



INCOME OVER FEED COST FOR WISCONSIN DAIRY FARMS



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OVERVIEW



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- **Maximization of Income Over Feed Cost**
 - Max IOFC
- **Wisconsin Dairy Feed Cost Evaluator**
 - IOFC Database
- **Summary of Wisconsin Income Over Feed Cost**
 - IOFC for Jul-Sep Wisconsin selected farms





INTRODUCTION



- Profit margin may shrink rapidly when milk prices go down and feed prices go up
- Milk and feed prices are more volatile than ever
- More than 90% of dairy farm revenue may come from the milk check
- More than 50% of dairy farm expenses may be feed related expenses
- At a determined feed efficiency level, IOFC depends solely on milk and feed prices





INTRODUCTION



IOFC (\$/cow/day), 75 lb/cow/day, 1.5 FE

	Milk Price (\$/cwt)							
	10	12	14	16	18	20	22	24
0.08	3.50	5.00	6.50	8.00	9.50	11.00	12.50	14.00
0.1	2.50	4.00	5.50	7.00	8.50	10.00	11.50	13.00
0.12	1.50	3.00	4.50	6.00	7.50	9.00	10.50	12.00
0.14	0.50	2.00	3.50	5.00	6.50	8.00	9.50	11.00
0.16	-0.50	1.00	2.50	4.00	5.50	7.00	8.50	10.00
0.18	-1.50	0.00	1.50	3.00	4.50	6.00	7.50	9.00
0.2	-2.50	-1.00	0.50	2.00	3.50	5.00	6.50	8.00
0.22	-3.50	-2.00	-0.50	1.00	2.50	4.00	5.50	7.00
0.24	-4.50	-3.00	-1.50	0.00	1.50	3.00	4.50	6.00
0.26	-5.50	-4.00	-2.50	-1.00	0.50	2.00	3.50	5.00

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INTRODUCTION



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- It is important that correct decisions are made to maximize milk revenue on feed expenses at a given feed efficiency level



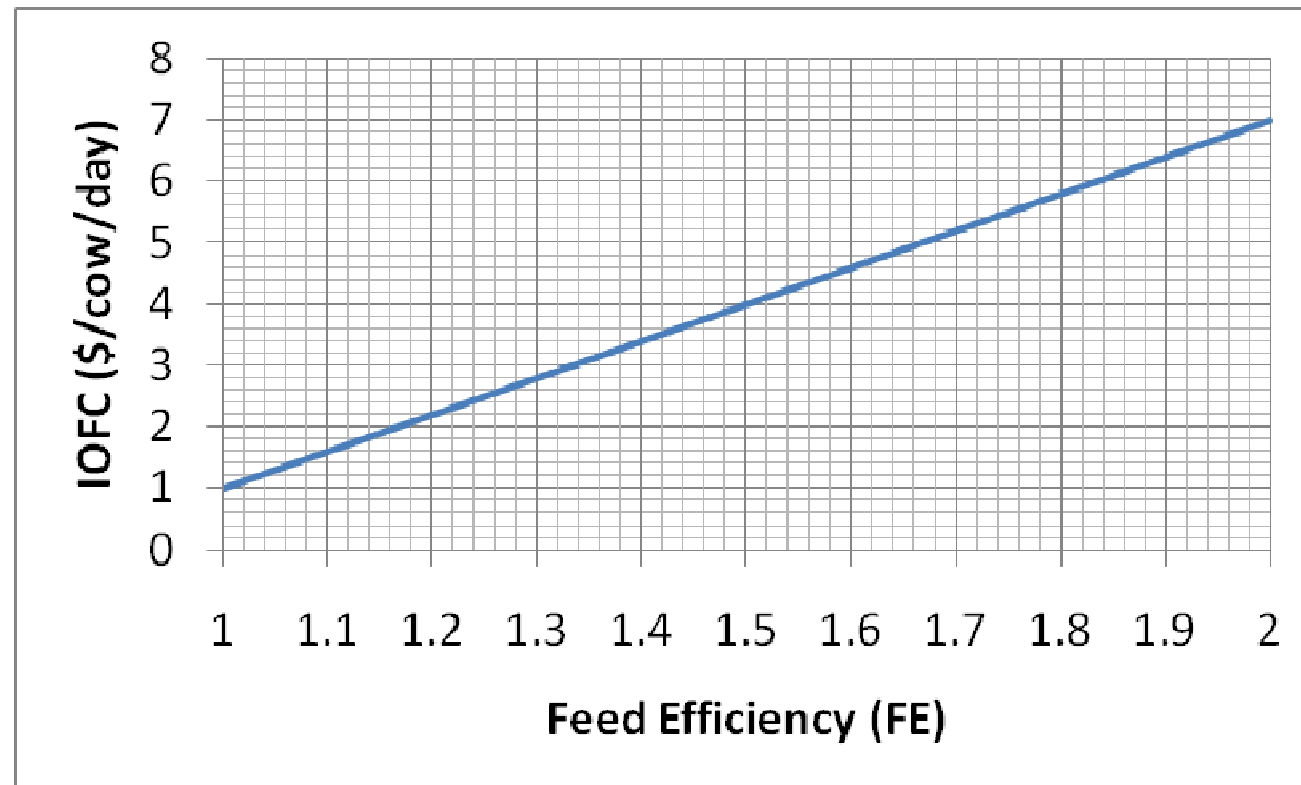


INTRODUCTION



IOFC (\$/cow/day)

Milk=\$12/cwt, Feed Cost= \$0.1/lb DM



INTRODUCTION

- It is important that correct decisions are made to maximize feed efficiency level and return on feed expenses





FRAMEWORK



- Traditional diet formulations are based on finding the least cost ration that provides the minimum level of required level nutrients for a desired level of production:
 - 1) Target production (e.g., Milk = 75 lb)
 - 2) Nutrient requirements (e.g., CP = 17%)
 - 3) Available feed ingredients (e.g., SBM)
 - 4) Feed costs (e.g., SBM = \$350/ton)



