

## Studies on the Occurrence of Hard Seeds in Adzuki Beans

### I. Diversity among Genotypes and Planting Seasons

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#### ABSTRACT

Adzuki bean is one of important farm products at Kao-ping area. Most of production was exported to Japan. Hence, the quality of adzuki beans was much emphasized. Hard seeds in adzuki bean has been considered as one of important factor which can cause the inconvenience during processing procedures and then results in lower quality. A total of 149 genotypes cultivated in the fall and spring crop seasons were used for studying the effects of genotypes and crop seasons on the occurrence of hard seeds in adzuki bean.

Results showed that higher hard seed rates (3.49%) was found for adzuki bean harvested in the spring crop season while lower rates (1.35%) was found for fall seeds. KA-67-S-01-63R had the highest rates of hard seeds in both seasons. A total of 58 and 22 genotypes with zero hard seeds were found in the fall and spring crop seasons, respectively. Only 12 genotypes including Japan Da-na-yen, and 68-F with zero hard seed rate were detected in both seasons. Slightly positive correlation were found between rates of hard seeds and kernel weight and 1000-seed weight, while negative correlation was found between rates of hard seed and seed coat/kernel weight ratio in the fall crop season.

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