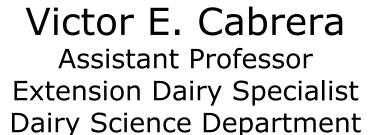
### LGM-Dairy: Livestock Gross Margin for Dairy







Brian W. Gould
Associate Professor
Ag and Applied Economics

12th Annual Arlington Dairy Day Wednesday, December 10, 2008

### LGM-Dairy: What is it?

- New Livestock Gross Margin for Dairy Insurance
  - Federally reinsured dairy insurance program
  - Purchased from crop insurance providers
  - Approved July 2007, available August 2008
- Protects Dairy Business against
   Unexpected declines in Gross Margins
  - Gross Margin = Milk Revenue Feed Costs
- Revenue neutral (No subsidies)
  - o Premium = Expected Indemnity







### LGM-Dairy: What impacts the premium?

- Insured milk and insured feed (selected)
- Deductible level (selected)
- Average futures prices and their volatility (market determined)



















# LGM-Dairy: Who is eligible?

### Milk producers of 32 states









### LGM-Dairy: What it covers?

### Prices of:

- Any milk volume of producer's target marketing for a 10-month period (up to 240,000 cwt)
- Amount of corn and soybean meal equivalents to be fed during insurance period restricted to be in range:
  - o 0.00364 0.02912 tons corn/cwt milk
    - 0.13 − 1.04 bu corn/cwt milk
  - 0.000805 0.006425 tons SBM/cwt milk
    - 1.61 12.85 lb SBM/cwt milk

### LGM-Dairy: What it does not cover/protect?

- Production losses
- Risk of dairy cattle death
- Unexpected decrease in milk production or increase in feed use
- Multiple years of declines in milk prices or increases in feed costs
- Anticipated declines in milk prices or increases in feed costs







### LGM-Dairy: What farmer needs to decide?

### Three main things to consider:

- Percentage (%) of target marketings to be insured (0% to 100%)
- Level of Gross Margin Deductible or risk assumed
  - \$0 to \$1.50/cwt in \$0.1 increments
- Months to insure







### LGM-Dairy: What farmer needs to provide?

### Estimates of:

- Target milk marketing per insured month
- Expected feed per insured month
  - Corn and corn equivalents
  - Soybean meal and soybean meal equivalents
  - Feed Conversion software downloadable from our website
- Verifiable records should be available



### LGM-Dairy: What is the insurance Period?

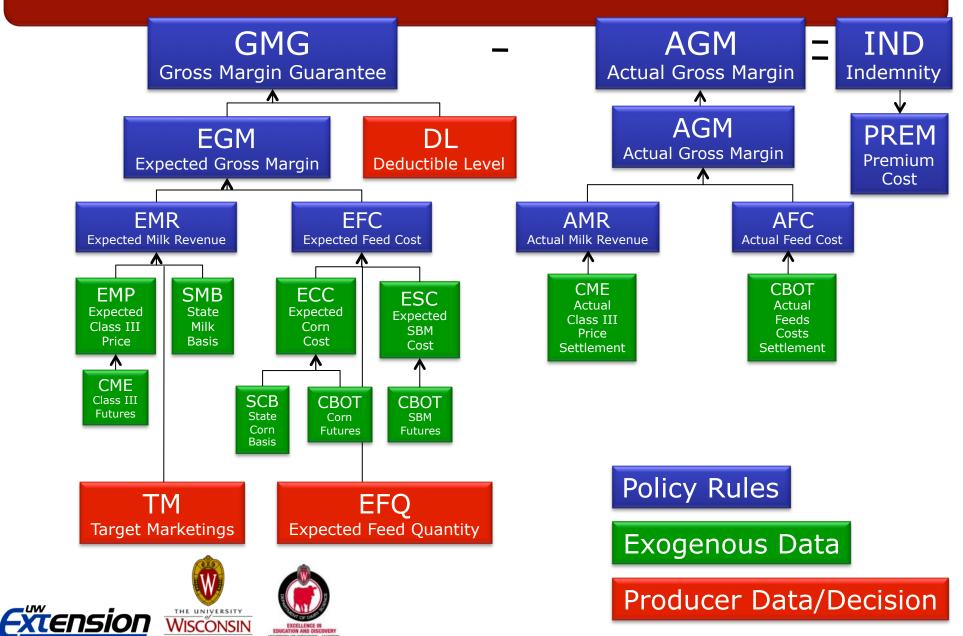
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		1	2	3	4	5	6	7	8	9	10
LGM- Dairy	No Coverage	Insurance Coverage									
Sele Cove Mor		100%	0%	50%	50%	0%	0%	75%	100%	0%	50%



