

## Effect of integration methods mechanical, physical and chemical on cucumber *Cucumis sativus* L yield under the Maracaibo plateau condition

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### Abstract

With the purpose of evaluating the effect of the method of control of weed on the yield of the cucumber *Cucumis sativus* hybrid L. Poinsette, it was carried out a research in the Ana Maria Campos Farm of the College of Agriculture, of The University of Zulia, in period between November and December of the year 1999. The study area is in the municipality of San Francisco, Zulia state, presenting agroecological conditions of tropical very dry forest, with temperature that oscillates among 27-28° C, precipitation of 400 - annual 500 mm and soils with pH of 5 - 6, with sandy texture franc. The design experimental used randomized blocks with five replications, It was evaluated a total of six treatments: naptalam 1,0 Kg, i.a/ha, alaclor 1,3 Kg i.a/ha + vegetable covering, absolute witness, vegetable covering + clean mechanics, clean mechanics and plastic covering. The statistical analysis showed highly significant differences for the variables in study, days of germination, days of blooming, number of fruits for plant, yields of fruits for hectare and percentage of control of weed and non significant differences for the variable weight for fruit. The method of control of weed, plastic covering was the most effective for the control of weed, presenting the smallest number of days to germination, flowering and the biggest yields of fruits for hectare.

**Key words:** *Cucumis sativus* L., weed control.

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