

研究论文

海岛棉零式果枝与长果枝品种间杂交F1目标产量性状的决策分析

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摘要 采用MINQUE (1) 统计方法, 利用AD模型对9个海岛棉品种 (系) 及其20个F1组合产量性状的两年资料进行了相关分析和目标产量性状的决策分析。结果表明, 不同性状间遗传组分相关系数的大小顺序并不能代替其他性状对霜前皮棉产量和皮棉总产决策系数的大小顺序。还确定了提高海岛棉零式果枝与长果枝品种间杂交杂种后代霜前皮棉产量和皮棉总产的主要决策性状和限制性状。

关键词 [海岛棉](#) [相关分析](#) [F1决策系数](#)

分类号 [S562](#)

The Decision Analysis on the Aim Yield Traits of F1 between “O” and “Long-Fruit-Branch” Plant Type in Island Cotton

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Abstract The genetic correlations and decision coefficients on aim yield traits of 9 parents and their 20 F1 crosses of between “O” and “long-fruit-branch” plant type in Island Cotton (*G. barbadense* L.) for 2 years were analyzed for their additive and dominance effects by MINQUE(1) approaches. The results indicated that the orders of correlation coefficients on genetic components between different traits could not take the place of those of the decision coefficients for other traits to lint yield at pre-frost and total lint yield. The principal decisive and restricted traits were conformed for improving lint yield at pre-frost and total lint yield of hybrid progeny between “O” and “Long-Fruit-Branch” plant type varieties in Island Cotton.

Key words [Island cotton](#) [Correlation analysis](#); [F1 decision coefficients](#)

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