

عنوان مقاله:

Designing an Appropriate Cultivation Pattern for an Arid Region With Application of Compromise Programming (Case study: Sistan region in Iran)

محل انتشار:

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خلاصه مقاله:

In this paper, compromise programming used to solve a multiple-objective model for designing the best Cultivation Pattern. In this model, objectives are simultaneously achieved by minimizing the distance between current objective values and the ideal ones. The case study is Sistan region in Sistan and Balouchistan Province of Iran. There are serious water problems in this region. In used data and information for this study, relates to the years of 2004-2011, when the area was under drought. To satisfy future water demands for farming, compromise programming is applied to aid decision makers, which are local decision-maker (PWSC) and national DM (NWSC), to select the best possible cultivating scenario among others in the region. At first, nine alternative scenarios were chosen. Then, after solving the model, considering to importance of the water and among three good scenarios (the scenarios number 4, number 5 and number 6), scenario number 6, which is compromise solution from DMs' view, is the best one. This scenario consist all considered criteria in this paper. Therefore, it is recommended for Sistan region with 245000 ha arable land. This cultivating pattern is allocation of 165289 (ha) to cultivate rapeseed, 68965 (ha) to melon and other crops in this group. The obtained results reveal that the method is capable of being employed by decision-makers for farm management plan studies.

کلمات کلیدی:

Decision making; Compromise Programming model; Farm management

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