

CONSTRUINDO SABERES, FORMANDO PESSOAS E TRANSFORMANDO A PRODUÇÃO ANIMAL

PARAMETERS OF GERMINATION IN TWO TYPES OF GRASSES SEEDS MG-5 SUBMITTED TO DIFFERENT SOWING DEPTHS

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The quality of the seed used for implementation of pastures can assurance both the success and the failure of the activity. Another factor that should be considered for the formation of pastures is the depth used to deposit the seeds in the soil. The aim of this study was to evaluate the differences between conventional and encrusted seeds of *Urochloa brizantha* cv. MG-5, at different planting depths, through germination parameters. The experiment was conducted in a greenhouse of Unifesspa, located in Marabá, Pará state, in the period of August to November 2016. Was adopted a completely randomized design in factorial scheme 5 x 2, being a factor the two types of seed of *Urochloa brizantha* cv. MG-5 and the other factor was five seed sowing depths (0, 2.5, 5, 7.5, 10 cm), with five replications. From the collected data were calculated rate, speed and average time of germination. Differences were observed between seed types and depths for all variables studied, however only for the variable speed of germination there was interaction between the factors. The split of the interaction between seed type factors and planting depth shows that only in the two most superficial depths (0 and 2.5 cm) inlaid seeds had a higher rate of germination than conventional seeds. There was an increasing quadratic effect for the mean germination time for the seeding depths, with a minimum depth of 1 cm. There was an increasing quadratic effect for the germination rate for the seeding depths, with a minimum point of 7.3 cm depth. It was concluded that when submitted to the same conditions of soil, temperature, luminosity and water regime, encrusted seeds have a better germinative performance than common seeds. The deepening of the seed in the soil profile decreases the rate and speed germination, and increases the mean germination time of MG-5 grass. For *Urochloa brizantha* cv. MG-5 independent of the type of seed the depth for the best germinative results is up to 2,5 cm.

Keywords: conventional seeds; encrusted seeds; germination rate; germination time; speed of germination.

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