FERTILIZER AND IRRIGATION MANAGEMENT FOR WHEAT (*TRITICUM AESTIVUM L.*) ON A FERTILIZER RESPONSIVE SOIL

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ABSTRACT

Effect of different combinations of NPK at various irrigation levels was investigated on the growth and yield of wheat cv. Kohinoor-83 on a sandy loam soil. The experiment was conducted during 1986-87. Fertilizer treatments comprised 0:0:0, 50:50:50, 100:50:50 and 100:100:50 kg NPK ha^{-1} respectively and two irrigation levels i.e. four and five irrigations were tried. Grain yield increased progressively with increasing NPK rates. Maximum grain yield (43.87 q ha^{-1}) was obtained with 100:100:50 kg NPK ha^{-1} which was 67.7% higher than control. Germination was not affected, while yield components like fertile tillers, grains per spike and 1000 grain weight were affected by fertilizer treatments. Irrigation treatments proved to be similar. Nutrient-grain ratios, 8.42and 8.15 were obtained by using 100:100:50 and 100:50:50 kg NPK ha^{-1}, respectively. Maximum benefit was found with 100:50:50 kg NPK ha^{-1}.