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RESEARCH ARTICLE :

Evaluation of rice (*Oryza sativa* L.) hybrids for system of rice intensification (SRI) with limited water input

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SUMMARY : A number of hybrids had been released to enhance the productivity of rice. There is a need to increase the rice productivity to sustain global food security with low inputs. In this context, experiment was conducted to evaluate the hybrid rice cultivars for best suitability for system of rice intensification (SRI) method of cultivation in comparison with normal transplanting method with limited water inputs. Yield parameters like panicle number, panicle length, panicle weight were found significant over methods, irrigation and cultivars. Grain yield, straw yield and days for 50% flowering were significant over methods. The per cent of water saved in AWD over saturation was 33%. System of rice intensification method recorded 17.2% higher grain yield over normal transplanting method. Grain yield was on par in both irrigation regimes. As a result, it was observed that system of rice intensification method with alternate wetting and drying irrigation can be adopted for hybrid rice cultivation for those areas with less irrigation facilities.

KEY WORDS :

SRI, NTP, Saturation, AWD

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