

Identifying Conditions Where Feed Management Practice Applies



Step 2 A

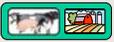


A Key Ingredient in Livestock and Poultry Nutrition Management

Who's Involved

We have learned:

- A nutritionist is a key player with the process
- A NMP will more likely be involved with step 2



Feed Management Practice Code 592

CONDITIONS WHERE PRACTICE APPLIES

Confined livestock and poultry operations with a whole farm nutrient imbalance, with more nutrients imported to the farm than are exported.

Confined livestock and poultry operations that have a significant build up of nutrients in the soil due to land application of manure.

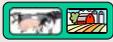
Confined livestock and poultry operations that land apply manure and do not have a land base large enough to allow nutrients to be applied at rates recommended by soil test and utilized by crops in the rotation.

Livestock and poultry operations seeking to enhance nutrient efficiencies.

to formulate the diet, to determine its nutrient content.

Feed analyses shall be conducted by laboratories whose tests are accepted by the Land Grant University in the state in which the feeding strategy will be implemented. Data from analyzed feed ingredients and/or appropriate historic feed analysis information for the operation will be used for adjustments of ration formulation.

Diets and feed management strategies shall be developed by professional animal scientists, independent professional nutritionists or other comparably qualified individuals. When required by state policy or regulation, animal nutritionists shall be certified through any certification program recognized within the state.



Resource Concerns

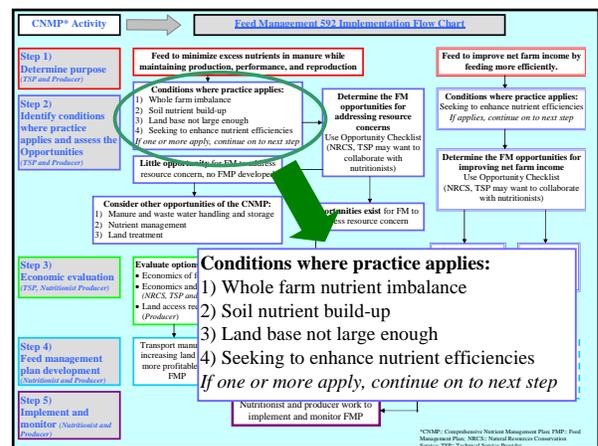
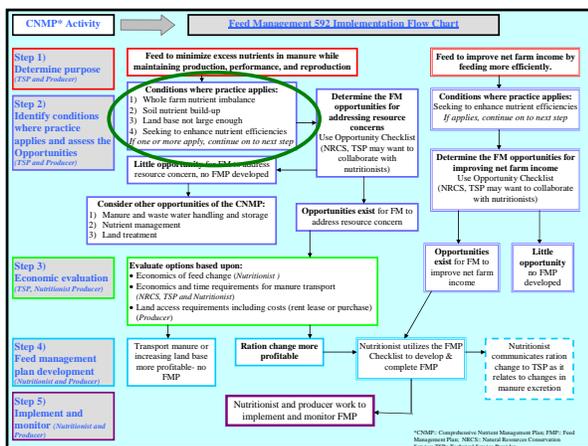
Identify resource concern(s) and/or condition(s) where the practice applies

