



Evaluation of a Customized Fertilizer on Wheat

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Abstract: An experiment was conducted at two sites in Punjab state to evaluate the effect of a customized fertilizer (CF) with grade 16:24:9:5:0.7(N: P: K: S: Zn) on yield and yield attributes of wheat crop (var PBW 550). The treatments involved considered a manufacturer-recommended dose of CF (MRDCF) providing basal 60kg N ha⁻¹, 90kg ha⁻¹ P₂O₅, and 35kg K₂O ha⁻¹ as standard dose (100% MRDCF). The other treatments involved graded doses of CF from 0 to 150% MRDCF through 50, 75, 100, and 125%. An additional comparison treatment involved use of CF as per state recommendations for N and P. The CF effect evaluated through observations on plant height, effective tillers, spike length, spike weight, 1000-grain test weight, grain and straw yield, agronomic efficiency of N (AE_N), benefit-cost ratio, net returns, etc. indicated that using CF as per state recommendations gave the best results.

Key Words: Punjab, Customized fertilizer, Yield attributes, Wheat
