

Effects of Cattle, Pig and Chicken Manures on the Growth and Yield of Garland Chrysanthemum

Hsu-jen Fun, Yih-tyang Huang and Tsan-ru Chang

Summary

An experiment was conducted to study the effect of three organic manures at rate of 2 t/10a on the growth and yield of garland chrysanthemum and soil fertility under the structured house conditions. Results showed that no significant difference was found in seedling emergence, plant height, plant width, leaf number per plant, plant number per 1.2m² and yield between the chicken and cattle manure treatments and the check was noted. However, significant reduction in plant width and yield by pig manure treatment was observed. Chicken manure obviously increased the nutrient of K but not of N, P, Ca and Mg. After the harvest of garland chrysanthemum, the soil pH value in all treatments increased 0.7-0.8 unit. Available P, K, Ca, Mg in the soil increased 164-259 kg/ha, 6.0-27.1 kg/ha, 91-330 kg/ha and 169-206 kg/ha, respectively.

Key words: Manure, Growth, Yield, Garland chrysanthemum.