

Determination of farm plan in order to organic crops production in selected districts of Kerman province

Abstract

Parallel to the increasing global population, providing food for human society is faced with serious limitations. One of the biggest challenges has been the problem of food security and increasing agricultural production in recent decades. This has led to overuse of pesticides and chemical fertilizers to meet human needs and the harmful effects it has. In recent years, efforts have begun to return to organic farming. The present study is planned in such a way that the head of arable crops in addition to economic and environmental goals, targets production of organic products also consider, Therefore, in this study, the application of goal programming methods (GP) and combining them into model (ELGP), Based on multi-criteria decision making (MCDM) presented. For this order the question of allocation of agricultural land between basic products Bardsir and Orzooiyeh counties in the Kerman province were studied. The requirement information obtained by means of questionnaires and interviews with 567 arable farmers using simple random sampling in 2013. According to the results, the change in cropping pattern to optimal crop pattern, you can while production of organic products increase the benefit. In order of 6 Goals priorities of specified in the model. The results showed that, the total area under cultivation of crops without any loss of profit, increase and decrease the use of inputs so that any deviation from the ideal of non-use of pesticides has been accomplished and this is shows reach the level decision acceptable and the diversion of chemical fertilizer to replace organic fertilizer provided. The production of to current situation in the region Bardsir wheat and barley and in Orzooiyeh alfalfa, potatoes and cotton in a complete balancing between the objectives, the crops were excluded. So inform farmers of the benefits of organic farming and the support of the government can be an effective step in moving towards sustainability.

Key words: Cropping Pattern, Organic products, Goal Programming , Kerman



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