

Effect of Poplar based Agroforestry Model on Growth of different Varieties of Wheat

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Abstract—Present investigation was carried out under the supervision of Sam Higginbottom University of Agriculture, Technology and Sciences, Prayagraj to examine the performance of different wheat varieties i.e. under open condition and poplar based agroforestry system. The experimental plots laid out in randomized block design with 12 wheat varieties, viz. VL Gehun 401, VL Gehun 404, VL Gehun 421, VL Gehun 616, VL Gehun 719, VL Gehun 738, VL Gehun 802, VL Gehun 804, VL Gehun 829, VL Gehun 832, VL Gehun 892 and VL Gehun 907 with two farming land-use systems i.e. open condition and poplar based intercropping. The yield under open condition (37.24 q ha⁻¹) and under agroforestry condition (36.40 q ha⁻¹) were recorded in variety VL Gehun 804 followed by variety VL Gehun 829 variety with 37.04 q ha⁻¹ and 36.71 q ha⁻¹ under open and agroforestry system respectively. Straw yield significantly affected by open condition and agroforestry system, VL Gehun 832 produced maximum straw yield i.e. 53.99 q ha⁻¹ and 54.33 q ha⁻¹ followed by variety VL Gehun 892 i.e. 53.76 q ha⁻¹ and 54.31 q ha⁻¹ under open and poplar based agroforestry system respectively.

Keywords- Intercropping, land-use system, significantly, performance, affected, poplar.