→ From 4 pm on 3<sup>rd</sup> to last business day to to 9 am following day (17-hour period)



### LGM-Dairy: How it works?



### LGM-Dairy: What is the premium?

Premium is the average of expected indemnities in the long-run:

- Proportional to the insured milk and insured feed
- Increases with price volatility
- Decreases with elected deductible (\$0 to \$1.5/cwt in \$0.1 increments
- Decreases when all months insured together



Estimates available in RMA website





### LGM-Dairy: Overview

### Advantages:

- Unique bundled insurance protects the margin: milk price less feed cost
- Very flexible and customizable
- Offered every month of the year

### Drawbacks:

- Very short enrollment period
- Total premium due at sign-up
- No farmer subsidies available
- Limited capacity







### LGM-Dairy: More Information

Cooperative Extension









Home Pub/Software Dairy Data Dairy Situation Graphs Links FAPRI Alli

### Livestock Gross Margin Insurance for Dairy

This section of our website provides information concerning the L made available by the Risk Managment Agency of USDA. The sit as new information becomes available and related new materials new.



Dairy Management UW-Extension

**Extension** 

LGM - Dairy

Feeding & Grazing

Presentations

**Management Tools** 

Related Links

**Student Resources** 

Staff Resources

Download a copy of the <u>free</u> Adobe Acrobat Reader to view and print information provided as PDF files

Reader

### Livestock Gross Margin for Dairy: LGM - Dairy

- . Livestock Gross Marqin for Dairy, a poster presented at the ANRE 2008 UW-Extension meeting
- Livestock Gross Margin for Dairy, a two-page/three-fold brochure, Sept. 2008
- . Livestock Gross Margin Insurance for Dairy: A New Risk Management Tool Available for Dairy Producers, by M. Valvekar, V. Cabrera and B.W. Gould, Univ. of Wisconsin, July 2008
- . USDA's Gross Margin Insurance Program for Dairy: What is it and Can it be Used for Risk Management by B.W. Gould, P. Mitchell and V. Cabrera, Univ. of Wisconsin, Aug. 2008
- Managing the Newly Created LGM-Dairy Insurance Under Seasonal Climate Variability, by V.E Cabrera and Daniel Solis, University of Wisconsin-Madison, June 2008
- LGM-Dairy: Livestock Gross Margin for Dairy, a Powerpoint Presentation presented at the Eastern Wisconsin Farm Management Update Seminar, Sept. 12, 2008
- LGM-Dairy: A Wisconsin Example, a Powerpoint Presentation presented at the Eastern Wisconsin Farm Management Update Seminar, Sept. 12, 2008
- . Premium Calculator from RMA's
- . LGM for Cattle RMA Website

Search

· Understanding Dairy Markets - LGM-Dairy

Victor E. Cabrera, PhD, Assistant Professor and Extension Specialist in Dairy Management, is available to contact for more information.

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As with other sections of this website by clicking on an active link, you may generate an expanded menu. To make this menu disappear, click on the link again. If you have material that you think you would find useful please contact Prof. Brian W. Gould with your suggestions.

The material contained within this site is for informational and research purposes only. The official website concerning material related to the Livestock for Gross Margin for Dairy program is the USDA Risk Management Agency website (http://www.rma.usda.gov).

### ■ Background Material Made Available by the RMA

This is a collection of information provided by USDA as to introduce the LGM-Dairy program

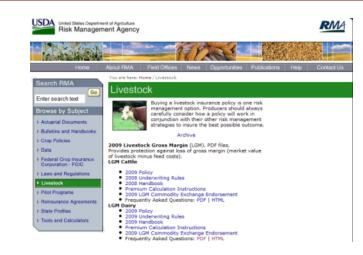
This is a collection of spreadsheet and other software used to exemplify the use of LGM-Dairy