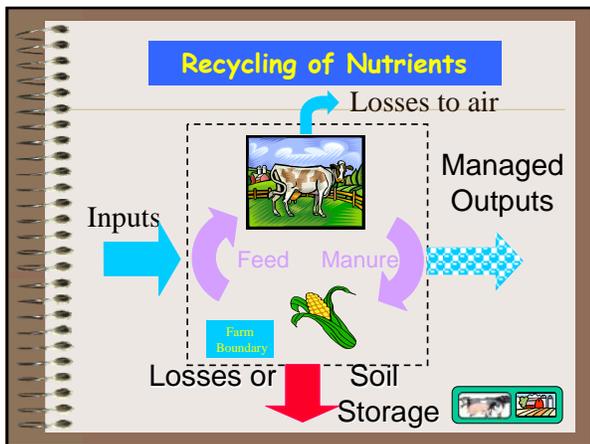
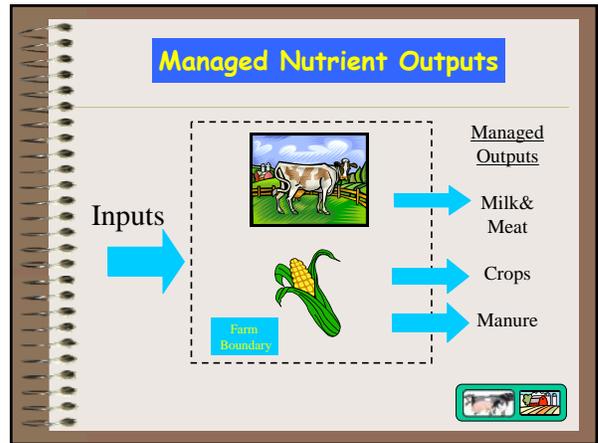
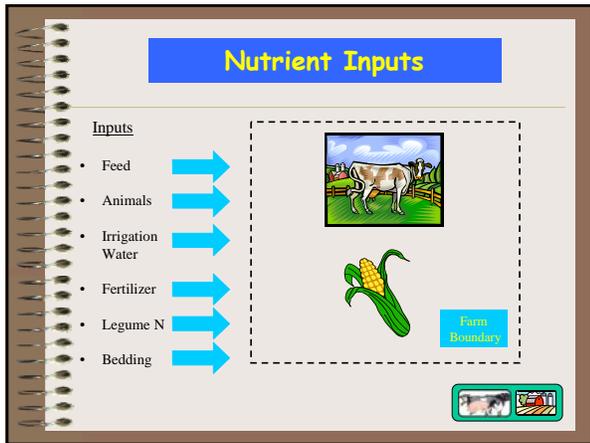
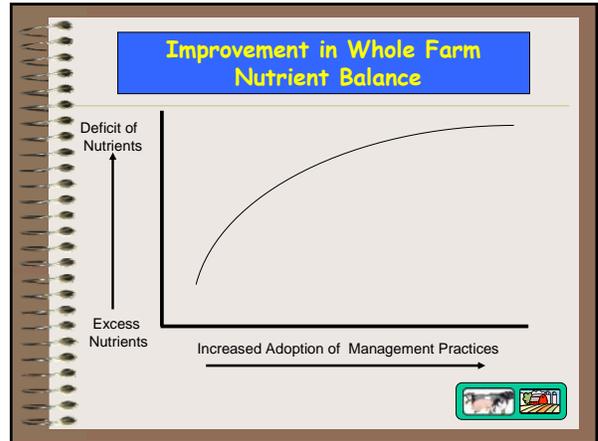
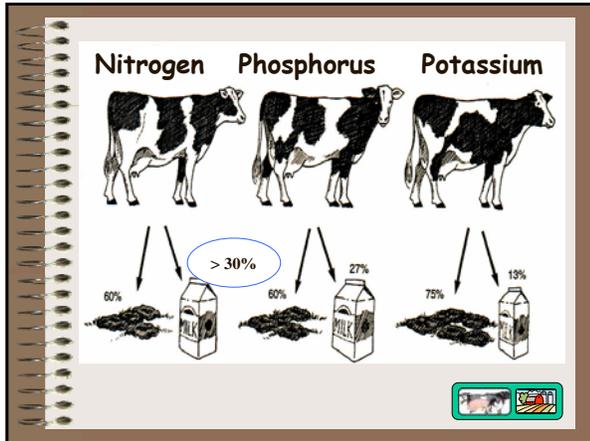
Resource Concerns

Soil Condition: Contaminants – Animal Waste and other Organics.
Nutrient levels from applied animal waste and other organics restrict desired use of the land

Water Quality: Excessive Nutrients and Organics in Groundwater.
Pollution from natural or human induced nutrients such as N, P, and organics (including animal and other wastes) degrades groundwater quality.

