

PROSPECTS OF SOYBEAN CULTIVATION IN ALTAI

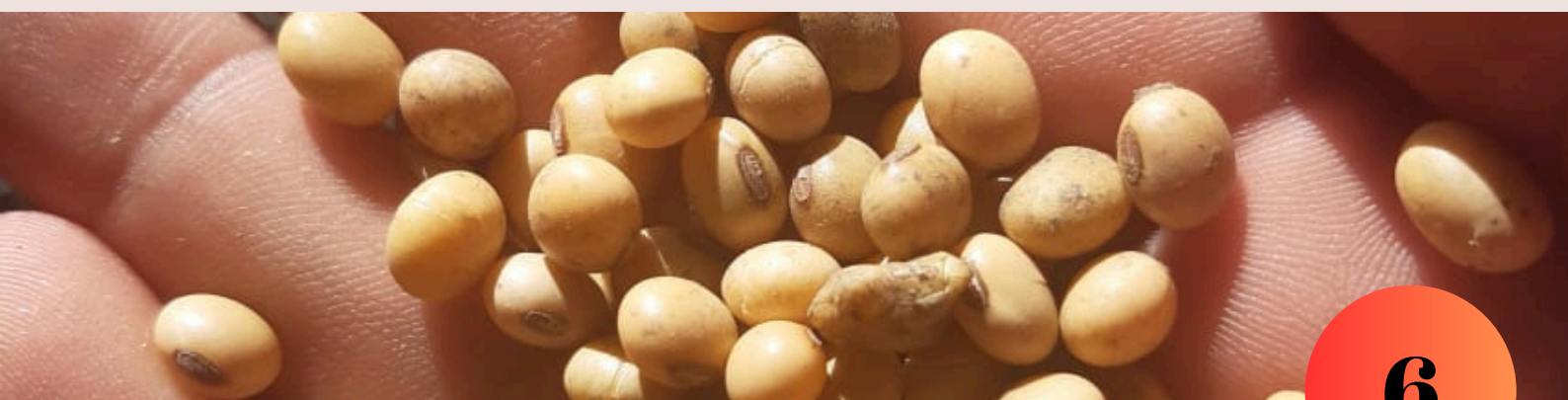
By Kunshchikov Nikita, Student of Altai State Agricultural University, Barnaul, Russia



Soy products have become an integral part of modern cooking and dietetics. But how important is soy in the modern world? The answers to this question can be found by considering the various aspects of the use of soy, its health benefits, environmental significance and economic potential. First of all, it is worth noting the significant role of soy in the diet and nutrition. Due to its rich composition, soy products are a valuable source of protein for those who monitor their health or follow a vegetarian or vegan diet. Soy protein is easily absorbed by the body and contains all the necessary amino acids. In addition, soy is also a good source of fats, fiber, minerals and vitamins.

However, the importance of soy is not limited only to its nutritional properties. This culture is also of great importance for the environment. Since soybean production requires less acreage compared to other crops such as wheat or corn, soybean cultivation contributes to a more efficient use of land resources. Moreover, soybean plants are nitrogen fixer, which helps to improve the soil condition and reduces the need for chemical fertilizers. In the modern world, soybeans occupy a special place in agriculture and the food industry. Its high nutritional value

and the possibility of using it in various products make it an indispensable component of daily nutrition. At the current stage of civilization development, society is creating an increasingly artificial habitat for human beings. Cities, megacities, hypermarkets, train stations and airports, transport and industrial enterprises eliminate the natural human environment from life, which has a rather negative effect on the psychophysiological state of residents of large cities. A striking example is Japan, where the technocratic level of development has been elevated to the rank of a fetish, and where people in multimillion cities are seriously suffering from loneliness and various mental illnesses - there is a high suicide rate. The human psyche cannot withstand such destructive pressure and is looking for a way out — cafes have appeared in Tokyo where visitors can pet and play with various animals. Many people just want to go to nature or sit on the grass in the park as a vacation. It is clear that in his pursuit of comfort and an artificial environment, man has missed the fundamental principles of the divine world order, which alone can bring harmony into their existence.



Where a person can restore his strength, get nourished by life—giving currents and catch inspiration - in nature. Altai Territory is one of the top ten soybean producing regions. Since 2017, the region has set a course for a sharp increase in the crops of this crop. In 2022, over 193 thousand tons of soybeans were produced here. A team of scientists from the Altai State Agricultural University has set a goal to develop measures to improve the economic efficiency of soybean cultivation under irrigation in especially arid conditions of the steppe zone of the Altai Territory. The reliability of the obtained results was confirmed by statistical processing. Altai scientists have proved that soybeans can be effectively grown in the steppe. Many varieties of soybeans, both domestic and imported, are being sown in the region today. It is necessary to cultivate those varieties that are suitable for the climate. One degree of latitude increases or decreases the growing season by five days. In Altai, it grows quite well even in dry years. Scientists have found that sulfur, a key component of amino acids, is needed to grow soybeans. Its deficiency can affect both the quality and quantity of the crop.

The main influence of soybeans on world trade is related to its use in the production of biofuels. Soybean-based biofuels are becoming increasingly popular as they are considered more environmentally friendly and sustainable and replace fossil energy sources. This creates new opportunities for exports and attracting foreign investment.

In conclusion, the soybean industry plays an important role in the modern world, contributing to the sustainable development of the planet. Due to its high protein content and the possibility of use in food production, soy is an important factor in the fight against global food shortages and climate change. In addition, sustainable agriculture associated with soybean cultivation contributes to the conservation of forests and the improvement of soil fertility. All this makes soybeans an integral component of sustainable development in Russia and the modern world.

List of Literature

Soybean acreage in Russia [Electronic resource]. <https://www.agroxxi.ru/agroeconomics/analiz-posevnye-ploschadi-pod-soei-uvelichilis-do-3-6-mln-ga-v-2023-godu.html>

Soybean production in 2022 [Electronic resource]. <https://worldpopulationreview.com/country-rankings/soybean-production-by-country>

Tabakov, N. A. The use and processing of soybeans: a textbook. Krasnoyarsk: KrasGAU, 2008. — URL: <https://e.lanbook.com/book/90800>

The secret of a rich soybean harvest in Siberia. [Electronic resource]. <https://altapress.ru/ekonomika/story/sekret-bogatogo-urozhaya-soi-v-sibiri-337625>

