Investigation and identification of the best time for using complex microelement fertilizer and the effect on alternate bearing modification of Thomson novel orange .

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At the present , citrus gardners in this region have a little information about positive effects of microelements on the quantity and quality of fruit and alternate bearing modification . For these reasons decrease of product quantity observation of alternate bearing and clear and hidden effects of microelements deficiency and with attention to positive effects of *microelements in plant physiology this research* was conducted in a Roudomized Complete Block Design with 10 treatments and 3 replications . we used two trees for every treatment and finally 60 trees were used in this research .

Treatments were prepared at different times of spray that consists of :

1. treatment O as control without spray .
2. Treatment A spraying before flowering .
3. Treatment B spraying before junedrop (the final natural fruit drop)
4. Treatment C spraying between junedrop and break fruit color.
5. Treatment D spraying in the stage of break fruit color from green to yellow .

Other treatments were the combinations between the above times means, that is to say:

6. Treatment AB 7. Treatment AC
8. Treatment BD 9. Treatment AD
10. Treatment ABD

In these treatments Zarba microelement fertilizer with dose (4/1000) were