

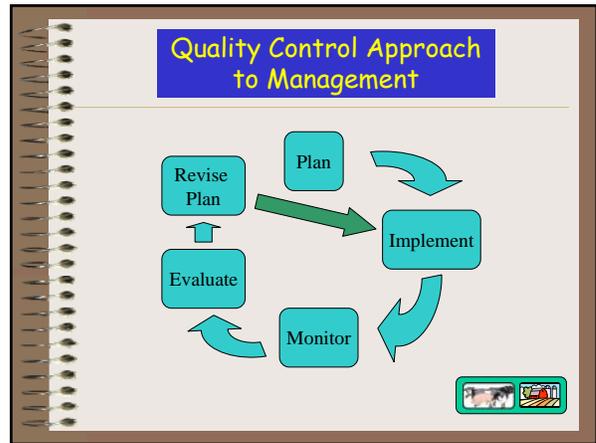
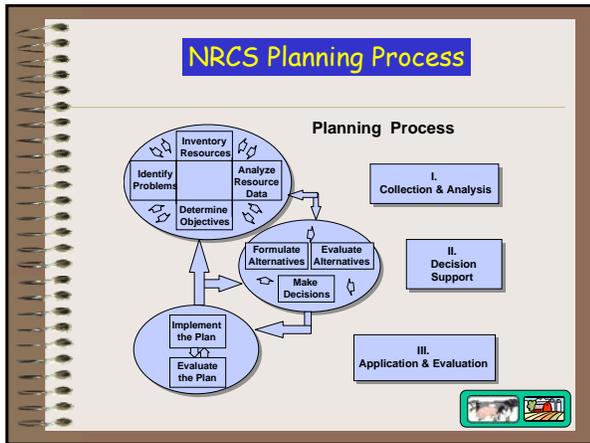
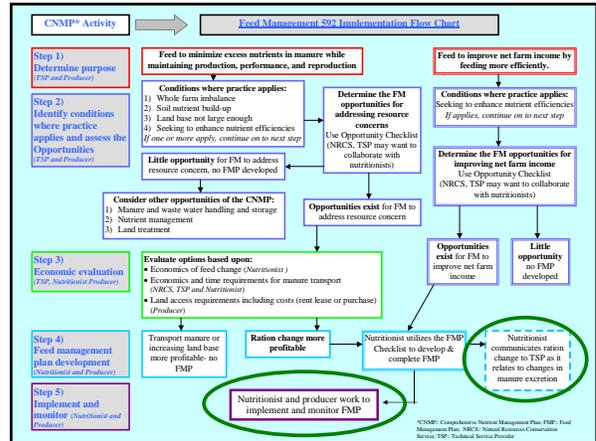
Feed Management Plan Implementation And Monitoring



Step 5



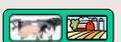
A Key Ingredient in Livestock and Poultry Nutrition Management



Operation and Maintenance

Communicate with other parties:
 CNMP may need changed based on changes in feed management practices





Producer/Client has Major Responsibility

Activities to address:

- Periodic plan review to determine if adjustments are needed
- Routine feed analysis to document rates of feeding of N and P
- If different feeding rates were used, make note of reason for the difference
- Maintaining Records



Periodic Plan Review

Indicate when the plan will be reviewed.

Examples are:

- Based on calendar schedule,
- When new source of forage is acquired,
- When new feed source or byproduct feed is considered.
- When aberrant milk production is observed

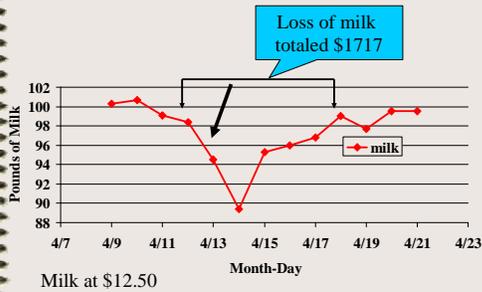


Plan Review

Date Plan Written:	June 21, 2006
The Plan will be reviewed at (what interval, i.e. yearly) and by whom:	Yearly in June



Case Study - Importance of Forage Quality



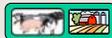
Milk at \$12.50

Item	Good Hay	Bad Hay
CP, % DM	21.8	20.1
ADF, % DM	26.9	33.6
NDF % DM	33.3	42.0
TDN	68	63
NEI, mcal/lb	.71	.63

Case Study - Phosphorus Toxicity Lactating Cows

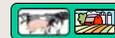
Observations were:

