

园艺—研究报告

香梨杂种后代营养枝叶片与果实性状的相关性研究

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摘要:

为研究香梨杂交后代叶片性状与果实性状的相关性, 通过叶片性状对香梨杂交后代进行早期预选。对香梨12个杂交组合的杂交后代的营养枝不同部位叶片、枝条性状和果实性状之间的相关性进行分析。结果表明: 香梨杂交后代果实单果重、纵横径、果形指数等性状之间具有显著或极显著的正相关性。营养枝基部、中部和顶部叶片性状之间的相关性有所不同。基部叶片叶形指数与单果重、果实横径具有显著的正相关; 中部叶片叶面积与果心大小呈极显著的负相关, 与纵径呈显著的正相关; 叶宽与果心大小呈极显著的负相关。顶部叶叶面积、叶宽与果心大小具有显著的负相关性。营养枝节间长度与果实单果重、纵横径呈显著正相关, 可利用回归方程进行苗期或幼树期的预测。

关键词: 相关性

Study on Correlation between Leaf of Vegetative Shoot Character and Fruit Character in Hybrid Progeny of Fragrant Pear

Abstract:

The correlation between leaf character and fruit character in hybrid progeny of fragrant pear were studied, early stage selection was conducted in hybrid progeny of fragrant pear by leaf character. The correlations among different leaves of vegetative shoot character, branches character and fruit character in the progeny of 12 fragrant pear cross combinations were studied, the results showed that the significant or very significant positive correlation were presented among single fruit weight, fruit horizontal diameter, fruit vertical diameter, fruit-type index and other characters in hybrid progeny of fragrant pear. It showed different correlation with leaves characters on the basal part, the middle part, the top part of vegetative shoot. Leaf index of basal leaves was significantly positively correlative with fruit vertical diameter and single fruit weight. The very significant negative correlation was presented between leaf area of middle leaves with fruit core size, and the prominent positive correlation was presented between fruit horizontal diameter. The very significant negative correlation was presented between leaf width with fruit core size. Leaf area of top leaves and leave width were significantly negatively correlative with fruit core size. Internode length of vegetative shoot was significantly positively correlative with single fruit weight, fruit horizontal diameter and fruit vertical diameter. The regression equation also can be used to forecast seedling stage and sapling stage.

Keywords: correlation

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