OSMOTIC ADJUSTMENT AND SEED YIELD OF DRY BEAN UNDER DROUGHT

Barrios-Gomez, E.j/*, C. López-Castañeda\ J. Kohashi-Shibata\ J.A. Acosta-Gallegos^ S. Miranda-Colin^ and N. Mayek-Pérez^

^Colegio de Postgraduados, Montecillo, México. 56230

^Campo Experimental Bajío, INIFAP, Apdo. Postal 112, 38000, Celaya, Gto. México

^Centro de Biotecnología Genómica, Instituto Politécnico Nacional, IPN. C.P. 88710. Reynosa, México

Abstract

Osmotic adjustment has been reported for many crops, among others chickpea (Moinuddin & Khanna-Chopra, 2004), wheat (Silva-Robledo *et al*, 2007) and bean (Villarreal & Larqué-Saavedra, 1983), but its relationship with seed yield imder drought has not been reported in dry bean. The objective of the present work was to determine if there is causal relationship between osmotic adjustment and seed yield in several bean cultivars from Central Mexico.