



Scientific and Technical Scientific and Technical Progress and Innovation in Agriculture Grass and Innovation in Agriculture

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Scientific and technological progress in agriculture is a systematic progressive process of improving the means of production, technology and organization based on the widespread use of the achievements of science and technology.

To increase the production of agricultural products and increase its efficiency, scientific and technological progress is of great importance, which is based on innovative processes that allow for a continuous renewal of production. Scientific and technological progress is a progressive interconnected and interdependent development of science and technology, which manifests itself in the improvement of productive forces, technology, management methods and production organization. This is a complex multidimensional process, including scientific research, design and manufacture of machines and other means of production, selection and reproduction of promising varieties of plants, breeding of new breeds of livestock, improvement of agricultural methods. A special place is occupied by "eco-agriculture", which implies the cultivation of agricultural crops without the use of mineral fertilizers. It is also important to help crops absorb nutrients, macro and micronutrients from the soil. In this, biostimulants are good helpers, which regulate the absorption of certain nutrients by plants from the soil.

Scientific and technological progress in agriculture has its own characteristics. Today, improving soil fertility and protecting the natural environment is one of the most important tasks. It is solved on the basis of the rational use of all factors of scientific and technological progress.

Large differences in natural and climatic conditions across the country's zones also have a significant impact on the development of scientific and technological progress. They largely determine the system of machines, varieties of agricultural crops, livestock breeds, and forms of farming.

The seasonal nature of agricultural production leads to a higher technical equipment of agriculture, the creation of universal machines that can be used in various jobs.

A large volume of low-transportable and perishable products necessitates the development of effective methods for their storage and processing, substantiation of new organizational forms of agro-industrial integration. The creation of so-called agricultural clusters, covering all cycles of production and processing of agricultural crops, makes it possible to grow and timely process agricultural products.

Scientific and technological progress is the basis for the intensification of agriculture. The introduction of the achievements of science and technology into production opens up wide opportunities for ensuring high growth rates of agricultural production, increasing its stability and labor productivity, reducing costs and improving product quality, increasing the profitability of the industry, changing working conditions and functions of workers.

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