

RESEARCH STATUS OF PRODUCTION AND CROPS SYSTEM IN A SANDY SOIL AREA OF NORTH CENTRAL COAST, VIET NAM

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Summary

In recent years, at the same time complicated with the weather due to climate change, land in the North Central Coast of Vietnam in general and the sandy soil of Thanh Hoa to Thua Thien-Hue provinces in particular, tends to degrade significantly. Currently, in the North Central Coast of Vietnam cultivated mainly agricultural practice is no investment that is expected to lower crop yields. Lack of funding, lack of technical information, soil degradation due to erosion, nutrient leaching occurs exacerbated and poor infrastructure are major constraints to agricultural production here. Therefore, finding the appropriate plant structure combines balancing techniques and fertilizer to improve soil fertility is an urgent demand for sustainable agricultural production in this region. The study results on the sandy soil in North Central Coast showed that the types of use of mainly 2 rice, 2 rice + 1 vegetables, 1 rice + 1 vegetables, 1 rice and vegetables. The sandy soil used for vegetable, crop rotation and catch crop. Clay soil sandy and poor sandy soils are mainly used for rice cultivation system and rice - vegetables. The investigation on the re-use of crop residue showed 21.1% households burn crop residue in the field; 12,5% households use plant leaves to litter for animal; 19.4% used to produce compost; 15.0% collected for soil cover and 31.8% used for cooking, bury and to do other materials. The results analyzed the relationship between income structure with education level by the method Principle Component Analysis (PCA) shows that in group finished study at primary and secondary education level are principal revenue from crop and hired, this is the lowest income groups in the region. In group finished study at high school education level has principal revenue from livestock, hired, service, professions and occupying important positions in the rural social structure and the group finished study at college education level has income is another source. This showed that in addition to the income from agriculture, business services and other income sources from monthly salary or business and other trading.

Keywords: *Sandy soil, North Central coast, crops system, principle component analysis.*