CONSERVATION ENHANCEMENT ACTIVITY

E528G

Improved grazing management on pasture for plant productivity and health with monitoring activities

Conservation Practice 528: Prescribed Grazing

APPLICABLE LAND USE: Pasture

RESOURCE CONCERN: Plants

ENHANCEMENT LIFE SPAN: 1 year

Enhancement Description

Managing the harvest of vegetation with grazing and/or browsing animals as adjusted when following recommendations of a qualifying professional, as detailed in the enhancement criteria, generated through Pasture Condition Scoring (PCS).

Criteria

- A written plan for matching the forage quantity and quality produced with the grazing and/or browsing demand will be followed.

- Removal of herbage will be in accordance with site production limitations, rate of plant growth, the physiological needs of forage plants, and the nutritional needs of the animals.

- Adjust intensity, frequency, timing and duration of grazing and/or browsing (providing sufficient recovery time to meet planned, written objectives) to meet the desired objectives for the plant communities and associated resources.

- Deferment (non-grazing period less than one year) and/or rest (non-grazing period equal or greater than one year) will be planned for critical periods of plant needs (such as post-planting or renovation, severe drought, etc.).
• Manage grazing and/or browsing animals to maintain adequate cover on sensitive areas (such as riparian areas, wetlands, habitats of concern, karst areas, etc.)

• Manage livestock movements based on rate of plant growth, available forage, and allowable utilization target. Develop and follow contingency plans to deal with episodic disturbance events.

• The narrative management recommendations and implementation for duration and intensity of grazing and/or browsing will be based on the desired plant health and productivity objectives.

• Perform a soils test on the applicable acres for organic matter and nutrient analysis through a land grant university or accredited lab.

• Apply fertilizer and/or soil amendments according to a current soil test when plant vigor needs improvement.

• Follow guidelines provided by a Certified Forage and Grassland Professional, Certified Range Management Consultant, or Certified Professional in Range Management, NRCS Technical Service Provider approved for CAP 110, or a non-affiliated consultant with a bachelor or higher level degree in agronomy, range science or other closely-related plant science discipline and a minimum of five years' experience in pastureland conservation planning, monitoring, and consulting regarding use of pastureland improvement practices generated through the Pasture Condition Scoring (PCS) assessment tool.
Documentation and Implementation Requirements

Participant will:

- Prior to implementation, acquire a Grazing Management Plan with all the following components: (provide plan to NRCS for review and approval)
  - Producer goals, objectives and resource concerns
  - Location and condition of structural improvements
  - Watering sites with availability, quantity and quality
  - Forage inventory
  - Forage-animal balance sheet
  - Grazing plan for livestock movement
  - Contingency plan
  - Monitoring plan

- During implementation, perform a soil test on the applicable acres.

- During implementation, secure a Certified Forage and Grassland Professional, Certified Range Management Consultant, Certified Professional in Range Management, NRCS Technical Service Provider approved for CAP 110, or a non-affiliated consultant with a bachelor or higher level degree in agronomy, range science or other closely-related plant science discipline and a minimum of five years' experience in pastureland conservation planning, monitoring, and consulting regarding use of pastureland improvement practices to:
  1) Select a monitoring site in each forage type or forage mixture on the enrolled acreage to assess with the Pasture Condition Scoring tool.
  2) Conduct assessments on those sites using the Pasture Condition Scoring tool and document the location.
  3) Develop a written recommendation including duration and intensity of grazing and/or browsing based on desired health and productivity objectives while addressing adequate cover, litter and canopy to maintain or improve infiltration, soil health and reduce soil compaction and other resource concerns identified during the Pasture Condition Score (PCS) assessment.

- During implementation, identify key grazing areas and key forage species and monitor pastures for grazing utilization.

- During implementation, keep pasture/herd in/out records.
During implementation, complete forage utilization jobsheet at the end of the grazing season for NRCS Conservation Practice Standard Prescribed Grazing (528).

During implementation, document adjustments needed to maintain feed and forage balance.

After implementation, provide the following items for review by NRCS:
- Pasture Condition Score Sheets with all field notes and locations
- Soil test analysis
- Written documentation from professional with recommendations and follow up actions.
- Pasture/ herd in/ out dates.
- Completed forage utilization jobsheet.
- Animal/ forage balance sheet
- Written modifications to the grazing management and monitoring plan which address the resource concerns identified from the assessment.

