STUDY, EVALUATION AND IDENTIFICATION OF SOPERIOR GENOTYPES OF WALNUT IN KERMAN PROVINCE

M. MOZAFFARI

Agricultural Research Center of Kerman

Walnut "juglans regia" is one of the important fruit bearing trees, Species of its genus "juglans" are grown to China, Japan. India, Iran and another regions of the world. The most important native walnut species in Iran is "juglans regia"

In 1999, there were 82829 hactars walnut trees in Iran and Kerman with 9218 hactars is one of the major walnut growing regions in Iran.

This study was started in 1995 and ended in 1998 and in finally 51 superior walnut genotypes were selected.

Biotype collection and evaluation

Rabor 2. Baft 3. Bardsir 4. Zarand 5. Raien 6. Sardoiae 7. Dehbacri
Observed characteristies were majored from tree, fruit and kernel and 23 characteristies, were noted.

Frequency distribution of some characteristies the genotypes indicated that 37% of them have more than 50% lateral buds producing pistillate flowers and 52% of them produce high yield, Fruit shape in the 50% of genotypes is short rectangular.

Multyple regression and correlation cofficients between some of the characteristies were determined and results indicated that:

A. there is significant correlation between time of leafing and lateral buds producing pistillate flowers.

B. Kernel color is significantly affected by yield and time of harvesting.