Plant Enhancement Activity – PLT16 – Intensive management of rotational grazing

Enhancement Description
This enhancement is for the harvest efficiency of grazing livestock to increase forage harvest, and to improve forage quality and livestock health. The grazing system is managed to produce high quality, nutritious forage and maintain plants with sufficient energy reserves to recover quickly when adequate soil moisture is available for regrowth. Generally, livestock are rotated through pastures in the grazing system based on the physiological growth and nutritional stage of the forage plants and the daily dry matter intake and nutritional requirements of the animal. This enhancement is for: rotational grazing systems with increased numbers of pastures or paddocks, the accompanying required infrastructure, shorter grazing periods, and increased stock density. Selection of this enhancement requires the activity to be planned concurrently on all eligible land use acres.

Land Use Applicability
Pastureland, Rangeland, Forestland

Benefits
The main benefits of Intensive Management of Rotational Grazing are efficient resource use with increased forage utilization, improved manure distribution, and nutrient cycling throughout the grazing acreage, and increased carbon sequestration resulting from greater forage harvest. Optimal environmental conditions are achieved by maintaining healthy, actively growing forage plants that improve the quantity and quality of cover available for wildlife and protect the soil surface from erosion, thereby reducing risks to ground or surface water quality.

Conditions Where Enhancement Applies
This enhancement applies to all grazed acres designed as pasture, range or forest land use acres on the entire operation.

Note: the grazing acres of the operation must have a defined rotation before selecting this enhancement. A single grazed field/pasture does not constitute a rotation. The minimum number of grazed fields/pastures shall be determined by each state.

Criteria
A prescribed grazing plan is developed that increases harvest efficiency by utilizing a 75% increase in the number of pastures/paddocks per movement group (herd). See the attached “Supplement” for specifics on harvest efficiency.
Adoption Requirements
This enhancement is considered adopted when a prescribed grazing plan is complete, and implementation of the plan has begun, that incorporates a 75% increase in the number of pastures/paddocks, including the necessary infrastructure (fences/water/etc.)

Documentation Requirements
1. Copy of signed “National Supplement to Plant Enhancement Activity – PLT 16 – Intensive management of rotational grazing” certifying that a grazing plan has been implemented with a 75% increase in the number of paddocks/pastures for the herd (movement group) increasing the harvest efficiency resulting from greater stock density and reduced grazing time per pasture/paddock.

2. A map or aerial photo showing the pastures/paddocks making up the rotational grazing system. The layout of the pastures/paddocks both before implementation and after implementation shall be delineated on the map or photo.

References


National Supplement to Plant Enhancement Activity – PLT 16 – Intensive management of rotational grazing

State: ________________________  Participant: ______________________________

Increase harvest efficiency resulting from greater stock density and reduced grazing time per pasture/paddock

Change the current grazing system to allow for an increased number of pastures or paddocks, including the necessary infrastructure (fences/water/etc.), shorter grazing periods, and increased stock density. The grazing plan should document the planned length of grazing periods in pastures and length of time between grazing periods for an overall reduction in total grazing activity per pasture and an increased harvest efficiency resulting from greater stock density and reduced grazing time per pasture/paddock because of the 75% increase in the number of paddocks/pastures for the herd (movement group).

Criteria: Use the following formula for documentation, and attach a plan map showing the location of the grazing system design. The following example is provided.

EXAMPLE:
A. Current # of Pastures/Paddocks  6
B. Planned # of Pastures/Paddocks  11
C. % Increase = ((B/A)-1)100
   = ((11/6)-1)100 = ((1.83)-1)100 = (1.83)100% = 83%

Grazing Plan:
A. Current # of Pastures/Paddocks  __________________
B. Planned # of Pastures/Paddocks  __________________
C. % Increase = ((B/A)-1)100  __________________

Operation and Maintenance:
Operation: Livestock grazing plans should accommodate increased rest of grazing units, particularly during the active growing season of desirable rangeland and pasture species. Planned grazing use should not exceed 60% of annual production. Additional practices and inputs such as cross fences and water facility development may be required to facilitate adequate rest periods and increased harvest efficiency.

Maintenance: Grazing unit rotation of livestock should be accomplished annually, alternating the planned rotation sequence of grazing units each subsequent year, or specifically providing growing-season rest periods based on individual pasture condition.

Certification:
I certify that I have applied the grazing management system as explained in the narrative in the field(s) and listed in the table above.

Name: ________________________________________ Date: ____________________
Additional guidance for management intensive grazing:

The enhancement applies only where a rotational grazing system is already established, with a minimum of 4 paddocks/pastures. Management intensive grazing is a rotational grazing system where livestock are moved through pastures based on their daily dry matter intake and the nutritional and physiological growth stage of the forage plants. A management intensive rotational grazing system should be planned according to Idaho NRCS Prescribed Grazing practice standard (528), with a required increase in the number of paddocks/pastures for the herd of 75% or greater. Refer to the National Supplement for PLT16.

Refer to the following guidance for more information:


Idaho NRCS Conservation Practice Standard 528 (and specifications), Prescribed Grazing.  

NRCS National Range and Pasture Handbook.  
http://www.nrcs.usda.gov/wps/portal/nrcs/detailfull/national/landuse/rangepasture/?cid=sitelprdb1043084

http://info.ag.uidaho.edu/forage/index.html

University of Idaho Extension, Jim Church, Grangeville. Management Intensive Grazing Works Well In North Central Idaho.  
http://www.uiweb.uidaho.edu/extension/impacts/Pdf_01/churchgrazingimpact2-01.pdf
This activity may NOT be used with the following enhancements:
PLT05, PLT17, WQL19  (on forest landuse)

Potential duplicate practices:
528 – Prescribed grazing, 614 – Watering Facility, 382 – Fence, 516 - Pipeline