

EFFECTS OF INBREEDING ON SOME AGRONOMICAL CHARACTERISTICS OF ORCHARDGRASS (*Dactylis glomerata* L.)

Metin TOSUN İlnur AKGÜN Sevim SAĞSÖZ

University of Atatürk, Faculty of Agriculture, Department of Field Crop, Erzurum-Turkey.

ABSTRACT

This research was carried out on the effects of inbreeding on some agronomic characteristics of orchardgrass in greenhouse in 1996 and 1997. Selfed and outcrossed progenies of four populations of wild orchardgrass were used. Selfing caused decrease in all characters except for crude protein percentage and root weight. The highest inbreeding depression was determined in seed yield and it reduced to 35.97% with selfing. Consequently, the plant number in a population should not be reduced in a selection programme where selfing is not desirable.