FRAMEWORK



- **Traditional diet formulations do not maximize IOFC**
- **Milk production (milk/cow/day) would change according to changes in CP, RUP, RDP. Maybe:**
 - **16.5% CP would achieve 75 lb milk/cow/day, or**
 - **17% CP would achieve 80 lb milk/cow/day, or**
 - **Would be better to produce only 70 lb milk/cow/day depending on milk price and feed ingredient prices**
- **Same concept could be applied to other diet nutrients (e.g., amino acids)**



FRAMEWORK



- Evidence indicates that IOFC can be maximized by fine-tuning CP and adjusting the levels of RUP and RDP
- Selection of ingredients would vary according to milk price and feed ingredients
- A maximum IOFC is found when the optimal level of CP that also implies less amount of N excreted
- There are some application that calculate IOFC for defined diets (e.g., IFSM), but: 1) do not perform optimization and 2) serve mostly the scientific community



The IOFSC Application



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- **User-friendly spreadsheet or Web-based system that maximizes IOFC to defined:**
 - **Feed ingredients and prices**
 - **Maximum RUP and RDP levels**
 - **Expected milk production and milk price**



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Spreadsheet:

<http://dairymgt.uwex.edu/tools.php>

Income Over Feed Supplement Cost (IOFSC)

Overwrite **yellow** cells and make appropriate selection
 Click on **blue** button to optimize IOFSC: results appear in
 V.E. Cabrera, R.D. Shaver, and M.A. Wattiaux **blue** cells. Click on **red** button to substitute between feed supplements; results appear in **figures and table**.

Units
Metric
English

1 Calculate Dry Matter Intake (DMI)

1.1	Milk Production (MP)	lb/cow/day	80	
1.2	Body Weight (BW)	lb/cow	1400	
1.3	Days in Milk (DIM)	day	180	103
1.4	Dry Matter Intake (DMI)	lb/cow/day		56.06

2 Set the Sources and Proportion of Forage in the Diet

2.1	Proportion of Forage in Diet	% of Diet	50%	
2.2	35-Corn Silage-CoSi	% of Forage	50%	
2.3	83-Alf. Silage-AISI	% of Forage	50%	
2.4	Own Forage	% of Forage	0%	
2.5	Crude Protein in Diet Provided by Forage	lb/cow/day		4.30

3 Set Source of Energy Supplements and Prices

		Price (\$/bu)	Current Diet (lb)	Upper Limit (lb)	Optimal (lb)
3.1	27-Corn-CGG	4	10	15	14.51
3.2	8-Barley-BGR			0	0.00
3.3	116-Wheat-WGR	7.4	1.5	10	0.00

4 Set the Source of Protein, Byproduct Supplements and Prices

		Price (\$/ton)	Current Diet (lb)	Upper Limit (lb)	Optimal (lb)
4.1	106-Soybean Meal-SBM	300.00	5	15	1.14
4.2	25-Corn Gluten Meal-CGM	550.00		2	2.00
4.3	24-Corn Gluten Feed-CGF	160.00	5	10	10.00
4.4	23-Corn Distiller Grains-CDG	300.00	5	10	0.00
4.5	109-Soybean Whole Roasted- HSB	318.00		7	0.00
4.6	104-Soybean Meal Expellers-SBMx	402.00		15	0.37
4.7	14-Blood Meal Ring Dried-BMRD	900.00		1	0.00
4.8	Urea	635.00		1	0.00

5 Set the Upper Limits for RUP and RDP, and Milk Price

			Upper Limit	Amount in Diet
5.1	RUP	Rumen Undegradable Protein	% of Diet DM 6.50%	6.50%
5.2	RDP	Rumen Degradable Protein	% of Diet DM 11.50%	11.49%
5.3	CP	Crude Protein	% of Diet DM 18.00%	18.00%
5.4	Milk Price	\$/cwt	10	

6 Perform Optimization, Maximize IOFSC

Click the button to maximize the Income Over Feed Supplement Cost (IOFSC) **Maximize IOFSC**

			Current	Optimal
6.2	Expected Milk Production (E-MP)	lb/cow/day	83.41	86.24
6.3	Maximum Income Over Feed Supplement Cost (IOFSC)	\$/cow/day	5.54	5.99

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The IOFSC Application



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Web Application:

<http://dairymgt.info/web/>

Income over Feed Supplement Cost
Dr. Victor E. Cabrera

UW Extension THE UNIVERSITY OF WISCONSIN MADISON

English Metric Documentation Instructions



I Calculate Dry Matter Intake

1. Milk Production	110	lb/cow/day
2. Body Weight	1300	lb/cow
3. Days in Milk	180	day
4. Dry Matter Intake	67.53	lb/cow/day

II Set the Sources and Proportion of Forage in the Diet

Proportion of Forage in diet: 50 %

35-Corn Silage-CuSi 100 % of Forage

Crude Protein in Diet Provided by Forage: 297 lb/cow/day

III Set Source of Energy Supplements and Prices

Source	Price (\$/bu)	Upper Limit (lb)	
35-Corn Silage-CuSi	4	15	<input type="button" value="Edit Row"/>





The IOFSC Application



I

Calculate Dry Matter Intake

1. Milk Production	75	lb/cow/day
2. Body Weight	1400	lb/cow
3. Days in Milk	150	day
4. Dry Matter Intake	54.67	lb/cow/day  

- **A cow (or cow group) in mid lactation (150 DIM):**
 - Is expected to produce around 75 lb/day
 - Weight around 1400 lb
 - Requires around 55 lb of DMI
- **However, the nutritionist thinks that the DMI for that cow (or cow group) should be around 50 lb/day**



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II

Set the Sources and Proportion of Forage in the Diet

Proportion of Forage in diet			
35-Corn Silage-CoSi	50	%	
83.Alf Silage -Alsi	50	% of Forage	Edit Row
74-Mx. Silage-MxSi	0	% of Forage	Edit Row
Crude Protien in Diet Provided by Forage	3.86	lb/cow/day	

Add Row

- The cow (or cow group) consumes about 50% of DM from on-farm produced forages:
 - 25% corn silage and
 - 25% alfalfa silage

