

Nujaree Duangladda 2009: Effect of Harvesting Method on Mungbean Seed Quality for Bean Sprout Production. Master of Science (Agriculture), Major Field: Agronomy, Department of Agronomy. Thesis Advisor: Associate Professor Wanchai Chanprasert, Ph.D. 90 pages.

A study on effect of harvesting method on seed quality of mungbean cv. Chainat 72 for bean sprout production was carried out in late rainy season 2005 and 2006. Randomized complete block design with 4 replications was used. Twice and three times of harvest sequence by mature pod picking at 63 and 70 DAP, 70 and 77 DAP, 63,70 and 77 DAP were compared with harvesting once by mature pod picking and whole plant cutting at 63, 70 and 77 DAP. The results revealed that harvest sequence at 63,70 and 77 resulted in high seed germination and viability and a lower percentage of damaged seed detected by fast green test. The harvest sequence method tended to give seed with high specific gravity. Regression analysis showed that there were linear relationships between specific gravity of seed versus bean sprout yield, seed damage detected by fast green test versus bean sprout yield, seed viability and rejected seed by oversoak test. Seed damage detected by chlorox test and percentage of seed wrinkle were related with bean sprout yield. It can be concluded that mature pod picking three times at 63, 70 and 77 DAP is appropriate for mungbean seed harvesting for bean sprout production.

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Thesis Advisor's signature

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