EFFECT OF ROW SPACING AND FERTILIZER LEVELS ON THE YIELD OF GROUNDNUT VARIETY BANKI UNDER RAINFED CONDITIONS.

* YOUNIS M. AND **GHULAM AHMAD CHOUDHRY

* Assistant Agri. Chemist, Fodder Research Institute, Sargodha.
** Director General Agri. (Research), AARI, Faisalabad.

ABSTRACT

A field experiment to assess the effect of fertilizers cum spacings on the yield of groundnut variety Banki at Barani Agricultural Research Institute, Chakwal was conducted. Four fertilizer levels (0-0-0, 20-40-0, 20-80-0 and 20-80-20 NPK Kg/ha) and two row spacings (30 and 45 cm) were tested. The fertilizers has significant increase in pod yield as compared to control. Whereas row spacing proved non-significant. The interaction of fertilizers and row spacing also showed non-significant effect on the pod yield of groundnut. Among the NPK fertilizer levels, 20-80-20 NPK kg/ha gave the highest pod yield of 1341.44 kg/ha and with the increase in phosphorus level the pod yield also increased.

INTRODUCTION

Groundnut (Arachis hypogaea L.) is an important cash crop of barani areas and Rowalpindi Division which constitute the 87% of the total produce of the Punjab. It has high nutritional value due to higher oil and protein contents. The farmers of barani areas depend on this crop as main source of income. The average yield per hectare is very low (1200Kg/ha) as against yield potential of up to 4000 Kg/ha. Besides other constraints, limited use of fertilizers and poor agronomist practices are important factors limiting high yield. Mostly this crop is sown on sandy loam soils, which are deficient in major plant nutrients. Hence there is an ample scope to increase the yield of groundnut by judicious use of fertilizers. No appreciable work on fertilization and spacing on the pod yield of groundnut has been carried out, therefore these studies were conducted on groundnut variety banki to determine the optimum fertilizer requirement of NPK and row spacing under rain fed conditions.

Some information on the subject is available and the work done is reviewed as under:-