

Dairy Feed Values, Options and Decision Making Tools

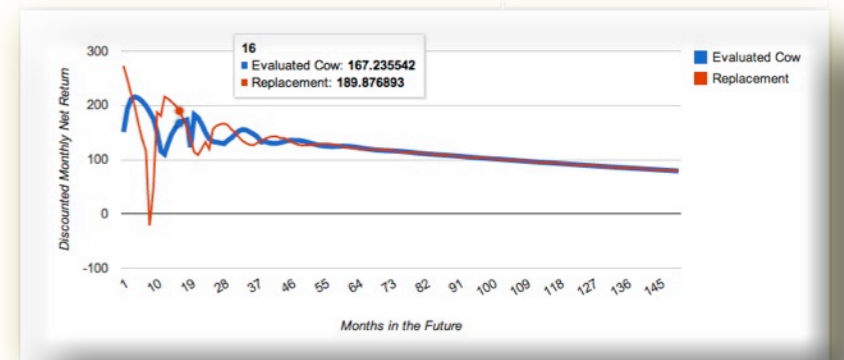
Victor E. Cabrera

Analyze

Select Number of Nutrients: 6 (Hide/Show Price Inputs) View Overview Download Spreadsheet

INPUTS - Nutrients for Ingredients						
Ingredient	Nutrient					
	RUP %	ADP %	NE3 %	Lipid %	peND %	Ca %
Shelled Corn	4.5	4.5	0.91	4.2	0	0.04
Soybean Meal 48%	21	33	1	1.1	0	0.35
Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4
Soybean Meal expeller	30	16	1.09	8	0	0.36
Soybeans, raw	12	28	1.25	19	0	0.32
Soybeans, heated	22	21	1.24	19	0	0.26
Good Quality Hay	6	14	0.6	2	35	1.3
Poor Quality Hay	4.8	11.2	0.5	2	50	1
Corn Stages	2.8	4.2	0.67	3.2	30	0.28

INPUTS - Price Inputs			OUTPUTS	
As-Fed Basis			Calculated	
DM %	Price \$/Unit	Unit	Predicted Value \$/Unit	Actual Price as % of Predicted Value
89	6	bu	5.248	124
89	300	ton	330.39	91
89	280	ton	307.74	91
92	325	ton	385.30	84
87	380	ton	330.20	115
92	425	ton	388.44	109
87	180	ton	176.48	102
87	120	ton	152.58	79
35	10	ton	59.163	84



LGM Analyzer

Return to Understanding Dairy Markets Website

Software Overview Premium Estimator Least Cost Optimizer Bundled Options Tutorial

If you have saved CSV data from a previous run, you can upload it instead of typing in your farm's data again

Upload a file

Input

Insurance contract month: 2012 Oct

Choose your deductible level \$ 1.0 /cwt

Feed Values: Enter Manually Lowest Allowed Default Highest Allowed

Target NIOFC: \$ 5.0 /cwt

The prices we use for the Gross Margin Calculation correspond to future and option prices retrieved on the trade dates: 2012-10-19, 2012-10-22, 2012-10-23

Coverage Month	Production (cwt)	Corn Equiv (tons)	Soybean Meal Equiv (tons)
Month Year	Milk Qty.	Corn Qty.	SBM Qty.
Dec 2012	4113	95.8	21.1



UW-Dairy Management

DairyMGT.info

The screenshot shows the homepage of DairyMGT.info. At the top, there is a banner with the text "Dairy Management UW-Extension University of Wisconsin-Madison" and logos for "THE UNIVERSITY OF WISCONSIN" and "UW Extension". Below the banner is a navigation menu with items: Home, Tools, Projects, Publications, Presentations, Links, Find, About, Contact, Comments, News, People, Opportunities, Gallery, and a search box. The main content area is titled "Dairy Management" and contains a paragraph describing the site's purpose: "Dairy Management site is designed to support dairy farming decision-making focusing on model-based scientific research. The ultimate goal is to provide user-friendly computerized decision support systems to help dairy farms improve their economic performance. Dr. Victor Cabrera focuses on model-based decision support in dairy cattle and in dairy farm production systems. Dr. Cabrera's primary interest is to improve cost-efficiency and profitability along with environmental stewardship in dairy farms by using simulation techniques, artificial intelligence, and expert systems. Dr. Cabrera's research and Extension programs involve interdisciplinary and participatory approaches towards the creation of user-friendly decision support systems. As an Extension Specialist, Dr. Cabrera works in close relationships with county-based Extension faculty, dairy producers, consultants, and related industry." Below this text are three columns of links: "Latest Projects" (Genomic Selection and Herd Management, Dairy Reproduction Decision Support Tools, Strategies of Pasture Supplementation, Improving Dairy Cow Fertility, LGM-Dairy), "Helpful Link" (Repro Money Program, Contact), and a "TOOLS" section featuring a photo of Victor E. Cabrera, Ph.D., Assistant Professor Extension Specialist Dairy Management, with contact information (1675 Observatory Dr., Madison, WI 53706, (608) 265-8506, vcabrera@wisc.edu) and a "READ MORE" button.



Tools

The screenshot shows the "Tools" page on DairyMGT.info. It features a navigation menu at the top with items: Home, Tools, Projects, Publications, Presentations, Links, Find, Feeding, Heifers, Reproduction, Production, Replacement, Financial, Price Risk, Environment. The main heading is "Management Tools" with a sub-heading: "A collection of state-of-the-art dairy management tool that are: user-friendly, interactive, robust, visually attractive, and self contained. All these tools have clear or self-explanatory instructions and technical support available." Below this is a list of tool categories: "Feeding" (Grouping Strategies for Feeding Lactating Dairy Cattle, Optigen® Evaluator, Income Over Feed Supplement Cost, Dairy Extension Feed Cost Evaluator, Com Feeding Strategies, Income Over Feed Cost, Dairy Ration Feed Additive Break-Even Analysis), "Heifers" (Cost-Benefit of Accelerated Liquid Feeding Program for Dairy Calves, Economic Value of Sexed Semen Programs for Dairy Heifers, Heifer Replacement, Heifer Break-Even), "Reproduction" (Economic Value of Sexed Semen Programs for Dairy Heifers, UW-DairyRepro\$: A Reproductive Economic Analysis Tool, Exploring Timing of Pregnancy Impact on Income Over Feed Cost, Dairy Reproductive Economic Analysis), and "Production".

FeedVal 2012

- Decision support tool to assess the ACTUAL value of dairy feed ingredients
- Help dairy producers, nutritionists, consultants, LENDERS, make economical decisions:
 - Purchasing feed ingredients
 - Using available feed ingredients

FeedVal 2012

- What it does?
 - Calculates the value of individual NUTRIENTS
 - Calculates the value of feed INGREDIENTS
 - Gives RELATIVE value of feed ingredients

FeedVal 2012

- How it does it?
 - Value of a feed ingredient is the AGGREGATED value of its nutrients
 - Nutrient value is the average nutrient value in selected feed ingredients
 - Relative value compares market against predicted feed value

1

Select if to use negative nutrient values

Upload data as Excel file: No file chosen

Analyze Disregard negative Nutrient Calculated Values

Select Number of Nutrients: 6

INPUTS - Nutrients for Ingredients							INPUTS - Price Inputs			OUTPUTS	
<input checked="" type="checkbox"/> Ingredient	Nutrient						As-Fed Basis			Calculated	
	RUP %	RDP %	NE13x M	Lipid %	peNDF	Ca %	DM %	Price \$/Unit	Unit	Predicted Value, \$/Unit	Actual Price as % of Predicted Value
Nutrient Calculated Value, \$/Unit DM							2012 Septemb				
Ingredients ↓											
<input checked="" type="checkbox"/> Shelled Corn	4.5	4.5	0.91	4.2	0	0.04	89	8	bu		
<input checked="" type="checkbox"/> Soybean Meal 48%	21	33	1	1.1	0	0.35	89	550	ton		
<input checked="" type="checkbox"/> Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4	89	500	ton		
<input checked="" type="checkbox"/> Soybean Meal, expeller	30	16	1.09	8	0	0.36	92	525	ton		
<input checked="" type="checkbox"/> Soybeans, raw	12	28	1.25	19	0	0.32	87	583	ton		
<input checked="" type="checkbox"/> Soybeans, heated	22	21	1.24	19	0	0.26	92	600	ton		
<input checked="" type="checkbox"/> Good Quality Hay	6	14	0.6	2	35	1.3	87	250	ton		
<input checked="" type="checkbox"/> Poor Quality Hay	4.8	11.2	0.5	2	50	1	87	150	ton		
<input checked="" type="checkbox"/> Corn Silage	2.8	4.2	0.67	3.2	30	0.28	35	60	ton		
<input checked="" type="checkbox"/> Distillers Dried Grains	15	15	0.9	12	0	0.22	89	270	ton		
<input checked="" type="checkbox"/> High-Moisture Corn	3.6	5.4	0.95	4.2	0	0.03	70	200	ton		
<input checked="" type="checkbox"/> Tallow	0	0	2.06	100	0	0	99	25	cwt		
<input checked="" type="checkbox"/> Blood Meal	76	19	1.06	1.2	0	0.3	94	700	ton		
<input checked="" type="checkbox"/> Urea	0	287	0	0	0	0	99	500	ton		
<input checked="" type="checkbox"/> Straw	4	1	0.45	0.37	75	0.31	85	140	ton		

