

Effect of the Inoculation of native and introduced stumps of *Rhizobium* on the production of dry matter in the leucaena (*Leucaena leucocephala* (Lam) of Wit).

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Abstract

With the objective to study the effect of the inoculation of stumps of introduced *Rhizobium* and isolated native stumps of two plantations of *Leucaena leucocephala* (Lam) Wit a assay was conducted. The experiment was located in the county San Francisco of Zulia state located at 10°33 ' North, 71°39 ' NW, 5 inoculation treatments were mounted with the introduced stumps C.CUB.; CC1 and CC2, and with the native isolated CNT1 and CNT2 plus a Control without inoculation. A complete random design was used with 12 replications by treatments; they were evaluated through 90 days harvesting 4 plants every 30 days, for a total of 3 samplings. The production of dry matter was measured (MSA), radicular (MSR) total (MST). For the MSA their were difference for M2 and M3 ($P < 0.05$), the native stump CNT2 presented the best averages. For the MSR they were differences ($P < 0.05$) the C.CUB. presented the best average for M1 and the CNT2 for M2 and M3.

Key words: *Leucaena*, *Rhizobium*, inoculation, native stumps, dry matter

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