### Underlying Data

This is a collection of data used in the implementation of LGM-Dairy

### Additional Material Explaining LGM-Dairy

Background Material Related to LGM-Dairy



### Contract

- Purchased Nov 26<sup>th</sup> 08
- Coverage period: Jan-Oct 09
- Feed expected to be used:
  - 39.2 lb corn/cwt milk (68% max allowable)
  - 5.05 lb of SBM/cwt milk (39% max allowable)
- Similar Example in Policy Briefing Paper of Gould, Mitchell and Cabrera Using May 2008 Data (Aug, 2008)







Month	(	Class III Settle	Milk Basis (\$, cwt)	/ All Milk Price (\$/cwt)		
	21-Nov	24-Nov	25-Nov	Avg.		
Jan `09	14.15	14.26	14.20	14.20	1.94	16.14
Feb `09	14.10	14.11	14.15	14.12	1.79	15.91
Mar `09	14.10	14.18	14.18	14.15	1.94	16.09
Apr `09	14.17	14.25	14.27	14.23	1.40	15.63
May `09	14.65	14.53	14.49	14.56	1.23	15.79
Jun `09	15.00	14.92	14.88	14.93	1.11	16.04
Jul `09	15.32	15.30	15.27	15.30	1.11	16.41
Aug `09	15.65	15.64	15.60	15.63	1.16	16.79
Sep `09	15.84	15.83	15.76	15.81	1.37	17.18
Oct '09	15.85	15.85	15.80	15.83	1.77	17.60







Month		Corn Settle I	Prices (\$/bu)	 Imputed	Basis (¢/hu)	Local Price (\$/	
Pionen	21-Nov	24-Nov	25-Nov	Avg	Price (\$/bu)	Basis (\$/bu)	bu)
Dec '08	3.385	3.545	3.535	3.488	3.49	-0.22	3.27
Dec '08	3.385	3.545	3.535	3.488	3.49	-0.22	3.27
Jan `09					3.54	-0.14	3.40
Feb `09					3.6	-0.13	3.47
Mar `09	3.5425	3.71	3.705	3.653	3.65	-0.17	3.48
Apr `09					3.71	-0.11	3.60
May `09	3.655	3.8225	3.8175	3.765	3.77	-0.12	3.65
Jun `09					3.82	-0.12	3.70
Jul `09	3.7625	3.935	3.93	3.876	3.88	-0.12	3.76
Aug `09					3.93	-0.15	3.78
Sep `09	3.8675	4.04	4.04	3.983	3.98	-0.11	3.87
Oct `09					4.05	-0.15	3.90
Dec `09	4.0075	4.1775	4.175	4.12	4.12	-0.18	3.94







Month	S	 Imputed Price (\$/ton)			
	21-Nov	24-Nov	25-Nov	Avg.	
Jan `09	250.5	257.4	262	256.63	256.63
Feb `09					257.67
Mar `09	252.9	259.4	263.8	258.7	258.70
Apr `09					260.10
May `09	255.4	262.3	266.8	261.5	261.50
Jun `09					262,95
Jul `09	257.7	265.3	270.2	264.4	264.40
Aug `09	259.2	266.8	271.7	265.9	265.90
Sep `09	258.5	266	271	265.17	265.17
Oct `09	253.9	260.8	265.9	260.2	260.20







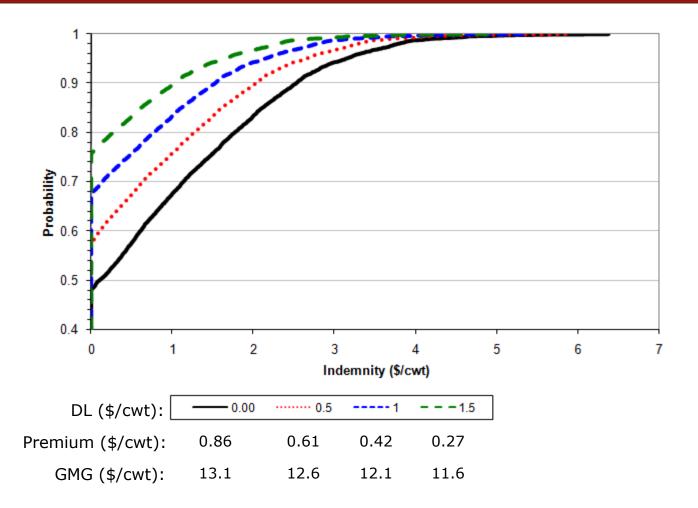
	GMG	Prer	mium
Deductible	Total		
(\$/cwt)	(\$)	(\$/cwt)	% of GMG
0.0	13.13	0.855	6.51
0.1	13.03	0.803	6.16
0.2	12.93	0.752	5.82
0.3	12.83	0.703	5.48
0.4	12.73	0.656	5.16
0.5	12.63	0.612	4.84
0.6	12.53	0.569	4.54
0.7	12.43	0.529	4.26
0.8	12.33	0.491	3.98
0.9	12.23	0.454	3.71
1.0	12.13	0.420	3.46
1.1	12.03	0.387	3.22
1.2	11.93	0.356	2.98
1.3	11.83	0.327	2.76
1.4	11.73	0.299	2.55
1.5	11.63	0.273	2.35







