

Porntimon Tonsing 2008: The Effects of Feeding Cassava Pulp on Pig Performance and Carcass Quality. Master of Science (Agricultural Research and Development), Major Field: Agricultural Research and Development, Interdisciplinary Graduate Program. Thesis Advisor: Associate Professor Neramit Sookmanee, Ph.D. 55 pages.

The objectives of this study were to determine the nutritional value digestibility and utilization of cassava pulp and to investigate the economic advantage and carcass quality when used in rations pig diets. The results demonstrated that the percentage of dry matter (DM), crude protein (CP), crude fiber (CF), fat, ash, calcium, phosphorus and nitrogen free extract (NFE) of cassava pulp were 10.40, 2.36, 16.06, 0.26, 4.59, 1.11, 0.06 and 66.33 percent, respectively and cassava pulp had gross energy of 4,178 kcal/kg. The result of the experiment on 30 kg body weight barrow pigs showed that availability of DM, CP and CF were 70.96, 64.45 and 62.71 percent, respectively. The availability of DM, CP and CF in grower diet for 60 body weight were 72.83, 69.63 and 65.97 percent, respectively. Metabolizable energy of cassava pulp on 30 and 60 kg body weight were 2,553 kcal/kg and 2,767 kcal/kg, respectively. In addition, it was demonstrated that feeding cassava pulp has no impact on growth performance. Daily feed intake, average daily gain, feed conversion ratio and carcass quality did not differ between cassava pulp and non- cassava pulp fed pigs. For the economic advantage, it was found that starting, growing and finishing pigs fed with 20, 30 and 40 percent of cassava pulp diet respectively, could reduced cost of the diet to the amount of 0.56, 0.34 and 0.39 baht/kg compared to the diet without cassava pulp. Therefore, every 1 kilo-gram increasing pig weight cost 0.84 baht less than that of non- cassava pulp diet. In conclusion, cassava pulp can be used as raw materials in pig diet because it has no impact on growth performance and carcass quality and has potential for economic advantage due to the raw material price at the time studied. However, matrix of all raw materials price causes considerable effect to formula calculation.

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Thesis Advisor's signature

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