



United States Department of Agriculture
Natural Resources Conservation Service

Nutrient Management Enhancement Activity – Reduce Phosphorus Excretion by Livestock (MI-ENM08)

Nutrient Management

Rations balanced using average values or “book values” often result in over or under-feeding certain nutrients. Feeding an excess amount of protein or phosphorus can result in excretion of elevated levels of phosphorus in the urine and feces. Manure must be managed to avoid the contamination of ground and surface water with phosphorus in runoff and Nitrogen via leaching.

Benefits

By reducing the over-feeding of phosphorus in livestock, the amount excreted in manure can be impacted to help bring the farm’s nutrients back into balance and reduce nutrient runoff and leaching. This can also help improve farm income by feeding nutrients more efficiently.

Criteria for Nutrient Management Enhancement Activity

This enhancement requires the implementation of a feed management program that uses the following management activities to reduce the phosphorous output of 15% below the values derived from the Midwest Plan Service-18, section 1, Table 6:

- Records of manure analysis that was completed prior to and after the feeding strategy was implemented to determine manure nutrient content and reduction.
- Records of feed analysis and ration formulation, including the record of ration formulation used prior to and after the implementation of the feeding strategy.
- Copy of the feed management plan developed by a qualified specialist that includes a feed nutrient balancing spreadsheet.

References:

Hill, Stephanie and Knowlton, Katherine, 2007, Managing Dietary Phosphorus to Reduce Environmental Impact of Dairy Farms, Washington State University Extension, Washington.



United States Department of Agriculture
Natural Resources Conservation Service

CSP Enhancement Certification Sheet

Reduce Phosphorus Excretion by Livestock (MI-ENM08)

Participant Acknowledgement Statement:

I agree to apply this enhancement under the terms and conditions of my CSP contract and understand the requirements of the activity.

Animal Type	Number of Animals	Average Weight per Animal	AU (No. of animals X Ave. weight/1000)

Compensation will be on a *per animal unit* basis as described in my CSP contact.

I agree that the following information will be provided to NRCS upon request:

1. Records of manure analysis that was completed prior to and after the feeding strategy was implemented to determine manure nutrient content and reduction.
2. Records of feed analysis and ration formulation, including the record of ration formulation used prior to and after the implementation of the feeding strategy.
3. Copy of the feed management plan developed by a qualified specialist that includes a feed nutrient balancing spreadsheet.

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.

Accepted by: _____ Date: _____