



Recognition & Estimation of Damage Caused by Reduction of Boushes in Cotton Products *

Dr. M. Arabsalmani & E. Baniani**

Abstract

In order to find out the effect of plant reduction on cotton yield, numbers of experiments in form of CRB with four replications were conducted in different regions such as Gonbad, Gorgan, Karkandeh, Hashemabad and Varamin with six cotton varieties that were different in patent of vegetative growth. The numbers of plant or boushes per hectare were between 50000 to 166000 and the numbers of data taking plot were 240 with 50 square meters in size. The result showed that if cotton is planted according to recommended boushes population (80 * 20) cluster and open varieties can tolerate 5 and 10 percent plant reduction without damaging yield production at vegetative stage of plant growth respectively. But if plant is in reproductive stage of growth the percentage of yield loss is equal to percentage of plant reduction. In multiple cropping such as melon and cotton due to high plant spacing (150 * 50) the percentage of yield loss will increase up to 33% compare to (80 * 20) plant spacing.

Key words:

Yield Loss Estimation, Cotton, Numbers of Boushes Reduction, Plant Population, Insurance.

* Released from several scientific research papers.

** Members of Scientific Board of Agricultural Research and Natural Resources Center of Tehran province

E-mails: mortezaarabsalmani@yahoo.com and ebaniani20@yahoo.com