2

Select number of nutrients

Upload data as Excel file:

No file chosen

Upload

Analyze Disregard ne

Select Number of Nutrient

nt Calculated Values

Hide Price Inputs

Restore Default Values

Download Spreadsheet

PUTS - Nutrients for Ingredients

INPUTS - Price Inputs

OUTPUTS

Ingredient	Nutrient						As-Fed Basis			Calculated	
	RDP %	NE13x M	Lipid %	peNDF	Ca %	DM %	Price \$/Unit	Unit	Predicted Value, \$/Unit	Actual Price as % of Predicted Value	
Shelled Corn	4.5	4.5	0.91	4.2	0	89	8	bu			
Soybean Meal 48%	21	33	1	1.1	0	89	550	ton			
Soybean Meal 44%	17.5	32.5	0.97	1.6	0	89	500	ton			
Soybean Meal, expeller	30	16	1.09	8	0	92	525	ton			
Soybeans, raw	12	28	1.25	19	0	87	583	ton			
Soybeans, heated	22	21	1.24	19	0	92	600	ton			
Good Quality Hay	6	14	0.6	2	35	87	250	ton			
Poor Quality Hay	4.8	11.2	0.5	2	50	87	150	ton			
Corn Silage	2.8	4.2	0.67	3.2	30	35	60	ton			
Distillers Dried Grains	15	15	0.9	12	0	89	270	ton			
High-Moisture Corn	3.6	5.4	0.95	4.2	0	70	200	ton			
Tallow	0	0	2.06	100	0	99	25	cwt			
Blood Meal	76	19	1.06	1.2	0	94	700	ton			
Urea	0	287	0	0	0	99	500	ton			
Straw	4	1	0.45	0.37	75	85	140	ton			

3

Select combination of nutrients

Upload data as Excel file: No file chosen

Disregard negative Nutrient Calculated Values

Select Number of Nutrients:

INPUTS - Nutrients for Ingredients							INPUTS - Price Inputs			OUTPUTS	
Ingredient	Nutrient					As-Fed Basis			Calculated		
	RUP %	NEI3x Mcal/lb	Lipid %	peNDF %	Ca %	DM %	Price \$/Unit	Unit	Predicted Value, \$/Unit	Actual Price as % of Predicted Value	
<input checked="" type="checkbox"/> Shelled Corn	0.91	4.2	0	0.04	89	8	bu				
<input checked="" type="checkbox"/> Soybean Meal 48%	1	1.1	0	0.35	89	550	ton				
<input checked="" type="checkbox"/> Soybean Meal 44%	0.97	1.6	0	0.4	89	500	ton				
<input checked="" type="checkbox"/> Soybean Meal, expelle	1.09	8	0	0.36	92	525	ton				
<input checked="" type="checkbox"/> Soybeans, raw	1.25	19	0	0.32	87	583	ton				
<input checked="" type="checkbox"/> Soybeans, heated	1.24	19	0	0.26	92	600	ton				
<input checked="" type="checkbox"/> Good Quality Hay	0.6	2	35	1.3	87	250	ton				
<input checked="" type="checkbox"/> Poor Quality Hay	0.5	2	50	1	87	150	ton				
<input checked="" type="checkbox"/> Corn Silage	2.8	4.2	0.67	3.2	35	60	ton				
<input checked="" type="checkbox"/> Distillers Dried Grains	15	15	0.9	12	89	270	ton				
<input checked="" type="checkbox"/> High-Moisture Corn	3.6	5.4	0.95	4.2	70	200	ton				
<input checked="" type="checkbox"/> Tallow	0	0	2.06	100	99	25	cwt				
<input checked="" type="checkbox"/> Blood Meal	76	19	1.06	1.2	94	700	ton				
<input checked="" type="checkbox"/> Urea	0	287	0	0	99	500	ton				
<input checked="" type="checkbox"/> Straw	4	1	0.45	0.37	85	140	ton				

4

Select ingredients

Upload data as Excel file: No file chosen

Disregard negative Nutrient Calculated Values

Select Number of Nutrients:

INPUTS - Nutrients for Ingredients							INPUTS - Price Inputs			OUTPUTS	
Ingredient	Nutrient						As-Fed Basis			Calculated	
	RUP %	RDP %	NE13x M	Lipid %	peNDF	Ca %	DM %	Price \$/Unit	Unit	Predicted Value, \$/Unit	Actual Price as % of Predicted Value
Ingredients ↓	Nutrient Calculated Value, \$/Unit DM						2012 Septemb				
<input checked="" type="checkbox"/> Shelled Corn	4.5	4.5	0.91	4.2	0	0.04	89	8	bu		
<input checked="" type="checkbox"/> Soybean Meal 48%	21	33	1	1.1	0	0.35	89	550	ton		
<input checked="" type="checkbox"/> Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4	89	500	ton		
<input checked="" type="checkbox"/> Soybean Meal, expeller	30	16	1.09	8	0	0.36	92	525	ton		
<input checked="" type="checkbox"/> Soybeans, raw	12	28	1.25	19	0	0.32	87	583	ton		
<input checked="" type="checkbox"/> Soybeans, heated	22	21	1.24	10	0	0.26	92	600	ton		
<input checked="" type="checkbox"/> Good Quality Hay	6	14	0.6	2	35	1.3	87	250	ton		
<input checked="" type="checkbox"/> Poor Quality Hay	4.8	11.2	0.5	2	50	1	87	150	ton		
<input checked="" type="checkbox"/> Corn Silage	2.8	4.2	0.67	3.2	30	0.28	35	60	ton		
<input checked="" type="checkbox"/> Distillers Dried Grains	15	15	0.9	12	0	0.22	89	270	ton		
<input checked="" type="checkbox"/> High-Moisture Corn	3.6	5.4	0.95	4.2	0	0.03	70	200	ton		
<input checked="" type="checkbox"/> Tallow	0	0	2.06	100	0	0	99	25	cwt		
<input checked="" type="checkbox"/> Blood Meal	76	19	1.06	1.2	0	0.3	94	700	ton		
<input checked="" type="checkbox"/> Urea	0	287	0	0	0	0	99	500	ton		
<input checked="" type="checkbox"/> Straw	4	1	0.45	0.37	75	0.31	85	140	ton		

5

Edit ingredients & their nutrient composition

Upload data as Excel file: No file chosen

Disregard negative Nutrient Calculated Values

Select Number of Nutrients:

INPUTS - Nutrients for Ingredients							INPUTS - Price Inputs			OUTPUTS	
<input checked="" type="checkbox"/> Ingredient	Nutrient						As-Fed Basis			Calculated	
	RUP %	RDP %	NE13x M	Lipid %	peNDF	Ca %	DM %	Price \$/Unit	Unit	Predicted Value, \$/Unit	Actual Price as % of Predicted Value
Nutrient Calculated Value, \$/Unit DM											
Ingredients ↓											
<input checked="" type="checkbox"/> Shelled Corn	4.5	4.5	0.91	4.2	0	0.04	89	8	bu		
<input checked="" type="checkbox"/> Soybean Meal 48%	21	33	1	1.1	0	0.35	89	550	ton		
<input checked="" type="checkbox"/> Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4	89	500	ton		
<input checked="" type="checkbox"/> Soybean Meal, expeller	30	16	1.09	8	0	0.36	92	525	ton		
<input checked="" type="checkbox"/> Soybeans, raw	12	28	1.25	19	0	0.32	87	583	ton		
<input checked="" type="checkbox"/> Soybeans, heated	22	21	1.24	19	0	0.26	82	600	ton		
<input checked="" type="checkbox"/> Good Quality Hay	6	14	0.6	2	35	1.3	87	250	ton		
<input checked="" type="checkbox"/> Poor Quality Hay	4.8	11.2	0.5	2	50	1	87	150	ton		
<input checked="" type="checkbox"/> Corn Silage	2.8	4.2	0.67	3.2	30	0.28	35	60	ton		
<input checked="" type="checkbox"/> Distillers Dried Grains	15	15	0.9	12	0	0.22	89	270	ton		
<input checked="" type="checkbox"/> High-Moisture Corn	3.6	5.4	0.95	4.2	0	0.03	70	200	ton		
<input checked="" type="checkbox"/> Tallow	0	0	2.06	100	0	0	99	25	cwt		
<input checked="" type="checkbox"/> Blood Meal	76	19	1.06	1.2	0	0.3	94	700	ton		
<input checked="" type="checkbox"/> Urea	0	287	0	0	0	0	99	500	ton		
<input checked="" type="checkbox"/> Straw	4	1	0.45	0.37	75	0.31	85	140	ton		

