## Summary

The objective of this trial was to evaluate the effect on production and quality of *Panicum maximum* of deferring the utilization period. This trial was conducted at the Governador Valadares experiment station (166 m.a.s.l., 1165 mm rainfall) of the Empresa de Pesquisa

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Agropecuária de Minas Gerais (EPAMIG). The
trial was carried out at a site with flat topography
(sandy loam soil, pH 6.5, 99 ppm K, and 4 ppm
P), and at a site with 15%-25% slope (loam,
pH 5.6, 89 ppm K, and 1 ppm P). Cutting dates
to begin deferral were 9 and 30 January.

to begin deferral were 9 and 30 January, 20 February, and 12 March. Fourteen cuts were used a factorial design in 8 x 4 m plots.

The results showed that topography did not affect either DM quality or production. DM production was adjusted to the model

made, spaced every 12 days. Each topography

Y = A (1 - C (exp. - K\*days)), and was ascending until day 35 after cutting. The highest DM production (4.3 t/ha) was obtained when deferral of cutting was begun on 9 January and was not significantly different (P > 0.05) from yields obtained when cutting was done on 30 January (3.37 t/ha) and on 20 February (2.94 t/ha), but it was higher than the yield obtained when cutting was done on 12 March (2.35 t/ha).

The reduction in CP content with time was

higher (P < 0.05) when cutting was done on 9 and 30 January. The proportion of plant components (stem and leaf) varied because of effects of topography and cutting date.

This study shows the importance of deferring the use of *P. maximum* in Minas Gerais, as an economical practice to maintain forage availability in drought periods and to ensure pasture persistence.