Effect of salt stress caused by sodium chloride on growthpattern in three commercial cultivars of pomegranate and determination their relative salt resistance.

Eng. M. NAINI & DR.H.LESSANI

1- Soil and water research division of Qom province

2- Tehran university - college of agriculture.

The effect of salinity stress on three commercial cultivars "Alak torsh , Malas torsh , Malas shirin " of pomegranate for determination salinity resistance was investigated.

After rooting of cuttings , they were planted in the plastic pots contained sand: perlite (1:1) medium and irrigated with complete hoagland´s solution immediately. After three weeks , the plants were treated with different concentration (0,40,80 and 120 meq/lit) of sodium chloride solution.

These treatments continued during 80 days with irrigation water the effect of Nacl on growth indices (stem lenght, leaf area , number of internodes and distance of internode) , were measured.

The results showed that growth of cultivar " Malas shirin " is higher than cultivar "Alak torsh " and cultivar " Malas torsh " but differences among growth rate of three cultivars weren´t significant.