6

Edit ingredients units, DM & prices

Upload data as Excel file: No file chosen

Disregard negative Nutrient Calculated Values

Select Number of Nutrients:

INPUTS - Nutrients for Ingredients							INPUTS - Price Inputs			OUTPUTS	
<input checked="" type="checkbox"/> Ingredient	Nutrient						As-Fed Basis			Calculated	
	RUP %	RDP %	NE13x M	Lipid %	peNDF	Ca %	DM %	Price \$/Unit	Unit	Predicted Value, \$/Unit	Actual Price as % of Predicted Value
Nutrient Calculated Value, \$/Unit DM											
Ingredients ↓											
<input checked="" type="checkbox"/> Shelled Corn	4.5	4.5	0.91	4.2	0	0.04	89	8	bu		
<input checked="" type="checkbox"/> Soybean Meal 48%	21	33	1	1.1	0	0.35	89	550	ton		
<input checked="" type="checkbox"/> Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4	89	500	ton		
<input checked="" type="checkbox"/> Soybean Meal, expeller	30	16	1.09	8	0	0.36	92	525	ton		
<input checked="" type="checkbox"/> Soybeans, raw	12	28	1.25	19	0	0.32	87	583	ton		
<input checked="" type="checkbox"/> Soybeans, heated	22	21	1.24	19	0	0.26	92	600	ton		
<input checked="" type="checkbox"/> Good Quality Hay	6	14	0.6	2	35	1.3	87	250	ton		
<input checked="" type="checkbox"/> Poor Quality Hay	4.8	11.2	0.5	2	50	1	87	150	ton		
<input checked="" type="checkbox"/> Corn Silage	2.8	4.2	0.67	3.2	30	0.28	35	60	ton		
<input checked="" type="checkbox"/> Distillers Dried Grains	15	15	0.9	12	0	0.22	89	270	ton		
<input checked="" type="checkbox"/> High-Moisture Corn	3.6	5.4	0.95	4.2	0	0.03	70	200	ton		
<input checked="" type="checkbox"/> Tallow	0	0	2.06	100	0	0	99	25	cwt		
<input checked="" type="checkbox"/> Blood Meal	76	19	1.06	1.2	0	0.3	94	700	ton		
<input checked="" type="checkbox"/> Urea	0	287	0	0	0	0	99	500	ton		
<input checked="" type="checkbox"/> Straw	4	1	0.45	0.37	75	0.31	85	140	ton		

7

Perform a calculation!

Upload data as Excel file: No file chosen

← Disregard negative Nutrient Calculated Values

Select Number of Nutrients:

INPUTS - Nutrients for Ingredients							INPUTS - Price Inputs			OUTPUTS	
<input checked="" type="checkbox"/> Ingredient	Nutrient						As-Fed Basis			Calculated	
	RUP %	RDP %	NEI3x M	Lipid %	peNDF	Ca %	DM %	Price \$/Unit	Unit	Predicted Value, \$/Unit	Actual Price as % of Predicted Value
Ingredients ↓	0.294	0.093	0.166	-0.081	-0.008	-0.691					
<input checked="" type="checkbox"/> Shelled Corn	4.5	4.5	0.91	4.2	0	0.04	89	8	bu	8.222 /bu	97
<input checked="" type="checkbox"/> Soybean Meal 48%	21	33	1	1.1	0	0.35	89	550	ton	454.347 /ton	121
<input checked="" type="checkbox"/> Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4	89	500	ton	425.010 /ton	118
<input checked="" type="checkbox"/> Soybean Meal, expeller	30	16	1.09	8	0	0.36	92	525	ton	506.278 /ton	104
<input checked="" type="checkbox"/> Soybeans, raw	12	28	1.25	19	0	0.32	87	583	ton	437.393 /ton	133
<input checked="" type="checkbox"/> Soybeans, heated	22	21	1.24	19	0	0.26	92	600	ton	502.291 /ton	119
<input checked="" type="checkbox"/> Good Quality Hay	6	14	0.6	2	35	1.3	87	250	ton	203.229 /ton	123
<input checked="" type="checkbox"/> Poor Quality Hay	4.8	11.2	0.5	2	50	1	87	150	ton	165.053 /ton	91
<input checked="" type="checkbox"/> Corn Silage	2.8	4.2	0.67	3.2	30	0.28	35	60	ton	81.497 /ton	74
<input checked="" type="checkbox"/> Distillers Dried Grains	15	15	0.9	12	0	0.22	89	270	ton	349.427 /ton	77
<input checked="" type="checkbox"/> High-Moisture Corn	3.6	5.4	0.95	4.2	0	0.03	70	200	ton	237.828 /ton	84
<input checked="" type="checkbox"/> Tallow	0	0	2.06	100	0	0	99	25	cwt	25.845 /cwt	97
<input checked="" type="checkbox"/> Blood Meal	76	19	1.06	1.2	0	0.3	94	700	ton	778.273 /ton	90
<input checked="" type="checkbox"/> Urea	0	287	0	0	0	0	99	500	ton	528.316 /ton	95
<input checked="" type="checkbox"/> Straw	4	1	0.45	0.37	75	0.31	85	140	ton	133.795 /ton	105

8

Analyze results

Upload data as Excel file: No file chosen

Disregard negative Nutrient Calculated Values

Select Number of Nutrients:

INPUTS - Nutrients for Ingredients							INPUTS - Price Inputs			OUTPUTS	
<input checked="" type="checkbox"/> Ingredient	Nutrient						As-Fed Basis			Calculated	
	RUP %	RDP %	NEI3x N	Lipid %	peNDF	Ca %	DM %	Price \$/Unit	Unit	Predicted Value, \$/Unit	Actual Price as % of Predicted Value
Nutrient Calculated Value, \$/Unit DM											
Ingredients ↓	0.294	0.093	0.166	-0.081	-0.008	-0.691					
<input checked="" type="checkbox"/> Shelled Corn	4.5	4.5	0.91	4.2	0	0.04	89	8	bu	8.222 /bu	97
<input checked="" type="checkbox"/> Soybean Meal 48%	21	33	1	1.1	0	0.35	89	550	ton	454.347 /ton	121
<input checked="" type="checkbox"/> Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4	89	500	ton	425.010 /ton	118
<input checked="" type="checkbox"/> Soybean Meal, expeller	30	16	1.09	8	0	0.36	92	525	ton	506.278 /ton	104
<input checked="" type="checkbox"/> Soybeans, raw	12	28	1.25	19	0	0.32	87	583	ton	437.393 /ton	133
<input checked="" type="checkbox"/> Soybeans, heated	22	21	1.24	19	0	0.26	92	600	ton	502.291 /ton	119
<input checked="" type="checkbox"/> Good Quality Hay	6	14	0.6	2	35	1.3	87	250	ton	203.229 /ton	123
<input checked="" type="checkbox"/> Poor Quality Hay	4.8	11.2	0.5	2	50	1	87	150	ton	165.053 /ton	91
<input checked="" type="checkbox"/> Corn Silage	2.8	4.2	0.67	3.2	30	0.28	35	60	ton	81.497 /ton	74
<input checked="" type="checkbox"/> Distillers Dried Grains	15	15	0.9	12	0	0.22	89	270	ton	349.427 /ton	77
<input checked="" type="checkbox"/> High-Moisture Corn	3.6	5.4	0.95	4.2	0	0.03	70	200	ton	237.828 /ton	84
<input checked="" type="checkbox"/> Tallow	0	0	2.06	100	0	0	99	25	cwt	25.845 /cwt	97
<input checked="" type="checkbox"/> Blood Meal	76	19	1.06	1.2	0	0.3	94	700	ton	778.273 /ton	90
<input checked="" type="checkbox"/> Urea	0	287	0	0	0	0	99	500	ton	528.316 /ton	95
<input checked="" type="checkbox"/> Straw	4	1	0.45	0.37	75	0.31	85	140	ton	133.795 /ton	105

Overpriced

Bargain!

Perform another calculation!