Forage Source 35-Corn Silage-CoSi

RUP (%)	RDP (%)	A (%)	B (%)	C (%)	KD
3.08	5.7	51	30.2	18.5	4.4

Set

Forage Source 83.Alf Silage -Alsi

RUP (%)	RDP (%)	A (%)	B (%)	C (%)	KD
3.95	17.95	57.3	35.3	7.4	12.2

Set



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III

Set Source of Energy Supplements and Prices

Source	Price (\$/bu)	Upper Limit (lb)	
Corn Grain	4	15	Edit Row
Add Row			

RUP (%)	RDP (%)	A (%)	B (%)	C (%)	KD
4.31	5.09	23.9	72.5	3.6	4.9
Set					

- Corn grain is the major source of energy and contains:
 - 4.31% RUP
 - 5.09% RDP
 - 9.40% CP



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IV

Set the Source of Protein, Byproduct Supplements and Prices

Product	Price (\$/ton)	Upper Limit (lb)	
106-Soybean Meal-SBM	300	15	Edit Row
25-Corn Gluten Meal-CGM	550	15	Edit Row
23-Corn Distiller Grains-CDG	200	15	Edit Row
<input type="button" value="Add Row"/>			

RUP (%)	RDP (%)	A (%)	B (%)	C (%)	KD
16.5	33.4	22.5	76.8	0.7	9.4
47.6	17.4	3.9	90.9	5.2	2.3
14.76	14.94	28.5	63.3	8.2	3.6

- **Three major sources of protein:**
 - **Nutritionist believes that 15 lb on each one is the maximum limit in a diet (cow/day)**



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V

Set the Upper Limits for RUP and RDP, and Milk Price

	Upper Limit	
RUP Rumen Undegradable Protein	6.5	% of Diet DM
RDP Rumen Degradable Protein	11.5	% of Diet DM
CP Crude Protein	18	% of Diet DM

Milk Price \$/cwt



Maximize IOFSC

- Nutritionist believes maximum levels of CP, RUP, and RDP in diet:
 - CP = 18%, RUP = 6.5%, RDP = 11.5%
- Milk price = \$12/cwt



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Optimization Results

Grains

Corn Grain	12.98 lb
------------	----------

Proteins

106-Soybean Meal-SBM	1.8 lb
25-Corn Gluten Meal-CGM	0.0 lb
23-Corn Distiller Grains-CDG	10.37 lb

RUP, RDP & CP

	Optimal
Rumen Undegradable Protein	6.5 %
Rumen Degradable Protein	11.5 %
Crude Protein	18.0 %

Expected Milk Production & IOFSC

	Optimal
Expected Milk Production	80.3 lb/cow/day
Max IOFSC	7.4 \$/cow/day



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Corn Distiller @ \$300/ton

Optimization Results

Grains

Corn Grain	15.0 lb
------------	---------

Proteins

106-Soybean Meal-SBM	2.79 lb
25-Corn Gluten Meal-CGM	0.59 lb
23-Corn Distiller Grains-CDG	6.77 lb

RUP, RDP & CP

	Optimal
Rumen Undegradable Protein	6.5 %
Rumen Degradable Protein	11.5 %
Crude Protein	18.0 %

Expected Milk Production & IOFSC

	Optimal
Expected Milk Production	80.3 lb/cow/day
Max IOFSC	6.97 \$/cow/day

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Corn Grain @ \$6/bu

Optimization Results

Grains

Corn Grain	12.98 lb
------------	----------

Proteins

106-Soybean Meal-SBM	1.8 lb
25-Corn Gluten Meal-CGM	0.0 lb
23-Corn Distiller Grains-CDG	10.37 lb

RUP, RDP & CP

	Optimal
Rumen Undegradable Protein	6.5 %
Rumen Degradable Protein	11.5 %
Crude Protein	18.0 %

Expected Mi

	Optimal
Expected Milk Production	80.3 lb/cow/day
Max IOFSC	6.94 \$/cow/day



Wisconsin Dairy Feed Evaluator



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- Goal in each farm:

SUMMARY

DMI (lb/cow/day)

MILK/DMI

FCM/DMI

ECM/DMI

PURCHASED FEED COST (\$/cow/day)

HOME GROWN FEED COST (\$/cow/day)

TOTAL FEED COSTS (\$/cow/d)

INCOME OVER PURCHASED FEED COSTS (IOPFC) (\$/cow/day)

INCOME OVER FEED COSTS (IOFC) (\$/cow/day)

	MILKING	DRY
DMI (lb/cow/day)	53.10	23.79
MILK/DMI	1.635	
FCM/DMI	1.515	
ECM/DMI	1.671	
PURCHASED FEED COST (\$/cow/day)	3.300	1.189
HOME GROWN FEED COST (\$/cow/day)	2.724	0.960
TOTAL FEED COSTS (\$/cow/d)	6.023	2.149
INCOME OVER PURCHASED FEED COSTS (IOPFC) (\$/cow/day)	6.049	
INCOME OVER FEED COSTS (IOFC) (\$/cow/day)	3.325	



Wisconsin Dairy Feed Evaluator



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- **General, Production, and Income Information**
 - **Farm and reporter identification**
 - **Milk and components**
 - **Price received for milk**

1	FARM INFORMATION				
1.1	Farm Name				
1.2	Person Reporting				
1.3	Month of Analysis				
1.4	Number of Cows	1051	MILKING	242	DRY
1.5	Milk Bulk Tank Production (lb/cow/day)	86.8			
1.6	Milk Butterfat (%)	3.51%			
1.7	Milk Protein (%)	3.50%			
1.8	Milk Price (\$/cwt)	10.77	<input checked="" type="radio"/> Farm/Mailbox <input type="radio"/> Standardized		
	MILK REVENUE (\$/cow/day)				9.35



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- **Ingredients Information**
 - **DM**
 - **Price**

			Price As Fed	Price DM
FORAGE		% DM	\$/ton	\$/ton
1	Corn Silage-CoSi	33.00%	\$ 42.00	\$ 127.27
2	Alf. Silage-ALSi	38.00%	\$ 66.00	\$ 173.68
		⋮	⋮	⋮
ENERGY/PROTEIN SUPPLEMENTS		% DM	\$/ton	\$/ton
1	Corn-CGG	69.00%	\$ 127.00	\$ 127.00
2	Barley-BGR	60.00%	\$ -	\$ -
		⋮	⋮	⋮
Min-Vit SUPPLEMENT & BYPRODUCT		% DM	\$/cwt	
1	BioSel	100.00%	\$ 107.70	
2	Reshure	100.00%	\$ 247.80	



