

## Agronomic traits of local wetland rice varieties in Jambi province

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### Abstrak

Indonesia's swamplands are among areas earmarked for future agricultural development. As a type of wetlands, swamplands are inundated and have soil properties that are uniquely different from other agro ecosystems. In Indonesia, some of the se areas are currently used for rice cultivation of the country's very diverse genetic resources of local rice varieties. Most of the farmers continue to plant and cultivate the local rice swamp land varieties because of the abilities to adapt to extreme environments. This study on the agronomic traits of the local swamp and rice varieties was carried out to evaluate their agronomic character and identify varieties having superior quality traits. The search was carried out from April to October 2016 using a single plot method at the Rantau Kapas Mudo Village, Batanghari Regency, Jambi Province. Eleven (11) rice varieties were planted in 10 x 5 m single plots, with a spacing of 25 x 25 cm and 1 m distance between plots. These 11 genetic resources of the local swamp land rice varieties, include the Serendah Halus, Rimbun Daun, Karya, Serendah Bawang, Sereh Aek, Botol, Pontianak, Semut, Dawi, Ketan Hitam and DI. The observed characters consisted of the plant height at harvest, number of productive tillers, age of harvest, number of grains per panicle, number of filled grains per panicle, number of empty grains per panicle, weight of 1,000 grains, seed shape and the production volume. There were differences among the local swamp land rice varieties with the highest production volume of 3.32 tonnes/ha obtained from the Rimbun Daun variety, followed by 2.86 tonnes/ha from the Dawi variety. These two varieties had shown potential to become the leading regional swamp land rice varieties.