Upload data as Excel file: No file chosen

Disregard negative Nutrient Calculated Values

Select Number of Nutrients:

INPUTS - Nutrients for Ingredients				INPUTS - Price Inputs			OUTPUTS	
<input checked="" type="checkbox"/> Ingredient	Nutrient			As-Fed Basis			Calculated	
	RUP %	RDP %	NE13x M	DM %	Price \$/Unit	Unit	Predicted Value, \$/Unit	Actual Price as % of Predicted Value
Nutrient Calculated Value, \$/Unit DM				2012 Septemb				
Ingredients ↓	0.329	0.095	0.148					
<input checked="" type="checkbox"/> Shelled Corn	4.5	4.5	0.91	89	8	bu	7.672 /bu	104
<input checked="" type="checkbox"/> Soybean Meal 48%	21	33	1	89	550	ton	442.427 /ton	124
<input checked="" type="checkbox"/> Soybean Meal 44%	17.5	32.5	0.97	89	500	ton	413.153 /ton	121
<input checked="" type="checkbox"/> Soybean Meal, expeller	30	16	1.09	92	525	ton	506.849 /ton	104
<input checked="" type="checkbox"/> Soybeans, raw	12	28	1.25	87	583	ton	437.145 /ton	133
<input checked="" type="checkbox"/> Soybeans, heated	22	21	1.24	92	600	ton	507.966 /ton	118
<input checked="" type="checkbox"/> Good Quality Hay	6	14	0.6	87	250	ton	212.126 /ton	118
<input checked="" type="checkbox"/> Poor Quality Hay	4.8	11.2	0.5	87	150	ton	174.858 /ton	86
<input checked="" type="checkbox"/> Corn Silage	2.8	4.2	0.67	35	60	ton	78.736 /ton	76
<input checked="" type="checkbox"/> Distillers Dried Grains	15	15	0.9	89	270	ton	350.582 /ton	77
<input checked="" type="checkbox"/> High-Moisture Corn	3.6	5.4	0.95	70	200	ton	220.840 /ton	91
<input checked="" type="checkbox"/> Tallow	0	0	2.06	99	25	cwt	30.222 /cwt	83
<input checked="" type="checkbox"/> Blood Meal	76	19	1.06	94	700	ton	799.669 /ton	88
<input checked="" type="checkbox"/> Urea	0	287	0	99	500	ton	537.260 /ton	93
<input checked="" type="checkbox"/> Straw	4	1	0.45	85	140	ton	137.369 /ton	102

10

Analyze results again

Upload data as Excel file: No file chosen

Disregard negative Nutrient Calculated Values

Select Number of Nutrients:

INPUTS - Nutrients for Ingredients

Ingredient	Nutrient		
	RUP %	RDP %	NE13x M
	0.329	0.095	0.148
<input checked="" type="checkbox"/> Shelled Corn	4.5	4.5	0.91
<input checked="" type="checkbox"/> Soybean Meal 48%	21	33	1
<input checked="" type="checkbox"/> Soybean Meal 44%	17.5	32.5	0.97
<input checked="" type="checkbox"/> Soybean Meal, expeller	30	16	1.09
<input checked="" type="checkbox"/> Soybeans, raw	12	28	1.25
<input checked="" type="checkbox"/> Soybeans, heated	22	21	1.24
<input checked="" type="checkbox"/> Good Quality Hay	6	14	0.6
<input checked="" type="checkbox"/> Poor Quality Hay	4.8	11.2	0.5
<input checked="" type="checkbox"/> Corn Silage	2.8	4.2	0.67
<input checked="" type="checkbox"/> Distillers Dried Grains	15	15	0.9
<input checked="" type="checkbox"/> High-Moisture Corn	3.6	5.4	0.95
<input checked="" type="checkbox"/> Tallow	0	0	2.06
<input checked="" type="checkbox"/> Blood Meal	76	19	1.06
<input checked="" type="checkbox"/> Urea	0	287	0
<input checked="" type="checkbox"/> Straw	4	1	0.45

INPUTS - Price Inputs

As-Fed Basis

2012 Septemb

DM %	Price \$/Unit	Unit
89	8	bu
89	550	ton
89	500	ton
92	525	ton
87	583	ton
92	600	ton
87	250	ton
87	150	ton
35	60	ton
89	270	ton
70	200	ton
99	25	cwt
94	700	ton
99	500	ton
85	140	ton

OUTPUTS

Calculated

Predicted Value, \$/Unit	Actual/Price as % of Predicted Value
7.672 /bu	104
442.427 /ton	124
413.153 /ton	121
506.849 /ton	104
437.145 /ton	133
507.966 /ton	118
212.126 /ton	118
174.858 /ton	86
78.736 /ton	76
350.582 /ton	77
220.840 /ton	91
30.222 /cwt	83
799.669 /ton	88
537.260 /ton	93
137.369 /ton	102

Still Overpriced

Still Bargain!

Download Spreadsheet

Upload data as Excel

Analyze Disregard

Select Number of Nutrients

FeedValAnalysis (3).xls

Search in Sheet

Home Layout Tables Charts SmartArt Formulas Data Review

G21 ton

	A	B	C	D	E	F	G	H	I
	Ingredient	RUP %	RDP %	NEI3x Mcal/lb	DM %	Price \$/Unit	Unit	Predicted Value, \$/Unit	Actual Price as % of Predicted Value
1	Ingredient								
2	Shelled Corn	4.5	4.5	0.91	89	8	bu	7.672	104
3	Soybean Meal 4	21	33	1	89	550	ton	442.427	124
4	Soybean Meal 4	17.5	32.5	0.97	89	500	ton	413.153	121
5	Soybean Meal,	30	16	1.09	92	525	ton	506.849	104
6	Soybeans, raw	12	28	1.25	87	583	ton	437.145	133
7	Soybeans, heat	22	21	1.24	92	600	ton	507.966	118
8	Good Quality H	6	14	0.6	87	250	ton	212.126	118
9	Poor Quality Ha	4.8	11.2	0.5	87	150	ton	174.858	86
10	Corn Silage	2.8	4.2	0.67	35	60	ton	78.736	76
11	Distillers Dried	15	15	0.9	89	270	ton	350.582	77
12	High-Moisture f	3.6	5.4	0.95	70	200	ton	220.84	91
13	Tallow	0	0	2.06	99	25	cwt	30.222	83
14	Blood Meal	76	19	1.06	94	700	ton	799.669	88
15	Urea	0	287	0	99	500	ton	537.26	93
16	Straw	4	1	0.45	85	140	ton	137.369	102
17	Soy Hulls	6	8	0.67	89	280	ton	225.37	124
18	Corn Gluten Fev	7.5	16.5	0.79	89	250	ton	280.121	89
19	Canola Meal, ex	17	21	0.8	89	360	ton	346.027	104
20	Canola Meal, sc	13.5	24.5	0.74	89	400	ton	315.571	127
21	Cottonseed Me	20	25	0.78	89	360	ton	365.07	99
22	Wheat Middling	4.5	14	0.76	89	240	ton	250.413	96
23	Whole Cottons	6	18	0.88	89	300	ton	297.592	101
24	Hi-Pro Distillers	22	22	0.9	89	300	ton	403.4	74
25	Wet Distillers	12	18	0.92	45	125	ton	173.588	72
26	Brewers Dried C	15	15	0.78	89	250	ton	318.929	78
27	Wet Brewers	12	18	0.78	25	75	ton	86.064	87
28	Malt Sprouts	9	21	0.68	89	250	ton	267.473	93
29	Sunflower Mea	8	21	0.63	89	320	ton	248.421	129
30	Beet Pulp	5	5	0.67	89	150	ton	214.458	70
31	Hominy	4	8	0.86	89	250	ton	263.762	95
32	Linseed Meal	16	16	0.72	89	370	ton	310.647	119
33	Molasses	2	4	0.8	89	175	ton	229.479	76
34	Corn Gluten Me	42	23	1.08	89	640	ton	569.814	112
35	Wheat Bran	3.5	14	0.73	89	240	ton	236.637	101
36	Whey	1	9	0.85	20	50	ton	55.106	91
37	Oats	4.5	8.5	0.81	89	250	ton	254.346	98
38	Wheat	4.2	10	0.91	89	8.4	bu	7.882	107
39	Barley	3.4	9	0.85	89	14.75	cwt	12.964	114
40									
41									

OUTPUTS

Calculated

Predicted \$/Unit	Actual Price as % of Predicted Value
/bu	104
/ton	124
/ton	121
/ton	104
/ton	133
/ton	118
/ton	118
/ton	86
/ton	76
/ton	77
/ton	91
/cwt	83
/ton	88
/ton	93
/ton	102

FeedVal Analysis

Normal View Ready

12

Upload Spreadsheet

Upload data as Excel file: No file chosen

Analyze Disregard negative Nutrient Calculated Values

Select Number of Nutrients:

INPUTS - Nutrients for Ingredients INPUTS - Price Inputs OUTPUTS

Ingredient	Unit	Price	Unit	Price	Unit	Price	Actual Price as % of Predicted Value	
Shelled Corn							104	
Soybean Meal							124	
Soybean Meal							121	
Soybean Meal							104	
Soybeans, raw							133	
Soybeans, head							118	
Good Quality H							118	
Poor Quality H							86	
Corn Silage							76	
Distillers Dried							77	
High-Moisture							91	
Tallow							83	
Blood Meal		76	19	1.06	94	700	799.669 /ton	88
Urea		0	287	0	99	500	537.260 /ton	93
Straw		4	1	0.45	85	140	137.369 /ton	102

File selection dialog showing files in 'All My Files' and 'Downloads' folders. Files include 'cow_r...).xlsx', 'Econ...s.key', 'Scree...M.png', 'Feed...on.key', 'Feed...(3).xls', 'Scree...M.png', and 'Feed...ue.key'. Buttons for 'Cancel' and 'Open' are visible at the bottom of the dialog.

