

EFFECTS OF RISOPLA V ORGANIC FERTILIZER AND LIME ON CHEMICAL PROPERTIES OF THE SOIL AND YIELD OF THE STICKY RICE VARIETY CK92 IN PHU TAN DISTRICT, AN GIANG PROVINCE

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Summary

The objective of the study is to evaluate the effects of RISOPLA V organic fertilizer and lime (CaO) on some chemical properties of soil and yield of sticky rice variety CK92. The following objectives: (i) evaluate the effects of organic fertilizer and lime on soil chemistry and (ii) growth and yield of CK92 sticky rice. The experiment was completely randomized (RCBD) with 5 treatments and repeated 4 times. The results of soil analysis showed a statistically significant difference between treatments fertilized through experimental seasons. For sticky rice variety CK92 with inorganic fertilized treatments combining RISOPLA V organic fertilizer and lime, the yield increased from 12% to 18% compared to crop 1 (winter-spring season 2018-2019). Experimental results have found a fertilizer formula for CK 92 sticky rice variety in NT5 treatment: 130 kg N - 46 kg P₂O₅ - 60 kg K₂O combined with 10 kg organic fertilizer RISOPLA V ha⁻¹ + 500 kg lime ha⁻¹ gave the highest yield. Organic fertilizer RISOPLA V and lime fertilizers show the ability of improving soil fertility to help sticky rice increase productivity significantly in the second crop.

Keywords: *Alluvial soil, CK 92 sticky rice variety, lime, organic fertilizer RISOPLA V, yield.*