



**National University of Science and Technology**  
**Zimbabwe**



**FACULTY OF INDUSTRIAL TECHNOLOGY**

**DEPARTMENT OF TEXTILE TECHNOLOGY**

**PROJECT TITLE**

**STUDY OF RESIDUAL PESTICIDES ON COTTON**

**BY**

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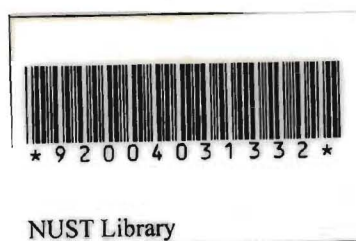
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# ABSTRACT

Cotton is major cash crop in Zimbabwe and many other countries. Pesticide use in cotton cultivation is an integral part. Many pesticides used have a residual effect. Extractions of pesticides residues in soil, water, and plant and cotton matrix were done on the Soxhlet apparatus and concentrated on the BÜCHI Rotovapor R-134 model. The solvents used were propanone (acetone), methanol, and dichloromethane. The samples were collected on site in Gokwe. Detailed determination both qualitatively and quantitatively could not be done due to the non availability of the GLC and other tools necessary to achieve quantitative analysis. The target pesticides were Dimethoate 40% (an organophosphate) and Actellic 50%(an organochlorine).