October Prices (negatives in)

	Ingredient	RUP %	RDP %	NEI3x Mcal/lb	Lipid %	peNDF %	Ca %	Phos %	Lys %	Met %	NDF %	dNDF	Starch	Sugars	DM %	Price \$/Unit	Unit	Predicted Value, \$/Unit	Actual Price as % of Predicted Value
Bargain	Wet Distillers	12	18	0.92	15	0	0.22	0.83	0.67	0.55	38.8	19	2.5	2.5	45	113.67	ton	165.238	69
	Hi-Pro Distillers	22	22	0.9	4	0	0.22	0.45	0.99	0.8	25	12	2	2	89	300	ton	415.681	72
	Corn Silage	2.8	4.2	0.67	3.2	30	0.28	0.26	0.18	0.11	42	24	30	2.5	35	60	ton	76.612	78
	High-Moisture Corn	3.6	5.4	0.95	4.2	0	0.03	0.3	0.25	0.19	10.3	5	72	1.5	70	200	ton	237.48	84
	Canola Meal, expeller	17	21	0.8	5.4	0	0.75	1.1	2.14	0.71	30	6	1.5	1.5	89	345	ton	394.546	87
	Poor Quality Hay	4.8	11.2	0.5	2	50	1	0.28	0.75	0.24	50	20	2.5	2.5	87	180	ton	204.636	88
	Distillers Dried Grains	15	15	0.9	12	0	0.22	0.83	0.67	0.55	38.8	19	2.5	2.5	89	275	ton	312.328	88
	Cottonseed Meal	20	25	0.78	1.9	0	0.2	1.15	1.86	0.72	30.8	9	1.5	1.5	89	338.33	ton	383.397	88
	Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4	0.71	3.15	0.72	14.9	7.5	2.7	1.5	89	441.2	ton	497.11	89
	Brewers Dried Grains	15	15	0.78	5.2	0	0.3	0.67	1.22	0.51	47.4	21	3.8	2.5	89	250	ton	279.142	90
	Soybean Meal 48%	21	33	1	1.1	0	0.35	0.7	3.4	0.78	9.8	4.9	2.7	1.5	89	491.2	ton	538.38	91
	Wet Brewers	12	18	0.78	5.2	0	0.35	0.59	1.22	0.51	47.1	24	3.8	2.5	25	75	ton	82.601	91
	Molasses	2	4	0.8	0.2	0	1	0.1	0.06	0.01	0.1	0.1	5	80	89	160	ton	174.947	91
	Shelled Corn	4.5	4.5	0.91	4.2	0	0.04	0.3	0.25	0.19	9.5	4.8	72	2	89	7.92	bu	8.528	93
	Corn Gluten Feed	7.5	16.5	0.79	3.5	0	0.7	1	0.66	0.39	35.5	18	23.3	2.5	89	252	ton	270.679	93
Whole Cottonseed	6	18	0.88	19.3	22	0.17	0.6	1.04	0.41	50.3	20	1	1	89	291.75	ton	308.12	95	
Soybean Meal, expeller	30	16	1.09	8	0	0.36	0.66	2.89	0.66	21.7	8	2.7	1.5	92	466.2	ton	481.102	97	
Tallow	0	0	2.06	100	0	0	0	0	0	0	0	0	0	99	25	cwt	25.628	98	
Blood Meal	76	19	1.06	1.2	0	0.3	0.3	8.5	1.11	0	0	0	0	94	1000	ton	1010.598	99	
Oats	4.5	8.5	0.81	5.1	0	0.11	0.4	0.54	0.22	30	12	47	2.5	89	243.75	ton	242.646	100	
Good Quality Hay	6	14	0.6	2	35	1.3	0.3	0.94	0.3	40	20	2.5	2.5	87	248.67	ton	245.44	101	
Urea	0	287	0	0	0	0	0	0	0	0	0	0	0	99	500	ton	495.007	101	
Wheat Middlings	4.5	14	0.76	4.3	0	0.16	1.18	0.67	0.3	36.7	18	29	2.5	89	240	ton	238.166	101	
Wheat	4.2	10	0.91	2.3	0	0.05	0.43	0.22	0.21	13.4	6.7	67	2	89	8.49	bu	8.184	104	
Canola Meal, solvent	13.5	24.5	0.74	1.5	0	0.75	1.1	2.14	0.71	29.8	6	1.5	1.5	89	400	ton	377.523	106	
Wheat Bran	3.5	14	0.73	4.3	0	0.13	1.18	0.71	0.28	42.5	21	29	2.5	89	240	ton	226.321	106	
Whey	1	9	0.85	0.7	0	1.37	1.04	0.74	0.14	0	0	4	70	20	58.4	ton	55.103	106	
Malt Sprouts	9	21	0.68	2.3	0	0.24	0.51	1.31	0.4	47	21	3.8	2.5	89	250	ton	230.241	109	
Soybeans, raw	12	28	1.25	19	0	0.32	0.6	2.52	0.58	19.5	10	10	2	87	543	ton	486.538	112	
Corn Gluten Meal	42	23	1.08	2.5	0	0.06	0.6	1.1	1.54	11.1	3	2.5	1.5	89	812.14	ton	725.362	112	
Barley	3.4	9	0.85	2.2	0	0.06	0.39	0.45	0.21	20.8	10.4	60	2	89	15.5	cwt	13.744	113	
Sunflower Meal	8	21	0.63	1.4	0	0.48	1	1.07	0.69	40.3	12	6	1.5	89	365	ton	310.978	117	
Linseed Meal	16	16	0.72	1.7	0	0.4	0.83	1.18	0.56	36.1	11	4	1.5	89	326.67	ton	273.569	119	
Soy Hulls	6	8	0.67	2.7	0	0.63	0.17	0.88	0.16	60.3	45	5.3	1.5	89	200	ton	166.963	120	
Hominy	4	8	0.86	4.2	0	0.03	0.65	0.44	0.21	21.1	11	31	1.5	89	245	ton	202.997	121	
Soybeans, heated	22	21	1.24	19	0	0.26	0.64	2.71	0.62	22.1	8	10	2	92	700	ton	525.188	133	
Straw	4	1	0.45	0.37	75	0.31	0.3	0.16	0.06	73	33	1	1	85	140	ton	103.905	135	
Beet Pulp	5	5	0.67	1.1	0	0.91	0.9	0.35	0.13	45.8	32	0.5	10	89	150	ton	107.256	140	

Best

OK

Worst

October Prices (negatives off)

