

Effect of Tuber Size and Nutrient Source on the Yield of Yam (*Dioscorea sp.*)

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Abstract

A field experiment was conducted at a private forest at Kalyanpur, Chitwan from March to January of 2018/2019 to evaluate the effect of different tuber size and nutrient source on the yield of yam (*Dioscorea spp.*). The experiment was laid out in a factorial Randomized Complete Block Design (factorial RCBD) with two factors i.e. tuber size viz small tuber size (<50 gm.) and large tuber size (100-150 gm.) and nutrient source viz farm yard manure, chicken manure and forest soil, replicated four times. The use of large size tubers has a significant effect on the yield of yam, higher yield (3.05 kg.) with large tuber size. Similarly, the interaction between tuber size and nutrient source was also significant on the yield. The highest yield (3.23 kg.) was made from the large size tuber (T1) and farm yard manure (M1) followed by the large size tuber (T1) and chicken manure (M2). The smallest yield (2.25 kg.) was from the interaction of small tuber size (T2) and farm yard manure (M2). Therefore, the use of a large size tuber (100-150 gm.) with farm yard manure as the nutrient source can be recommended to increase the yield of yam.

Keywords: *Dioscorea spp.*, tuber size, nutrient source, farm yard manure