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Range management for M.Sc Degree in De-desertification

**Rangeland Suitability Assessment for
Sheep Grazing based on FAO Method
and its Integration with Fuzzy-AHP
Technique (Case study: Bagheran
Watershed, Birjand)**

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Abstract:

Pasture ecosystems is one of the most complex ecosystems are considered to be very precise relations between its components there. This would require that existing pasture resources in each area for different types of operation are properly assessed and land suitability is determined for each type of user as well. It is therefore one of the major factors that determine the significance in the management of rangeland pasture competence and understanding of the factors affecting it. The aim of this study was to determine the merits of birjand, bagheran watershed in the pasture is an area with area of 11879/32 hectares of FAO in the geographic information system and its integration with AHP-Fuzzy method. To determine the eligibility of three models of water resources, erosion and production were studied. The results of the FAO model shows that 32/63 percent of the lands on the floor, merit S2 and 21/13 % of the lands on the floor 18/06 floor, merit and competency in S3% N and have placed the resulting progenies of the AHP model combined linear-w On help 6/21 % pasture land indicated in 55/43 % merit class S1, S2 and merit class land land 9/55 % non-qualified class Are placed. AHP-Fuzzy model-more detail On the region and examined pixel gives so much more detailed information than the FAO method gives us.

Keywords: land suitability, GIS, FAO, AHP-Fuzzy, bagheran Mountain