# *Computers in agriculture*

The agriculture of our country should turn into a highly profitable sector of the national economy capable of providing the population of the country with high-quality food. At the same time, the problem of improving the working and living conditions of people working in this industry is particularly acute.

The solution of these complex tasks requires not only the application of new organizational forms, but also the technical reconstruction of the entire agriculture that is closely related to these measures.

Accounting for cash, machinery, harvest, livestock products become the basis for the introduction of a full economic calculation, as well as the calculation of wages for labor.

*Work done:*
*Evgen Tobol*

# *Automated control*

At the disposal of collective and state farms there are tractors, combines, cars and other equipment. Finding the best options for using the machine and tractor fleet will lead to significant savings in fuel, spare parts, and will minimize downtime. Automated documentation, compilation and printing of necessary documents without human participation will reduce the number of people involved in managerial work.

Timely forecasting the need for spare parts for equipment, as well as other industrial products will allow you to fully realize the advantages of agro-industrial associations.

# *Farm Computer*

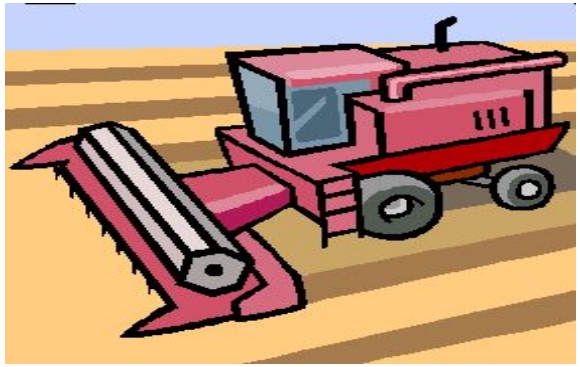
Great help can have a computer on a livestock farm. For each animal, it is required to make an individual feeding ration, to keep their own “medical history”, etc. Implementing such an individual approach without the use of computer databases is unrealistic, since many factors must be taken into account, such as feed availability, the possibility (and cost) of feed procurement from other farms, etc.

The use of computer technology will allow to solve this problem in an optimal way, thanks to which the volume of agricultural production will increase significantly.
Computer systems can control livestock feed and perform many other useful functions.

# *Planning and calculation of acreage*

Calculating acreage is another problem requiring the use of computers. This problem is solved on the basis of agrochemical field models. The baseline information for the calculation is the crop production plans. To solve these problems, special application packages are needed. Such applications provide yield forecasts based on weather conditions. And already on the basis of these data, planning of planting and caring for crops is carried out taking into account the available equipment and labor resources, as well as taking into account various options for weather conditions. Various supplements are made, depending on the composition of the soil and its fertility.

Having a computer, a farmer can easily and quickly calculate the number of seeds and fertilizer required for planting, plan his budget and keep track of livestock. Computer systems can plan crop rotation, calculate a schedule for irrigating crops, and perform many other useful functions.



# *Microprocessor on the combine*

The creation of microprocessor-controlled machines and mechanisms with fault diagnostics is another area of application of computer technology. In addition, the use of robots on livestock farms, when harvesting and sorting the crop, as well as in the cultivation of the land.

Personal computers will allow you to more clearly plan and manage agricultural production.

Combining computers in the network will more clearly organize operational communication with neighboring farms and industrial enterprises.