

Water Quality Enhancement Activity – WQL26 – Reduce the concentration of nutrients imported on farm



Enhancement Description

Grow at least 75% of feed for livestock on the farm and use manure from the livestock to supplement up to 50% of N, 90% of P and 90% K for crops grown on the farm.

Land Use Applicability

Cropland, Pastureland

Benefits

On livestock farms, when feed for livestock is imported on the farm and manure from the livestock is spread on the farm, over time this can result in a buildup of nutrients on the farm.

This problem is made worse if the nutrient value of the manure is not accounted and additional fertilizer is applied to crops. By growing the majority of feed for livestock on the farm and properly accounting for the nutrients in the manure when applying it to crop land, better nutrient cycling is achieved. Nutrients are not concentrated on the farm and a more sustainable operation is possible.

Conditions Where Enhancement Applies

This enhancement applies to all crop or pasture land use acres.

Criteria

1. At least 75% of feed for livestock must be grown on the farm.
2. For crops grown on the farm, manure from the livestock must be used to supplement up to:
 - a. 50% of N
 - b. 90% of P
 - c. 90% of K

Adoption Requirements

This enhancement is considered adopted when both criteria above have been met.

Documentation Requirements

1. Total feed requirements for livestock,
2. Feed purchases from off farm,
3. Nutrient requirements for crops, and
4. Off farm nutrient purchases.

North Dakota Requirements

Refer to the following NDSU publications for nutrient management options with manure and compost.

<http://www.ag.ndsu.edu/pubs/ansci/waste/nm1292.pdf>

<http://www.ag.ndsu.edu/pubs/plantsci/soilfert/sf882.pdf>

<http://www.ag.ndsu.edu/pubs/ansci/waste/ae1187.pdf>

<http://www.ag.ndsu.edu/pubs/h2oqual/watnut/nm1478.pdf>