

## **Determining the best method to accelerate the bearing of citrus artificial hybrid seedlings.**

**Y.Ebrahimi and Y.Mohammad Alian**

**Citrus Reseach Institute, Ramsar.**

Some crossing are done in west Mazandaran research stations every years. Seedling produced by this method will bear after at least 6 years. Many method have been conducted to reduce this time. Nowadays , it is found that by grafting on the 15-20 years old trees, this time can be redsuced (to less than 5 years). According to results obtained from preliminary researches, one experiment in randomized complete block design with 4 replications was conducted. In each replicayion 6 buds of each seedling were grafted on three branches of nucellar "Onshow" cultivar trees, in different sides. When this bud, grew and reached to 40Cm length , an experiment with 4 treatments and in two years was conducted. Treatments were as follows:

- 1- Using gibberlic acid with 150ppm concentration in 3 times and with 25 days interrals from early May.
- 2- Gibberelic cid with 150 ppm concentration and ringing on branches created from budding in 20 cm height.
- 3- Ringing
- 4- Control, without hormone and ringing

The results shows that some of the cultivars in second year and all of the cultivars in 3rd year producted fruit and ringing treatment was the best treatment in fruit number.