



# CT Nutrient Management – 590

## Conservation Practice Job Sheet Lifespan – 1 year

Producer:		Location:	
FSA Farm, Tract, and Field(s):			
Program:		Contract Number:	
CIN:		Component:	
Planner:		Date:	



Photography by Seth Lerman, USDA Natural Resources Conservation Service.



### Definition

Managing the amount (rate), source, placement (method of application), and timing of plant nutrients and soil amendments.

### Purpose

To budget, supply, and conserve nutrients for plant production; to minimize agricultural nonpoint source pollution of surface and groundwater sources; to properly utilize manure or organic by-products as a plant nutrient source; to protect air quality by reducing odors, nitrogen emissions (ammonia, oxides of nitrogen), and the formation of atmospheric particulates; and to maintain or improve the physical, chemical, and biological condition of the soil.

### Where Used

Nutrient management is applicable to all lands where plant nutrients and soil amendments are applied.

### Criteria, Considerations, and Specifications

Develop a Nutrient Management Plan (NMP) with supporting practices to efficiently protect and manage the soil and water resources. Depending on the producer’s objectives, supporting practices may include structures for waste storage or composting, residue and tillage management, cover crops, crop rotations, and pest management. This practice shall be in concurrence with the state Field Office Technical Guide and the Conservation Practice Standard for this practice. **See CT NRCS Conservation Practice Standard for Nutrient Management (code 590) for all required Criteria.**

## **Certification**

NRCS will review the plan to ensure that the plan and any supporting practices meet or exceed NRCS Connecticut criteria.

**Operation and Maintenance (O&M)** – O&M is required to maintain this practice for its 1 year lifespan.

- Conduct periodic plan reviews to determine if adjustments or modifications to the plan are needed. At a minimum, plans must be reviewed and revised annually by the producer or their agricultural service provider, and with each soil test cycle or change in manure volume/analysis or crop management.
- Calibrate application equipment to ensure the targeted application rates are being applied.
- Document and provide field locations using both the producer’s naming conventions as well as the Farm Service Agency’s identification (farm, tract, and field numbers).
- Maintain records for at least 5 years to document plan implementation and maintenance. As applicable, records should include:
  - All soil amendments (commercial fertilizer, manure, or nutrients) applied, based upon soil test results and recommendations,
  - All plant tissue amendments (foliar fertilizers), based upon plant tissue test results and recommendations and field scouting observations,
  - Quantities (tons or gallons per acre or square foot), analyses, and sources of nutrients applied,
  - Date, weather condition, and method of each nutrient application,
  - Dates and application rates for any irrigation/fertigation of nutrients,
  - For each field, identify the crop grown, along with the planting and harvest date, yield, nutrient analysis of harvested biomass (crop and residue) removed,
  - Date of plan review, name of reviewer, and any recommended changes.
- Additional records for precision/variable rate sites must include:
  - Maps identifying the variable application source, timing, amount, and placement of all plant nutrients applied,
  - GPS-based yield maps for crops where yields can be digitally collected.
- Additionally, for Animal Feeding Operations (AFO) or Concentrated Animal Feeding Operations (CAFO):
  - A Comprehensive Nutrient Management Plan (CNMP) must be written and approved prior to NRCS contract development and reviewed annually,
  - Fields receiving animal manures and/or biosolids must be monitored for the accumulation of phosphorus in accordance with guidance from the University of Connecticut (UConn) and NRCS recommendations,
  - Significant changes in animal numbers (10% or more), management, and feed management will require additional manure analyses to establish a revised average nutrient content,
  - Any manure transferred to other farms or customers shall be recorded according to the CNMP. At a minimum, a recent nutrient analysis of the product should be provided to the customer and documented along with their name, the date, and the quantity of manure transferred.

## PLAN AND SPECIFICATIONS

Producer:		Location:	
FSA Farm, Tract, and Field(s):			
Program:		Contract Number:	
CIN:		Component:	
Planner:		Date:	

The producer will follow the O&M requirements and specifications designated in their current Nutrient Management Plan developed with NRCS. Any changes to the plan must be approved by NRCS.

**Planned Amount:** \_\_\_\_\_ **Acres**  
**Unit Cost:**        \$ \_\_\_\_\_ / **Acre**

**See Attached Map(s) – provide aerial imaging with the following items:**

- Field locations and boundary lines with FSA identification and crop type
- Surrounding water sources (streams, ponds, reservoirs, etc.)
- Map scale (approximately 1:5,000 or less) and date of imagery

**Additional O&M Requirements for Implementation:**

**Unique Conditions for Plan (i.e. phosphorus reduction emphasis, specialized crop needs, etc.):**

<p><b>Concurrence of Participant:</b></p>   <p style="text-align: center;">_____                      _____ Signature                                      Date</p>	<p><b>NRCS Planner Certification:</b></p>   <p style="text-align: center;">_____                      _____ Signature                                      Date</p>
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## RECORD OF COMPLETION

Producer:		Location:	
FSA Farm, Tract, and Field(s):			
Program:		Contract Number:	
CIN:		Component:	
Planner:		Date:	

### Purpose (check all that apply)

- Budget and supply nutrients for plant production
- Minimize agricultural nonpoint source pollution (water quality)
- Maintain or improve soil condition
- Utilize manure/organic material as a nutrient source

### Required Producer Documentation

- Clear map of fields, with FSA Farm, Tract, and Field numbers, and crop type grown
- Soil tests less than 3 years old with nutrient application recommendations
- Manure, compost, or fertilizer analysis results from an approved institution (see Standard)
- Analyses of N, P, and K values in water used for irrigation
- Record of all soil amendments, including rate (tons or gallons/acre) and date applied
- Annual crop yields per acre

### NRCS Planner Checklist

- Nutrient management calculations to verify the 590 Standard requirements have been met
- Any other supporting documents to verify nutrient management implementation

**Certified Amount:** \_\_\_\_\_ **Acres**

**Supporting Practices Applied:**

### **Practice Certification Statement:**

**I have Job Approval Authority and have inspected the implementation of this practice and certify that it has been implemented according to the practice standard and the specifications in this job sheet.**

<b>Certified by:</b>	<b>Title:</b>	<b>Date:</b>
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