SOIL MOISTURE AND PLANTING DISTANCE AS FACTORS AFFECTING GROWTH AND YIELD OF TWO MUNGBEAN [*Vigna radiata* (L.) Wilzcek] VARIETIES UNDER ORCHARD-BASED CROPPING SYSTEM

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This thesis entitled, SOIL MOISTURE AND PLANTING DISTANCE AS FACTORS AFFECTING GROWTH AND YIELD OF TWO MUNGBEAN [*Vigna radiata* (L.) Wilzcek] VARIETIES UNDER ORCHARD-BASED CROPPING SYSTEM, prepared and submitted by SEREE CHAIYAPANTU in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE (Crop Science - Agronomy), is hereby accepted.

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BIOGRAPHICAL SKETCH

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In 1988, he was granted a study leave by the Department of Land Development to pursue a masteral degree in Crop Science at Central Luzon State University, Muñoz, Nueva Ecija, Philippines.

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ABSTRACT

CHAIYAPANTU, SEREE, Institute of Graduate Studies, Central Luzon State University, Muñoz, Nueva Ecija, Philippines, May 1990. SOIL MOISTURE AND PLANTING DISTANCE AS FACTORS AFFECTING GROWTH AND YIELD OF TWO MUNGBEAN [Vigna radiata (L.) Wilzcek] VARIETIES UNDER ORCHARD-BASED CROPPING SYSTEM.

Adviser: Mario B. Agustin

The study was conducted under an orchard-based cropping system in a 7-year cashew plantation. It had the following objectives: a) to compare the performance of the two mungbean varieties, i.e. Patig and Taiwan Green under orchard-based condition; b) to evaluate the agronomic and yield characteristics of these mungbean varieties as affected by soil moisture content; c) to determine the performance of mungbean at different planting distances under orchard-based condition; and d) to find out the interaction effects of soil moisture content and planting distance of two varieties of mungbean planted under orchard-based condition.

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