### Simulated Indemnities (Nov 08)

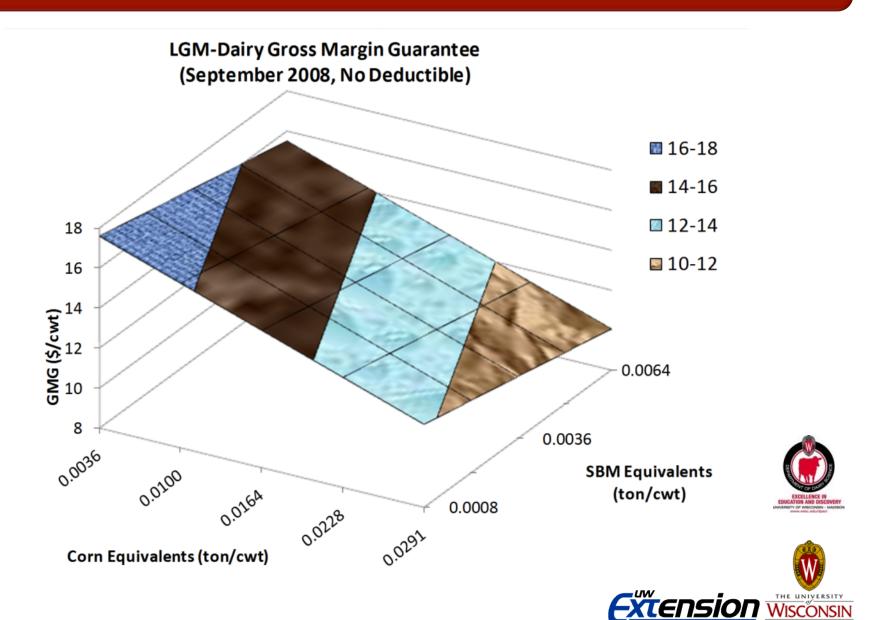






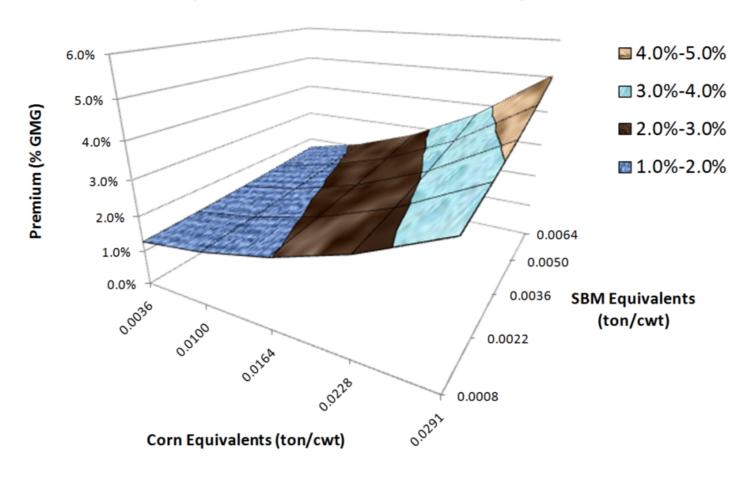


### LGM-Dairy: Aug 08 (Oct 08 – Jul 09)



### LGM-Dairy: Aug 08 (Oct 08 – Jul 09)

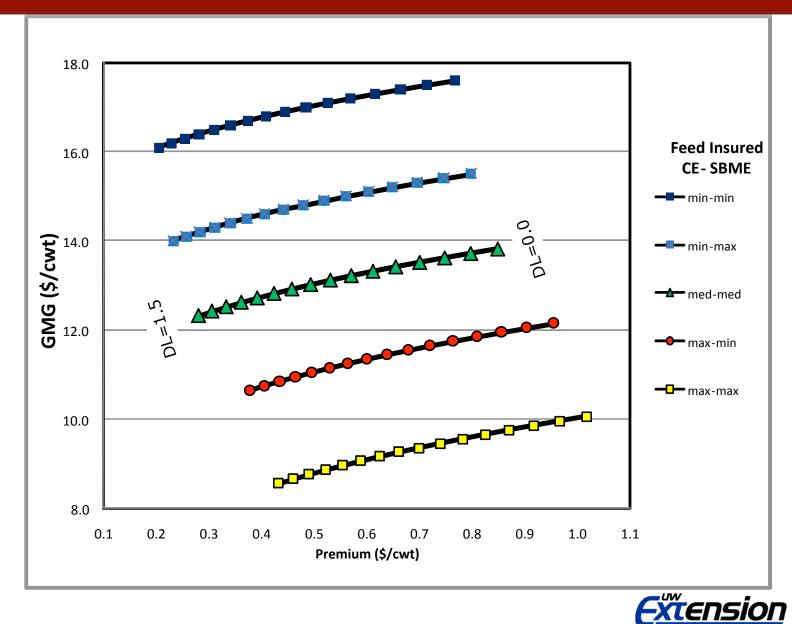
