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Coriander seed - valuable Aromatic crops

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The article substantiates the main directions of use, condition and prospects of growing coriander in Ukraine and in the world. The article shows the main advantage of coriander seed among the major aromatic crops. Coriander is very popular and growing in many countries.

Keywords: coriander seeds, the area under cultivation, sort, seed in grate, yield, fertilizer.

In Ukraine and world practice the modern development of the food, cosmetic and medical industry depends on the availability of raw materials essential oil plants. With widespread aromatic crops deserves special attention coriander seed is cultivated for seed and leaf mass.

Unlike other aromatic plants the seeds of which almost no vitamin C group, coriander seeds contain enough vitamin C. 100 g coriander seeds contains 21 mg or 35% of the partition vitamin. In addition, the seeds are indeed the source of many essential vitamins B complex, such as thiamin, riboflavin and niacin.

Coriander oil cake contains 6-8% fatty oil, 17% protein and is a valuable food for animals. The straw is also used as a dietary mean and for strengthening of selection of milk.

A large role in the improvement of feed base of beekeeping is played by high – nectar ether- oil and medical plants. In Ukraine this culture is most widespread in the South areas and in a forest-steppe area. These plants can be sown

near apiaries for the improvement of honey balance. It is such plants as coriander, anise, peppermint and prylutsky, sage, thyme, valerian, lavender and others.

Coriander is good honey' plant, it gives honey under favorable conditions 100 kg / ha sowing. Nectar is selected in hot weather. In addition to weather conditions, the terms of sowing influence on a selection nectar. At the belated terms coriander less productive than at optimum time.

Essential oil and linalool used in canning, confectionery and bakery industry, fat coriander butter is used in the soap, printing and textile industry and for the receipt of oleic acid.

In the food industry coriander seeds used in milled form. Coriander' mature seeds of is used in combination with other spices that give dishes a sweet taste. In cooking it is used in salads, rice, sauces, cheeses, soups, sausages, sausages and other meat products.

Coriander seeds are a great home remedy for disorders of the digestive tract or urinary tract.

Coriander helps establish the stomach, helps break down food. This is a good remedy for removing toxins removal of heartburn and abdominal pain. If you drink coriander' tea, skin visibly refined, in addition, there is healing and strengthening the mucous membrane of the stomach wall.

Coriander is grown in many countries in Europe, Asia, North Africa, America and Australia. In Ukraine coriander began to grow in the 30s of the XIX century. Coriander is grown in the Central Black Earth region, the Volga region, the North Caucasus.

Today the production of seeds of coriander most advanced in the Russian Federation, India, Morocco and the Netherlands. Green coriander plant is widely used in Latin American, Indian and Chinese cuisine.

Coriander crop area is small today and in recent years they have fallen. In addition, seed yield is not high, and gross fees not great.

Coriander is the largest area sown among aromatic crops sown area in Ukraine. In 2012 it amounted to 14,379.86 thousand ha., and in 2014 it fell to

10544.69 hectares.

I want to add that at this time in terms of production capabilities culture is not fully implemented, only 25 - 30%, while high yield potential. Coriander seeds are imported from abroad. This gives a rise in prices of products, which is related to the use of materials of this culture.

Recent studies show that yields seed, coriander seed depends on many elements of the technology, including the variety, seeding and mineral nutrition level.

As result I want to say that the level of mineral nutrition and seeding is the most effective for harvest coriander.

References

1. Агрокарта України, карта посівів 2013, посівні площі, агросправочник online, agromap [Режим доступу]: <http://koriandr.4sg.com.ua/agromap> 2013.php.
2. Бабичев В. А. Выращивание высоких урожаев семян кориандра / В.А. Бабичев // Селекция и семеноводство. – 1965. – № 3. – С. 17-18.
3. Бекетовский Д. Н. Введение в изучение лекарственных ароматических растений /Д. Н. Бекетовский – М.: Сельхозиздат. – 1937. – 174 с.
4. Загуженников В. Б. Возделывание лекарственных растений в условиях Западной Сибири и Центрального Казахстана / В. Б. Загуженников, С. Е. Дмитрук, Т. Н. Загуженникова. – Томск: Изд-во научно-технической литературы, 2001. – 196 с. Ил.
5. Кориандр / [под ред. канд. с.-х. наук Паламаря Н. С., Хотина А. А.]. – М.: Сельхозгиз, 1953. – 118 с.
6. Мозговой И. И. Опыт выращивания высокого урожая кориандра / И. И. Мозговой, А. И. Козлов // Земледелие. – 1956. – №6 – С.19-21.
7. Назаренко Л. Г. Эфиромасличные, пряно-ароматические и лекарственные растения / Л. Г. Назаренко, Л. А Бугаенко // – Симферополь: Таврия. – 2003. – 201 с.

8. Ghobadi M. The Effects of Sowing Dates and Densities on Yield and Yield Components of Coriander (*Coriandrum sativum* L.) / M. Ghobadi // World Academy of Science, Engineering and Technology. – V.70. – 2010. – P. 81–84.

9. Msaada K. Changes on essential oil composition of coriander (*Coriandrum sativum* L.) fruits during three stages of maturity / K. Msaada, K. Hosni, M. B. Taarit // Food Chemistry. – V.102. – 2007. – P.1131–1134.

10. Zheljazkov V. D. Cultivar and sowing date effects on seed yield and oil composition of coriander in Atlantic Canada / V. D. Zheljazkov, K. M. Pickett, C. D. Caldwell, J. A. Pincock, J. C. Roberts // Industrial crops and products. – 2008 – №28 (1). – P. 88–94.