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- Ration Information
 - Ration group
 - Number of animals
 - Milking status

2 RATION GROUP INFORMATION		Name	Number	Milking?
2.1	Ration Group 1	Lactation 1	400	<input checked="" type="checkbox"/>
2.2	Ration Group 2	Lactation 2	583	<input checked="" type="checkbox"/>
2.3	Ration Group 3	Postfresh	68	<input checked="" type="checkbox"/>



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- Forage in Diet
 - DM or As Fed
 - Homegrown or purchased
 - Amount of forage used by ration group

DM (changing will reset the table)

3 FORAGE		DM (lb/cow/d) Ration Group									
↓-----Make Selections-----↓		P	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9
3.0	Alf. Silage-ALSi	<input type="checkbox"/>	14.80	16.37	10.45	4.67	-				
3.1	Corn Silage-CoSi	<input type="checkbox"/>	11.65	13.33	6.60	7.10	-				
3.2	Hay Forage-	<input type="checkbox"/>	1.70	1.70	2.98	-	-				
3.3	Straw	<input type="checkbox"/>	0.52	0.46	0.69	-	-				
3.4	Candy Hay	<input type="checkbox"/>	-	-	2.61	-	-				
3.5	Hoekstra hay	<input type="checkbox"/>	-	-	-	5.10	-				
3.6	Canary hay	<input type="checkbox"/>	-	-	-	3.78	-				
3.7	Sweet Corn Waste	<input checked="" type="checkbox"/>	-	-	-	-	9.50				
3.8	Bagged Haylage	<input type="checkbox"/>	-	-	-	-	5.87				
3.9	Canary hay	<input checked="" type="checkbox"/>	-	-	-	-	6.30				



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- Energy/Protein in diet
 - DM or As Fed
 - Homegrown or purchased
 - Amount of energy/protein used by ration group

As Fed (changing will reset the table)

4 ENERGY/PROTEIN SUPPLEMENTS			DM (lb/cow/d) Ration Group									
↓-----Make Selections-----↓			P	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9
4.0	Corn-CGG	<input type="checkbox"/>		6.14	7.46	7.20						
4.1	Barley-BGR	<input type="checkbox"/>										
4.2	Corn-CGG	<input type="checkbox"/>										
4.3	High Cows	<input checked="" type="checkbox"/>		15.49	15.85	9.75						
4.4	Permeate	<input checked="" type="checkbox"/>		9.00	9.00							
4.5	Distillers	<input checked="" type="checkbox"/>		6.75	6.75	5.20						
4.6	Prefresh	<input checked="" type="checkbox"/>					4.50					
4.7	Beet pulp	<input checked="" type="checkbox"/>				1.00	1.00					
4.8	Corn-CGG	<input type="checkbox"/>										
4.9	Barley-BGR	<input type="checkbox"/>										

15:34



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- Minerals and Vitamins in Diet
 - Amount of Min-Vit used by ration group

6 MIN-VIT & ADDITIVE SUPPLEMENTS		DM (lb/cow/d) Ration Group								
↓-----Make Selections-----↓		2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9
6.0	BioSel			0.08						
6.1	Reshure			0.10						
6.2	Dry Cow Mineral					0.24				
6.3	Mag-Pot-Sulfate									
6.4	Mag-Pot-Sulfate									
6.5	Mag-Pot-Sulfate									
6.6	Mag-Pot-Sulfate									
6.7	Mag-Pot-Sulfate									
6.8	Mag-Pot-Sulfate									
6.9	Mag-Pot-Sulfate									



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- **Summary by Ration Group**

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	2.1 Lactation 1 Lact				2.4 Prefresh Dry			
	Purchased		Home grown		Purchased		Home grown	
	DMI	Cost	DMI	Cost	DMI	Cost	DMI	Cost
FORAGE	0.00	\$ -	28.67	\$ 2.19	0.00	\$ -	20.65	\$ 1.49
ENERGY/PROTEIN SUPPLEMENTS	18.48	\$ 3.30	4.24	\$ 0.39	5.00	\$ 1.43	0.00	\$ -
MIN-VIT & ADDITIVE SUPPLEMENTS	0.00	\$ -			0.00	\$ -		
TOTAL FEED	18.48	\$ 3.30	32.91	\$ 2.58	5.00	\$ 1.43	20.65	\$ 1.49
DMI (lb/cow/d)	51.38				25.64			
FEED COSTS (\$/cow/d)	\$ 5.88				\$ 2.91			
NUMBER OF COWS (#)	400				122			



Wisconsin Dairy Feed Evaluator



- Overall Farm Summary



Farm Prices

Milk \$10.8→\$15

Milk \$10.8 →15
 CornSi \$48 →50
 Hay \$140 →150
 CornGr \$127→150

SUMMARY

DMI (lb/cow/day)
 MILK/DMI
 FCM/DMI
 ECM/DMI
 PURCHASED FEED COST (\$/cow/day)
 HOME GROWN FEED COST (\$/cow/day)
 TOTAL FEED COSTS (\$/cow/d)
 IOPFC (\$/cow/day)
 IOFC (\$/cow/day)

	MILKING	DRY	MILKING	DRY	MILKING	DRY
	53.10	23.79	53.10	23.79	53.10	23.79
	1.635		1.635		1.635	
	1.515		1.515		1.515	
	1.671		1.671		1.671	
	3.300	1.189	3.300	1.189	3.300	1.189
	2.724	0.960	2.724	0.960	2.954	1.001
	6.023	2.149	6.023	2.149	6.253	2.190
	6.049		9.720		9.720	
	3.325		6.997		6.767	

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Wisconsin Dairy Feed Evaluator



