

**Water Quality Enhancement Activity – WQL06 – Apply controlled release nitrogen fertilizer**



**Enhancement Description**

Apply only slow-release or controlled release formulations of nitrogen fertilizer

**Land Use Applicability**

Cropland and pastureland.

**Benefits**

Nutrient management encompasses managing the amount, source, placement, form, and timing of the application of plant nutrients and soil amendments. Nutrient management effectively utilizes available nutrient resources to supply

crops with nutrients required to efficiently produce food, forage, fiber, and cover while minimizing environmental degradation.

The use of slow or controlled release nitrogen fertilizer makes nitrogen available to plants over a longer portion of the growing season to match the plant uptake needs. This limits the loss of nitrogen to leaching and denitrification, and can help control soil emissions of the greenhouse gas nitrous oxide.

**Criteria**

Implementation of this enhancement requires:

1. The use of one or more of the following nitrogen fertilizer products on all treatment acres:
  - a. Slow-release
  - b. Controlled release
2. The producer must have a current soil test (no more than 3 years old).
3. Nutrient application rates are within the “Land Grant University (LGU) recommendations based on soil testing and established yield goals and considering all nutrient sources.
4. Soil surface disturbance must be minimized during nitrogen placement.

**Documentation Requirements**

1. Documentation for each Treatment area (field) and year of this enhancement describing these items:
  - a. Fertilizer product used
  - b. Treatment acres
  - c. Soil test results
  - d. Crops grown and yields (both yield goals and measured yield)



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- e. Calibration of fertilizer application equipment
  - f. Nutrient application rates/amounts and application dates for each treatment area
2. A map showing where the activities are applied.

## Indiana CSP Enhancement Supplemental Information

### **WQL06 – Apply Controlled Release Nitrogen Fertilizer:**

- Applies only to slow-release or controlled release formulations of nitrogen fertilizer include products with coatings such as sulfur and/or polymer/plastic and synthetic organic compounds.
- This enhancement does not apply to soybeans.