

Study on the effect of (GA3) and Ethephon on breakdown dormant seed potato.

H.Rowshanzadeh.

Fars Agricultural organization

Horticultural expert in fars Agricultural organization

Potato is the third crop after wheat and rice , which could be cultivated according to different climatical conditions in all over the country .Potato is cold season crop. One of the most important problems of Production of this crop is adjestment of date of sowing , because dormant seed can not germinate.

In this study the natural anizam compund which is caused the dormancy of the seed in potato, i.e. gelotantin is studied. At the end of dormancy proid the oxidation and reduction in cortex tissues caused the changes in this chemical compund which can be used with different materials and methods to remote the dormancy seeds.

In this study we use (GA3)and Ethephon in four concentrations in two diffetent tempraturs GA3 was 2.5 and 5 milg/liter and Ethephon was 100 and 150 conditions such as 10 and 25 oC. milg/liter.

GA3 sprayed in 3 second on seeds and a bout Ethephon concentration put in solition for 18 hours in 10 and 25 oC.

Analysise of date showed that the best results obtained of using GA3 in 2.5 milg /liter in compare with other concentrations.