

Influence on by -products of biogas generators on growth and development of Curry Chilies

An experiment was conducted at the Faculty of Agriculture, University of Ruhuna, Mapalana. During December - May 1998 /1999, assess the growth development and yield of Curry Chilies as influenced by digested materials coming out from Sri Lankan and Chinese type Biogas generators.

The experimental design was a Complete Randomized Design (CRD) with six treatments and four replicates, *viz.* straw, digested straw and cowdung, slurry coming out from Chinese type biogas digester, chemical fertilizer (urea, Muriate of potash, Concentrated Super Phosphate) and control with out fertilizer. Observations were made on plant height, number of flowers and fruits produced per plot, and the yield.

It was revealed that digested straw and straw significantly influenced Curry chilies whereby increasing the yield. The highest yield gain was obtained when plants were treated with digested straw (12.53 t/ ha). It could be concluded that yield of 12.53 t/ ha could be obtained under field condition at Mapalana in “Yala” season when digested straw material at the rate 10.3 t/ ha from batch type biogas generator is applied.

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