

عنوان مقاله:

Effect of drought stress and methanol on radiation Use Efficiency and photosynthetically active radiation , leaf area (index and extinction coefficient of Soybean max (L 17

محل انتشار:

همایش ملی پدافند غیر عامل در بخش کشاورزی (سال: 1392)

تعداد صفحات اصل مقاله: 11

نویسندگان:

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خلاصه مقاله:

In order to evaluate drought stress and methanol on Radiation Use Efficiency and PAR and K of soybean in field experiments with factorial experiment Base of a randomized complete block design with three replication in field faculty ۷,۱۴.۲۱,۲۸,(control) First factor were sprayed aqueous solutions .of agricultural of Islamic Azad university Karaj, at ۲۰۱۲ days intervals on shoot of soybean . ۱۲ times during growth season of soybean with ۳ v/v) methanol by ۳۵% and base of depletion available soil moisture. In this ۷۰% , ۴۰% Second factor were drought stress condition in two levels study were measured grain yield, dry matter, optimum leaf area, Radiation Use Efficiency and Extinction Coefficient and crop growth rate. Analyses of variance results show that sprayed methanol solution has been effective on level of possibility. ۵% Radiation Use Efficiency and there is a significant difference between applying treatments in methanol voluminal ۲۱% Mean comparing shows that, the most quantity of Radiation Use Efficiency was belonging to days passing of ۹۶ As well as results show that after ۱۵% level that in comparing with control has an increase of planting, a significant difference in accumulation Photosynthetically Active Radiation by soybean bush was observed in different methanol treatments. Sprayed methanol solution and drought stress do not have any effects on Extinction Coefficient, but in spite of this, Extinction Coefficient in comparing with other level shows a decrease in level of . Interactive between evaluated factors were not significant

کلمات کلیدی:

drought stress, methanol, leaf area index, Radiation Use Efficiency and Extinction Coefficient, accumulated Photosynthetic Active Radiation

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