

U.S. Dairy Outlook & Policy

2014 Outlook and Dairy Policy Update



Today's Topics



Markets and Prices 2014



Dairy Policy & Farm Bill

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Website @ AEDE/OSU:

http://aede.osu.edu/research/ohio-dairy-web

Ohio Vital Statistics: Dairy 2012 & 2013

Last Update: November 2013

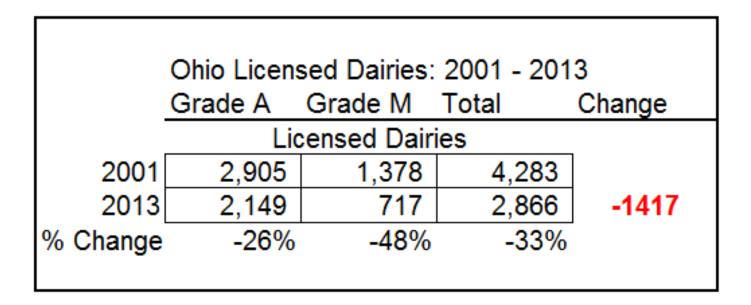
Ohio Vital Statistics	2013(p)	2012	Percent Change		
Dairy Cows (avg ytd)	270,000	270,000	0.0%		
Milk per cow (avg ytd)	1,650	1,637	0.8%		
# /cow per day(avg /ytd)	54.5	53.8	1.3%		
The data below represent a con	The data below represent a comparison of the most recent consecutive 12 month period for each year.				
Total Milk Production					
last 12 months (b #'s) *	5.37	5.32	0.9%		
Gross Cash Revenue from sale of milk *	\$1,072,583,708	\$994,265,436	7.9%		
FMMO Mailbox Price					
(12 month average) **	\$19.97	\$18.68	6.9%		
FMMO Class 3 Price					
(12 month average) **	\$17.81	\$17.44	2.1%		

^{*)} cummulative from the most recent reported 12 months

Data source: USDA Reports / FMMO Statistics Cash revenue and FMMO data are for January – December

^{**)} most recent reported 12 months

Ohio Vital Statistics:



Average number of cows per dairy farm: 61 2001 & 94 2013

Average production per dairy farm: 1.0m 2001 & 1.8m #'s 2013

Source: Ohio Department of Agriculture Dairy Division http://www.agri.ohio.gov/apps/DairyFarmsReport/FarmsReportPage.aspx



Ohio Vital Statistics: Mideast FMMO

Last Update: November 2013

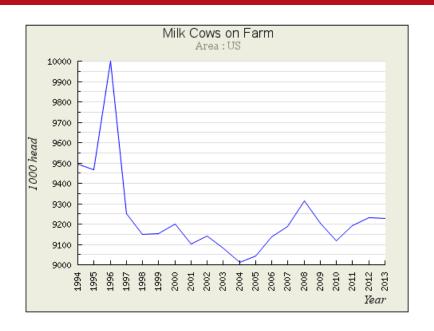
FMMO 33: Mideast Statistics	2013	2012	Percent Change	
Producers Delivering	6,158	6,381	-3.5%	
Producers Delivering Ohio	2,057	2,041	0.8%	
Producer Recipts (ytd)	13,994,807,000	14,018,443,000	-0.2%	
Prices YTD Averages				
Class I Price	20.55	19.46	5.6%	
Class II Price	18.9	16.64	13.6%	
Class III Price	17.97	17.44	3.0%	
Class IV Price	18.49	16.01	15.5%	
FMMO Mideast PPD	1.12	0.18	522.2%	
Utilization YTD Averages				
Class I	37.3	37	0.30	
Class II	15.6	19.3	-3.70	
Class III	33	30.3 2.70		
Class IV	14.2	13.4	0.80	

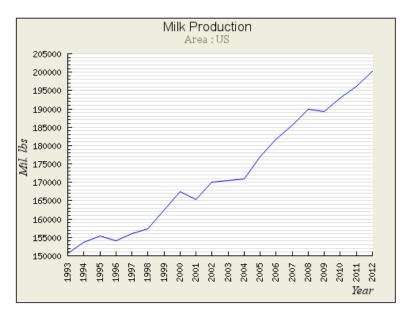
Data source: FMMO 33 Mideast Statistics

http://www.fmmaclev.com/Statistical%20Summary/2013.pdf



Milk Cows & Yields: U.S.





- ✓ U.S. total dairy cow numbers are flat at approximately 9.2 million.
- ✓ U.S. total milk production continues to expand reaching over 200 billion pounds in 2013.