Bargain

Ingredient	RUP %	RDP %	Lipid %	peNDF %	Ca %	Lys %	Met %	Starch	Sugars	DM %	Price \$/Unit	Unit	Predicted Value, \$/Unit	Actual Price as % of Predicted Value
Wet Distillers	12	18	15	0	0.22	0.67	0.55	2.5	2.5	45	113.67	ton	168.917	67
Hi-Pro Distillers	22	22	4	0	0.22	0.99	0.8	2	2	89	300	ton	406.606	74
Brewers Dried Grains	15	15	5.2	0	0.3	1.22	0.51	3.8	2.5	89	250	ton	309.547	81
Corn Silage	2.8	4.2	3.2	30	0.28	0.18	0.11	30	2.5	35	60	ton	71.939	83
Canola Meal, expeller	17	21	5.4	0	0.75	2.14	0.71	1.5	1.5	89	345	ton	415.699	83
Cottonseed Meal	20	25	1.9	0	0.2	1.86	0.72	1.5	1.5	89	338.33	ton	405.562	83
Distillers Dried Grains	15	15	12	0	0.22	0.67	0.55	2.5	2.5	89	275	ton	325.729	84
High-Moisture Corn	3.6	5.4	4.2	0	0.03	0.25	0.19	72	1.5	70	200	ton	230.966	87
Wet Brewers	12	18	5.2	0	0.35	1.22	0.51	3.8	2.5	25	75	ton	85.511	88
Molasses	2	4	0.2	0	1	0.06	0.01	5	80	89	160	ton	182.256	88
Poor Quality Hay	4.8	11.2	2	50	1	0.75	0.24	2.5	2.5	87	180	ton	202.669	89
Whole Cottonseed	6	18	19.3	22	0.17	1.04	0.41	1	1	89	291.75	ton	324.031	90
Corn Gluten Feed	7.5	16.5	3.5	0	0.7	0.66	0.39	23.3	2.5	89	252	ton	273.212	92
Oats	4.5	8.5	5.1	0	0.11	0.54	0.22	47	2.5	89	243.75	ton	263.578	92
Soybean Meal, expeller	30	16	8	0	0.36	2.89	0.66	2.7	1.5	92	466.2	ton	497.386	94
Shelled Corn	4.5	4.5	4.2	0	0.04	0.25	0.19	72	2	89	7.92	bu	8.293	95
Soybean Meal 44%	17.5	32.5	1.6	0	0.4	3.15	0.72	2.7	1.5	89	441.2	ton	464.443	95
Wheat Middlings	4.5	14	4.3	0	0.16	0.67	0.3	29	2.5	89	240	ton	250.536	96
Malt Sprouts	9	21	2.3	0	0.24	1.31	0.4	3.8	2.5	89	250	ton	257.53	97
Soybean Meal 48%	21	33	1.1	0	0.35	3.4	0.78	2.7	1.5	89	491.2	ton	502.023	98
Tallow	0	0	100	0	0	0	0	0	0	99	25	cwt	25.279	99
Blood Meal	76	19	1.2	0	0.3	8.5	1.11	0	0	94	1000	ton	1012.419	99
Wheat Bran	3.5	14	4.3	0	0.13	0.71	0.28	29	2.5	89	240	ton	243.004	99
Urea	0	287	0	0	0	0	0	0	0	99	500	ton	493.962	101
Canola Meal, solvent	13.5	24.5	1.5	0	0.75	2.14	0.71	1.5	1.5	89	400	ton	391.81	102
Linseed Meal	16	16	1.7	0	0.4	1.18	0.56	4	1.5	89	326.67	ton	310.283	105
Wheat	4.2	10	2.3	0	0.05	0.22	0.21	67	2	89	8.49	bu	8.028	106
Sunflower Meal	8	21	1.4	0	0.48	1.07	0.69	6	1.5	89	365	ton	328.651	111
Whey	1	9	0.7	0	1.37	0.74	0.14	4	70	20	58.4	ton	52.748	111
Good Quality Hay	6	14	2	35	1.3	0.94	0.3	2.5	2.5	87	248.67	ton	221.462	112
Barley	3.4	9	2.2	0	0.06	0.45	0.21	60	2	89	15.5	cwt	13.674	113
Soybeans, raw	12	28	19	0	0.32	2.52	0.58	10	2	87	543	ton	460.882	118
Corn Gluten Meal	42	23	2.5	0	0.06	1.1	1.54	2.5	1.5	89	812.14	ton	685.828	118
Hominy	4	8	4.2	0	0.03	0.44	0.21	31	1.5	89	245	ton	206.578	119
Straw	4	1	0.37	75	0.31	0.16	0.06	1	1	85	140	ton	116.2	120
Soybeans, heated	22	21	19	0	0.26	2.71	0.62	10	2	92	700	ton	530.232	132
Soy Hulls	6	8	2.7	0	0.63	0.88	0.16	5.3	1.5	89	200	ton	145.439	138
Beet Pulp	5	5	1.1	0	0.91	0.35	0.13	0.5	10	89	150	ton	103.772	145

Best

OK

Worst

Overpriced

Grouping feeding strategies

Dairy Management UW-Extension
University of Wisconsin-Madison

THE UNIVERSITY OF WISCONSIN MADISON UW EXTENSION

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Grouping Strategies for Feeding Lactating Dairy Cattle

Navigation tabs: Overview, Upload Parameters, Group Data, Reap Benefits

Sample herd: Specific herd = 470

Prices

	CP%	Nel, MCal/lb	\$(Unit)
Corn	0.1	0.9	6.72 (\$/bu)
Soybean Meal	0.5	0.88	350 (\$/ton)

Please note that the values highlighted with this color will be used by the tool.

Calculated Values

\$/lb CP	0.14337	Edit
\$/Mcal NEL	0.1174	Edit

Milk Price: 15.89 (\$/cwt)

Download Parameter Excel File
Download Parameters File

Download template

Upload Parameters as Excel File
Upload the Excel File: Choose File No file chosen Upload

Upload herd data

Current File/Data Status
Using Data from Default Parameters File on Server

What data are being used

Grouping feeding strategies

Overview
Upload Farm Details
Group Cows
Reap Benefits
Sample Farm: Total Cows = 470

Farm decision tree

Do you group and feed different diets to lactating cows?

NO

What criteria do you use to group lactating cows?

??

How many groups can you handle and feed different diets to?

??

How many groups can you handle and feed different diets to?

??

How do you group your lactating cows?

??

BACK

How many groups can you handle and feed different diets to?

Two

Three

Four

Please enter the size of each group that you can handle.

Group	Group1	Group2	Group3
Size	100	100	270

Please enter the CP and NEL values currently being used:

NEL (Mcal NEL/lb)	CP(%)
0.82	18

Additional cost (labor, management, and machinery) of feeding and grouping lactating cows into 3 groups instead of 1 (\$/herd/month):

Estimate milk depression caused due to re-location of lactating cows :

Loss of milk production (lb/d):

Number of days the loss continues (d):

Would you save money because of using less feed additives with more groups? If yes, how much would you save? \$/herd/month

Press analyze to know the benefits of grouping.

Analyze

Analyze

Number of groups

Size of groups

Current diets

Additional costs

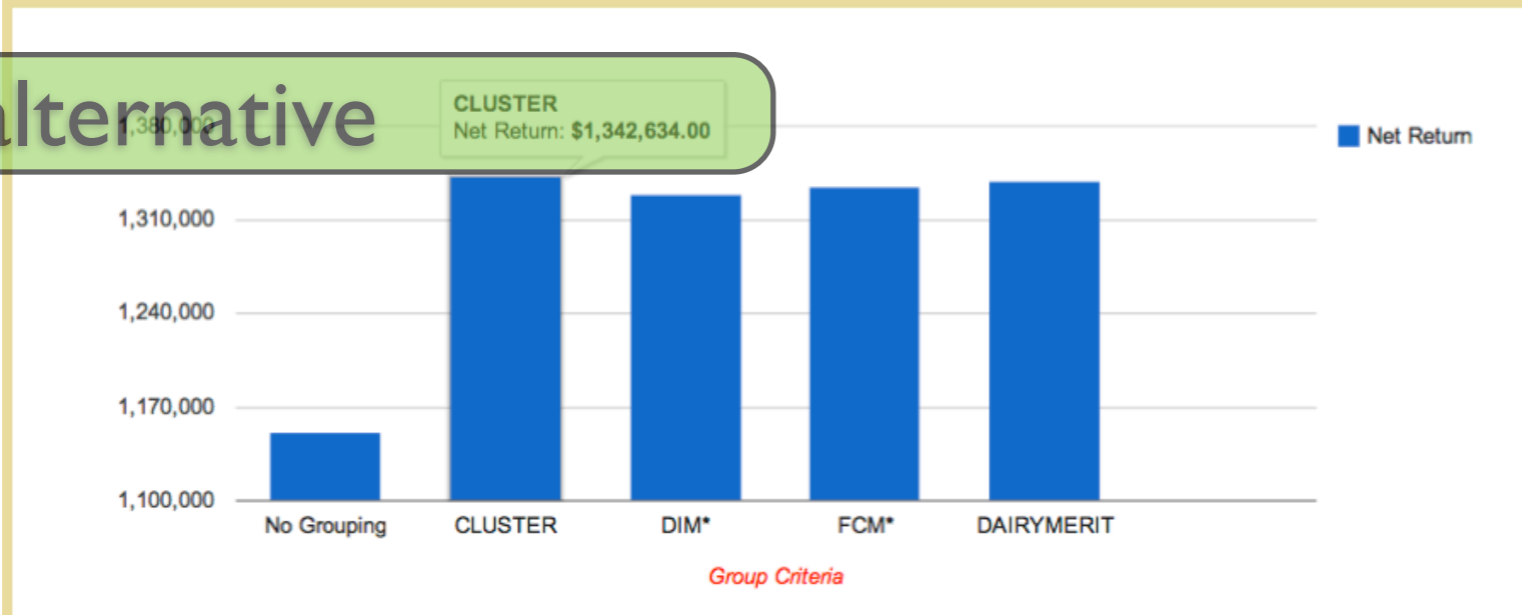
Milk depression

Savings

Grouping feeding strategies

Figure: Yearly Net Return (\$/herd/yr) for different Group Criteria

Best alternative



FCM* - Fat Corrected Milk; DIM* - Days In Milk

Table: Group Criteria, Diets, Income Over Feed Cost (IOFC) and Total Herd Net Return

