

## Dairy information

Dairy Name Werkhoven Dairy

Date Completed 6-13-06

Producer Signature \_\_\_\_\_

Adviser Signature \_\_\_\_\_

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

### Resource Concern(s)

- 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.*

### Conditions Where Practice Applies

- Whole Farm Imbalance:** Confined Dairy operations with a whole farm nutrient imbalance, with more nutrients imported to the farm than are exported and/or utilized by cropping programs.
- Soil nutrient build-up:** Confined Dairy operations that have a significant build up of nutrients in the soil due to land application of manure.
- Land base not large enough:** Confined Dairy 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.
- Dairy operations seeking to enhance nutrient efficiencies**

**Determine the Feed Management opportunities for addressing Resource Concerns:**

On the following pages is a list of feeding management practices that can affect nutrient balance. Please read through each feeding management consideration and record your answer. If one or more of the Opportunity Checklist items are noted in the category of "moderate or lots of opportunity for improvement", then the next evaluation step should be completed; economic evaluation or FMP Checklist.

**Dairy Opportunity Checklist**

Issue	Little opportunity for improvement	Some opportunity for improvement	Moderate opportunity for improvement	Lots of opportunity for improvement	Benefit to the environment
Are diets formulated to meet the requirements of the animal?	Yes, by either a nutritionists, feed company, or software program	-	-	No	N, NH <sub>3</sub> , P
Are animals fed in groups?	Yes, high, low producing cows, dry cows, close-up cows, and multiple heifer groups	Yes, lactating, dry, and multiple heifer groups	Yes, lactating, Dry, and heifer groups	No	N, NH <sub>3</sub> , P
Is there a system for determining diet Dry Matter (DM) on the farm?	Yes	-	-	No	N, NH <sub>3</sub> , P
Are diets adjusted for changes in DM?	Daily to weekly	Weekly to monthly	Infrequently	No	N, NH <sub>3</sub> , P
How often is DMI (Dry Matter Intake) determined?	Daily to weekly	Weekly to monthly	Infrequently	Not done	N, NH <sub>3</sub> , P

Issue	Little opportunity for improvement	Some opportunity for improvement	Moderate opportunity for improvement	Lots of opportunity for improvement	Benefit to the environment
<b>Diet Composition</b>					
Are Ingredients or diets analyzed for nutrient composition? (i.e. CP, P, K, NDF, ADF etc.)	Yes, routinely	Only when a new feed or forage is fed	Not regularly analyzed	Not analyzed	N, NH <sub>3</sub> , P
<b>Crude protein (CP) in diet (DM basis):</b>					
High producing cows *	16-16.9%	17-17.9%	18-18.5%	18.5% or greater	N, NH <sub>3</sub>
Low producing cows *	13-13.9%	14-14.9%	15-15.9%	16% or greater	
Dry cows	11-11.9%	12-12.9%	13-13.9%	14% or greater	
<b>Phosphorus in diet (DM basis):</b>					
High producing cows *	0.38-0.39%	0.40-.41%	0.42-0.43%	0.44% or greater	P
Low producing cows *	0.32-0.34%	0.35-0.36%	0.36-0.37%	.38% or greater	P
Dry cows	0.25%		>0.25%		P
<b>Potassium in Diet (DM basis):</b>	Fed at NRC recommendation (1%)	Fed at 20% above recommended	Fed at 40% above recommended	Not known	K

\*Holstein cows in midlactation and ration is balanced for RDP/RUP (NRC, 2001)