

Modeling the optimum allocation of agriculture sector budgeting in Khorasan-e- Razavi province

Abstract

Stock shortage is one of the development impasses in developing countries and though it the agriculture sector has faced with the most limitation. Iran's agriculture sector in has many undeveloped due to ineffective conduct of stocks to this sector. So that, The share of Iran's agriculture sector from total investments after the Islamic revolution (1979) has been about 5 percent. This fact causes to low efficiency in Iran's agriculture sector. Therefore, it is clear that while increasing the investment in agriculture sector, modeling the budget optimum allocation for this sector is mandatory which did not carry out comprehensively and scientifically until now. Thus in this research budget optimum allocation of Iran's agriculture sector was modeled with the case study of Khorasan Razavi province. For this purpose the required data was gathered from Khorasan Razavi's Jihad Keshavarzi statistics and distributed questionnaires between Khorasan Razavi's agriculture experts during 2006-2015. In order to modeling firstly optimum budget allocation between agriculture programs was modeled with compounding three indexes: Analyzing the priorities of Khorasan Razavi province's agriculture sector experts in related to the importance coefficient of each program in agriculture sector's upper hand document with the application of Analytical Hierarchy Process (AHP), Average share of agriculture sector programs from 4th country's development program for Khorasan Razavi province's agriculture sector, and Average share of agriculture sector programs from 5th country's development program for Khorasan Razavi province's agriculture sector. Then, using Delphi technique potential indexes of each program was determined. After that, determined potential indexes were weighted using Analytical Hierarchy Process (AHP) and finally, using numerical taxonomy model the optimum allocation of programs budget was modeled between cities based on two scenarios. Notice to this fact that this study provided a scientific and comprehensive model for budget allocation of agriculture sector between programs and cities using agriculture experts for the first time, it is suggestible to governors and Jihad Keshavarzi organizations to apply the results of this study.

Keywords: Agriculture sector, optimum budget, Numerical taxonomy technique, Delphi technique, Analytical Hierarchy Process (AHP), Modeling.



دانشگاه زابل

University of Zabol
Graduate School
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The Thesis Submitted for Fulfil the Degree of Ph. D.
(In the Agricultural Economics Field)

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Budgeting in Khorasan-e- Razavi Province**

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JUN 2016