

基层园地

饲用玉米株龄与主要数量性状相关分析

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摘要:

通过测试饲用玉米(Zea mays)不同株龄的株高、株干质量、叶片干质量、籽粒干质量、株鲜质量、穗位叶面积、株初水分含量、饲用系数、经济系数等主要数量性状,以株龄的旬龄为自变量,以测试数量性状为因变量,经数量转换,进行回归和相关分析。结果表明,株初水分含量频率的概率单位与株龄(旬龄)间呈极显著负相关,其他数量性状的频率或累积频率的概率单位与株龄(旬龄)间呈极显著正相关,并用回归方程预测了7个数量性状的主要增长期。

关键词: 饲用玉米 株龄 数量性状 相关分析

Correlation analysis between plant age and main quantitative traits of silage maize

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Abstract:

The plant height, dry weight per plant, leaf dry weight, grain dry weight, fresh weight per plant, ear leaf area, initial moisture content of plant, feeding coefficient and economic coefficient with the different ages of silage maize (Zea mays) were measured to choose the suitable harvesting time for improving feeding quality and reducing production cost in this study. Ten days age (plant age) was considered as independent variable and the correlation relationships between plant age and quantitative traits were determined by the regression and correlation analysis. The results of this study showed that the probit of the initial moisture content of plants showed a significantly negative correlation relationship with the ten days age; however, and frequency of other seven quantitative traits or probit of cumulative frequency of other seven quantitative traits showed a significantly positive correlation relationship with the ten days age. The regression equation was used to simulate the major growth period of seven quantitative traits.

Keywords: silage maize plant age quantitative traits correlation analysis

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