



ENR08 - Montana Supplement

Using Nitrogen Provided by Legumes, Animal Manure and Compost to Supply 100% of Nitrogen Needs – (Energy Enhancement Activity)

Montana Clarification

All crop, hay and forage produced on farm must follow and meet MSU fertilizer guidelines ⁽¹⁾. Phosphorus application rates from manure must follow Montana NRCS and Department of Environmental Quality (DEQ) guidelines for application rates based on soil test results:

Olsen P soil Test (ppm)

Less than 25 ppm

25 – 100 ppm

100 – 150 ppm

Greater than 150 ppm

Application Basis

Nitrogen need

Phosphorus need

Phosphorus need up to crop removal

No application

Manure applications cannot be made on frozen or snow- covered ground. Manure applications must follow all Montana DEQ setbacks including; 100 foot setback or 35 foot vegetated buffer from down-gradient surface waters, sinkholes, wells or other conduits to surface waters.

In Montana’s climate, this will be a difficult enhancement to perform.

Montana Specifications

No additional specifications other than those described in the national enhancement.

Incompatible Enhancements

This enhancement may not be contracted with the following enhancements:

For crop: AIR01, AIR02, ANM21, ANM22, SOE02, WQL06, WQL07, WQL08,
WQL16

For pasture: none

Eligible Land

Crop and pasture land

Applicable Amount

Acres of cropland and pasture land

Example (System)

The participant has 400 acres of cropland and 200 acres of pasture. The participant is willing to apply this enhancement on the 200 acres of pasture. The applicable acres would be 600 and the applied acres would be 200. The Toolkit plan would look like the following:

	Year 1	Year 2	Year 3	Year 4	Year 5
ENR08	200 ac				

Documentation Requirements

- Crop Production records that include:
 - Source of organic nitrogen, e.g. cover crop, manure
 - An estimate of available nitrogen and method used to estimate.
 - Lab analysis – **current soil test no more than three years old is required**
 - Bio mass calculation
 - Amount of manure and/or compost applied per acre
 - Manure nutrient analysis
 - Listing of fields and acres
 - Estimate of legume biomass produced each year

Montana References

- (1) **“Fertilizer Guidelines for Montana Crops” Montana State University Extension Service Publication # EB 161⁽¹⁾** March 2005, Jeff Jacobsen, Grant Jackson and Clain Jones. Website: <http://www.msuextension.org/store/Departments/Agriculture-Topic-Categories/Fertilizers.aspx?sortorder=1&page=8>

I acknowledge that I have read and understand all that is required for the implementation of this CSP Enhancement Activity.

Contract participant

Date