



Nutrient management is managing the four R's (Right Source of Nutrients, Right Time of Application, Right Rate, and Right Method of Application). It is applicable to all lands where plant nutrients and soil amendments are applied.

Nutrient Management Planning

Nutrient management components of the conservation plan will include the following information:

- field map and soil map;
- crop rotation or sequence;
- results of soil, water, plant, and organic material sample analyses;
- expected yield;
- sources of nutrients to be applied;
- nutrient budget, including credits of nutrients available;
- recommended nutrient rates, form, timing, and method of application;
- location of designated sensitive areas;
- guidelines for operation and maintenance.

Nutrient management is most effective when used with other agronomic practices, such as cover crops, residue & tillage management, conservation buffers, irrigation water management, integrated pest management and conservation crop rotation.

General Nutrient Management

Considerations

- Apply nutrients according to soil test recommendations.
- Consider effects of drought or excess moisture on quantities of available nutrients.
- Use a water budget to guide timing of nutrient applications.
- Use cover crops where possible to recover and retain residual nitrogen and other nutrients between cropping periods.
- Use split applications of nitrogen fertilizer for greater nutrient efficiency.

Nutrient Management Risk Assessment

Make a site-specific environmental assessment of the potential risk of nutrient management. The boundary of the nutrient management assessment is the agricultural management zone (AMZ), which is defined as the edge of the field, bottom of the root zone, and top of the crop canopy. Environmental risk is difficult to assess beyond the AMZ.

Within an area designated as having impaired or protected natural resources (soil, water, air, plants, and animals), the nutrient management plan should include an assessment of the potential risk for nitrogen and phosphorus to contribute to water quality impairment.

The Leaching Index (LI), Nitrogen Leaching and Economic Analysis Package (NLEAP), the Phosphorus Index (PI), erosion prediction models, water quality monitoring, or any other acceptable assessment tools will be used to make risk assessments.

Evaluate other areas that might have high levels of nutrients, produced or applied, that may contribute to environmental degradation. For example, areas with high livestock concentrations or large areas of high intensity cropping, such as continuous potatoes, corn, or specialty crops, may be contributing heavy nutrient loads to surface or ground water.

Conservation practices and management techniques will be implemented with nutrient management to mitigate any unacceptable risks.

Operation and Maintenance

See the operation and maintenance section of the site specific sheet for these requirements.

NUTRIENT MANAGEMENT SITE SPECIFIC SHEET

Client:		County:	Date:
Farm #:	Tract #:	Field # (s):	Contract #:
Purpose/Needs(check all that apply)			
<input type="checkbox"/> Budget and supply nutrients for plant production		<input type="checkbox"/> Utilize manure/organic material as a nutrient source	
<input type="checkbox"/> Minimize agricultural nonpoint source pollution (water quality)		<input type="checkbox"/> Maintain or improve soil condition	
<input type="checkbox"/> CSP Enhancement No.:			

Table 1 - Field Conditions and Recommendations

Crop sequence/rotation (circle current crop)					Expected yield
Current soil test levels (ppm or lb/ac)					
N	P	K	pH	S.O.M.%	EC
Recommended nutrients/amendments to meet expected yield					
N	P ₂ O ₅	K ₂ O	Lime	Other	Other

Table 2 - Nutrient Sources

Credits		N	P ₂ O ₅	K ₂ O			
		Pounds per acre					
1. Nitrogen credits from previous legume crop							
2. Residual from long-term manure application							
3. Irrigation water							
4. Other							
5. Total credits							
Plant available nutrients applied to field		N		P ₂ O ₅		K ₂ O	
(Circle column that is landowner's decision)		Trial A	Trial B	Trial A	Trial B	Trial A	Trial B
6. Credits (from row 5, above)							
7. Fertilizer	Starter						
	Other						
8. Manure							
Organic material (i.e. biosolids)							
9. Subtotal (sum of lines 6, 7, and 8)							
10. Nutrients recommended (from table 1)							
11. Nutrient status (subtract line 10 from line 9)							
<i>If line 11 is a negative number, this is the amount of additional nutrients needed to meet the crop recommendation.</i>							
<i>If line 11 is a positive number, this is the amount by which the available nutrients exceed the crop requirements.</i>							

NUTRIENT MANAGEMENT SITE SPECIFIC SHEET

Nutrient Management Specifications					
Amount to be applied (lb/ac)	N		P ₂ O ₅		K ₂ O
Method, form, and timing of application:					
Operation and Maintenance					
Review the nutrient management plan annually and make adjustments when needed.					
Calibrate application equipment to ensure uniform distribution and accurate application rates.					
Handle all nutrient material with caution. Wear appropriate protective clothing.					
Clean up residual material from equipment and dispose of properly.					
Protect nutrient storage areas from weather to minimize runoff and leakage.					
Additional manure sampling and analyses will be needed when there are significant changes in animal numbers and/or feed management.					
Dispose of containers properly, according to local or state regulations.					
Document the actual rate at which nutrients were applied.					
Maintain records for 5 years, as applicable, on: 1. Soil, plant tissue, water, manure, and organic by-product analyses. 2. Quantities, analyses, and sources of nutrients applied. 3. Dates and method(s) of nutrient applications. 4. Weather and soil moisture at the time of application; lapsed time to manure incorporation, rainfall or irrigation event. 5. Crops planted, planting and harvest dates, yields, and crop residues removed. 6. Dates of plan review, name of reviewer, and recommended changes resulting from the review.					
Additional Specifications and Notes:					

Planner/Technical Service Provider:

Designed by _____ Date _____

Approved by _____ Date _____

Certification

This practice(s) as applied **meets** Florida NRCS standards and specifications for Nutrient Management 590.

Planner/Technical Service Provider _____ Date _____

