Path Analysis Of Character Plant Agronomics Cotton (Gossypium Sp.) Against Cotton Production

Virda Fauziah

Cultivation Plantation of Corps Study Program
Agricultural Production Department

ABSTRACT

The purpose of this study was to determine which agronomic characters can be used as selection criteria to increase cotton production through path analysis program. This research was conducted from October 2019 to February 2020, at the Jember State Polytechnic. The method used in this study is to perform correlation analysis, path analysis, calculate direct and residual contributions, and select agronomic characters that can be used as selection criteria. The results showed that the highest correlation analysis between agronomic characters and yield characters was found in the number of fruit characters on cotton production (RX9Y = 0.835). Based on the results of the path analysis conducted, it is known that there is the highest direct influence between agronomic characters and yields, namely on the character of the number of fruits and cotton production (PX9Y = 0.971). The highest direct contribution was found in the character of the number of fruit at 81.124%, with a total contribution of 98.321%, and residue of 1.679%. The agronomic character that can be used as a direct criteria of selection is the number of fruits.

Keywords*: Cotton (Gossypium sp.), Correlation Analysis, Path Analysis, Direct Selection.*