LGM-Dairy Gross Margin Guarantee (September 2008, \$1.5/cwt deductible)







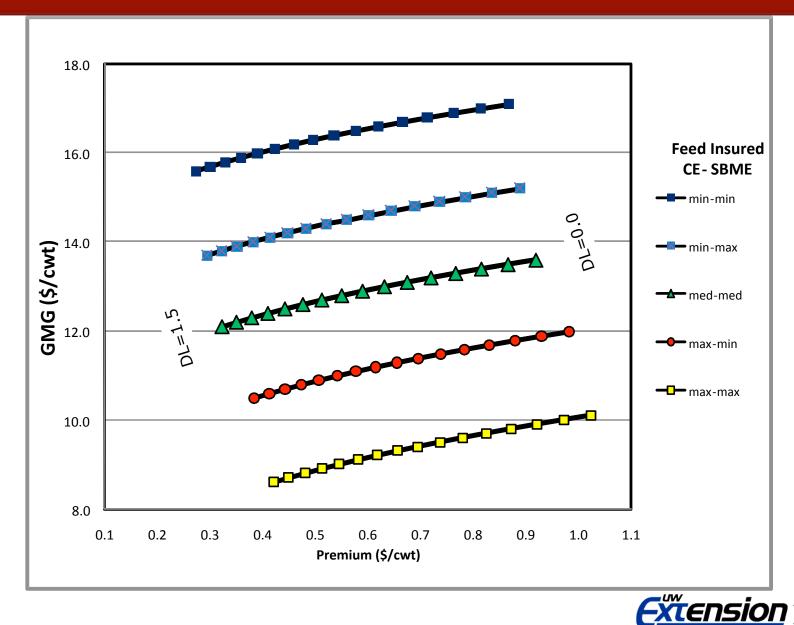
# LGM-Dairy: GMG and Premium (Aug 2008)







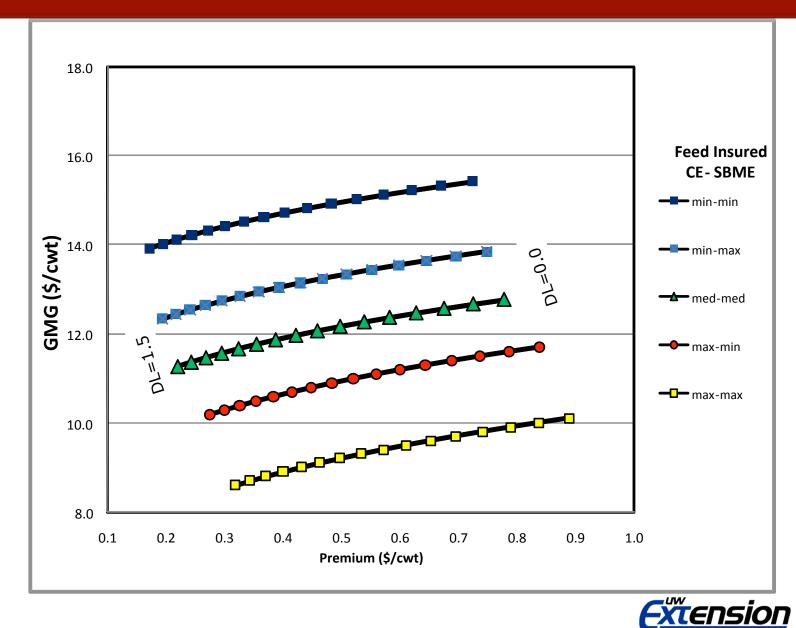
### LGM-Dairy: GMG and Premium (Sep 2008)







