

**A STATISTICAL ANALYSIS OF THE EFFECT
OF HERBICIDES ON THE GROWTH OF OKRA
FLOWERING PLANT**

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ABSTRACT

In the project, the appropriate and precise herbicides required for yield of Okra plant parts such as flower, height, pod weight, pod length, no of pods per plant, branches etc. using the Complete Randomised Design, (CRD), LSD, Mean Comparison and Coefficient of Variance was employed to carry out the study. The project is divided into five chapters. Chapter One is the introductory part of the project where aims and objectives, scope of the study, brief history about the crop under consideration, terminologies of experimental design.

Chapter Two of this project elaborates on the literature review and element of experimentation in terms of the methods likely to be adopted. Chapter Three of the research work forms the research methodology which extensively discussed about all the statistical tools used for this project work. Tools like Analysis of Variance, (ANOVA), Least Significant Difference, (LSD) and Coefficient of Variance, (CV).

Chapter Four of the project work provides analysis using the statistical package S PLUS for Mean Comparison, One way ANOVA, General Linear Model, (GLM), and setting of hypothesis for the study and S PLUS interface was also captured, the interpretation of the result on different tools adopted for use etc. The result really showed the best treatments, (herbicides) adequate for respective parts of the okra crop part such as height, pod length, pod weight etc. The Coefficient of Variance showed generally through the grand coefficient of variance that the experiment was fairly managed since it exceeds level of efficiency, 30%. It shows that not all the parts were affected by the different herbicides such as flower etc.

Chapter Five states generally about the whole project work such as summary, conclusion and recommendation are also discussed.