



CONSERVATION ENHANCEMENT ACTIVITY

E528L

CONSERVATION STEWARDSHIP PROGRAM

Prescribed grazing that improves or maintains riparian and watershed function-erosion

Conservation Practice 528: Prescribed Grazing

APPLICABLE LAND USE: Pasture, Range, Forest

RESOURCE CONCERN: Soil

ENHANCEMENT LIFE SPAN: 1 year

Enhancement Description

Grazing management employed will provide cover and density needed in the watershed in order to reduce runoff, improve infiltration, provide for above ground water filtration and sustain applicable fish and wildlife species habitat.

Criteria

- Must follow a written grazing plan for matching the forage quantity and quality produced with the grazing and/or browsing demand by livestock and wildlife.
- Enhance diversity of plants to optimize delivery of nutrients to the animals by incorporating the intensity, frequency, timing and duration of grazing and/or browsing needed as determined by a planning process that includes:
 - Clear objectives,
 - A resource inventory of structural improvements, existing resource conditions, and forage.
 - A monitoring plan
 - A contingency plan

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- Supplemental feed or minerals will be balanced with the forage consumption to meet the desired nutritional level for the kind and class of grazing and/or browsing livestock.
- Minimize concentrated livestock areas to enhance nutrient distribution and improve or maintain ground cover and riparian/floodplain plant community structure and functions.
- Manage grazing or browsing so as to provide adequate ground cover and plant density to maintain or improve infiltration capacity and reduce runoff.
- Maintain adequate ground cover and plant density through monitoring to retain or improve filtering capacity of the vegetation by moving livestock appropriately.
- Adjust grazing strategy and rest as needed with the right numbers, class, and kind of livestock to maintain adequate riparian community structure and function to sustain associated riparian, wetland, floodplain and stream species.



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Documentation and Implementation Requirements

Participant will:

- Prior to implementation, obtain a written grazing plan with:
 - Inventory of structural improvements, existing resource conditions and forage
 - Guidelines and recommendations for matching the forage quantity and quality produced with the grazing and/or browsing demand of livestock
 - A contingency plan and
 - A monitoring plan
- During implementation, keep pasture/herd in/out records and forage-animal balance sheet.
- During implementation, monitor riparian vegetation for use
- After implementation, make the follow items available for review by NRCS to verify implementation of the enhancement:
 - Written grazing plan
 - Pasture/herd in/out records
 - Documented utilization records
 - Monitoring plan

NRCS will:

- As needed, provide technical additional assistance to the participant as requested.
- Prior to implementation, provide and explain NRCS Conservation Practice Standard Prescribed Grazing (Code 528) as it relates to implementing this enhancement.



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- After implementation, verify implementation of the written grazing plan, by reviewing plan and pasture/herd in/out records and forage-animal balance sheets kept during enhancement implementation.
- After implementation, review the monitoring plan

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

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Practice 528 (Prescribed Grazing) References

- A list of **Certified Range Management Consultants** can be found on the Society for Range Management’s website under the Education Tab. <http://rangelands.org/>
- **National Range and Pasture Handbook**. Location: eDirectives, Handbooks, Title 190 – Ecological Sciences, Part 645 National Range and Pasture Handbook.
- **Ecological Sites and Forage Suitability Groups** can be found in the NRCS Field Office Technical Guide <https://efotg.sc.egov.usda.gov/#/state/WA/documents> in Section 2. For planning unit ecological sites see bullet below.
- **Ecological Sites** for planning unit soils can be found by using the **Web Soil Survey** <https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>
- **Interpreting Indicators of Rangeland Health**, Technical Reference 1734-6, Version 5 (*Range Technical Note 103 Rangeland Health Assessment*). Location: Field Office Technical Guide (FOTG), Section 1/Reference Lists/Technical Notes by Discipline/Range folder. [WA FOTG Range Folder](#)
- **Pasture Condition Scoring** (*Pasture Technical Note 104 Pasture Condition Scoring Guide*). Location: Field Office Technical Guide (FOTG), Section 1/Reference Lists/Technical Notes by Discipline/Pasture folder. <https://efotg.sc.egov.usda.gov/#/state/WA/documents>
- Pasture Technical Note No. 105. **The Western Oregon and Washington Pasture Calendar**, A Pacific Northwest Extension Publication PNW 699. Oregon State University, University of Idaho, Washington State University. <https://catalog.extension.oregonstate.edu/sites/catalog/files/project/pdf/pnw699.pdf>
- Information on native and non-native grass species critical growth periods can be found in **Range Technical Note 34**. Location: Field Office Technical Guide (FOTG), Section 1/Reference Lists/Technical Notes by Discipline/Range folder. [WA FOTG Range Folder](#)



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- **Prescribed Grazing (528) Design Worksheet/s.**

This document has several usefull worksheets for developing grazing plans. Location: Section 4/Conservation Practice Standards & Support Documents/Prescribed Grazing (528) folder. <https://efotg.sc.egov.usda.gov/#/state/WA/documents>

Pasture and Hay (pasture) species, with seeding rates, for **Western Washington** can be found in the Extension Publication **EB1870, Pasture and Hayland Renovation** for Western Washington and Oregon. Also provides guidance on site preparation, seeding and when livestock grazing can resume.

[EB1870, Pasture and Hayland Renovation for Western WA](#)

- **Managing Grazing of Riparian Areas in the Intermountain Region.** Clary, Warren P.; Webster, Bert F.; 1989. Gen. Tech. Rep. INT-263. USDA Forest Service, Intermountain Research Station. 11 p. <https://www.fs.usda.gov/research/treesearch/24605>

- **Monitoring the Vegetation Resources in Riparian Areas.** Winward, Alma H. 2000. RMRS-GTR-47. USDA Forest Service, Rocky Mountain Research Station. 49 p. <https://www.fs.usda.gov/research/treesearch/5452>

- Use the Washington Department of Fish & Wildlife (WDFW) **Priority Habitats and Species (PHS) database** to identify priority wildlife and habitat in your area. <http://wdfw.wa.gov/mapping/phs/>

- Washington State's Wildlife Habitat Evaluation Guide (WHEG) is **Biology Technical Note 14 Wildlife Habitat Evaluation Guide (WHEG)**. Location: Field Office Technical Guide (FOTG), Section 1/Reference Lists/Technical Notes by Discipline/Biology folder. [WA FOTG Biology folder](#)

- For Washington State's **Sage Grouse Habitat Evaluation Guide (WHEG)** – contact State Sage Grouse lead (**NRCS State Biologist**) for the current evaluation guide.

- **Herbaceous Stubble Height as a Warning of Impending Cattle Grazing Damage to Riparian Areas.** Hall, Frederick C.; Bryant, Larry. 1995 Gen. Tech. Rep. PNW-GTR-362. USDA Forest Service, Pacific Northwest Research Station. 9 p. <https://www.treesearch.fs.fed.us/pubs/3062>