Sustaining the Agricultural Production System and Environment by Integrative Science: A Case Study from Cassava Production

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Cassava demand has increased in the world for both consumption and industry. Mainly cassava find and plant in tropical country around the world. Cassava is the important agricultural product in Thailand due to the fact that cassava has effects in agricultural sector and the linkages to manufactures as well. Thailand's cassava production was exported to many countries and it has become the first rank in the world. Thailand market share on cassava export in 2009 was 83.00%, followed by Vietnam, Indonesia, China and Brazil. Nowadays, Thailand can produce 21 ton/ha/crop/year. The objective of this research is to put tremendous effort or number of strategies imposing on the improvement programs covering the breeding, crop physiology, production, and pest management.

The result shown that the cassava root yield is delivered from the exotic fruits in germ-plasma collection. In addition, the current exotic cassava lines still need the good agriculture practice to pave their ways to success for the high final harvesting. The program of cassava improvement also accommodate under planting area and different groups of cassava producer, from the small farms holders to the industrial scale production. Reducing chemical using is needed by develop integrative strategies of green and environmentally production systems.

As a conclusion, some case of cassava production in Thailand, they encompass all dimension a wide range of agricultural science, basic science, economics and social science. And it is also need maintaining the balance on socioeconomic of the country to produce cassava in the future.