

Effect of different watering sheets on vegetative growth of *Leucaena leucocephala* (Lam.) De Wit.

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Abstract

An experimental was carried out during dry and rainy season in La Esperanza farm property of the Agronomy Faculty, La Universidad del Zulia, Venezuela, with a dry tropical forest, in order to evaluate the effects on different watering sheets (0, 2.5, 5, 7.5 and 10 L of water/plant/week during whole period and 10 L of water/plant/week during half period) on plant height (ALT), stem diameter (DIAMTALL), pod number (NBROTE) of *Leucaena leucocephala*. A split plot design in a randomized complete block was used. The results showed that ALT, NBROTE and DIAMTALL were increased with crop age, and did not show significative differences between treatments except DIAMTALL ($P < 0.05$) during season dry season. The statistical application of 10 L of water/plant/week seems the treatment to have given a great number of advantages above variables on test.

Key words: *Leucaena leucocephala*, watering, growth.

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