

CORRELATION AND PATH COEFFICIENT ANALYSIS OF YIELD COMPONENTS IN POTATO (*Solanum tuberosum* L.)

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ABSTRACT

This study was conducted in the years of 2000 and 2001 to determine the correlation coefficients between tuber yield and yield components and to find out direct and indirect effects on yield in various potato cultivars (Ausonia, Binella, Concorde, Granola, Jaerla, Marabel, Marfona, Satina and Velox) at research fields of Akdeniz University in Antalya.

Significant positive correlations were found between tuber yield and plant height, node number, leaf length, leaf width, leaflet length, leaflet width, tuber number and average tuber weight. Path coefficient analysis indicated that tuber number (0.7716 and at 85.25 %), followed by the average tuber weight (0.5133 and at 69.27 %) were the most important components for tuber yield in potato.

Key words; Solanum tuberosum L., Correlation coefficient, Path coefficient