



NUTRIENT MANAGEMENT ENHANCEMENT

November 2005

NEBRASKA

Name: _____

Nitrogen and Phosphorus sampling / application based on 20 acres or less soil sample area

Payment = ____ / Acre / Year to apply nutrients based on 20 acres or less soil sampling size.

Soil Sampling Requirements

- Soil sampling areas are 20 acres or less following sampling procedures published by the University of Nebraska (Nebguide G91-1000-A "Guidelines for Soil Sampling in Nebraska).
- Surface tests 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) 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).
- When recent (3 years old or less) deep nitrate soil test values tested low (6ppm or less), deep nitrate soil samples are not necessary on dryland cropland without manure history.

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.
- To maximize Nitrogen use efficiency, Nitrogen will be applied using one of the following methods/combinations: spring only applications, growing season only applications (i.e. side-dress or chemigation through sprinkler irrigation systems); split application (spring and growing season required on coarse textured soils i.e. sand, loamy sand, sandy loam soils, fall and growing season acceptable on heavy soils); and/or chemigation through sprinkler irrigation systems (growing season only) for nitrogen in summer row crops.
- Nitrogen will be split applied (planting time and late winter to early spring), or applied in the late winter to early spring for fall planted small grain.

Documentation Required: Copies of soils tests, farmer or crop consultant certification of nutrient application with 20 acre or less soil sampling size. Use the following tables for documentation of sampling and application. An example is provided to assist you.

