  
 16.82 Proportie Metoda 10.00%  
 16.82 Proportie Metoda 10.75%  
 16.82 Proportie Metoda 10.75%

- SHEET-ul 8 "Forecasting average production" for selected years (range 3 consecutive years) both for crops (kg/ha) and for livestock (kg/animal head or l/cap animal), based on the values of the average production the last 5 years after production. To achieve forecasting average production, farm requires the results of production data in recent years. Forecasting average production will be done using methods that correspond, for each crop or animal categories, their evolutions in the previous period.

## SHEET 9– Variations production structure

The screenshot shows a Microsoft Excel spreadsheet with two tables. The first table is titled 'Klasifikasi' and has a header row with 'Jenis Kelamin' and 'Tipe Kelamin'. The second table is also titled 'Klasifikasi' and has a header row with 'Jenis Kelamin' and 'Tipe Kelamin'. Both tables have a yellow background for the data rows.

The screenshot displays a Microsoft Excel spreadsheet with three tables. The first table, 'Table des ventes de produits', has columns for 'Date', 'Client', 'Produit', 'Quantité', 'Prix unitaire', 'Total', and 'Remarque'. The second table, 'Table des clients', has columns for 'Date', 'Nom', 'Adresse', 'Ville', 'Pays', 'Téléphone', and 'Fax'. The third table, 'Table des fournisseurs', has columns for 'Date', 'Nom', 'Adresse', 'Ville', 'Pays', 'Téléphone', and 'Fax'. The spreadsheet is titled 'Table des ventes de produits' and the status bar at the bottom indicates 'Feuille1' and 'Microsoft Excel'.

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the possibility through successive attempts, changing culture surfaces selected last year to get other versions of production structure.

### SHEET 10– Financing plan and financial projections

The screenshot shows a Microsoft Excel spreadsheet titled 'SHEET 10- Financing plan and financial projections'. It contains several tables with financial data. The top table lists 'Indicatori financiar' with columns for 'Anul', 'Valoare', and 'Unitate'. Below it, there are more detailed tables for 'Indicatori financiar' and 'Indicatori de baza', showing values for different years and indicators.

### SHEET 12– Financial projections

The screenshot shows a Microsoft Excel spreadsheet titled 'SHEET 12- Financial projections'. It contains several tables with financial data. The top table is titled 'Proiectia financiara pentru urmatoari 3 ani de la primirea ajutorului financiar' and shows 'Indicatori' and 'Valori' for years 1, 2, and 3. Below it, there are more detailed tables for 'Indicatori de baza' and 'Calculul indicatorilor de eficienta', showing values for different years and indicators.

- SHEET-ul 11 "Program production. Analysis of expenses and income "as version 0 and the year in which elaborate production program (version n).
- SHEET-ul 12 "Financial Projections" - The computer allows financial projections for the next three years of receiving financial aid, assessment of basic indicators (the investment, production costs/year, production value, profit/year) and the indicators efficiency (specific investment, payback period, profits recovered, total profit, total profit, economic ranadamentul investment). The specific calculations of these indicators are specific formulas that are inserted into the appropriate cells and taken for each value of the three-year financial projections.

## CONCLUSIONS

Documentation economic analysis - financial information prepared using model generates a series of very important information and conclusions to substantiate production programs so that it can be considered a useful tool at the hands of managers who can make a major contribution to decision-making steps necessary farm management.

### Evaluation of computer model

- providing economic model developed information that are not processed by the accounts, such as: Production Total Standard OS euro, Economic Size Unit production cost per unit of product, record, calculate and analyze farm-specific indicators over a period of three years etc.
- preparing the mid-term evaluation of the work already indicating items that should be reached or transformed (influencing the decision);
- projected path of evolution of farm management to see what the current functioning of the farm;
- describe developments that may have a farmer to improve farm management;
- developments states that the farmer can have them in connection with the use or adaptation of machinery for mechanization.

Efficiency and utility computing model is a means:



- stimulating farmers managing vegetable farms and animals in using computer applications at farm level for the evaluation of production;
- the complexity of the process of agricultural production (practical guidelines);
- communication between farmers, the main beneficiaries of project and agricultural research.

### **BIBLIOGRAPHY**

1. ADER 513, Project financing contract No. 513/14.11.2011-"Establish profitability and economic risk assessment in the vegetal and animal farm under the pedo-climatic conditions in the South of the country."
2. PS 622, Project financing contract No. 369/2006-"System for developing business plans, production strategies, feasibility studies and other analyses useful in the decision-making process of crop production"