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• Web Based System

fam4 ▾

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Farm Information

Farm Name fam4

Person Reporting

Farm Owner/UserName pcheck10

Month of Analysis 2010-01-29

Number of Cows 100 *Milking*

100 *Dry*

Milk Bulk Tank Production(lb/cow/day) 0

Milk ButterFat(%) 0

Milk Protein(%) 0

Milk Price(\$/cw) 0

Milk Revenue (\$/cow/day) 0

Standardized Farm/Mailbox

	Ration 1				Ration 2				Ration 3			
	Purchased		Home-Grown		Purchased		Home-Grown		Purchased		Home-Grown	
	DMI	Cost	DMI	Cost	DMI	Cost	DMI	Cost	DMI	Cost	DMI	Cost
FORAGE	0	0	10	0.68	0	0	179	12.09	0	0	104	7.16
ENERGY/PROTEIN SUPPLEMENTS	0	0	10	0.99	0	0	110	10.12	0	0	33	3.04
MIN-VIT & ADDITIVE SUPPLEMENTS	2	1.08	-	-	0	0	-	-	0	0	-	-
TOTAL FEED	2	1.08	20	1.66	0	0	289	22.22	0	0	137	10.2
DMI (lb/cow/d)	22				289				137			
FEED COSTS (\$/cow/d)	2.74				22.22				10.2			
NUMBER OF COWS (#)	100				0				100			

	Ration 4				Ration 5				Ration 6			
	Purchased		Home-Grown		Purchased		Home-Grown		Purchased		Home-Grown	
	DMI	Cost	DMI	Cost	DMI	Cost	DMI	Cost	DMI	Cost	DMI	Cost
FORAGE	0	0	0	0	0	0	0	0	0	0	0	0
ENERGY/PROTEIN SUPPLEMENTS	0	0	0	0	0	0	0	0	0	0	0	0
MIN-VIT & ADDITIVE SUPPLEMENTS	0	0	-	-	0	0	-	-	0	0	-	-
TOTAL FEED	0	0	0	0	0	0	0	0	0	0	0	0
DMI (lb/cow/d)	0				0				0			
FEED COSTS (\$/cow/d)	0				0				0			

Wisconsin Dairy Feed Evaluator

- **Other Summaries and Benchmarks**

- **Reporter summary**
- **County summary**
- **Region summary**
- **State summary**

- **Historical summary**





Summary of Wisconsin IOFC



- Jul-Sep Wisconsin Milk Revenue (n=16)

	Milking (#)	Dry (#)	Milk (lb/cow/d)	Butterfat (%)	Milk Price (\$/cwt)	Milk Revenue (\$/cow/d)
Min	37	0	62	3.50%	10.77	7.44
25%Tile	122	55	77	3.50%	11.38	9.15
Mean	487	108	83	3.60%	12.04	9.94
75%Tile	727	158	90	3.60%	12.04	10.46
Max	1286	247	100	3.90%	15.14	13.52



Summary of Wisconsin IOFC



- Jul-Sep Wisconsin Dry Cow Feed Cost (n=16)**

		DRY			
		8.6.2	8.9.2	8.10.2	8.11.2
			Purchased	Home Grown	Total
		DMI	Feed Cost	Feed Cost	Feed Costs
		(lb/cow/day)	(\$/cow/day)	(\$/cow/day)	(\$/cow/d)
	Min	22.55	0.23	0.74	1.89
	25%Tile	25.86	0.55	0.90	2.05
	Mean	28.67	1.13	1.28	2.42
	75%Tile	30.65	1.38	1.60	2.60
	Max	38.25	2.93	1.81	3.67



Summary of Wisconsin IOFC



• July-Sep Wisconsin IOFC (n=16)

	MILK							
	8.6.1	8.7.1	8.8.1	8.9.1	8.10.1	8.11.1	8.12.1	8.13.1
				Purchased	Home Grown	Total	Income Over	Income Over
	DMI			Feed Cost	Feed Cost	Feed Cost	Purchased Feed Cost	Feed Cost
	(lb/cow/day)	MILK/DMI	FCM/DMI	(\$/cow/day)	(\$/cow/day)	(\$/cow/d)	DPFC) (\$/cow/day)	(IOFC) (\$/cow/day)
Min	46.82	1.23	1.14	0.00	1.26	3.89	3.36	2.10
25%Tile	51.14	1.42	1.30	1.80	1.76	4.61	5.98	3.49
Mean	53.86	1.54	1.42	2.60	2.58	5.29	7.22	4.66
75%Tile	56.82	1.68	1.56	3.53	3.05	6.02	8.40	5.33
Max	62.96	1.91	1.75	4.44	4.93	6.58	10.90	8.91

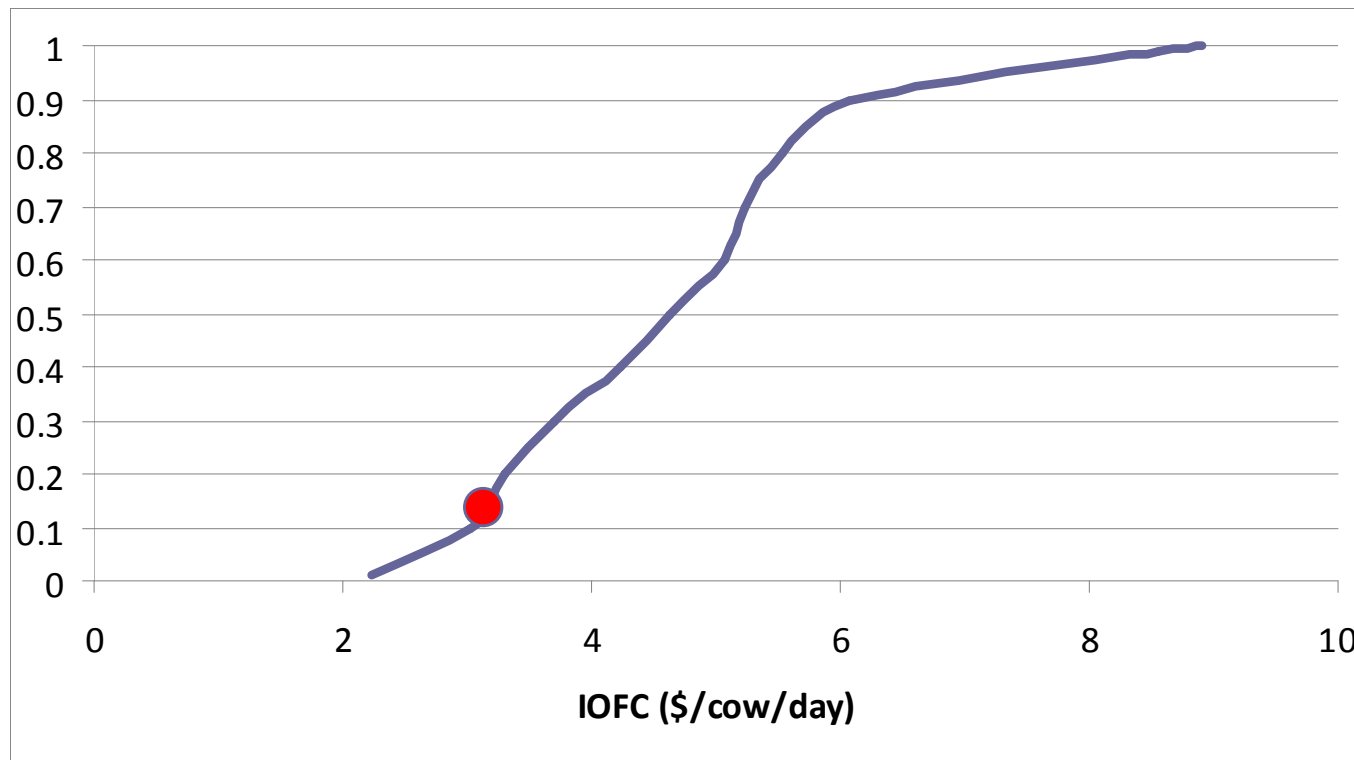
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Benchmark of Wisconsin IOFC



