ABSTRACT

Demand of cucumber is increasing, but is has not been followed by adequate seed production, so seed production needs to be increased again. This research was conducted in field PT. Benih Citra Asia farm Rowosari, Jember from September until December 2019. This research uses RCBD Factorial which consist of 2 factor. First factor consits of 4 level, without of giving paclobutrazol \((U_0)\), age on giving paclobutrazol 10 days after planting \((U_1)\), age on giving paclobutrazol 15 days after planting \((U_2)\) and age on giving paclobutrazol 20 days after planting \((U_3)\). Second factor consict of 2 level, without prunning of water shoot \((P_0)\) and with prunning of water shoot \((P_1)\). The result show of age on giving paclobutrazol 15 days after planting \((U_2)\) give effect a very significant influence on the parameter appearance first flower, amount of seed per plant, then give effect a significantly on the parameters weight of seed per plant, weight of 1000 seeds and production seed per hectare. The treatment prunning of water shoots \((P_1)\) give effect a very significant influence on the parameters of plant height of 6 weeks after planting and appearance first flower. Furthermore, there is no interaction among two treatment. But, based on the numerical value of age plant with on giving paclobutrazol 15 days after planting and with prunning of water shoot show of an effect on the production seed per hectare of 340,02 Kg and percentage germination of 99%.

Key word: Cucumber, Age on Giving Paclobutrazol, Pruning of Water Shoots.