

Animal Enhancement Activity – ANM03 - Incorporate native grasses and/or legumes to 15% or more of herbage dry matter productivity



Enhancement Description

Improve pasture by increasing native grasses and/or legumes to 15% of herbage dry matter (productivity by weight) using adapted species and varieties, appropriate seeding rates, and timing of seeding. Pastures containing about 15% native grasses and/or legumes by weight dry matter are approximately equal to 30% foliar cover.

Land Use Applicability

Pasture

Benefits

Enhancing existing pasture by incorporating native grasses and legumes can provide:

1. Improved forage quality and quantity
2. Improved soil fertility (legumes fix nitrogen in the soil), increase organic matter
3. Increased plant diversity and promote wildlife habitat
4. Additional forage during seasonal slump periods
5. Extended grazing season
6. Food source for pollinating insects

Conditions Where Enhancement Applies

This enhancement only applies to acres of pasture land use that DO NOT currently have a mixed stand of native grasses and/or legumes.

Criteria

A written grazing management plan that outlines specific goals and objectives, including:

1. Utilize adapted species, seeding rates and seeding dates according to local NRCS practice standards.
2. Determine species composition before and after seeding. Species composition must be 15% or more of native grasses and/or legumes.
3. If legumes are incorporated, a current soil test is required. Apply lime and fertilizer to facilitate establishment and persistence of legumes as required by the current soil test report.
4. Livestock stocking rates that will allow for proper forage utilization.

Note: Bloat can be a risk to grazing livestock where legumes make up greater than 50% of the total forage. Legumes with the highest likelihood to cause bloat include white clover, alfalfa, annual medics and Persian clover. Red clover, crimson clover and subterranean clover would be classified as moderately likely to cause bloat, while berseem clover and arrowleaf clover are low risks for causing bloat. Legumes that don't cause bloat are birdsfoot trefoil, sainfoin and



crownvetch. Livestock producers grazing alfalfa aftermath in the fall months should be cautioned of bloat, especially following a killing frost. The recommendation for grazing frost killed alfalfa is to wait 5 to 7 days after the killing frost (less than 28 degrees Fahrenheit) before grazing. This will allow the live tissue to fully break down, minimizing the soluble leaf proteins, and making a much safer feed base for ruminant livestock. If bloat is a concern, there are several precautions that can be taken. (A technical reference sheet will be available to address these issues).

Adoption Requirements

This enhancement is considered adopted when the subject pasture acre(s) contain 30% or more foliar coverage of native grasses and/or legumes.

Documentation Requirements

1. A written planting specifications plan identifying:
 - a. Plant species' to be seeded,
 - b. Seeding rates and dates,
 - c. Site preparations and planting method, and
 - d. Amounts of fertilizer and lime to be applied.
2. Map showing locations where seeding activity is applied.
3. Copy of the grazing management plan.

References

Ball, D.M., C.S. Hoveland and G.D. Lacefield. 2007. Southern Forages, 4th Edition. International Plant Nutrition Institute, Norcross, GA.

Bartholomew, P.W. 2005. Comparison of Conventional and Minimal Tillage for Low-input Pasture Improvement. Online-Forage and Grazinglands – Plant Management Network.

Ruffin, B.G. 1994. Controlling Bloat in Cattle. Alabama Cooperative Extension System, Pub. ANR-148.

USDA-NRCS. 2010. Conservation Practice Standard: Forage and Biomass Planting-Code 512.

Indiana CSP Enhancement Supplemental Information

ANM03 - Incorporate Native Grasses and/or Legumes to 15% or More of Herbage Dry Matter Productivity:

- “Native grasses and/or legumes” will be selected from the appropriate tables found in Indiana [IN Seed Calculator](#) (http://efotg.sc.egov.usda.gov/references/public/IN/IN_NRCS_Seeding_Calculator.xlsm) for the IN FOTG 512 – Pasture / Hayland Planting Standard. (Required: check “Yes” for wildlife-friendly species).
- When Native Grasses are used to make up 15% of forage base of treated acres:
 - ✓ Include: warm season species of Big Bluestem, Little Bluestem, Switchgrass, Indiangrass, or Eastern Gamagrass, and/or cool season species of Canada Wildrye, Riverbank Wildrye, or Virginia Wildrye.
 - ✓ Acres devoted to native **warm** season grasses will be separated from introduced **cool** season grass paddocks.
 - ✓ Removal of incompatible existing grasses will be included in the site preparation portion of the planting plan.
- Inter seeded legumes may include native and/ or introduced species and are not intended to be pure legume stands.