



**RESEARCH ARTICLE :**

## Studies on efficacy of AWDI method with field water tube on rice production under SRI

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**SUMMARY :** The Field experiments were laid out in the wetlands of Agricultural College and Research Institute, Coimbatore during *Rabi* season of 2013-14 and 2014-15, to study the efficacy of Alternate Wetting and Drying Irrigation method on growth, yield parameters and grain yield of SRI rice with help of field water tube. Nine AWDI treatments were tested along with SRI and conventional rice irrigation methods in Randomized Block Design, replicated thrice. The AWDI levels tested were irrigation at different depletions *viz.*, 10, 15 and 20 cm below soil surface with their combinations. In both seasons, AWDI after 10 cm depletion from 7 days after transplanting upto 10 days prior to harvest was found to be superior than other AWDI practices which recorded the highest water use efficiency of 6.82 and 6.27 kg/ha-mm and grain yield of 6352 and 6441 kg/ha during *Rabi* 2013-14 and 2014-15 seasons, respectively. SRI method gave comparable yields with AWDI at 10 cm depletion, but the water use efficiency was higher under AWDI at 10 cm depletion.

**KEY WORDS :**

AWDI, Field water Tube, Water use efficiency, SRI, Yield

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