

BLOSSOMING DYNAMICS OF APRICOT TREE IN TERMEZ CITY

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A great attention is being paid to the development of horticulture in our republic nowadays. The analysis of the climatic conditions of the Surkhandarya, region in the south of Uzbekistan, showed the existence of great opportunities for the development of horticulture. Particular consideration is being paid to fully supplying the needs of the population with food products, fully satisfying consumer demand with fruit and grape products, and increasing the export potential on the scale of the republic.

The soil and climate conditions are different in the regions of Uzbekistan and have a strong influence on the growth and development of agricultural plants, productivity and other important economic indicators [2].

It requires the creation of varieties adapted to its local conditions for each region and testing them under specific conditions. For this reason, it is expedient to create a gene pool of fruit trees and to organize collections of fruit crops in areas where the soil and climate conditions are very dissimilar from each other. Today it is necessary to breed high-yield fruit varieties that are adapted to different regions of the Republic, resistant to pests and diseases. The atmosphere of the southern region of our republic - Surkhandarya region are sharply continental, high air temperature and low humidity during the growing season have a negative effect on the condition of plants. Resistance to heat and drought is the most important biological characteristic in these regions. The temperature regime is different in the regions of the republic, in the northern regions the air temperature changes, and, its sharp decrease is observed in the late autumn and winter months. The resistance of fruit crops to low temperatures is important in these districts. Winter cold resistance is an essential feature. The temperature is much higher in the southern areas throughout the year. The winter

season is quite mild and fruit trees are rarely damaged by low temperature. The average temperature in Surkhandarya region does not fall below 0°C even in winter months. The average absolute minimum temperature is -12-15°C, and the probability of damage to fruit crops in the winter season is very low. The climate is high (above 50°C) and the humidity is low in summer. The degree of resistance of the plant to heat and drought is the most important biological characteristic in such conditions. Sufficient light and heat factors, the length of the growing season allow the rapid growth and development of fruit crops and high yields. The presence of varieties that ripen in different periods makes it possible to provide the population with wet fruits throughout the year.

Observations were made in the collections of local varieties of apricot, apple, peach, plum, and almond trees in the soil-climatic conditions of Surkhandarya region, and early-yielding and late-flowering specimens were identified [1].

The dynamic of blossoming of the local apricot tree was investigated in the research. The flowering phase is considered the most important phase, it is a system that embodies the interdependence of all phenophases and the plant's adaptation to a new environment.

For example, a 5-year-old apricot tree began to bloom in the climate of Termiz from the first of March this year. Full flowering was observed on the 4th - 5th day of March, and flowering was completed on the 7th - 8th day. The air temperature was 15°C on March 1 and the relative air humidity was 78%. The indicators were correspondingly 16°C, 71% during the flowering period of the tree and a slight increase in air temperature was observed at the end of flowering. Fertility of apricot flower pollen grains was determined by staining with acetocarmine dye. Fertility of pollen was 98%. Heavy rains and adverse winds were not observed during the flowering phase of the apricot tree. Abundant fruiting phase was observed in the barren soil of the irrigated meadow of Termez city.

Thus, it was determined that there are suitable soil and climate conditions for the growth and development of a promising apricot tree in the southern region of Surkhandarya. Researches are being continued in order to isolate and recommend for production promising local variety samples that are being cultivated.

REFERENCES

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