CROSS-ANALYSIS OF AGRONOMIC TRAITS AND YIELDS OF NINE VARIETIES OF F1 CAYENNE PEPPER (*Capsicum frutescens* L.)

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ABSTRACT

Knowledge about the correlation between agronomic properties of cayenne pepper plants is used in the selection program to be efficient. Path Analysis is one of the causal relationship analyses and is a follow-up analysis of correlation and regression studies. This study aims to determine the correlation between agronomic properties and yields of cayenne pepper plants and to determine the direct influence between agronomic properties and yields of nine varieties of F1 cavenne pepper so that the characters that have a relationship with the yield can be known. This research method uses a one-factor Complete Randomized Block Design (CRBD) with three replicates. The planting material used includes nine varieties of F1 cavenne pepper, namely Dewata 43 F1, Dewata 76 F1, Rawita F1, Bhaskara F1, Rinta F1, Kara F1, Pelita F1, Maruti F1, Lentera F1. Each experimental unit consisted of 10 plants with 3 sample plants. The results of the study showed that there was a positive correlation between the yield component and the yield component in nine varieties of F1 cayenne pepper. The highest direct influence value on nine varieties of cayenne pepper is between the diameter of the fruit and the weight of the fruit planted. The diameter of the fruit is directly affected by the weight of the fruit plant in the varieties of cayenne pepper Dewata 43 F1, Dewata 76 F1, Pelita F1, Rawita F1, Lentera F1, Rinta F1, and Maruti F1.

Keywords: Cayenne pepper, Correlation, Cross analysis, Agronomic properties, Varieties.