THE EFFECT OF HYDRATION-DEHYDRATION AND NPK FERTILIZER SUPPLEMENTARY ON VIABILITY OF SEED SOYBEAN (Glycine max [L.] Merr.) ANJASMORO

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ABSTRACT

Hydration dehydration is one of the seed treatments to improve seed viability which has suffered setbacks. Supplementary fertilization during flowering is one of the agronomic efforts in seed production for viability (germination and early vigor high).

This research aims to determine: 1) Determine the effect of hydration-dehydration on seed sources that have been saved 8 months in influencing the viability of soybean seed varieties Ajasmoro. 2) Determine the effect of increasing doses of NPK fertilizer Supplementary during flowering are given on the plants from seed sources in invigorize by means of hydration-dehydration on seed viability of soybean varieties produce Anjasmoro. 3) To Know the plantsthat seed source response to hydration-dehydration in invigorate to increasing doses of NPK Supplementary at the time of flowering in soybean varieties anjasmoro produce seed viability. This research was conducted in the Laboratory of Plant Breeding and Seed Technology Faculty of Agriculture, Lampung University in August to October 2009. The design of treatment trials in the field follow the pattern of the factorial (3 X 3); each treatment combination was replicated 3 times. The first factor is how the hydration-dehydration of control (H0), sticking (H1), and immersion (H2). The second factor is a supplementary dose of NPK fertilizer at the time of flowering of dosages of 0 kg / ha (P0), 75 kg / ha (P1), 100kg/ha (P2). The similarities range between treatments were tested with Bartlett test and subsequent tests used Tukey test model. Results obtained data were analyzed by F test planned and continued separation of the median value of the ratio of orthogonal level 0.05 and 0.01.

The results showed that (1) hydration-dehydration treatment did not affect seed viability based on the simultaneity variable germinate and seedling dry weight of normal, (2) Provision of supplementary doses of NPK fertilizer did not affect seed viability response on simultaneity variable germinate and seedling dry weight of normal, (3) Without supplementary fertilizer, hydration-dehydration (sticking) is better in producing germination, speed of germination, and seedling length than is moistened.

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