

Water Quality Enhancement Activity – WQL15 – Reduce the Concentration of Nutrients on Farm by Limiting the Amount of Feed and Fertilizer Brought on Livestock Farms



Reduce the Concentration of Nutrients on Livestock Farms

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

Land Use Applicability

This enhancement is applicable on cropland and pasture land.

Benefits

On livestock farms, when feed for livestock is brought on to 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 for 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.

Criteria

- At least 75% of feed for livestock must be grown on the farm.
- For crops grown on the farm, manure from the livestock must supply at least:
 - 50% of N
 - 90% of P
 - 90% of K

Documentation Requirements

- Documentation of total feed requirements for livestock.
- Documentation of feed purchases from off farm.
- Documentation of nutrient requirements for crops.
- Documentation of off farm nutrient purchase.



United States Department of Agriculture
Natural Resources Conservation Service

NE-WQL15

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State Criteria

- At a minimum, 75% of the feed for the livestock must be grown on the farm.
- For crops grown on the farm, manure from the livestock operation must supply at least:
 - ◆ 50% of N
 - ◆ 90% of P
 - ◆ 90% of K
- Soils shall be sampled and analyzed in accordance with Practice Specification for Nutrient Management (S-590) or NebGuide “Guidelines for Soil Sampling” (G1740).
- All soil samples must be taken prior to applying fertilizer or manure.
- Manure shall be sampled and analyzed annually in accordance with Practice Standard 633 – Waste Utilization and Nebfact “Manure Testing: What to Request”. (NF02-507).-
- Nutrient application rates are within University of Nebraska recommendations based on soil tests and established yield goals considering all nutrient sources (refer to Practice Standard 590 and Practice Specification (S-590) for Nutrient Management).

Documentation Requirements

1. Complete Table 1 - Total feed requirements (add additional sheets if necessary)
2. Complete Table 2 - Total (quantity) off-farm feed purchases (add additional sheets if necessary).
3. Complete Table 3 - Nutrient and fertilizer application.
4. Provide map(s) indicating where the manure application took place.
5. Provide copy of soil test results.
6. Provide copy of manure analysis for each type of manure.

I certify that the following information meets specifications and has been provided to NRCS:

1. Written documentation of the activity performed per documentation requirements.
2. Copies of dated receipts for equipment or services purchased.

I understand that it is my responsibility to obtain all necessary permits and to comply with all laws, regulations and ordinances pertaining to the application of these activities.

Certified by: _____ **Date:** _____



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Table 1 Livestock Information & Feed Requirements								
Livestock		Livestock Weights (lb.)		Total Feed Requirements (lb. or tons)				
No.	Type	Start	End	Grains	Hay / Alfalfa	Silage <u>Sorghum</u>	Other <u>sorghum</u>	Other <u>supplement</u>
2000	Feeder Beef	550	1200	1940 T	455 T	1450 T	1545 T	200 T

Date of Feed Purchase	Table 2 Quantity of Off-Farm Feed Purchased (lb. or tons)				
	Grain	Hay / Alfalfa	Silage	Other	Other <u>Supplement</u>
10/1/09					16 T



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Field Information			Commercial Fertilizer and Manure Information											
Tract & Field No.	Acres	Crop & Yield	Date Fertilizer / Manure Applied (m/d/yr)	Form of Commercial Fert., or Manure	Rate (lb/a)	Application Method	If Manure, Days to Incorp.	N Avail. (lb/a)	P Avail. (lb/a)	K Avail. (lb/a)	Total N Avail. (lb/a)	Total P Avail. (lb/a)	Total K Avail. (lb/a)	
T1234 & P1	79.4	Crop	11/30/08	Beef Solids	16ton/a	Broadcast	1	152	656	384	187	656	384	
		Yield												
		Corn	4/30/09	32-0-0 liquid	10 gal	At planting - broadcast	na	35	0	0				
		Yield												
		Crop												
		Yield												
		Crop												
		Yield												
		Crop												
		Yield												