Biomass Development in SRI Field Under Unmaintained Alternate Wetting-Drying Irrigation

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First Author	Ardiansyah; Chusnul, A.; Krissandi, W.; Asna, M.;
Last Author	
Authors	Ardiansyah; Chusnul, A; Krissandi, W; Asna, M;
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Abstract	The aim of this research is to observe biomass development of SRI on farmers practice in three plots with different level. This research observes the farmer practice of SRI and Non-SRI during the uncertainty of irrigation water supply and its effects on paddy biomass development during growth stages and final stage of crop. A farmer group that already understand the principle of SRI, applied this method into several plots of their rented paddy field. Researcher interventions were eliminated from their action, so it is purely on farmers decision on managing their SRI plots. Three plots from both SRI and Non-SRI were chosen based on the position of the plot related their access to water. First plots had direct access to water from tertiary irrigation channel (on farm). Second plots were received water from previous upper plots and drainage water into other plots. Third plots were in the bottom position, where they received water from upper plot, and drainage water into farm drainage channel Result shows there are similar patterns of root, straw, and leaves of biomass during crop growth. On the other hand, during generative phase, grain development shows different pattern and resulting different biomass in harvest time. Second plot, (of SRI) that has water from first plot has the average of biomass grain per plant of 54.4, higher than first plot and third plot, which are 33.8 g and 38.4. Average biomass in second plot is 74.6 g, higher than first and third plot, which are 49.9 g and 52.3 g.
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Author	Dr ARDIANSYAH, S.TP, M.Si