Water Quality: Excessive Nutrients and Organics in Surface Water.
Pollution from natural or human induced nutrients such as N, P, and organics (including animal and other wastes) degrades surface water quality.





- ### Available Tools
- Whole Farm Nutrient Balance Tools
- Whole Farm Nutrient Balance - University of Nebraska
<http://cnmp.unl.edu/cnmpsoftware2.html#WholeFarmNutrientBalance>
 - Whole Farm Balance Nutrient Education Tool
WFBNET tool - <http://www.puyallup.wsu.edu/dairy/nutrient-management/software.asp>
 - Whole Farm Nutrient Balance Spreadsheet - Cornell
<http://nmsp.css.cornell.edu/projects/massbalance.asp>
 - State specific tools available from NRCS or Land Grant Universities
- Soil Nutrient Tests
- Soil test P
 - P Index
 - Soil nitrogen (State Specific)

Conditions Where Practice Applies Whole Farm Imbalance

- Confined livestock and poultry operations with a whole farm nutrient imbalance, with more nutrients imported to the farm than are exported and/or utilized by cropping programs.
- Example: Import fertilizer in addition to use of manure, or
- Excess feed nutrients imported



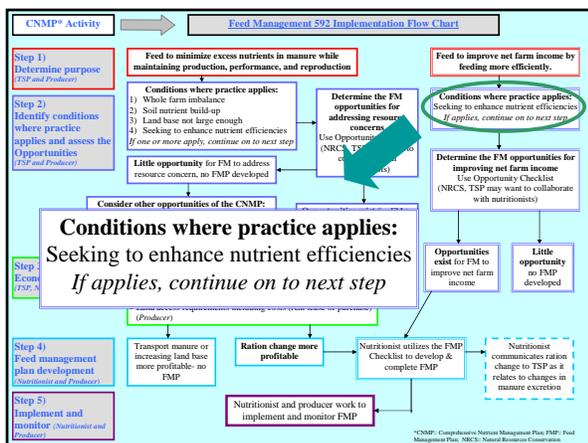
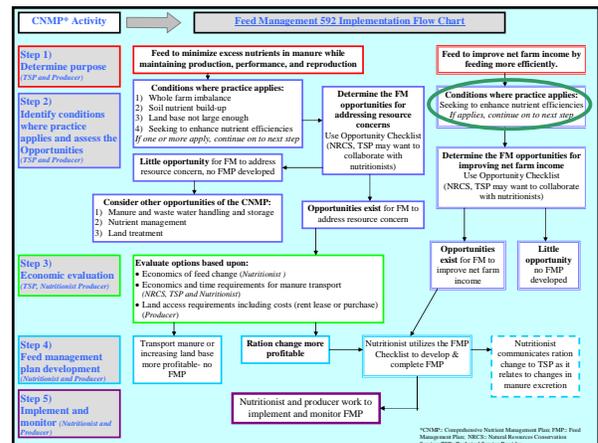
Conditions Where Practice Applies Soil Nutrient Buildup

- Confined livestock and poultry operations that have a significant build up of nutrients in the soil due to land application of manure.
- Example: Excess application of manure nutrients that can't be utilized by the cropping systems.



Conditions Where Practice Applies Land Base not Large Enough

- Confined livestock and poultry operations that land apply manure and do not have a land base large enough to allow nutrients to be applied at rates recommended by soil test and utilized by crops in the rotation.
- Example: Minimal fertilizer import but land base still not large enough, particularly in relation to crop rotations (corn following legume)

Conditions Where Practice Applies Seek to Enhance Nutrient Efficiencies

- Livestock and poultry operations seeking to enhance nutrient efficiencies.
- Example: Farm does not have excess nutrient balance, however, their goal is to enhance nutrient efficiencies



Next Step

Use the opportunity (eligibility) checklist to determine the relative opportunity for feed management to impact Whole Farm Nutrient Management or increase net farm income by feeding more efficiently.