- Farm #5: \$3.13, 13.3%

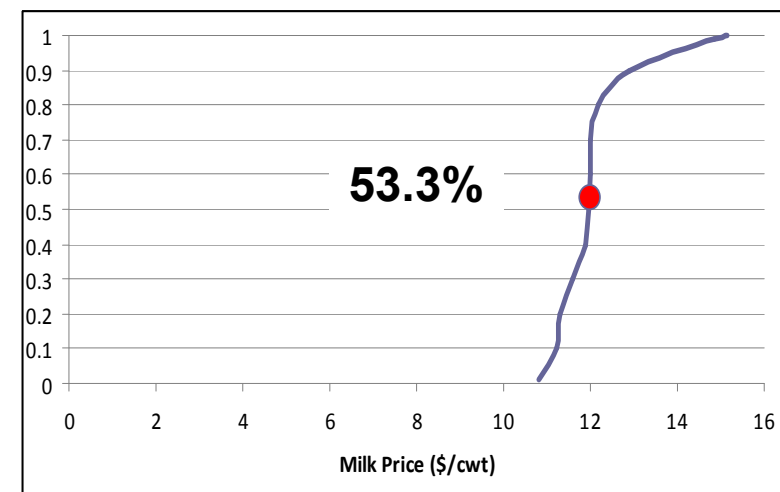
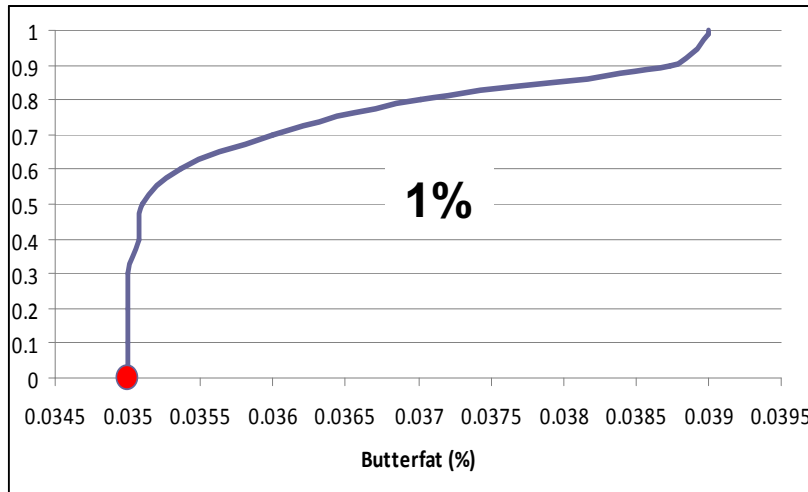
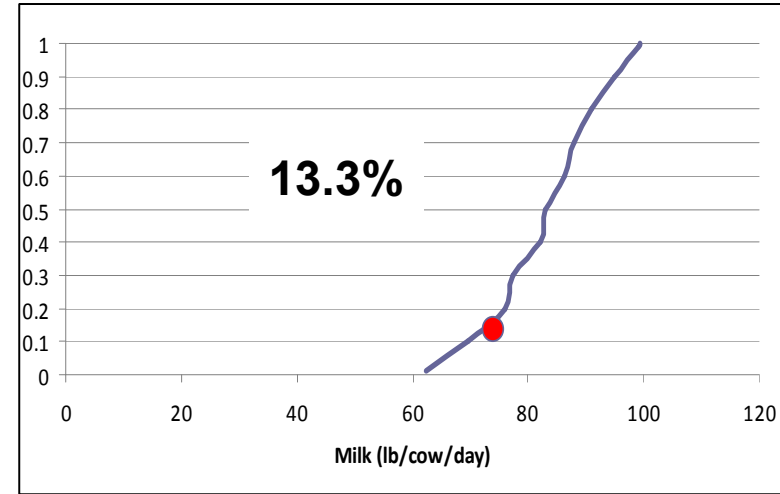
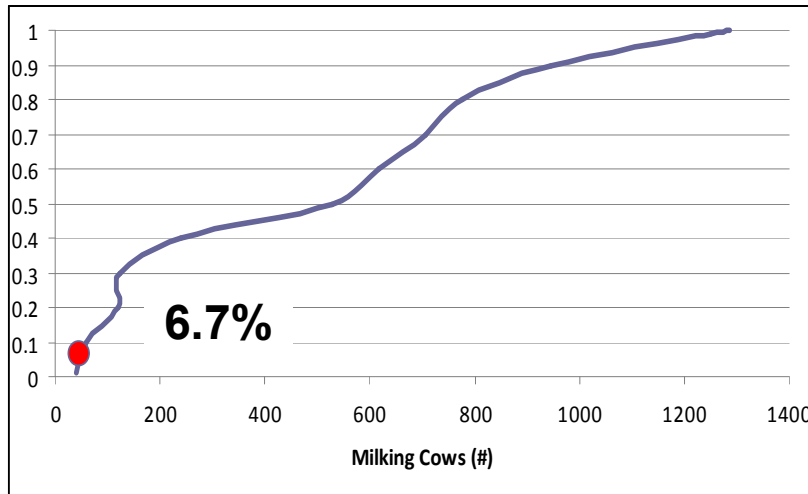




