

Siriwan Patummad 2013: Validation of the Sampling Procedure of Paddy. Master of Science (Agro-Industrial Technology Management), Major Field: Agro – Industrial Technology Management, Department of Agro-Industrial Technology.

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Thai rice standard is the most important things to facilitate the reliable trading process. To make a rice sampling standards reliable, the acceptant process should be transparent and reflect the quality of the product. This research has evaluated the possibility of a sampling paddy procedure at the product delivery point by studying the structure of Thailand's rice trade in the supply chain, summary of sampling method, defined the sample size and estimation of sampling uncertainty. The sampling uncertainty access was done on both old harvested paddy and new harvested paddy. Two-split Level Replication Design was used as an experiment design to study two factors, factor of different in lot space and in the delivery. For old harvested paddy, the sampling uncertainty of the validation in space is approximately 9.54 to 14.44% of the average moisture content and sampling uncertainty of the validation in time is approximately 5.34 to 6.59% of the average moisture content. For new harvested paddy, the sampling uncertainty of the validation in space is about 3.91 to 6.56% of the average moisture content and sampling uncertainty of the validation in time is approximately 3.31 to 4.50% of the average moisture content. When looking at the average moisture content (% by weight), the rice was found moistures average in samples with the uncertainty value still be in the control line (Fit of Use). But when buying a new rice paddy, the average moisture content was near the control line and the uncertainty of sampling are likely high. Therefore in this case, more points of samples collection, from the delivered rice paddy such as sampling for 8-10 points is recommended.

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