

Uji Daya Hasil dan Mutu Benih Beberapa Galur Padi Harapan Dengan Varietas Pembanding Ciherang (*Oryza sativa* L.). Yield Evaluation and Seed Quality of Several Rice Strain with Comperative Varieties is Ciherang (*Oryza sativa* L). Advisor : *Dwi Rahmawati*

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ABSTRACT

Increasing population demand an increase in rice production each year. One technology that can be used is the assembly of varieties with a higher yield potential than existing ones. Research is carried out in July 2019 to February 2020. The study is conducted at Wirowongso village, Ajung district, East Java, and the Jember Technology Laboratory, Politeknik Negeri Jember, mastrip street PO BOX 164. This research used non factorial Randomized Block Design. In this research, there are nine treatments of eight rice Lines and a comparative varieties, with three repetitions each. The data was anlyzed by Analysis of Variance (ANOVA) and LSD (Least Significance Different) stage 5%. The treatments are G1 (UDS 001), G2 (UDS 002), G3 (UDS 003), G4 (UDS 004), G5 (UDS 005), G6 (UDS 006), G7 (UDS 007), G8 (UDS 008) and G9 (Ciherang) of each treatment repeated three times so that there are 27 test units. Based on the results and discussion of the study, it can be concluded that the lines of UDS 008, UDS 001 and UDS 005 show the results of the parameters of plant height, panicle length, number of panicle grain, number of productive tillers and number of pithed grain superior to the comparative varieties. Lines that have production parameters and yield potential per hectare superior to comparative varieties are UDS 001, UDS 002, UDS 003, UDS 004, UDS 005, UDS 006, UDS 008 and UDS 008 lines while the lines with the highest production among these lines are UDS 001 with a production of 10.36 Tons / Ha and a line whose potential is superior among the line is UDS 005 potential of 11.22 Tons / Ha. And the line that has the best germination is UDS 006 by 81.17%.

Keywords : *rice, line, varieties*