

Linear Programming In Agriculture Using The Solver Tool Of Excel.

Fytillis S. Konstantinos

Abstract: Business research consists of a set of important quantitative techniques based on mathematical programming, which have been used effectively in various management processes. Linear programming is one of the most widely used techniques in this group. For a long time, linear programming was used for programming in agriculture and crop management. The present study uses linear programming for crop management in an arable area in central Greece. The current situation is compared with the best solution proposed by the methodology. The solver tool of excel is used. Constraints taken into account are fertilization, irrigation, working hours and land uses. As a result, there are savings of restrictions and a significant increase in yields of the proposed crops.

Keywords: Linear Programming, Crop management, Agriculture, Constraints, Function, Solver, Excel .

1 INTRODUCTION

Each producer must make the right decisions about the products he will produce through the crop or crops he has, the method he will use, the final quantities he will produce and the time period in which he will produce the products. In order to make these decisions, he must take into account both the physical and financial constraints of his exploitation as well as the relative uncertainty about the period ahead of him in order to implement his decision. Uncertainty is affected by forecasts of crop yields, costs, prices of each product produced as well as the requirements of the factors of production in relation to their available quantities. Producers tend to rely on their experiences, comparisons with neighboring crops and their intuition to make specific decisions [1]. Linear Programming (LP) methodology is the most popular model in business research and management science. Its success in decision-making problems in both public and private companies as well as in organizations is due to the achievements of economists and mathematicians as well as to the development of technology and information technology. It is now widely accepted that most applications of business research models to management problems are solved by linear programming [2]. Linear programming is used to provide the optimal or minimum solution to a limited problem. It deals with the planning of the activities of a system in order to produce the best result, that is, the one that among all possible alternatives achieves the predetermined purpose in the best way [3]. Linear programming applies solutions to theoretical computation as well. Used to model combinatorial problems that at first glance do not seem to be related to linear programming [4]. The first mathematical formulation of the problem as well as a process of solving it, the Simplex algorithm, is due to G.B. Dantzig in 1947 [5]. In this study, 8 crops in the study area were evaluated according to the current situation and through the linear

programming methodology, the optimal solution was proposed. The data of the Ministry of Rural Development and Food of Greece and from OPEKEPE (Hellenic Common Agricultural Policy Payment Authority) were used to calculate the total yields of the crops, as well as the needs of crops for irrigation, fertilization and working hours (labor).

2 LITERATURE REVIEW

Many studies have been performed using linear programming. The following are 3 typical examples. In their 2012 study, Andreea, I. R., & Adrian, T. R applied an econometric model using linear programming to optimize profit. After the application of the model, the profit was compared. The results showed that profits increased by 143% and costs decreased by 81% [6]. In another study by Ward, JD et al in 2016 in North Adelaide, Australia, linear programming was used to explore different food preferences and determine the suitability of urban farming. The results showed that linear programming can be used effectively to explore optimal cultivation based on the amount of land available [7]. Otoo, J. et al., in 2015, used the linear programming methodology in their study to present the best crop solution in the Fanteakwa area of Eastern Ghana. The model significantly increased crop yields, while saving available resources on capital and labor. This resulted in an increase in producers' profits [8].

3 MATERIALS AND METHOD

3.1 Study Area and data

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Studies In Linear Programming

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of Water Resource Systems Water Resources Scientific Information Center,1975 Introduction to Linear and Convex Programming Neil Cameron,1985-09-05 This introduction to optimization emphasizes the need for both a pure and an applied mathematical point of view Beginning with a chapter on linear algebra and Euclidean geometry the author then applies this theory with an introduction to linear programming There follows a discussion of convex analysis which finds application in non linear programming The book ends with an extensive commentary to the exercises that are given at the end of each chapter The author s straightforward geometrical approach makes this an attractive textbook for undergraduate students of mathematics engineering operations research and economics **Land Economics Research** Joseph Ackerman,Marion Clawson,Marshall Harris,2016-03-17 Originally published in 1962 Land Economics Research brings together papers presented at a symposium in Nebraska in 1961 which deal with ideas theories and suggestions in land economics to encourage problem solving in American land issues This report draws on all types of land all situations and all economics problems related to land issues This title will be of interest to students of Environmental Studies and Economics as well as professionals *Mathematical Methods of Operations Research* Thomas L. Saaty,2004-01-01 The first graduate level text devoted to the subject this classic offers a concise history and overview of methods as well as an excellent exposition of the mathematical foundations underlying classical operations research procedures It begins with a review of historical scientific and mathematical aspects examples and ideas related to classical methods of forming models introduce discussions of optimization game theory applications of probability and queuing theory Carefully selected exercises illustrate important and useful ideas This text is an ideal introduction for students to the basic mathematics of operations research as well as a valuable source of references to early literature on operations research 1959 edition **Government-wide Index to Federal Research & Development Reports** ,1967 Research and Technology Program Digest United States. National Aeronautics and Space Administration, **Optimization and Decision Science: Operations Research, Inclusion and Equity** Paola Cappanera,Matteo Lapucci,Fabio Schoen,Marco Sciandrone,Fabio Tardella,Filippo Visintin,2023-07-15 This volume collects peer reviewed short papers presented at the Optimization and Decision Science conference ODS 2022 held in Florence Italy from August 30th to September 2nd 2022 organized by the Global Optimization Laboratory within the University of Florence and AIRO the Italian Association for Operations Research The book includes contributions in the fields of operations research optimization problem solving decision making and their applications in the most diverse domains Moreover a special focus is set on the challenging theme Operations Research inclusion and equity The work offers 30 contributions covering a wide spectrum of methodologies and applications Specifically they feature the following topics i Variational Inequalities Equilibria and Games ii Optimization and Machine Learning iii Global Optimization iv Optimization under Uncertainty v Combinatorial Optimization vi Transportation and Mobility vii Health Care Management and viii Applications This book is primarily addressed to researchers and PhD students of the operations research community

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