

研究报告

贵引07-15等果蔗新品种(系)高产、稳产及适应性的分析评价

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摘要:

通过高稳系数法和农业试验统计的标准差和变异系数对贵引07-15等四个果蔗新品种区试、生产示范相关资料进行综合分析,结果表明:黔蔗00-126、贵引07-15、贵引07-16、贵引07-04在区试中,新植蔗平均产量比对照新植蔗平均产量分别增产48.15%、31.16%、26.67%、24.74%,宿根蔗平均产量比对照分别增产32.36%、28.49%、34.56%和7.35%,增产效果均达显著或极显著水平;3个生产示范点平均产区试点和生产示范中都表现高产。四个品种(系)的标准差和变异系数两项指标值都很小,说明四个品种(系)变异程度小,品种适应性好;而且,每个品种(系)的高稳系数(96%<HSCi<134%)都很高。综合说明四个品种(系)的高产性好、稳产性高,而且适应性较强,可以在海拔800 m以下各蔗区大面积应用推广。

关键词: 果蔗新品种;高稳系数法;高产稳产性;适应性

The Analysis and Evaluation on the High Productivity, Stability, and Adaptability of |New variety Sugar Canes 07-15

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Abstract:

Through comprehensive analysis on the production and modeling of four new sugarcane varieties including 07-15 by means of high stability coefficient and experimental statistics, the results showed that in the experimental test, the average production of new planting sugarcane Qianzhe 00-126, Guiyin 07-15, Guiyin 07-16 and Guiyin 07-04 increased by 48.15%, 31.16%, 26.67% and 24.74% compared with the control variety; the average production of ratoon sugarcane was higher than control by 32.36%,28.49%,34.56% and 7.35%, respectively. Yield increase showed a significant or a very significant difference between test and control. The average production in three production demonstration sites all presented the trend of high yields. The standard deviation and variance coefficient were very low, which indicated that the degree of variation of these four new breedings were very low with preferable adaptability. The coefficient of stability is relatively high(96%<HSCi<134%). According to the facts and the statistics mentioned above, these four new breeding sugarcanes are featured by high productivity, stability, and adaptability, which could also be applied in large denomination below altitude 800 m.

Keywords: new breeding sugarcane high stability coefficient method high productivity and stability adaptability

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