The Effect of Growth Stages and Preservative Substances on the Quality of Pearl Millet Silage

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Abstract

The ensiling experiment of pearl millet at 5 growth stages: booting, flowering, milking, seed harvesting and the waste after seed harvesting were undertaken using 5% ground corn or 5% molasses as preservative substances. The experiment was conducted by using Split Plot in Randomized Complete Block Design with 4 replications. The best quality analysis of the silage resulted from pearl millet ensiled from seed harvesting stage added 5% ground corn with the following compositions: 34.71% dry matter, 8.49% protein, 46.26 NDF, 53.74% NDS, 30.21% ADF, 55.07% IVDM, 58.12% IVOMD, pH 4.0, 1.18% lactic acid, 0.46% acetic acid and 0.05% butyric acid.

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