

**IMPORTANCE OF LICORICE PLANT IN HUMAN LIFE**

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**ABSTRACT**

Currently, the demand for medicinal and useful plants for the national economy is increasing. For this reason, the Ministry of Innovative Development of the Republic of Uzbekistan, in the formation of the state scientific programs of applied and innovative research for 2019-2021, organized competitions for projects on the development of modern technologies for the cultivation of licorice and other medicinal plants, and as a result of the conducted research, the plant useful aspects are being studied.

**ANOTATSIYA**

Hozirgi kunda dorivor va xalq-xo'jaligi uchun foydali bo'lgan o'simliklarga bo'lgan talab tobora oshib bormoqda. Shu sabab O'zbekiston Respublikasi Innovatsion rivojlanish vazirligi 2019 - 2021-yillar uchun amaliy va innovatsion tadqiqotlar davlat ilmiy dasturlarini shakllantirishda qizilmiya va boshqa dorivor o'simliklar yetishtirishning zamonaviy texnologiyalarini ishlab chiqish bo'yicha loyihalar tanlovlari tashkil etilishi va olib borilgan izlanishlar natijasida o'simlikning foydali jihatlari o'rganilmoqda

**АННОТАЦИЯ**

В настоящее время возрастает спрос на лекарственные и полезные растения для народного хозяйства. По этой причине Министерство инновационного развития Республики Узбекистан при формировании государственных научных программ прикладных и инновационных исследований на 2019-2021 годы организовало конкурсы проектов по разработке современных технологий выращивания солодки и других лекарственных растения, и в результате проведенных исследований изучаются полезные свойства растения

Extensive work is being carried out in the district to ensure the implementation of the decision of the Cabinet of Ministers of the Republic of Uzbekistan dated February 15 of this year "On additional measures to effectively organize the cultivation and industrial processing of kyzilmiya

and other medicinal plants". This can be seen in the example of the activity of the Uzbek-Chinese joint venture in the form of "Lanko Miya" limited liability company.

Licorice is a perennial legume weed. The stem is branched, rough, 40-150 cm tall, grows upright. The leaves are complex, dark feathery, long. The flowers are purple, collected in a bunch. The fruit is an elongated pod. It blooms in April and June. It is propagated by seeds and vegetatively from rhizomes. The root system develops strongly, penetrates to a depth of 3 m. Above-ground branches are formed from rhizomes, the seeds are hard-shelled, and germinate at 30-35°. It is distributed in all regions of Central Asia, including Tashkent, Fergana, Kashkadarya regions. It is found among all legumes, especially alfalfa and cereals, along irrigation canals, ditch banks, orchards and vineyards. Control measures: removal of root residues during tillage; after the emergence of sprouts, deep tillage between crop rows; spraying herbicides on cereal crops. Licorice is described as a "miracle plant". It's not for nothing, of course. Because more than 110 types of medicines are obtained from it, and it is used in 20 areas of industry. This feature is rare in other plants. The licorice type of this plant is widespread in our republic, and it grows naturally.



Dry and dark extracts made from licorice roots are used for colds, tuberculosis and diseases of the lungs, liver, respiratory tract and cardiovascular system, normalization of metabolism, gout, oncology, food poisoning, stomach, gastric and duodenal ulcers, skin burns, as well as , recommended in other diseases. In the food industry, licorice root is used in the preparation of calorie-free drinks, confectionery and bakery products, jam, molasses, preserves, food concentrates, chewing gum, toothpaste and others. If colored paints are obtained in light



industry, they are used in the metallurgical industry for hydrolyzing metals, in the chemical industry for the preparation of ink, and for coloring paper. Its waste can be used to produce products such as paper thermal insulation board and paper. Therefore, today this plant is in high demand in the USA, Great Britain, Holland, Japan, Germany, Hungary, China, South Korea and many other countries. Licorice is also very useful in agriculture. For example, if 1 milligram of the active substance extracted from it is mixed with 1 liter of water and treated with potatoes, the indicator of bud awakening increases by 28 percent. budding and flowering phases are accelerated, resulting in a 17 percent increase in yield. Thanks to the scientific research carried out in our country, the morphological anatomy and reproductive biology of licorice, methods of growing it in different conditions were studied. In particular, it has been proven that the plant develops well even in the salty soil of Mirzachol, and is a powerful ameliorant that increases soil fertility. This method has been found to be particularly effective in crop rotation. Licorice root also penetrates the gypsum layer of the soil and feeds on groundwater. Therefore, it can be maintained even under natural humidity conditions. It is advisable to expand the cultivation of licorice, which exerts its mysterious influence on the soil, and no part of it is thrown away as waste. The decision of the Cabinet of Ministers No. 138 dated February 15 of this year "On additional measures to effectively organize the cultivation and industrial processing of sedum and other medicinal plants" is particularly significant as it raises the work in this regard to a new level. After all, according to this decision, the "Association of Licorice Plant Cultivation and Processing Organizations" was established, and during 2019-2023, it is planned to increase the planting of licorice to 25,000 hectares in the Republic of Karakalpakstan. At the same time, it was shown that licorice can be planted in areas with a low score. Because the salinity level of the soil on the land where licorice is grown for 5 years is reduced to 2.5 times, and it is saturated with nitrogen and humus. According to estimates, 20 million soums can be spent on one hectare of unprofitable land for 5 years, and 14 tons of plant roots can be obtained. Its price is high in the world market. In addition, 8,000 tons of dry products are obtained from the stem of the crop. Land reclamation will improve and productivity will increase. If no other crop is planted on the land from which the root crops were harvested, by performing the necessary agrotechnical measures, it is possible to restore the plant and harvest the crop every year above the ground, and after 4 years from the ground. This is extremely useful for both farmers and entrepreneurs engaged in this work, in short, for our economy. It is important that the works that have entered a new stage under the initiative of the head of our state serve such noble goals. Medicines containing licorice root have expectorant, emollient properties. Its healing properties help in the accelerated healing process of stomach ulcers. The beneficial effect of such drugs is due to the high content of glucose, fructose, carbohydrates and organic acids. The sweet taste allows people with diabetes to use licorice as a sweetener. In addition, first of all, the presence of a number of useful acids, glycyrrhizin, makes it possible to take drugs based on licorice root for the relief of symptoms and the treatment of poisoning and infectious diseases.





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It should be noted that licorice syrup has received excellent recommendations from pediatricians. They prescribe this drug to children, even in the first weeks of their lives. It is a universal remedy for cough in babies, as well as diseases of the gastrointestinal tract, antipyretic. Licorice root is a really natural product, and it is not scary to give it to a child, worrying that it contains a large amount of harmful substances. Licorice root is also useful for women who want to lose weight. Its use in the field of nutrition has given positive results. Licorice helps restore damaged metabolism and has a laxative effect. With the help of drugs based on licorice, you can cleanse the body of toxins, normalize digestion, and get rid of stomach ulcers. It has a beneficial effect on the nervous system - stabilizing and calming it.

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