

Department of Agrotechnology Faculty of Agriculture Universitas Muhammadiyah Yogyakarta



## PROGRAM & ABSTRACT BOOK



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P-005 Application of rind jatropha compost as a K source in the sweet corn (Zea mays saccharata Sturt) cultivation

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ABSTRACT

Potassium is one of important soil nutrients, based on the crop needs nutrients, potassium is the third element that important after nitrogen and phosphorus. The content of potassium in the Rind Jatropha compost quite high at 11.36%. The high content of potassium in the rind Jatropha has potential to increase the productivity and fulfill the needs soil nutrients in the cultivation process. The research aims to study a proper dose of compost rind Jatropha in the sweet corn (Zea mays saccharata Sturt) cultivation and get a proper dose of compost rind jatropha in increasing the growth and yield of sweet corn in Regosol soil randomized design. The treatments dose tested i.e. compost rind jatropha (KJP), which consists of four levels, 250 kg KCl/hectare + 0 KJP kg/hectare, 125 kg KCl/hectare + KJP 273.89 kg/hectare, 62.5 kg KCl/hectare + KJP 410.84 kg/hectare, 0 kg KCl/hectare + KJP 547.79 kg/hectare. The results of this research indicate that the treatments mix dose compost rind jatropha and Ccl does not give a significantly different substitute the use of inorganic potassium fertilizer by farmers, but the dose of 125 kg KCl/hectare + KJP 413,89 kg/hectare showed weight cob cornhusk that fits with the description of yield potential Gendis variety.

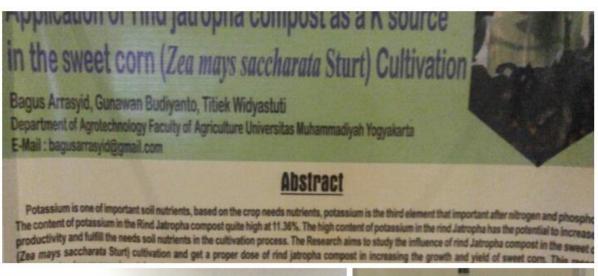
Keywords: Rind Jatropha Compost, Potassium, Sweet Corn (Zea mays saccharata Sturt)

SFC-P-006 Cultural Practices Technology of Special Rice Variety On The Lowland **Fields** 

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Rice plants are strategically commodities as food supplied in Indonesia. The operated, provided procurement and distribution under be incredibly important to food security, stability of national economy Needed production of rice that has added value (certain prices, nutrition scent, etc) or contained one or of rice with particular physiological functions and useful for health. The development problems of rice with particular characteristics / special are reluctanced at farmers to planted or produced different between regions because it is dependent of climate, agroekosistem and the market. The experiment was district, West Java, in April – September 2016. The experiment was arranged as a split-split plot design aims to studied the cultivated technology of special rice variety at farmer's lowland field, at the Cianjur with 3 replications. The main plot are fertilizer application, P1- the present local recommendation (Urea after transplanting. P2 – proposed recommended based on PHSL, Urea –250 kg/ha, Phonska= 300 kg/ha; Organic fertilizer (petrokimia) = 500 kg/ha, phonska=130kg/ha, applied 3 x at 7 dat, 21 dat and 42 dat (just before flower initiation stage). Sub plot: plant spacing T1 plot: special rice varieties V1-Cisokan,, V2-Inpari 21, V3-IR-42, V4-Lusi variety and V5-Japonica rice Performance of the special rice varieties could be increased through optimalization of plant spacing and Inpara 4 planted combination with jajar legowo 4:1 and the present local recommendation fertilizer, followed based on PHSL, than Cisokan variety produced 9.24 t dry (14%mc) grains/hareached by by Lusi variety (9.33 t dry (14%mc) grains/ha) with combination he jajar legowo 4:1 and present local recommendation fertilizer. Application of fertilizer and plant spacing are grains/ha, at jajar legowo 4:1 planted highest 0,5 t dry (14%mc) grains/ha than jajar legowo 2:1 produced 8,03 t dry (14%mc) grains/ha.

Keywords: Special rice variety, fertilizer, plant spacing and jajar legowo 102







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