Tata Letak Tanaman Jantan dan Betina Serta Posisi Daun Pada Batang Terhadap Pengisian dan Produksi Benih Jagung Manis *(Zea mays saccharata strut).* *Position System of Male and Female Plant and Leaf Position at Rod to Sweet Corn (Zea mays saccharata strut) Seed Filling and Production.* ***Advisor: Rahmat Ali Syaban and Suwardi.***

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ABSTRACT

There were some factors that cause sweet corn production at Indonesia is still low, there were the low stock of good quality seed and under production cultivation technique. One way that can be used to increase the sweet corn production is by designing the position system of male and female plant and the leaf position at rod to seed filling. This research was held for August - December 2015 at Sumber Agung village, Gandosari, Blitar And Seed Technology Laboratory of State Polytechnic of Jember. This research was conducted by using split plot design with 2 factors and 3 replications. The first factor was position system : inserted and side. The second factor was the leaf position at rod : upper cutting, middle cutting and without cutting. The research result showed that position system treatment of male and female plant did not give significant effect to all parameters. To the without cutting (P3) leaf position treatment showed very significant effect to seed total each stem, the weight of 100 seeds and seed quality : produced seed total 225,63 seeds/stem, with the weight of 100 seeds 10,65 grams, germination capacity 88,54%, germination speed 34,74%. Very significant combination between position system (inserted) and leaf position (without cutting) to the weight of 100 seeds that produced 10,69 grams.

Keywords : Position System of Male and Female Plant, Leaf Position at Rod, Seed Filling and Production.