

The purpose of this study is to develop a procedure and interactive microcomputer program for estimating the parameters of mixed binomial, polya and mixed polya defectives prior distributions using bayesian economically-based criterion. This theory is applied to quality control in production of industries. In this study, three types of pineapple-cannery data are used in the program. They are attributed data.

This study is directed towards the resolution of three subroutine problems :-

1. Pattern Search Subroutine. To determine move strategy of basic vectors.
2. Objective Function Subroutine. To compute the values of SSD for the given values of the unknown parameters.
3. Subroutine Print. To print out the final values of the estimated parameters of the selected prior distribution.

The program in this study can also estimate the parameters of products in other productions. In conclusion, the parameters output of defectives distribution in quality control to be accepted should be appropriate and should have least SSD (Sum of squares of differences between two estimating values).