Group Criteria	Group Number	Number of Cows	NEL* (Mcal/lb)	CP* (%)	IOFC (\$/cow/d)	Cost of Management (\$/cow/d)	Cost Milk Depression (\$/cow/d)	Savings on Additives (\$/cow/d)	Total (\$/herd/yr)
NO GROUPING (No Optimization)	1	470	0.82	18.00	6.71				
	Mean		0.82	18.00	6.71	-0.0000	-0.0000	0.0000	1,151,483
	CLUSTER	1	270	0.71	16.05	9.31			
	2	100	0.65	14.18	7.19				
	3	100	0.62	13.07	4.67				
	Mean		0.68	15.02	7.87	-0.0355	-0.0077	0.0000	1,342,634
DIM	1	270	0.71	16.05	8.81				
	2	100	0.67	14.86	7.37				
	3	100	0.65	14.10	5.46				
	Mean		0.69	15.38	7.79	-0.0355	-0.0142	0.0000	1,328,431
FCM	1	270	0.71	16.03	9.34				
	2	100	0.66	14.66	6.83				
	3	100	0.63	13.47	4.72				
	Mean		0.68	15.19	7.83	-0.0355	-0.0077	0.0000	1,335,026
DAIRYMERIT	1	270	0.71	16.05	9.18				
	2	100	0.66	14.37	7.13				
	3	100	0.62	13.11	4.98				
	Mean		0.68	15.07	7.85	-0.0355	-0.0077	0.0000	1,339,517

Cow ID group data

Group diets

Group & herd economics

Analysis from dairy farm records

30 Wisconsin dairy farms

No grouping vs. 3 groups

- Same size groups

Same prices for all

- \$15.89/cwt milk
- \$0.14337/lb CP
- \$0.1174/Mcal NEI

Projected body weight

- 1,100 lb primiparous
- 1,300 lb multiparous

Cluster grouping

- 83rd percentile CP and NEI



Analysis from dairy farm records

30 Wisconsin dairy farms

	Number of lactating cows (n=30)	Income over Feed Cost (no grouping)	Income over Feed Cost (3 groups)
		\$/cow per year	
Mean	788	\$2,311	\$2,707
Minimum	< 200	\$697	\$1,059
Maximum	> 1,000	\$2,967	\$3,285

Increase of IOFC (\$/cow per year)

- Between 7 and 52%
- Mean = \$396
- Range = \$161 to \$580

After reasonable extra costs

- Still increased net margin of between 5 and 47%

Economic value of a cow

Inputs

INPUTS - Edit Values in This Block

Evaluated Cow Variables

Current Lactation	3
Current Months after Calving	5
Current Months in Pregnancy	1
Expected Milk Production Rest of Lactation, %	100
Expected Milk Production Next Lactations, %	100

Cow data

Replacement Cow Variable

Expected genetic improvement, % additional milk	0
---	---

Replacement data

Herd Production and Reproduction Variables

Herd Turnover Ratio, %/year	35
Rolling Herd Average, lb/cow per year	24,00
21-d Pregnancy Rate, %	18
Reproduction Cost, \$/cow per month	20
Last Month After Calving to Breed a Cow	10
Do-not-Breed Cow Minimum Milk, lb/day	50
Pregnancy Loss after 35 Days Pregnant, %	22.6
Average Cow Body Weight, lb	1306

Herd data

Herd Economic Variables

Replacement Cost, \$/cow	1300
Salvage Value, \$/lb live weight	0.38
Calf Value, \$/calf	100
Milk Price, \$/cwt	16
Milk Butterfat, %	3.5
Feed Cost Lactating Cows, \$/lb dry matter	0.1
Feed Cost Dry Cows, \$/lb dry matter	0.08
Interest Rate, %/year	6

Economic data

Analyze

Analyze

OUTPUTS - Interactive Results

Outputs

Value of the Cow, \$

628

Cow value

Compared Against a Replacement, \$

Milk Sales, \$	148
Feed Cost, \$	-157
Calf Value, \$	26
Non-reproductive Cull, \$	-126
Mortality Cost, \$	-24
Reproductive Cull, \$	12
Reproduction Costs, \$	45

Compared with replacement

Replacement Transaction, \$

704

Herd Structure at Steady State

Days in milk	224
Days to Conception	122
Percent of Pregnant	52
Reproductive Culling, %	8
Mortality, %	3
1st Lactation, %	43
2 nd Lactation, %	27
> 3 rd Lactation, %	30

Herd structure

Economics of an Average Cow, \$/year

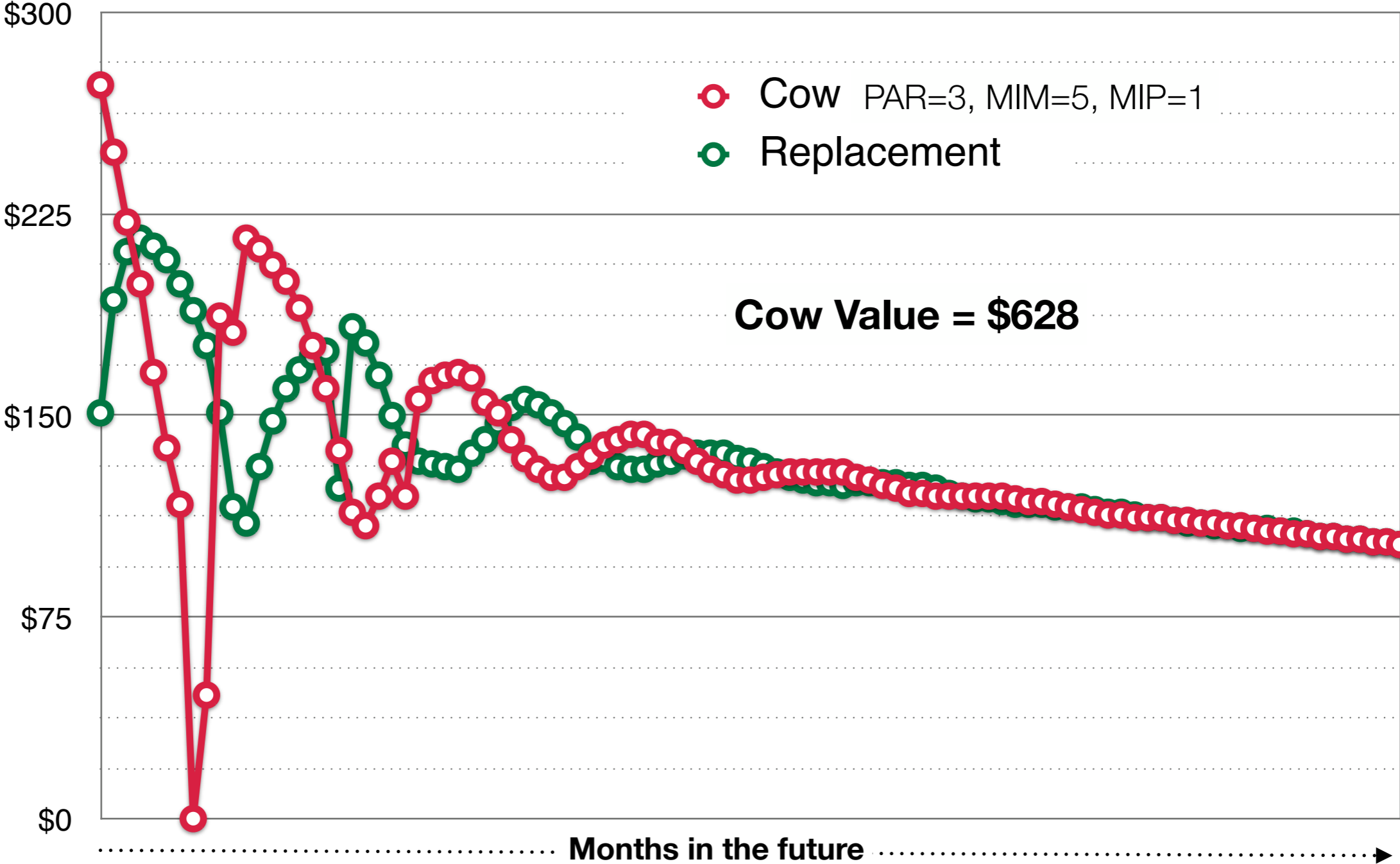
Net Return, \$

1998	
Milk Sales, \$	3834
Feed Cost, \$	-1522
Calf Sales, \$	60
Non-Reprod. Culling Cost, \$	-198
Mortality Cost, \$	-38
Reproductive Culling Cost, \$	-59
Reproductive Cost, \$	-80