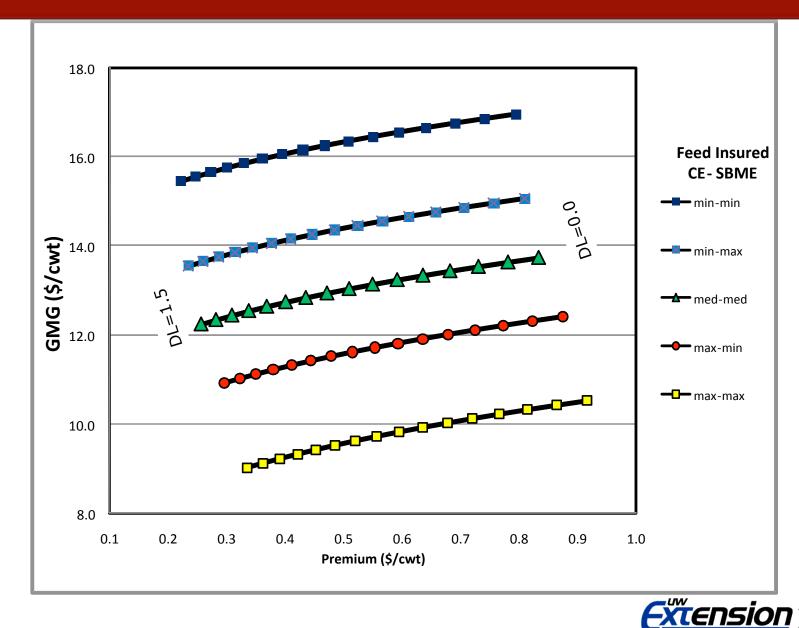
### LGM-Dairy: GMG and Premium (Oct 2008)