Benchmark of Wisconsin IOFC



- Farm #5: \$3.13, 13.3%

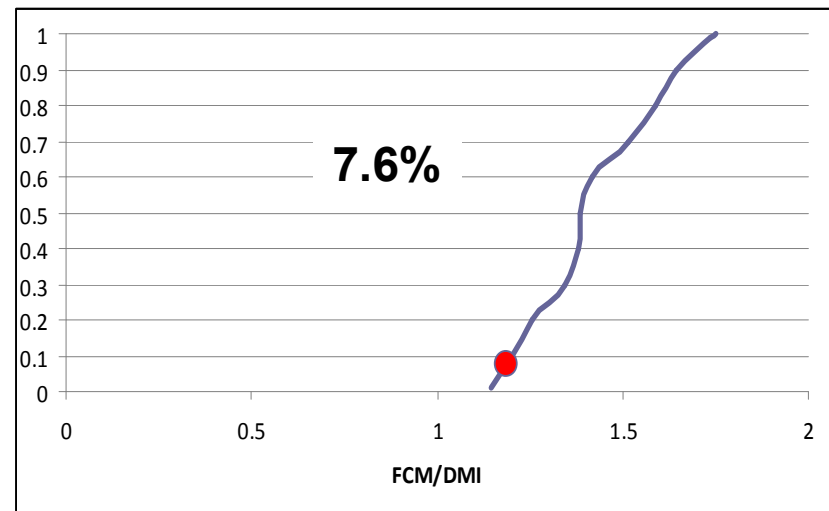
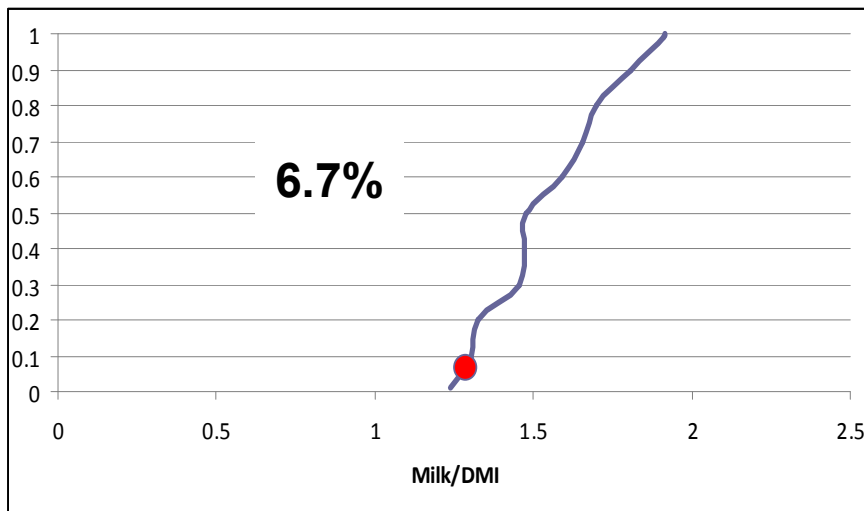
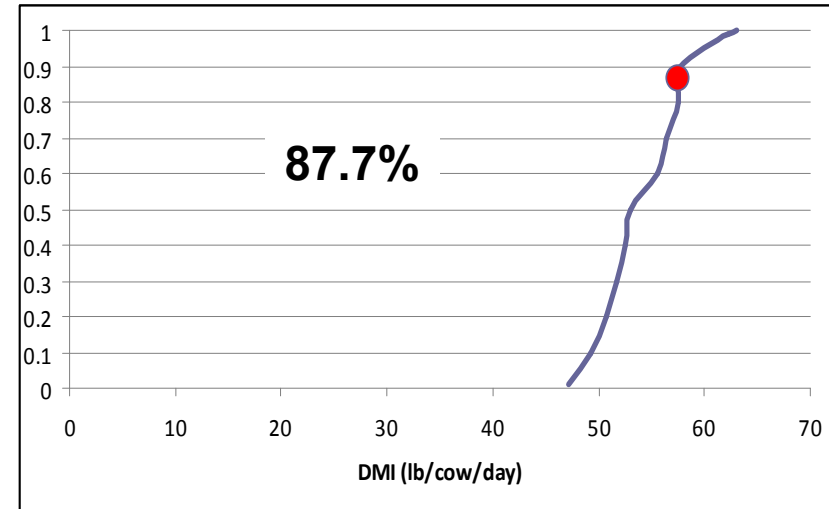
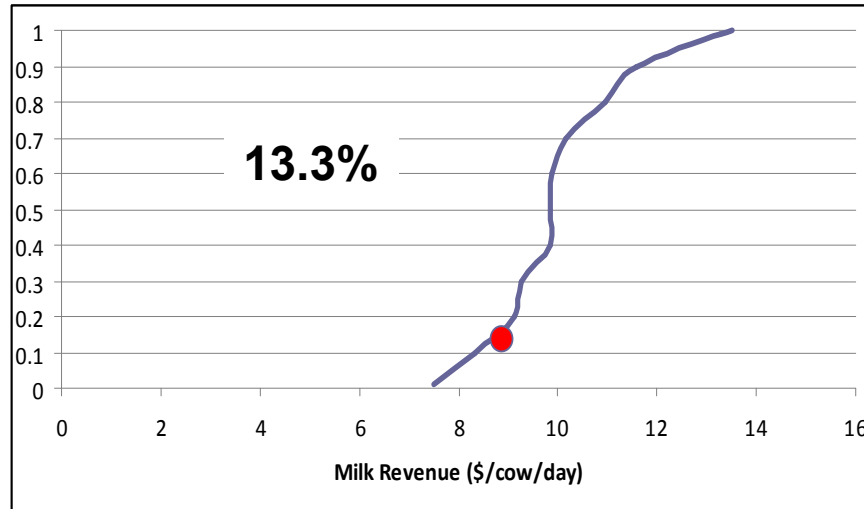