Herd economics

Economic net return

Expected future net returns



Model illustration

Average cow and replacement

Open cow value

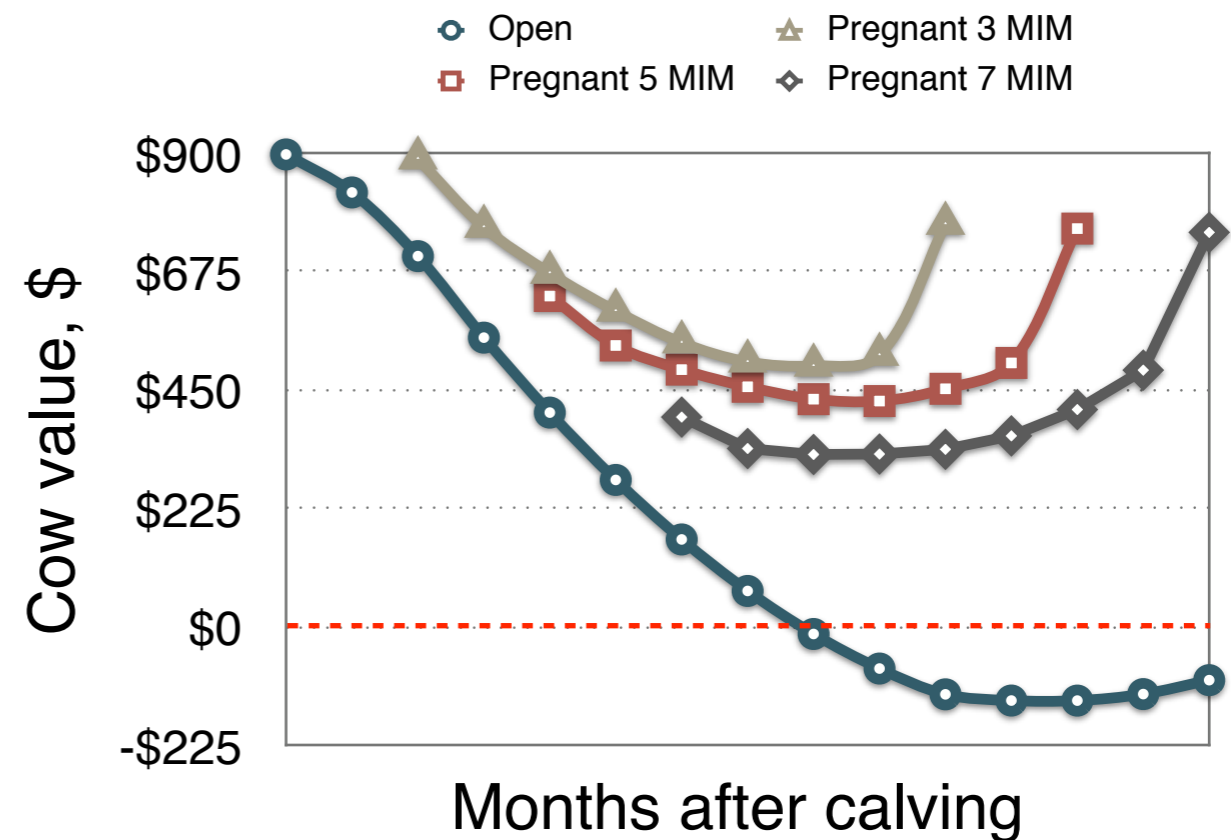
- Decreases
- Becomes negative

Pregnant cow value

- Higher than open
- U-shaped
- Similar value at calving

Overall cow value

- Increases to 3rd or 4rd lactation



LGM-Dairy

Estimate premium

Premium Estimator

Least Cost Optimizer

Compare with options

Minimize premium

If you have saved CSV data from a previous run, you can Upload File instead of typing in your farm's data again

Upload a file

Input

Insurance contract month: 2012 Oct

Choose your deductible level \$ 1.0 /cwt

Feed Values: Enter Manually Lowest Allowed Default Highest Allowed

The prices we use for the Gross Margin Calculation correspond to future and option prices retrieved on the trade dates: 2012-10-22, 2012-10-23, 2012-10-24

Coverage Month	Production (cwt)		Corn Equiv (tons)		Soybean Meal Equiv (tons)		% covered	Monthly Gross Margin		
	Month Year	Milk Qty.	Covered Milk × Expected Price = Milk Revenue	Corn Qty.	Covered Corn × Expected Price = Corn Cost	SBM Qty.		Covered SBM × Expected Price = SBM Cost	Milk Revenue - Corn Cost - SBM Cost - (Deductible × Milk Qty.)	\$/cwt of Farm Milk
<input checked="" type="checkbox"/> Dec 2012	4113	4,113 cwt × \$20.33/cwt = \$83,616	95.8	95.8 tons × \$7.57/bu = \$25,900	21.1	21.1 tons × \$476.37/ton = \$10,051	100	43,552	10.59	10.59
<input checked="" type="checkbox"/> Jan 2013	4340	4,340 cwt × \$19.58/cwt = \$84,976	101.1	101.1 tons × \$7.57/bu = \$27,333	22.3	22.3 tons × \$469.82/ton = \$10,477	100	42,826	9.87	9.87
<input checked="" type="checkbox"/> Feb 2013	4188	4,188 cwt × \$19.28/cwt = \$80,743	97.6	97.6 tons × \$7.57/bu = \$26,386	21.5	21.5 tons × \$462.29/ton = \$9,939	100	40,229	9.61	9.61
<input checked="" type="checkbox"/> Mar 2013	4240	4,240 cwt × \$19.03/cwt = \$80,685	98.8	98.8 tons × \$7.57/bu = \$26,710	21.8	21.8 tons × \$454.76/ton = \$9,914	100	39,821	9.39	9.39
<input checked="" type="checkbox"/> Apr 2013	4188	4,188 cwt × \$18.91/cwt = \$79,193	97.6	97.6 tons × \$7.54/bu = \$26,299	21.5	21.5 tons × \$443.09/ton = \$9,526	100	39,180	9.36	9.36
<input checked="" type="checkbox"/> May 2013	4023	4,023 cwt × \$18.64/cwt = \$74,986	93.7	93.7 tons × \$7.52/bu = \$25,164	20.7	20.7 tons × \$431.41/ton = \$8,930	100	36,869	9.16	9.16
<input checked="" type="checkbox"/> Jun 2013	4075	4,075 cwt × \$18.66/cwt = \$76,036	94.9	94.9 tons × \$7.48/bu = \$25,367	20.9	20.9 tons × \$427.20/ton = \$8,928	100	37,666	9.24	9.24
<input checked="" type="checkbox"/> Jul 2013	4038	4,038 cwt × \$18.58/cwt = \$75,022	94.1	94.1 tons × \$7.45/bu = \$25,036	20.8	20.8 tons × \$422.98/ton = \$8,798	100	37,151	9.20	9.20
<input checked="" type="checkbox"/> Aug 2013	4063	4,063 cwt × \$18.54/cwt = \$75,324	94.7	94.7 tons × \$7.05/bu = \$23,842	20.9	20.9 tons × \$412.25/ton = \$8,616	100	38,803	9.55	9.55
<input checked="" type="checkbox"/> Sep 2013	4149	4,149 cwt × \$18.44/cwt = \$76,503	96.7	96.7 tons × \$6.65/bu = \$22,964	21.3	21.3 tons × \$394.85/ton = \$8,410	100	40,979	9.88	9.88
Total	Farm	41,417 cwt	965 tons	213 tons	100.00%	GMG 397,075	9.59	9.59		
	Covered	41,417 cwt	965 tons	213 tons						

Save Input Calculate LGM Premium Calculate Options Cost Save GMG Calculations

LGM-Dairy quick update

- Demand exceeded funds available since 2010, first year with premium subsidies
- LGM-Dairy accounted for about \$16 out of the \$20 million of RMA-sponsored livestock programs in past 2 years
- All underwriting capacity was sold within 3-4 months after subsidies were available
- A proposal to increase to \$50 million (2.5 times) has been introduced in a House- Agriculture Committee-approved version of the 2012 Farm Bill

LGM-Dairy quick update

- There were \$14.9 million available in underwriting capacity for LGM-Dairy for the October 26/27 2012 contract

	Policies sold	Premium paid	Subsidy
IA	15	\$238,488	\$108,393
WI	176	\$3,100,459	\$1,448,776
US	474	\$10,253,401	\$4,837,550

- $\$14.9\text{M} - (\sim 20\%(\$10.2\text{M}) + \$4.8\text{M}) =$
 $\sim \$8\text{M}$ available for Nov. 30...*maybe for Dec. 28*

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Thanks