

ESTIMATION OF YIELD WITH ITS DIFFERENT PARAMETER BY IMPLICATION OF BIOMETRICS FOR CHHATTISGARH PENINSULAR ZONE

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ABSTRACT

The present study has been made on Sugarcane ACRIP voluntary centre, which is the experimental farm of S. K. College of Agriculture and Research Station, Kawardha, Kabirdham, for early sown sugarcane during cropping season 2014-15. The location of the experimental field is 22°15' N latitude, 82°48' E longitude and 280 MSL Altitude. Average rainfall for this region is 850 mm. The study has been made for the well known peninsular zone of Chhattisgarh. Total 16 genotypes (Thirteen genotypes from outside Chhattisgarh and three standards) were grown in RBD with two replications. The data on sugarcane has been collected at the time of sowing to harvesting on different parameters during the sugarcane crop growing season of Chhattisgarh. The correlation coefficient has been calculated for Growth attributes and quality Parameters and regression equation has been also generated for the same. This regression equation can be used as prediction equation. Maximum Correlation between yield attribute and yield was plant height and yield i.e. 0.55 and minimum was cane yield and diameter in cm (0.01). Two regression equations are developed. First equation developed for yield and their attributes and second equation for yield and their quality parameters. Second equation was significant at 1% level along with 75% R^2 .

KEYWORDS: Cane Yield, Correlation Coefficient, Growth Parameters Quality Parameters and Regression Equation