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Title **An Alternative Choice In Complex Climates**

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An Alternative Choice In Complex Climates

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Annotation: This article discusses the role of pecan in the development of forestry in our country; Experiments and studies on the tolerance of pecans to any climatic conditions and their growth in soils of different composition are described in detail.

Key words: pecan, phenological observation, saline soil, gray soil, sharp continental.

As we all know, global warming, sudden changes in climate and various vagaries of nature have already become a global problem today. A number of works carried out in Uzbekistan to preserve and develop ecologically sustainable, including plans and measures for the implementation of the national project "Green Space", are a clear example of raising this issue to the level of public policy in our country. It is advisable to turn every sapling planted during

this project into a tree, to plant trees that are suitable for our climatic conditions in the perfect implementation of the project.

Originally from North America, Pekan (Carya Pekan (Marsh.)) Walnuts were brought to Europe in the 18th century, and in 1926 to Uzbekistan at the Bostanlyk branch of the R.R. Schroeder Institute of Horticulture, Viticulture and Enology.



Since 2009, 2 species of this plant have been studied in the Scientific Production Botanical Garden of the Academy of Sciences of Uzbekistan. As a result of studies and observations, experiments were carried out in Andijan district, Kurgantepa district and Ulugnor district of Andijan region to study the plant's ability to adapt to different soils and different climates.



Andijan district and Kurgantepa district have gray soil, fertile, non-

irrigated hills. Compared to other districts, the winter is frosty, cold to -50 degrees. Phenological observations revealed that the pecan walnut tree is more cold-resistant and viable than the local walnut tree. In contrast, the territory of Ulugnor district consists mainly of sandy and loamy soils, and the climate is sharply continental, warmer than other districts: the summer of July and early August is 50-560 degrees. Observations in this area have shown that the pecan walnut tree has up to 70% flexibility in hot conditions in sandy and loamy soils.

In the regions	Climatic conditions	Soil composition	Growth height per month (cm and mm)
Tashkent, Botany	Continental, dry summers	productive	2sm, 8mm
Andijan district	continental	Fertile, partially gray soil	2cm, 9mm-3sm, 2mm
Kurgantepa district	Continental, winters cold, summers dry	Fertile, gray and partly clay	2cm, 6mm-2sm, 9mm
Ulugnor district	Sharp continental, hot summer	Sandy and loamy	2smm-2sm, 6mm

Given the presence of mountains and hills in the country, the different climates and conditions of the regions and the diversity of soils, as well as the life of the pecan walnut

tree 300-400 years, the establishment of pecan orchards or forests is important for long-term greenery and environmental sustainability is important.

References:

1. Желтикова Т.А. Выращивание посадочного материала в поливных питомниках Узбекистана. Ташкент, Узбекистанский научно-исследовательский институт лесного хозяйства, 1949.90 с.
2. Мамаджанов Д, Джумабаева С. Рекомендации по отбору лучших форм и выращиванию посадочного материала ореха грецкого. Бишкек, Проект Биоверситй Интернационаи/УНЕП-ГЕФ, 2010. 15 с.
3. Холдоров У.Х., Лукин Н.Ф. Рекомендации по выращиванию ореха грецкого в Таджикистане // Ташкент, Среднеазиатский научно-исследовательский институт лесного хозяйства, 1973 .16 с.
4. Шевченко В.С. Скороплодные формы ореха для промышленного производства .Фрунзе, «Кыргызстан», 1987. 20 с.
5. Қайимов А.Қ., Бердиев э.Т. Дендрология (дарслик). Тошкент, —Фан ва технологиял, нашриёти, 2012. – 288 б.
6. Сорта плодовых, субтропических, орехоплодных культур и ягод, Т., 1968; Ри-баков А. А., Остроухова С.А., О‘збекистон мевачилиги, Т., 1967.
7. Кордон Р. Я. Пекан, фисташка. Культурная флора СССР, т. XVIII, 1936.
8. А. А. Качалов. Деревья и кустарники Москва 1970.