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PLANTS WITH CHEMICAL DEFENSES IN CERRADO: DO ANTS PRESENCE INFLUENCE HERBIVORY CONTROL?

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One of the most studied mutualistic relationship is ant-plant interaction. Plants provide resources such as food and nesting sites to ants, which in turn, provide protection to the plants i.e., by precluding the survival of competing plant species or by defending the plant against herbivorous insects. The aim of this study was to analyze if the increase of food and nesting resources in plants promote the decrease of herbivory, mediated by the increase of ant abundance and species richness. Carbohydrate food sources and artificial nests were added to 80 Piptocarpha rotundifolia trees, a typical Cerrado species that does not have extrafloral nectary. Four treatments were defined: trees with carbohydrates and artificial nests, trees with carbohydrates and without nests, trees without carbohydrate and nests, and trees without carbohydrate and without nests. The resources remained in plants for four months, when the colonies that occupied the artificial nests were also collected. Measurements of herbivory were performed through photographs of the leaves, and ant sampling were made with pitfall traps, in two different times: before and after resources addition. We observed that ant abundance and ant species richness increased in the trees with both resources, but herbivory did not decrease with the increased of resources supply. This result indicate that ants were attracted by both resources, but they had no effect on herbivory. One explanation for this result is that P. rotundifolia has secondary compounds that may acted as herbivory regulation. In addition, the ant species collected in the trees are mostly opportunistic, and probably did not attack herbivores.