



Determining optimal exploitation system in agriculture with respect to sustainability: The case of Kurdistan County

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Due to agricultural sector is a significant element of rural economic, the optimization of exploitation systems of resources and factors could help to productivity, efficiency, reducing the costs, improving income of rural people and consequently the poverty and vulnerability will be reduced. Rational use of the nature and its benefits and combining inputs in agriculture is important with respect to economic dimension. Therefore, the purpose of this study was to determine the optimal exploitation system of agriculture with regarded to sustainability in purpose to extent it. This model can also increase rural income, a positive role in sustainable development. With reviewing and analyzing the literature review the criteria of sustainable exploitation system were identified with consider to organic approach. The analytic hierarchy method (AHP) in the software expert choice was used as a method of analysis applied to the desired weight was used. The population of the study was experts and professors in Kurdistan province. Therefore, 15 samples were selected purposively. The instrument of the study was a questionnaire. The finding of hierarchical analysis revealed that exploitation of the "Rural Production Cooperative" among other operating systems with the highest weight of an agricultural operation system was optimized from the viewpoint of sustainability. So given the task of agricultural extension and education and its role in helping farmers to be responsible in creating and restoring them to help rural production cooperatives.

Key Words: Hierarchical analysis, Sustainable agriculture, Exploitation system.