

## NUTRIENT MANAGEMENT (590)

### Enhanced Nutrient Management (Grid or Zone Based Variable Rate Application)

#### 2012 Environmental Quality Incentives Program (EQIP)

**Purpose:** To increase the utilization and efficiency of nutrients, and reduce nutrient losses by targeting phosphorus, potassium, and lime applications using grid or zone soil sampling.

**Eligible Land:** Cropland on agricultural operations having no fields with previous variable-rate technology applications of phosphorus, potassium and/or lime.

#### Producer requirements for payment:

##### **General requirements on a per field basis:**

1. Implement a certified Nutrient Management Plan (using MMP Software).
2. Map(s) of soil sampling locations.
3. Maps of soil sample analysis. Use current soil test results (less than one year old) developed in accordance with University of Tennessee guidance.
4. Soil test analysis must be from UT or a certified lab approved by the North American Proficiency Testing Program (Soil Science Society of America).  
<http://soilplantandpest.utk.edu/publications/soilfertilizerpubs.htm>
5. Variable rate recommendation maps for phosphorus, potassium, and lime based on University of Tennessee recommendation guidelines.
6. Nutrient budget shall be based on realistic yield goal (average of 3 out of 5 years) for each crop in rotation.
7. Record of all nutrient applications that includes dates, sources, analysis, rates, and methods of application.
8. Variable rate as-applied maps of P and K fertilizer and Lime applications that include the date of application for each product.
9. Yield data and harvest date. *If GPS Yield Monitor data is collected, then Yield Maps from the Yield Monitor data must be submitted.*

**The following are required documentation to be provided based on the variable rate technology scenario chosen.**

#### **1. Grid Soil Sampling and Variable Rate Application**

- Grid soil sampling area shall be no larger than 3 acres.

#### **2. Management Zones Sampling using Soil Electrical Conductivity (EC) Maps and Variable Rate Application**

- Management zones are to be determined prior to soil sampling using Soil electrical conductivity (EC) maps.
  - EC data collection on maximum 60 ft swaths
- Zone soil sampling area shall be no larger than a 10 acre grid.

TN NRCS Nutrient Recordkeeping Form for Enhanced Nutrient Management

**Crop Year** \_\_\_\_\_