

**PROVIDING OF PHOTOSYNTHETIC BACTERIA (PSB) AND SEVERAL
TYPES OF LIQUID ORGANIC FERTILIZER (LOF) ON THE GROWTH
AND YIELD OF JAPANESE CUCUMBERS (*Cucumis sativus* L.)
ROBERTO VARIETY**

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ABSTRACT

The research aims to identify the interaction of providing PSB and types of LOF on the growth and yield of Japanese cucumbers. The research used the factorial RAKL field experiment method (3x3) + 1 control, repeated 3 times. The first factor was the concentration of PSB consisting of 10, 20 and 30 ml/L, the second factor was the type of LOF consisting of LOF of golden snails, banana weevils and rabbit urine. The data obtained was analysed using a variance level of 5%. To determine the real difference between the treatment and the control, an Orthogonal Contrast test at a 5% level was carried out, followed by a DMRT test at a 5% level to determine whether there were any real differences between the treatments. The results showed significant differences between the treatment and the control in plant length at 2, 4 and 5 WAP, number of leaves at 3, 4 and 5 WAP, plant dry weight, age at start of flowering and harvest, fruit length and diameter, total fruit weight per plant, plot, and hectares. The number of leaves, dry weight of the plant, age at start of flowering and harvest, length and diameter of fruit showed that there was an interaction as well as the best results from administering 20 ml/L PSB and rabbit urine LOF. PSB 20 ml/L gave the best results in terms of total number and weight of fruit per plant, total number and weight of fruit per plot, total fruit weight per hectare. Rabbit urine LOF gave the best results on total fruit weight per plant, plot and hectare.

Keywords: japanese cucumber, photosynthetic bacteria, golden snail, banana weevil, rabbit urine.