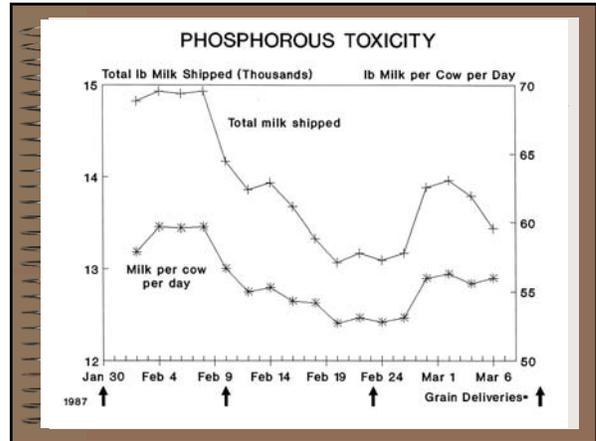
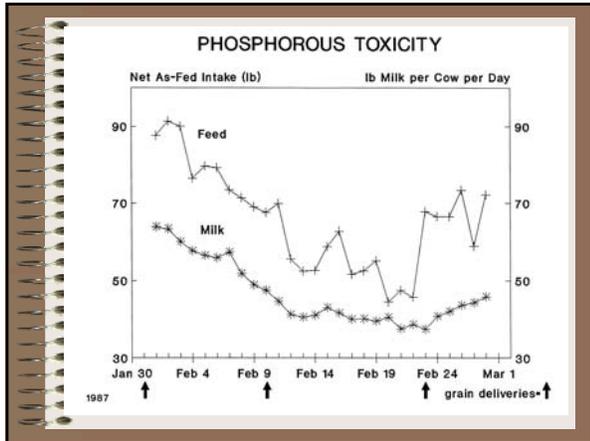
- 1) Decreased feed intake (Off feed)
- 2) Decreased milk production
- 3) Rumen atony (Veterinarian)
- 4) Subnormal temperature (Veterinarian)



Blood Serum Analyses - 2/20/87

COW #	Phosphorus -----mg/dl-----	Calcium
621	11.0	11.0
481	12.4	10.7
593	11.0	11.3
568	8.3	10.4
488	10.0	11.1
Reference Range	5.0-7.0	9.5-12.5





GRAIN MIX COMPOSITION⁺

Item	Pounds
Molasses	140
Barley	800
Soy Bean Meal	150
Urea	20
TriCa Phos	20*
Milirun	856*
Salt, TM	10
Vitamin Premix	1#A/1#D
Selenium	1

*Phosphorus sources
 +Bid to meet .7% ± .1% P

Content of Calcium and Phosphorus in Grain Mix and Total Mixed Ration - 2/23/87

Sample	Calcium -----% of Dry Matter-----	Phosphorus
Grain Mix	1.07	1.02
Total Mixed Ration	1.24	.67

Content of Phosphorus in Grain Mix Over Time

Date	Phosphorus, % dry matter
10/86	.67
11/86	.72
12/86	.82
1/87	.92
2/5/87	.97
2/12/87	.89
2/19/87	.83
2/26/87	.88
3/17/87	.91
3/19/87	.71**
3/30/87	.82
4/3/87	.81
4/7/87	.81
4/20/87	.71
4/29/87	.56
7/10/87	.74

**limestone replaced Ca-P source

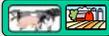
Document Review

Dates of review and person performing the review, and any recommendations that resulted from the review.

Routine Feed Analysis

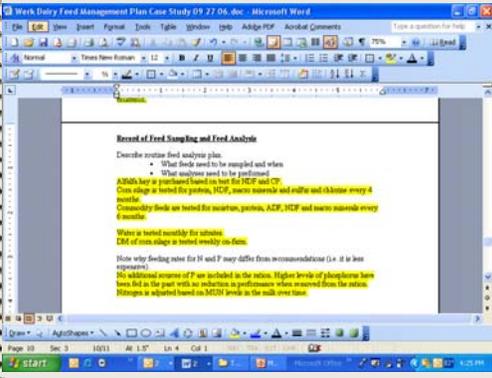
Describe routine feed analysis plan.

- What feeds need to be sampled and when
- What analyses need to be performed (DM, P, N etc, be specific and reasonable)



Routine Feed Analysis

Example Feed	Proposed Sampling Schedule
Hay	Every load
Corn silage	Weekly and prior to changes
Corn	Monthly
Dried distillers grains	Weekly and when suppliers change
Beet pulp	Weekly and when suppliers change

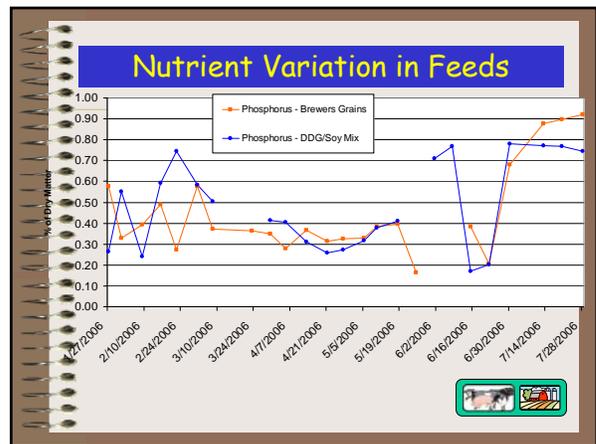
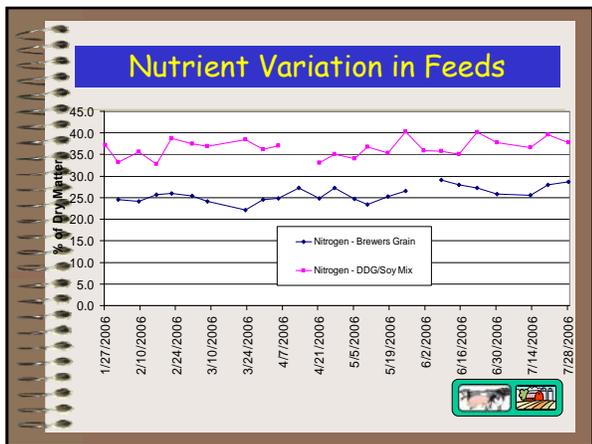



