



WQL11 - Montana Supplement – REVISED 2/22/11

Precision Application Technology to Apply Nutrients – (Water Quality Enhancement Activity)

Montana Clarification

All 5 criteria in the national enhancement must be met, including the requirement that nitrogen application rates are based on real time analysis of crop nitrogen needs. This would require the use of “green seeker”, Yara, or other chlorophyll sensors to apply nitrogen during the growing season in addition to setting up zones using satellite imagery, EC monitoring or other methods. These tools need to be used in season and the fertilizer application would need to be done immediately afterwards. An example of this would be to apply a certain amount of fertilizer prior to or at the time of planting then apply more fertilizer based on ground or satellite sensor data. In season fertilizer applications must be done within 7 days of when the satellite or aerial imagery is taken.

Montana Specifications

For approval to use other chlorophyll sensors, contact the NRCS State Agronomist. Written approval (email is acceptable) should be attached to this supplement.

Incompatible Enhancements

This enhancement may not be contracted with the following enhancements:

For crop: ANM21, ANM22, SOE02

For pasture: none

Eligible Land

Cropland, pasture, and hayland

Applicable Amount

Acres of cropland, pasture, or hayland

Example (System)

The applicable acres are any cropland, pasture, or hayland acreage. If a participant has 800 acres of cropland and he/she was willing to begin utilizing precision application technology to apply nutrients on 300 acres (60 acres each year), the applicable acres would be 800 and the applied acres would be 300 (commencing in Year 1). The Toolkit plan would look like the following:

	Year 1	Year 2	Year 3	Year 4	Year 5
WQL11	300 ac				

Documentation Requirements

Documentation for each treatment area (field) and year of this enhancement describing these items:

1. A map showing where the activities are applied
2. Treatment acres
3. Crop grown in each treatment area
4. Soil sampling protocol (grid or zone) for each treatment area
5. Number of soil samples taken per treatment area
6. Soil test results
7. Calibration of fertilizer application equipment
8. Nutrient application rates/amounts and application dates for each treatment area
9. When using NDVI, provide an as-applied digital map of nutrients applied

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

Contract participant

Date