

INFLUENCE OF GROWTH ATTRIBUTES AND THEIR ASSOCIATION WITH LEAF YIELD POTENTIALITY IN MULBERRY

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ABSTRACT

Correlation and path coefficient analyses were done to estimate the influence of growth attributes and their relationship with leaf yield in mulberry. Forty – five mulberry genotypes maintained in the germplasm bank of Bangladesh Sericulture Research and Training Institute were used in this study. Growth attributes were estimated following standard techniques of growth analysis. Correlation and path coefficient analysis were done following standard statistical method. It is revealed that all the growth attributes showed very strong and positive association with leaf dry weight/plant (LDW/plant) at both phenotypic and genotypic level except leaf area ratio (LAR). Among all the growth attributes taken under the study, only relative growth rate (RGR) and total dry weight (TDW) showed very high positive direct effect on LDW. Therefore, these two growth attributes might be considered for direct selection towards the improvement of leaf yield potentiality in mulberry.

Key words: Correlation, dry matter, growth attributes, leaf yield, mulberry, path analysis.