Recent of Feed Sampling and Feed Analysis

- Describe routine feed analysis plan.
 - What feeds need to be sampled and when.
 - What analyses need to be performed.
- ANALYSES are performed based on test for DMCP and CP.
- Corn silage is tested for protein, NDF, water soluble and other and chlorine every 4 months.
- Concentrate feeds are tested for moisture, protein, ADF, NDF and water soluble every 4 months.
- What is tested weekly for moisture.
- DM of corn silage is tested weekly on farm.
- Note why feeding rates for N and P may differ from recommendations (i.e. it is less expensive).
- Moisture content of P are included in the notes. Higher levels of phosphorus have been fed in the past with no reduction in performance when sourced from the station. Nitrogen is adjusted based on NDF levels in the milk over time.

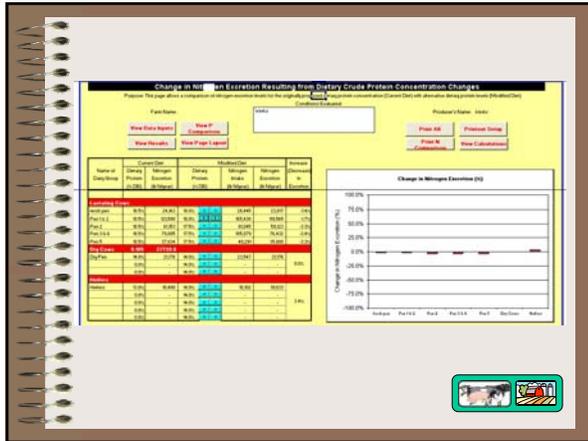
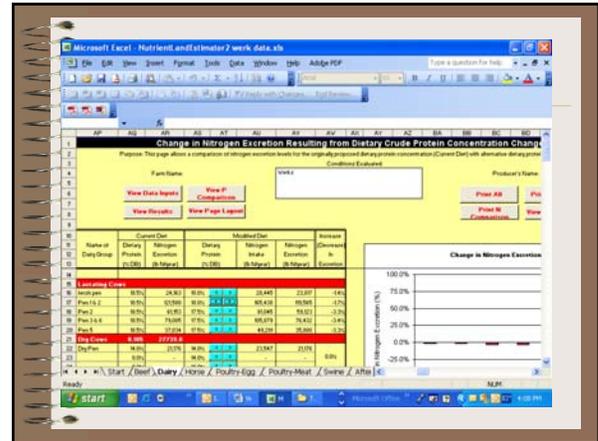
Nutrient Variation in Feeds

Feed	Crude Protein		Phosphorus	
	Ave	S.D.	Ave	
S.D.				
Corn silage	8.5	1.48	0.18	0.02
Corn	8.9	0.88	0.31	0.03
Wet brewers grain	24.7	5.54	0.45	0.21
DDG/Soy mix	35.7	4.78	0.49	0.21

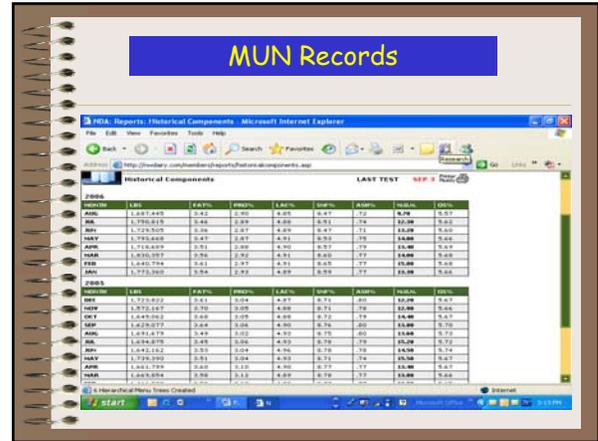



Record Keeping

- Records of feed analysis and ration formulation, including initial ration formulation prior to development of FMP.
- Record of the initial estimate of the impact of adopted feed strategies on manure content.
- Record of any manure analysis that was done after the feeding strategy was implemented.



MUN Records

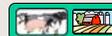


M.U.N.	OS%
9.70	5.57
12.30	5.62
13.20	5.60
14.00	5.66
13.40	5.69
14.00	5.68
15.00	5.68
13.30	5.66



Record Keeping

Records need to be kept for five years or longer, if required by other Federal, state, or local ordinances, program, or contract requirements.



Thanks for Attending

Feed Management



A Key Ingredient in Livestock
and Poultry Nutrient Management