Economy-Wide Modeling of Rangeland-Related Ecosystem Services in Jordan

Project Team



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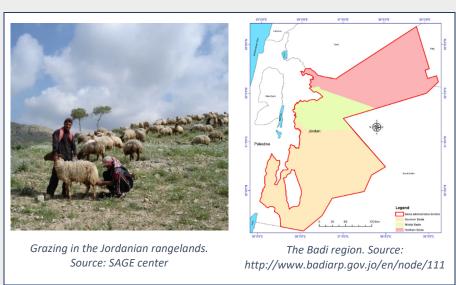


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The rangelands in Jordan provide several environmental, economic, and cultural values on a local and national level, also known as ecosystem services.

Most Jordanian rangelands are located in the arid and semi-arid rangelands, also known as the Badia region, which has experienced substantial degradation in recent years due to several natural and social factors such as climate change and population and overgrazing.

In this project, our objective is to develop a comprehensive framework for rangeland management by considering the **links between ecological and socioeconomic systems**.



To examine these links, we develop a Computable General Equilibrium (CGE) model, which is a computational representation of the economy that depicts economic transactions between producers, households, and the government.

The model will be enhanced by including ecosystem services and then used to simulate and analyze different shocks and policy options affecting rangelands.



The project is part of the Centre on Sustainable Adaptation to Global Change in the Middle East (SAGE) which is a consortium of international researchers and experts from academia, government and civil society for

the provision of science-based solutions to the problems caused by climate and land use change in the Middle East. Its main goal is to build capacity and promote knowledge exchange in the field of climate change and environmental protection in the Middle East.



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