

NITROGEN UPTAKE OF SRI PADDY FIELD COMPARE TO CONVENTIONAL FIELD

Publons ID	18712142
Wos ID	WOS:000385342200008
Doi	
Title	NITROGEN UPTAKE OF SRI PADDY FIELD COMPARE TO CONVENTIONAL FIELD
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Publish Date	2016
Journal Name	JURNAL TEKNOLOGI-SCIENCES & ENGINEERING
Citation	1
Abstract	<p>The aim of this research is to compare nitrogen uptake in SRI field and conventional paddy field. Three SRI plots and three conventional plots were given same amount of organic fertilizer and three different biochar amount. In SRI field, S1 were plot with 5 ton/ha biochar application, S2 were plot with 10 ton/ha biochar application, and S3 were plot with 20 ton/ha biochar application. Similarly, in conventional paddy field, K1, K2, and K3 were plots with 5 ton/ha, 10 ton/ha, and 20 ton/ha biochar application. Mineral fertilizer were not used in this research. Result shows that, Nitrogen uptake in SRI paddy field (average of 262.9 mg/g Dry mass) were less than Conventional paddy field (average of 323.8 mg/g Dry mass). However, average of the grain weight of 1000 paddy grain shows that grain from SRI field is heavier (average of 20.7 g) than conventional paddy field (average of 19.0 g). Biochar application of 5 ton/ha, for both SRI and conventional fields shows higher result in most of plant parameters (plant height, amount of grain, total weight). SRI method usually shows the high production compare to conventional method. However, in this experiment there is almost no difference in SRI field (3.6 ton/ha) and conventional field (3.7 ton/ha). Plant observation shows that SRI paddy develop good rooting system than conventional paddy field that implies on more nutrient uptake. Soil were suspected to be the cause of low nitrogen uptake in SRI field.</p>
Publish Type	Journal
Publish Year	2016
Page Begin	45
Page End	49
Issn	0127-9696
Eissn	2180-3722
Url	https://www.webofscience.com/wos/woscc/full-record/WOS:000385342200008
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