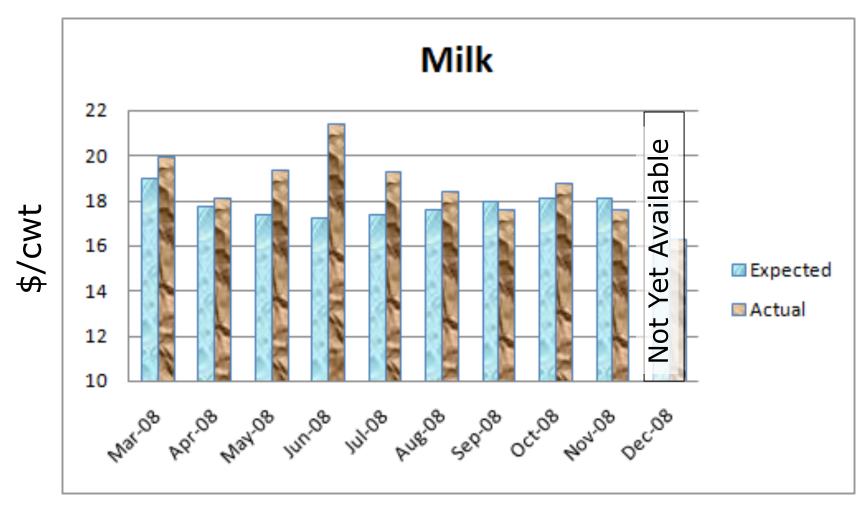


# LGM-Dairy: GMG and Premium (Jan 2008)





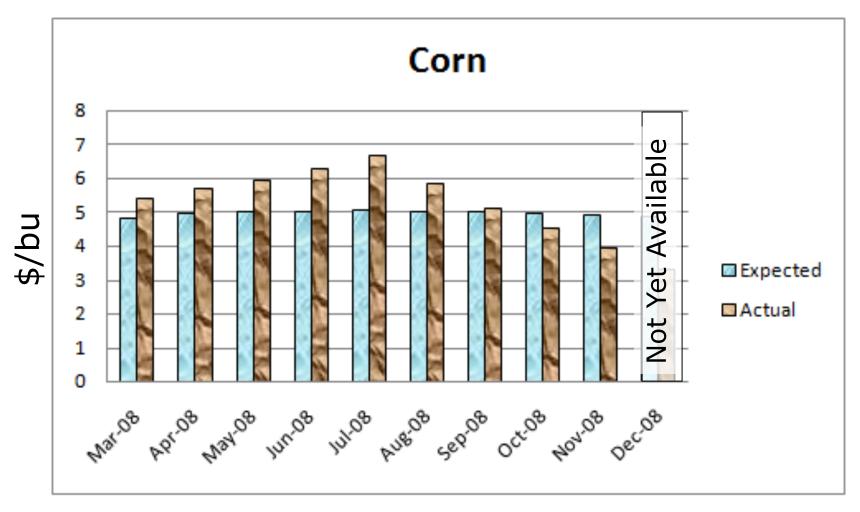








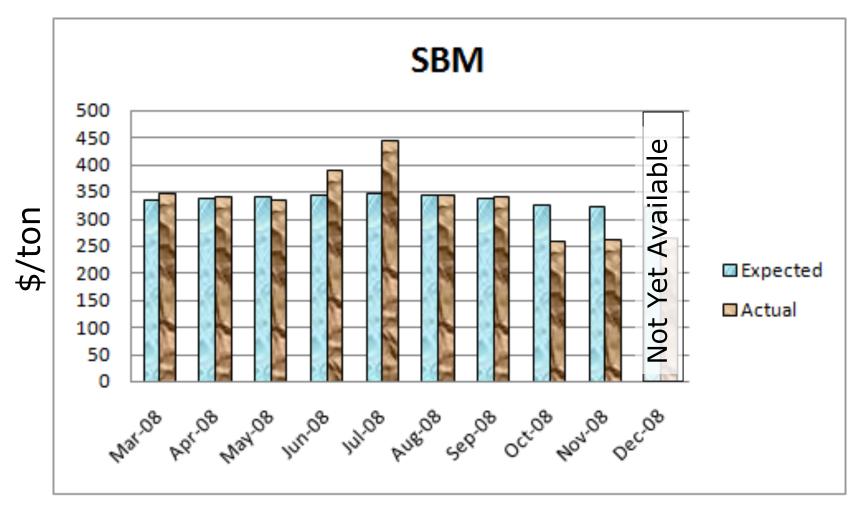










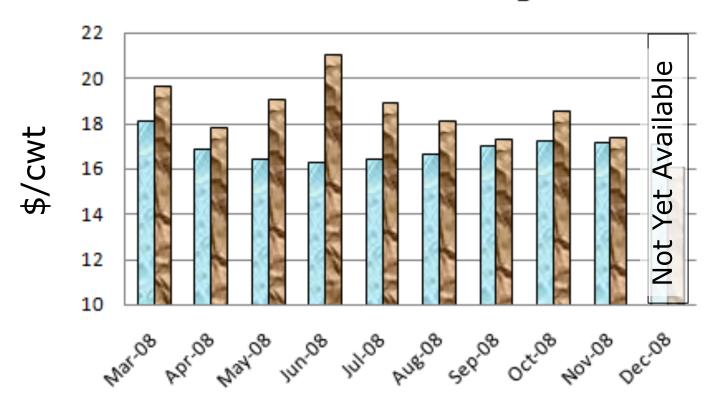








### **Gross Margin**



Would have paid: \$0.00/cwt in indemnities

■ Expected

■ Actual

Would have cost: \$0.87/cwt in premium







### LGM-Dairy: Livestock Gross Margin for Dairy





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Ag and Applied Economics

http://www.uwex.edu/ces/dairymgt/dairy.cfm http://future.aae.wisc.edu/ http://future.aae.wisc.edu/lgm\_dairy.html#5