

B-74: Effect of different rates of poultry manure on tomato yield in the upcountry intermediate zone

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Use of poultry manure in combination with chemical fertilizer is a common practice in tomato. Farmers in this region apply variable quantities of poultry

manure to tomatoes. An experiment was therefore, conducted to determine the suitable rate of poultry manure for tomato cv. T-244 in this region.

The effect of different rates of poultry manure application (0, 2, 4, 6, 8,10 and 12 t ha⁻¹) with and without recommended level of NPK chemical fertilizers (90 kg N, 150 kg P₂O₅ and 80 kg K₂O ha⁻¹) on tomato yield was studied at Bandarawela. The experiment was arranged in a randomized complete block design with two replicates.

Application of poultry manure at 10 t ha⁻¹ significantly increased the yield of tomato (30.1 t ha⁻¹) over no manure application (10.2 t ha⁻¹). However applicaion of poultry manure over 10 t ha⁻¹ proved detrimental to the yield of tomato. The application of chemical fertilizera also significantly increased the yield of tomato (22.7 t ha⁻¹) over no chemical fertilizer application (18.8 t ha⁻¹).

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