

# METHODOLOGICAL ISSUES FOR PROCESSING PASTURE LAND MANAGEMENT IN THE GOVI REGION

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**Abstract.** *Pasture land use plan problems in Mongolian desert steppe and desert have become worse in years to come. Economic, social and ecological adverse consequences have occurred because of more increased overgrazing which is natural resources. The research work purpose is to study pasture land using features and to determine ways of grazing improvement methods in the Govi region. Saintsagaan soum, Dundgovi aimag was selected with regard to the research purpose. Pasture land using features, nomadic style and geographic location of the soum was studied and the pasture land use plan was developed and implemented with participant of local people and community in 2015. For the Saintsagaan soum, the largest proportion of the herders makes migration to other aimags and soums and the plan suited to the feature was processed. In 2015, a review of the implementation of the plan and ways for further improvement was identified.*

**Goals.** Process pasture land management plan in the Govi region and develop ways to monitor for the implementation and to process the improvement ways. Following objectives are set in order to achieve the purpose

## **Objective**

- Pasture land use planning
- Monitoring and evaluation to pasture land use plan

**Methods.** Method of the pasture land use plan with participant of local people provided in “Method of the soum land management plan processing for the year” 2010 written by Doctor Gerlee Sh. was used for developing the Pasture land use planning desert and steppe region which provided participant of local people in way of bottom-up planning.

For monitoring and evaluation of implementation of the plan, herders and expert were asked questionnaire which included 105 herders, 5 experts, 4 heads of the Bags and local governors. Performance which is impossible to quantified by the percentage is defined in comply with the

“Regulation for the Monitoring Procedures Assessment Results” approved by Governmental Resolution of November in 2010.

### Results

Pasture land use plan for Saintsagaan soum-2015 was developed in accordance with the following measures.

1. Plan to provide the winter and spring camp land possession, long-term use of the pasture land , hayfields possession and use
2. Plan the measures to determine pasture land yield amount and to regulate pasture capacity.
3. Plan activities of pasture land protection, improvement, irrigation, rehabilitation and disinfection
4. Plan organized movements in order to overcome poor weather conditions or pasture land shift
5. Plan measures to improve pasture land irrigation
6. Plan use and protection of intensive animal husbandry region,

Following recommendation provided and summarized as result of variety of ideas by herders and Heads of the Bags with regard to the pasture land management plan implementation and its improvement.

- To develop and implement pasture land management plan based on participation of the local people, to involve the local people to monitoring process, to provide information and promotion, to increase participation of soum’s experts and head of the Bags and to build system of accountability;
  - To test and implement pasture land management methods based on pasture land rehabilitation capacity to the pasture land management plan in Govi region, as result, to plant the measure suited to the rehabilitation capacity in appropriate range of land and reasonably introduce pasture land using feature;
  - Seeing from the research result, there is lot of herders’ interest of participation which shows all herders’ willingness to cooperate. It facilitates to develop and implement the plan based on the local herders’ participation and feedback, to increase the herders’ participation;
  - Local administration will promote any experts, herders and groups which initiate and find financial resources for pasture land management plan implementation;
  - To nomad in certain area such as bush and straw, and in fenced area, build fencing to control the pastoralists, establish group of herders for protecting the pasture land and encampment, form herders to cooperate into the organization, build fence in winter camp area and pasture land , use pasture land under schedule and improve structure of livestock;
  - To take measures to regulate the movement of outside encampment;
  - To make Pasture land Management Agreement with the group of herders;
- Saintsagaansoum has 4 herder groups and it is divided into 4 pasture land users.

Table 1. Area of Bag

Herder group	Area (ha )
Naran	79.7
Tevsh	77
Dalai	107.2
Uizen	69.2



There are name, number, size, pasture land situation, number of livestock, the type of dominant pasture land and average yield per a hectare of each pasture land section in below.

- **Naran Group:** the group name is Naran and size of the territory is 79.7 hectares. There is total of 85 winter and spring camps. The group has total of *real* 29340 or 38148 units of sheep.
- **Tevs Group:** the group name is Tevsh and size of the territory is 77.0 hectares. There is total of 98 winter camps. The group has total of *real* 57097 or 82332 units of sheep.



Table 2. Average annual capacity of the pasture land of the group of herders in Saintsagaan soum

Number of pastureland usage	Name	Size, Hectare	Yield per hectare (centner)	Total pasture land reserves (centner)	Grass amount used per a sheep in a year (centner)	Pasture land loading (head of sheep)	The number of sheep on the pasture land (by transferring to head of sheep)	Pasture capacity & utilization
Naran herder group								
1	Naran	79,7	2.0	159,4	4.2	37,952	38148	-196
Tevsh herder group								
2	Tevsh	77,0	1.2	92,4	4.2	22000	82332	-60332
Dalai herder group								
3	Dalai	107,2	0.4	42,8	4.2	10,190	53322	-43132
Uizen herder group								
4	Uizen	69,2	1.2	83,0	4.2	19,761	71573	-51812

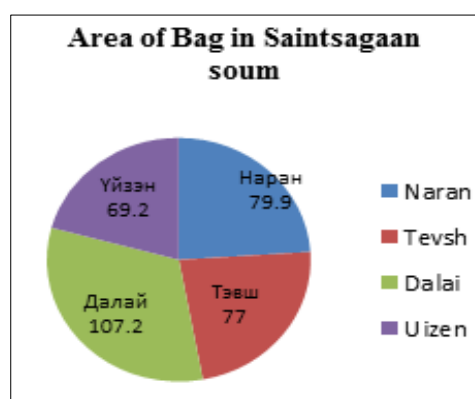


Fig. 1. Area of Bag

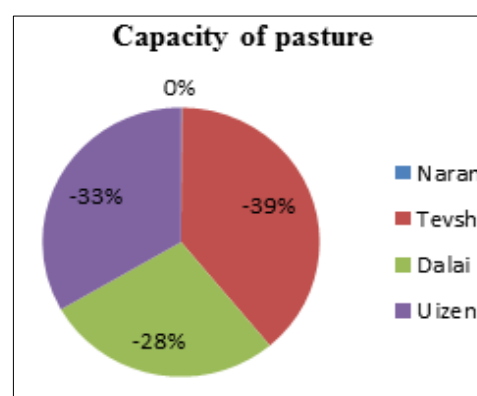


Fig. 2. Capacity of pasture in herder group

### Conclusion

1. The pasture land utilization practices should be introduced in order to improve pasture land utilization in the Govi region. In other words, the Herders are divided into migratory and non-migratory forms. Thus management measures met with the above requirements should be taken, and migratory and non-migratory forms should be introduced to the taking measures for receiving recommendation to the plan.

2. It is clear that the pasture land utilization, plan and management with participation of the local people are optimal way for implementing group organization. In other words, the research result shows that dividing the group into 3-4 pasture group which is widely used form in high mountains, forest and steppe areas is not appropriate.

3. The monitoring system is required for ensuring for the pasture land utilization, planning and implementation

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