Benchmark of Wisconsin IOFC



- Farm #5: \$3.13, 13.3%

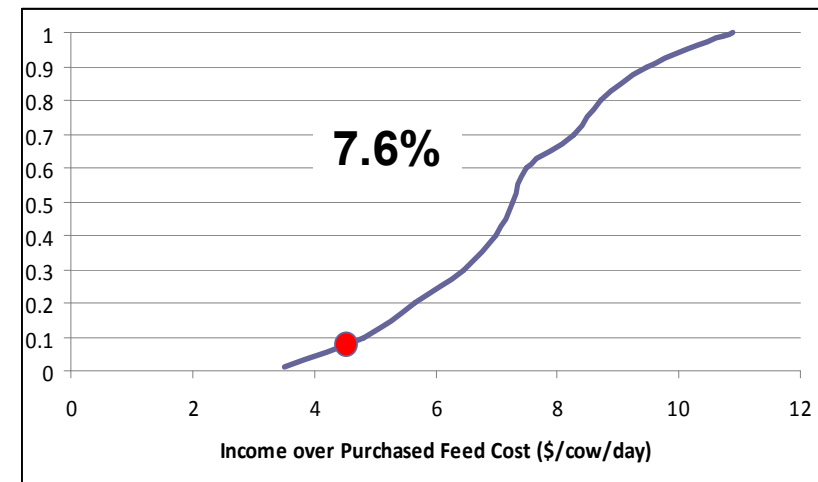
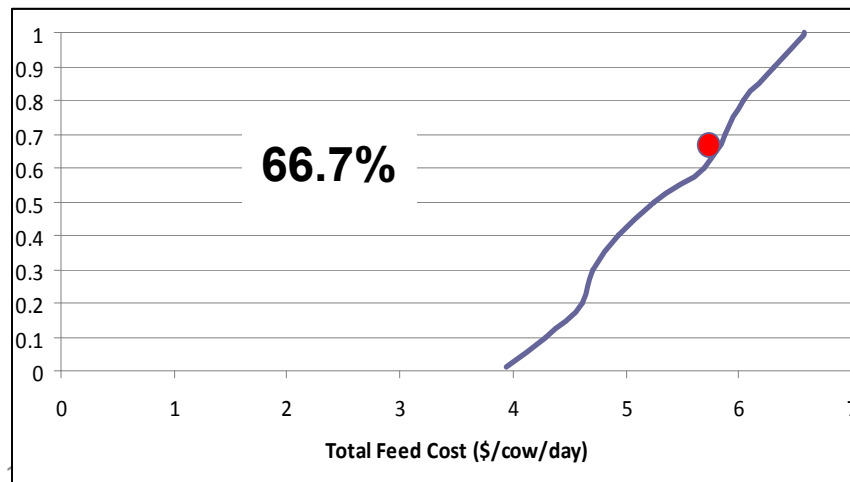
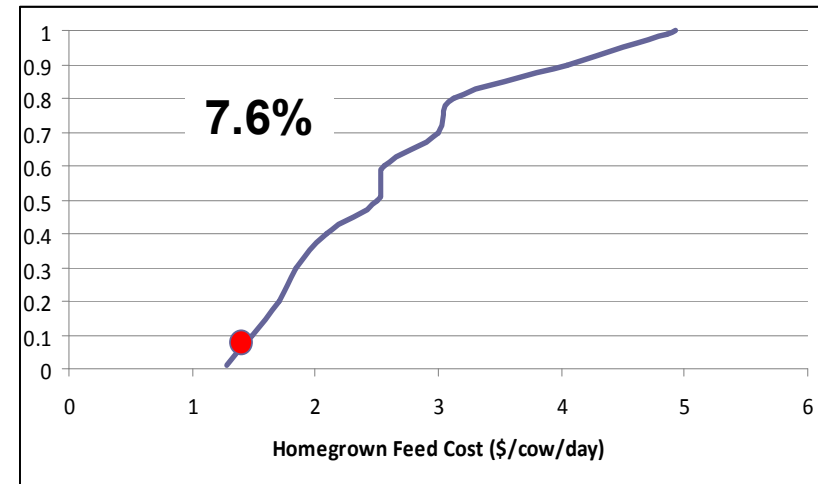
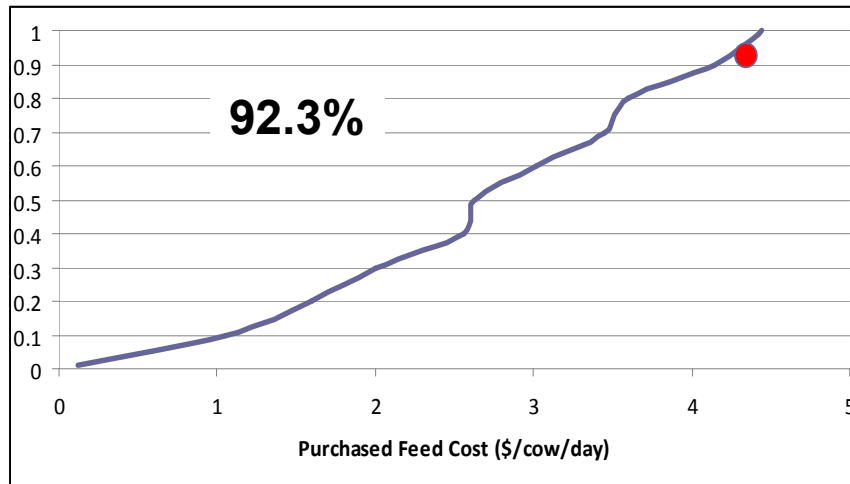




Benchmark of Wisconsin IOFC



- Farm #5: \$3.13, 13.3%





THANKS



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Dairy Management

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.

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