



United States Department of Agriculture
Natural Resources Conservation Service

CSP Job Sheet NW-1

NUTRIENT MANAGEMENT ENHANCEMENT – WASTE UTILIZATION **November 2005**

NEBRASKA

Name: _____

Precision Agriculture Organic Waste Application

Payment = _____ / Acre / Year to apply nutrients from organic waste based on 5 acres or less grid soil sampling size.

Soil Sampling Requirements

- Producers have the option to use a geo-referenced (GIS) zone management, grid soil sampling, or a combination of the two (i.e. deep nitrates may be based on zone management, and surface tests on grids).
- Grid soil sampling areas (grids) will be 5 acres or less and geo-referenced zone management soil sampling areas (zones) will be 20 acres or less.
- When using geo-referenced zone management, soil sampling zones will be based on GIS yield maps and/or infrared maps, similar cropping practices (i.e. past crops, manure and fertilizer management), and similar site and soil conditions throughout the entire zone (i.e. similar soil texture, soil color, organic matter, slope, drainage, etc.) .
- Surface soil tests for P, K, pH and micronutrients will be taken at least once every five years.
- Annual deep nitrate soil samples (0-36 inches or deeper on irrigated cropland, and 0-24 inches or deeper on dryland cropland) are taken from November 1 through the spring every year that corn, milo, or other non-legume crops are planted (spring tests are required on sandy soils, nitrate tests are not needed for legumes).
- Procedures published by the University of Nebraska (Nebguide G91-1000-A “Guidelines for Soil Sampling in Nebraska) are to be followed by the individual taking the soils samples.

Nutrient Application Requirements

- The Phosphorus Index (rating must be medium or lower) will be used to determine the appropriate timing, method, and rate of manure application (N-Based, P-Basis/rotation).
- Manure or other organic waste (supplemented with fertilizer N for P-based plans) is applied at varying rates on each grid/zone to meet Nitrogen needs as determined, based on University of Nebraska recommendations.
- All sources of N including irrigation water N content, legume credits, manure applications from up to 3 years ago, residual profile N, and organic matter mineralization, is accounted for in determining N application rates in each zone/grid.

Documentation Required: Copy of soil test, and farmer or crop consultant certification of nutrient application based on 5 acres or less grid soil sampling size and/or 20 acre geo-referenced zone management. Use the following Tables for documentation of soil sampling and manure application. An example is provided to assist you.

