Gomal Univ. J. Res. Vol. 13 No. 1. (1993), pp 75 - 84 Printed at D. I. Khan, Pakistan, in Dec. 1994.

OF SHOOT FIRST AND SECOND HARVEST OF SUNFLOWER (Helianthus annuus L.) VARIETIES

Muski-Alam Khan, Mohammad Umar Khan and Mirza Ali Faculty of Agriculture, Gomal University, Dera Ismail Khan.

Eid-ur Rehman and Abdul Manan Department of Chemistry, Islamia College, Peshawar.

Received: 19-06-91 Accepted: 29-08-92

ABSTRACT:

In an investigation the effects of calcium chloride and sodium chloride induced salinity on Na⁺, K⁺, Ca⁺⁺ and Cl contents of shoots of four sunflower varieties grown for one month (first harvest) and two months (2nd harvest) respectively were studied during year 1989. Na⁺ and Cl contents in plants of both the harvests increased with salinity levels while K⁺ was adversely affected and Ca⁺⁺ was nonsignificantly affected by salinity. Significant variations were recorded in Na⁺ and Cl in plants of first harvest of different sunflower varieties. K⁺ was only significantly differed in second harvest, whereas Ca⁺⁺ did not vary significantly in varieties.

The highest Na and Cl were recorded in T (12 dsm), whereas K was the lowest in T (12dsm). Variations in Ca were non-significant. Variety NK212 contained the lowest Cl content and Variety NSH-45 contained the higest K content.