



United States Department of Agriculture
Natural Resources Conservation Service

CSP Job Sheet N-2

NUTRIENT MANAGEMENT ENHANCEMENT

June 2007

NEBRASKA

Name: _____

Precision agriculture grid sampling/application based on 20 acres or less grid size with GPS referenced sampling points

Payment = \$_____ / Acre / Year to apply nitrogen and phosphorus based on 20 acres or less grid size soil sampling with Global Positioning System (GPS) referenced sampling points.

Soil Sampling Requirements:

- Soil sampling areas are 20 acres or less with all sampling points (cores) Global Position System (GPS) referenced (to determine nutrient trends).
- Surface soil tests (0-8 inches) for P, K, pH and micronutrients are taken once every three years during the same time of year.
- Annual deep nitrate soil samples (0-36 inches or deeper on irrigated cropland, and 0-24 inches or deeper on dryland cropland) will be taken from November 1 through the spring every year that corn, milo, or other non-legume spring planted crops (spring tests are required on sandy soils, nitrate tests are not needed for legumes), and August 1 through the early spring for winter wheat.
- All soil samples must be taken prior to applying fertilizer or manure.
- When recent (3 years old or less) deep nitrate soil test values tested low (6 ppm or less), deep nitrate soil samples are not necessary on dryland cropland without manure history.
- Utilize University of Nebraska procedures for soil sampling (Nebguide G91-1000-A "Guidelines for Soil Sampling in Nebraska").

Nutrient Application Requirements:

- Phosphorus will be applied in amounts equal or less than the University of Nebraska recommended rates.
- Nitrogen will be applied at varying rates on each soil sampling area, based on University of Nebraska recommendations.
- All sources of N including irrigation water N content, legume credits, manure N, residual profile N, and organic matter mineralization, is accounted for in determining N application rates on each soil sampling area.
- Fall nitrogen only applications are not allowed for spring/summer planted crops (e.g. soybeans, corn, milo, oats).
- Nitrogen will be applied using one of the following methods/combinations for spring/summer planted crops:
 - spring only applications (winter applications of anhydrous after January 1 are acceptable if conditions are ideal);
 - growing season only applications (i.e. side-dress or chemigation through sprinkler irrigation systems);
 - split application (spring and growing season are required on coarse textured soils i.e. sand, loamy sand, sandy loam soils, fall and growing season acceptable on

