

## **ABSTRACT**

*Objective of experiment were to study the effect of various Methanol concentration on Edamame soybean growth and yield, and to determine the optimum Methanol concentration for Edamame soybean growth and yield. Research used experimental methods in polybags with a single treatment design prepared in a complete randomized environmental design (RAL). Such treatments include Methanol concentrations of 0%, 7%, 14%, 21% and 28%. Each treatment consisted of 3 replications and each replication consisted of 6 plants. The observed parameter is the growth of soybean crop including: Root length, Root root weights, Root dried weights, plant height, leaf number, leaf area, fresh weight of canopy dry crown, amount of pods, fresh weight of pods, dried seeds, 1000 seed weight, And fresh weight of pods per hectare. The results showed that administration of various concentrations of Methanol in Edamame soybean has not been effective in increasing the growth and yield of soybeans .*

*Keywords: Edamame soybeans, Methanol Spraying, Concentration*