GENETIC ANALYSIS OF MATERNAL LINES ON A BRAZILIAN NELLORE HERD.
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Birth, 120 d, weaning, 12 and 18 month weight and weight gain from weaning to 18 month of a
Brazilian Nellore herd, managed under grazing conditions were used to analyze the random
effect of maternal line (Lc) on growth traits. Pedigree information dataset had 27,476 animals.
The inclusion of maternal line (Lc) random effect in models of genetic was statistically
significant (P<0.05) for weaning weight in this specific Brazilian Nellore herd and the
inclusion of maternal line random effect in model of analysis increased genetic trend in 33%.
For that trait, 8% of phenotypic variance could be explained by Lc effect. Although statistically
significance for other growth traits was not detected, Lc explained from 2 to 5% of phenotypic
variance.