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Water Quality Enhancement Activity – *WQL06 – Apply Controlled Release Nitrogen Fertilizer*

New Jersey Addendum

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

Land Use Applicability
This enhancement is applicable on cropland and pasture land.

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, andcover 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 the use of slow-release or controlled-release nitrogen fertilizer products on all treatment acres:

New Jersey Slow and Controlled Release Nitrogen Fertilizer List:

Uncoated Nitrogen Fertilizers
- Ureaformaldehyde (UF) reaction products
- Ureaform
- Methylene ureas
- UF solutions
- Isobutylidene diurea (IBDU)

Coated Nitrogen Fertilizers
- Sulfur-coated fertilizers
- Polymer-coated fertilizers
- Polymer/sulfur coated fertilizers

The producer must have a current soil test (no more than 3 years old). Nutrient application rates are within the **Rutgers Cooperative Extension recommendations** based on soil testing and established yield goals and considering all nutrient sources. Soil surface disturbance must be minimized during nitrogen placement. Refer to and follow NJ NRCS Nutrient Management (590) standard.

Documentation Requirements
1) Documentation for each treatment area (field) and year of this enhancement describing these items:
   - Fertilizer product used
   - Treatment acres
   - Soil test results, including date of soil test
   - Crops grown and yields (both yield goals and measured yield)
   - Calibration of fertilizer application equipment
   - Nutrient application rates/amounts and application dates for each treatment area
2) A map showing where the activities are applied.