

Category	: International Rice Research Conference
Select Theme	: Sustainable and equitable farming systems
Endorsement email	:
Keyword 1	: System of Rice Intensification (SRI)
Keyword 2	: Water management
Keyword 3	: Sustainable intensification
Title of Entry	: Influence of age of the rice variety and the type of planting material on growth and yield of rice in System of Rice Intensification in Central Thailand
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Select only one type of presentation	: 15 minute oral presentation
Abstract	: The system of rice intensification (SRI) as one of the rice producing methods ultimately focuses on food, economic, water security and ecological balance of the environment. The performance of different aged varieties of rice is an important criterion in SRI. An experiment was conducted as a pot experiment to investigate the performance of short (90 days) and medium aged (110 days) rice varieties and different planting materials in SRI. Six treatments were laid in 2 x 3 factor factorial experiment where two aged groups of rice and three types of planting materials included, and tested in CRD with three replicates for each treatment. Time for reaching different phenological stages, above and belowground growth parameters and yield parameters were recorded. The interaction of the age of the variety and the type of the planting materials did not significantly influence on the phenology of rice in this experiment. Tiller number at harvest, plant height, leaf area at flowering, shoot biomass, root depth, total root length, root biomass, shoot to root ratio, number of panicles per hill, filled grains per panicle, 1000-grain weight, and grain weight were significantly different among different duration rice varieties (P=0.05). In conclusion, shorter duration rice varieties irrespective of the type of planting materials used are poorly performing in the System of Rice Intensification extending their phenological stages, performing poor growth and lowering yield compared to medium duration rice varieties in Central Plains of Thailand.

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