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Factors affecting rangeland utilization by ranchers in the Golestan rangelands, Iran

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Introduction

In Iran, rangelands produce most of the forage resources for livestock. There are various types of traditional grazing systems for the utilization of rangelands, including the consultative, collective and operational multiplayer systems. In the consultative type, certain people are selected by the ranchers and they determine the utilization method and manage grazing. In the collective system, all ranchers use rangeland in common. In the operational multiplayer system, rangelands are used in common but the ranchers share rangelands by rancher-rancher negotiation. This research was undertaken to investigate the human factors as rancher's effect on rangeland utilization in different systems above mentioned.

Method

The study area was located in Golestan summer rangelands, east of Mazandaran Province, northern Iran. This research investigated the effectiveness of utilization types on rangeland condition based on user's viewpoints. Information on utilization indicators was sought for each rangeland system, including livestock increasing, cooperation of ranchers in rangeland management, level of ownership felt by the ranchers and the level of government support. At the time of the first questionnaire, forms were

distributed randomly amongst ranchers in the area. All of the parameters were determined based on rancher viewpoints. The data obtained were analyzed by a Likert method (Rafipoor, 2006).

Results

The result showed that the collective utilization system was the favoured system (58%) in the study area (Table 1). Rangeland users were then interviewed to determine their influence on rangeland utilization (Table 2). The feeling of user ownership was high in the collective and operational multiplayer systems. Also, the level of government support was relatively low in the consultative and operational multiplayer systems but higher in the collective system (Table 2).

Table 1. Users surveyed in Golestan

Utilization type (system)	Population of users	(%)	Users interviewed
Consultative	22	(23.9)	6
Collective	54	(58.7)	8
Operational multiplayer	16	(17.4)	7
Total	92	(100)	21

Table 2. The effect of grazing system on rangeland utilization, from the point of view of users. The less and more terms were determined based on rancher viewpoints recorded in the questionnaire

Factors	Significant	Consultative	Collective	Operational multiplayer
Increase in livestock	Less	30	42	60
	More	70	58	40
	P	0.03	0.17	0.26
Cooperation between users	Less	35	40	79
	More	65	60	21
	P	0.01	0.04	0.35
Sense of ownership	Less	55	2	1
	More	45	98	99
	P	0.36	0.001	0.001
Level of government support	Less	75	29	70
	More	25	71	30
	P	0.23	0.11	0.019

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Conclusion

There are different kinds of utilization patterns in the consultative, collective and operational multiplayer forms of the traditional system of managing Iran's rangeland (Saedi *et al* 2011). Among these kinds of utilization, the consultative method was seen by the rangeland users as the preferred way to control rangeland, because not only do the users retain sufficient local control of grassland management but also experience with this approach has led to the better condition of vegetation. It seems control of grazing

pressure is low in other methods but in the consultative system each local council has control over all applications.

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