NRCS will:
- As needed, provide technical additional assistance to participant as requested.
- Prior to implementation, provide and explain NRCS Conservation Practice Standard Prescribed Grazing (CPS 528) as it relates to implementing this enhancement, including forage utilization jobsheet
- Prior to implementation, provide soils information and/or Forage Suitability Groups as requested
- After implementation, review all Pasture Condition Score sheets and written recommendations made by professional
- After implementation, review soil test analysis
- After implementation, verify implementation of the grazing management plan by reviewing grazing/ herd in/ out records, forage utilization jobsheet, animal/ forage balance records and changes made to the plan to address resource concerns identified during the Pasture Condition Scoring assessments
NRCS Documentation Review:

I have reviewed all required participant documentation and have determined the participant has implemented the enhancement and met all criteria and requirements.

Participant Name ______________________________ Contract Number ________________

Total Amount Applied _________________ Fiscal Year Completed _____________

__________________________________________ _______________

NRCS Technical Adequacy Signature Date
WASHINGTON SUPPLEMENT TO
CONSERVATION ENHANCEMENT ACTIVITY

To meet criteria for the Prescribed Grazing Enhancements utilize references below.

Prescribed Grazing References:

NRCS Prescribed Grazing Conservation Practice Standard 528 and supporting documents (IR’s (job sheet), Utilization worksheets, etc.) can be found in FOTG Section IV/Washington Conservation Practices/Prescribed Grazing (AC) (528) folder, 
https://efotg.sc.egov.usda.gov/#/details

Guidance on Conservation Planning for Grazing Lands can be found in chapter 11 of the USDA NRCS National Range and Pasture Handbook. 
https://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084

Prescribed Grazing (528) Design Worksheet/s. This document has several usefull worksheets for developing grazing plans. It can be found in the NRCS Field Office Technical Guide Section IV / Washington Conservation Practices/Prescribed Grazing (528) folder.  https://efotg.sc.egov.usda.gov/#/

Other Prescribed Grazing (528) documents (e.g. Utilization Monitoring Worksheets, Job Sheets (aka Implementation Requirements, IR’s) Planning Guides, etc.) can also be found in the NRCS Field Office Technical Guide (FOTG) , in Section IV/Washington Conservation Practices/Prescribed Grazing (528) folder.


EB1870, Pasture and Hayland Renovation for Western Washington and Oregon. Forage and biomass (pasture) species, with seeding rates, for Western Washington can be found in this Extension Publication. Also provides guidance on site preparation, seeding and when livestock grazing can resume. link: 
**Wildlife References and WHEG’s:**

Use the Washington Department of Fish & Wildlife (WDFW) **Priority Habitats and Species (PHS) database** to identify priority wildlife and habitat in your area.  

Washington State’s Wildlife Habitat Evaluation Guide (WHEG) is **Biology Technical Note 14 Wildlife Habitat Evaluation Guide (WHEG)**. It can be found in the NRCS Field Office Technical Guide in Section I/References Lists/Technical Notes by Discipline/Biology folder.  
[https://efotg.sc.egov.usda.gov/#/details](https://efotg.sc.egov.usda.gov/#/details)

**Inventory/Monitoring References:**

**Pasture Condition Scoring** documents can be found in **NRCS Field Office Technical Guide**: in Section I/Reference Lists/Technical Notes by Discipline/Pasture folder.  
[https://efotg.sc.egov.usda.gov/#/details](https://efotg.sc.egov.usda.gov/#/details)

**Ecological Site Descriptions** and **Forage Suitability Groups** can be found in the **NRCS Field Office Technical Guide**  
[https://efotg.sc.egov.usda.gov/#/details](https://efotg.sc.egov.usda.gov/#/details) in Section II. For planning unit ecological sites and forage suitability groups see bullet below.

**Ecological Sites** and **Forage Suitability Groups** for planning unit soils can be found by using the **Web Soil Survey**  
[https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm](https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm)

**Riparian References:**

[https://www.treesearch.fs.fed.us/pubs/3062](https://www.treesearch.fs.fed.us/pubs/3062)

[https://www.treesearch.fs.fed.us/pubs/24605](https://www.treesearch.fs.fed.us/pubs/24605)

[https://www.treesearch.fs.fed.us/pubs/5452](https://www.treesearch.fs.fed.us/pubs/5452)