TWO GREEN SUPER RICE VARIETIES GSR65, GSR90 AND APPROPRIATE TECHNICAL PROCESS OF INTENSIVE RICE CULTIVATION IN THE FIELDS OF TUY HOA, PHU YEN

Nguyen Trong Tung, Nguyen Duc Thang, Hoang Long, Nguyen Van Minh, Dang Van Manh, Ngo Thi Bich Diem, Le Thanh Tung, Hoang Kim, Tian-Qing Zheng, Zhikang Li

Summary

Topic “Selecting Green Super Rice variety - GSR with high productivity and quality, adapting to climate change in Phu Yen province” is led by Center for Plant Breeding and Technology of Phu Yen Province. The content of research includes six basic experiments on 12 rice varieties in three crops at two locations; four experiments for the production of five rice varieties selected in two crops at two locations, four production experiments of two new green-super rice varieties GSR65 and GSR90 selected and four experiments to determine the rate of nitrogen fertilization and amount of sowing rice seeds in two crops at two locations. The objective of the study is to select and identify two green-super rice varieties with high productivity and quality and to develop appropriate technical process of GSR rice cultivation in Tuy Hoa plain, the province's main granary. The experiment method is followed by national technical regulation QCVN 01-55: 2011 / BNNPTNT - Experiment of the value of cultivation and use value of rice variety. This report outlines the origin and bio-agronomic traits of two new super-green rice varieties GSR65 and GSR90 (details in two thematic reports) and the results of experiments to develop technical process of GSR rice cultivation for Tuy Hoa plain. Four experiments are conducted to determine the rate of nitrogen fertilization and amount of sowing rice seeds in 2 consecutive crops (winter-spring 2016-2017 and summer-autumn 2017) in intensive farming area in Hoa Thang commune, Phu Hoa district and Hoa My Tay commune, Tay Hoa district, Phu Yen province, for two promising rice varieties GSR65 and GSR90. Experiment results show that GSR65 variety is suitable for sowing seeds of 90 kg, nitrogenous fertilizer of 100 kg N; The GSR90 rice variety is suitable for sowing seeds of 60-90 kg, nitrogenous fertilizer of 100-130 kg N on the intensive nitrogenous fertilizer 80 P₂O₅ (500 kg Van Dien nitrogenous fertilizer), 90 K₂O (150 kg potassium chloride) and organic nitrogenous fertilizer of 10 tons of decomposed manure for 1 hectare.

Keywords: Green Super Rice GSR, GSR65, GSR90, sowing seeds, nitrogenous fertilizer, intensive farming area, Tuy Hoa Phu Yen rice field.