

ABSTRACT

AZHAR FIRDAUS A; Effect of an organizing Rootone F Against the Growing Seed Cuttings Growth With Age Different White Mulberry (*Morus alba*); Under Direction of UJANG SETYOKO and MOCH BINTORO.

The purpose of this study, among others, to determine the effect of age cuttings and concentration of plant growth regulators as well as the interaction of both the growth of seedlings of mulberry cuttings. The experiment was conducted at California State Jember. In research conducted at the time from September to December 2012. The tools used are hoes, scissors cuttings, yells, cutter, analytical scales, stationery, measuring cups, buckets, polybag, spoons, and clear plastic. The material used is a kind of *Morus alba* mulberry cuttings, planting medium is soil + manure, ZPT Rootone F, Benlate Fungicide, distilled water, 97% alcohol, and bamboo. Rancangan paranet experiment used was completely randomized factorial design consisting of 9 treatment and repeated 3 times, ie 100 ppm + Edge (Z1U1), 100 ppm + Middle (Z1U2), 100 ppm + Niagara (Z1U3), 200 ppm + Edge (Z2U1), 200 ppm + Middle (Z2U2), 200 ppm + Niagara (Z2U3), 300 ppm + Edge (Z3U1), 300 ppm + Middle (Z3U2), 300 ppm + Niagara (Z3U3). The results of this study showed that the percentage of live cuttings treatment parameters U3 and Z2 give the best value. In Z3U3 treatment shoot length parameter gives the best value at the age of 6 and 8 MST. In the parameter number of leaves treated Z2U3 give the most influential at the age of 6 and 8 MST. At length parameter Z1U1 leaf treatment gives the best value at the age of 6 and 8 MST. While the parameters of the number of roots and root length showed no significantly different effect.

Keywords: Rootone F, Seed Cuttings, *Morus alba*.