





CONSTRUINDO SABERES, FORMANDO PESSOAS E TRANSFORMANDO A PRODUÇÃO ANIMAL

PRODUCTIVITY OF MASSAI GRASS UNDER WEED INTERFERENCE IN RENEWAL AREA

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The objective was to evaluate weed competition on the production of Panicum maximum Jack. Massai. An experiment was realized in the UFMT/Barra do Garças in randomized block design with 3x4 m plots in six periods weed coexistence periods: 15, 30, 45, 60, 75, and 90 days after the emergency (DAE) and control (non-coexistence). Was used direct planting with 2 kg ha⁻¹ of seeds and the finale of each period, weeds were eliminated. At 90 DAE the forage cutting was realized close to the ground with coastal brush cutting. Samples were pre-dried (60°C) and milled (1 mm) to analyze the contents of dry matter (DM), organic matter (OM), crude protein (CP), ether extract (EE), neutral detergent fiber corrected for ash (NDFap), hemicellulose (HCEL), lignin (LIG), total carbohydrates (CHO) and non-fiber carbohydrates (NFC) from to determine the production (t ha⁻¹, P) of natural matter (NM) and other variables. The data were evaluated in a mixed model and subdivided plot, the means being compared by orthogonal contrast with regression adjustment. Only the PEE (0.15 \pm 0.03 t ha⁻¹) did not (P > 0.05) showed effect of the treatments. The treatment non-coexistence period obtained (P < 0.05) the highest mean of NMP (49 ± 4 t ha⁻¹), DMP (49 ± 1 t ha⁻¹) and MOP (13 ± 1 t ha⁻¹), these results influenced the higher results of NDFapP (10±1 kg ha⁻¹), HCELP (3 ± 0.2 t ha⁻¹), CHOP (11 ± 0.6 t ha⁻¹) ¹), NCFP (1 \pm 0.03 t ha⁻¹) and LIGP (0.24 \pm 0.02 t ha⁻¹). Most of the productions were affected in the first period (15 days of coexistence) with a tendency to decrease the final productivity as the coexistence time increased. This was due to the competition with weeds and the ability of the Massai grass to modify its growth under this situation during the period of coexistence, evidenced in this experiment by the total flowering of the treatment non-coexistence at 90 DAE. Thus, the coexistence with weeds decreases the productivity of the forage.

Keywords: competition, Panicum maximum, pasture, weeds control

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