

## COMPARATIVE EVALUATION OF TRUE POTATO SEED FAMILIES WITH COMMERCIAL VARIETY DIAMANT

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### ABSTRACT

True potato seed (TPS) is the tinny tomato like botanical seed of potato (*solanum tuberosum*). Production of TPS is an alternative technology that is scientifically sound, technically feasible, economically viable and eco-friendly. There is a great potential to adapt TPS families in commercial crop production. The experiments were conducted during autumn 2006-07 and 2007-08 at Potato Research Station Sialkot, to compare TPS mini tubers produced after nursery raised with normal sized seed of commercial variety Diamant. It was concluded from the study that all the TPS families yielded higher than commercial variety Diamant. During autumn 2006-07 TPS families, Serana x TPS 47, Serana x TPS 13, Serana 7 x TPS 67, Serana 15x TPS 13 produced, 24.85, 23.28, 22.75 and 20.82 tons ha<sup>-1</sup> respectively, while Diamant variety produced 20.47 tons ha<sup>-1</sup>. Similarly during autumn 2007-08, TPS families Serana x TPS 47, Serana x TPS 13, Serana 7 x TPS 67, Serana 15 x TPS 13 produced, 27.77, 25.79, 24.60 and 23 tons ha<sup>-1</sup> respectively. The Diamant variety during this year yielded 19.84 tons ha<sup>-1</sup>. However, in both experiments TPS family Serana x TPS 47 gave the highest yield 27.77 tons ha<sup>-1</sup> than other families.

**Keywords:** Mini tubers, normal seed size, potato tubers, *solanum tuberosum* L., TPS.