PENGARUH TEKANAN KEKERINGAN TERHADAP PERTUMBUHAN DAN PRODUKSI BEBERAPA VARIETAS KEDELAI PADA GRUMUSOL LOMBOK TENGAH [1)]

(EFFECTS OF WATER STRESS ON THE GROWTH AND PRODUCTION OF SOYBEAN VARIETIES AT GRUMUSOL LOMBOK TENGAH) [1)]

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Abstract: The aim of the study was to know the effect of water stress measured by levels of available soil water content, soybean variety, and the influence to growth and production of soybean. Three soybean varieties were used in this experiment i.e. Americana, Galunggung, and Kepet. The levels of water content as treatment were 75, 50, and 25 percent of available water. Factorial with completely randomized experimental design was applied. The experiment was conducted in a plastic house.

Water stress decreased growth and production of soybean. Production decreased 13 and 50 percent per plant for Kepet with 50 and 25 percent water stress available compared with production with 75 percent water stress available. The decrease was relatively smaller for Americana than for Kepet and Galunggung i.e. 31 and 54 percent. But on that water stress Americana production (4.543 g per plant and 3.016 g per plant) were higher than Galunggung (2.914 g per plant and 1.917 g per plant) or Kepet (3.123 g per plant and 1.810 g per plant).

Ringkasan: Penelitian ini bertujuan untuk mengetahui pengaruh tekanan kekeringan (water stress) yang dinyatakan pada tingkat kadar air tanah tersedia, varietas dan interaksinya terhadap pertumbuhan dan produksi tanaman kedelai. Varietas yang digunakan: Americana, Galunggung, Kepet dan perlakuan tingkat kadar air: 75, 50, 25 persen air tersedia. Percobaan faktorial dengan rancangan acak lengkap

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