HIGHER TECHNICAL INSTITUTE

COMPUTER STUDIES COURSE

DIPLOMA PROJECT

TIME SERIES ANALYSIS AND FORECASTING COMPUTERIZED SYSTEM FOR FRUITS AND VEGETABLES

CS/139

SYSTEM ANALYSIS

Design by
Yiota Kaili

JUNE 1995

INTRODUCTION

This Software Package is to be used by the Agricultural Economics Section of the Agricultural Research Institute of Cyprus.

The activities of the Agricultural Economics Section are mainly concentrated on the design and execution of agroeconomic surveys, the collection and updating of input-output data for the main crop and livestock enterprises of Cyprus, marketing studies and analysis of time-series data.

England is the main country to which Cyprus exports fruits and vegetables. Due to this the Agricultural Economics Section needs to have information concerning the London Market. Since 1992 a list of London Market Prices on imported fruit and vegetables issued by the Fruit Importers Association is received by this Section every week.

From 1992 until now the information of these lists has been kept in a database through a simple computerised maintenance program. Now the Section needs a Computerized System for Time Series Analysis and Forecasting of the prices for the fruits and vegetables exported from all the countries to the London Market.

The System among other things will provide statistical information so that the Cypriot products will survive in the London Market. This survival depends on the decision when to export certain products as well as the production of new products. A result of Cyprus staying alive in the market, will

be the maximum profit that can be gained for the Cypriot
agriculturists.

C O N T E N T S