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## **Water and forage assessment for livestock grazing**

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This paper follows FAO model of suitability analysis. Influential factors affecting extensive grazing are determined and converted into a model. 6 different regions with different climate and features in Iran were examined for common types of grazing animals and advantages and limitations were elicited. All range ecosystems' components affect range suitability but due to the time and money restrictions, the most important and feasible elements were investigated. From which three sub models including water accessibility, forage production and erosion sensitivity were considered. Suitable areas in four levels of suitability were calculated using GIS. This suitability modeling approach was adopted due to its simplicity and the minimal time that is required for transforming and analyzing the datasets. Managers could be benefited from the model to devise the measures more wisely to cope with the limitations and enhance the rangelands health and condition.

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