



Seed Treatment Affected Yield and Economic Returns of Nebraska Winter Wheat Genotypes

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ABSTRACT Proper management of insect-pests can reduce winter wheat loss in the Grain Plains of the United States. The objective of this study was to determine the effects of seed treatments (EverGol® Energy; a fungicide, Gaucho®; an insecticide, and both) on grain yield and net economic returns in six Nebraska winter wheat genotypes grown under rainfed conditions (2-sites and 2-years). Treating seeds with EverGol® Energy and Gaucho® combined increased grain yield (up to 770 kg ha⁻¹) and net returns (up to US\$ 187.47 ha⁻¹). However, seed treatment did not improve grain protein content. This study showed that combined fungicide and insecticide seed treatment could improve wheat grain yield and economic returns.