Production Input Costs

What's UP

- Feed Concentrate Prices
- Machinery Prices
- Herbicide Prices
- Fertilizer Prices
- Insecticide Prices

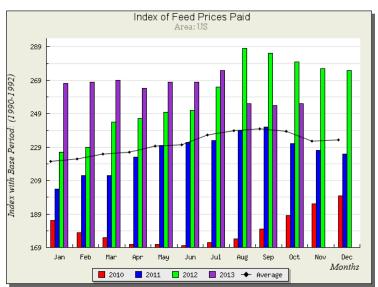
What's Down

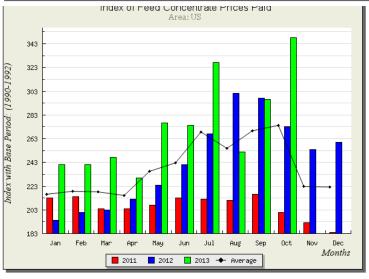
- Milk Cow Replacement Cost
- Feed Grain Prices
- Hay / Forage Prices
- Feed Supplement Prices
- Fertilizer Prices
- Fuel Prices
- Diesel Price (bulk)

What's Neutral

- Machinery Prices Paid
- Insecticide Price

Source: USDA National Agricultural Statistics Service





Commercial Use

CHEESE +12.2% from 2000

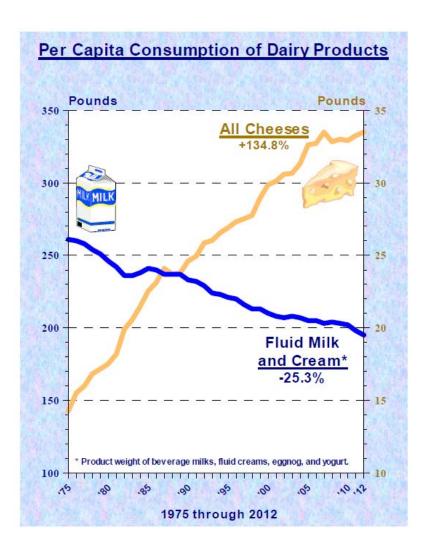
- Italian cheeses 15# pc
- Cheddar 9# pc

MILK BEVERAGES <7.1>% from 2000

- Fluid Milk & Cream
 - 175# pc

OTHER DAIRY

- Ice Cream
 - 18# pc
- Yogurt
 - 14# pc

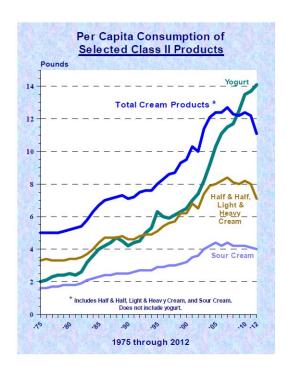


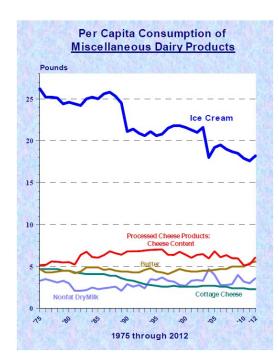
Source : FMMO 32 Central Marketing Service Bulletin 10/13.



Demand Trends



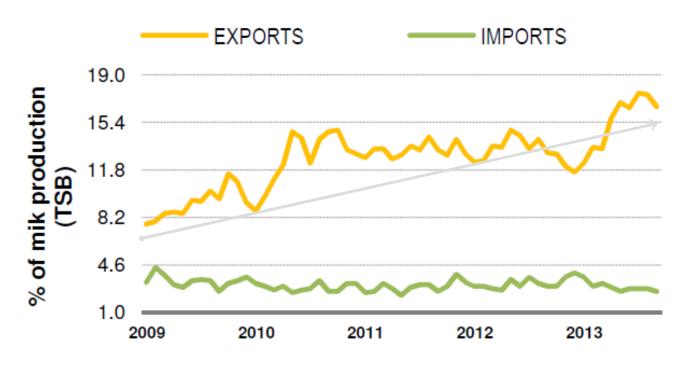




Per capita consumption of all milk products peaked in 1940's @ 800#'s. Today per capita use is estimated at 612 #'s.

Consumer interest in dairy products lies with Cheese, primarily Cheddar and Mozzarella and with Yogurt. Beverage milk products continue a long downward slide.

U.S. EXPORTS AND IMPORTS AS % OF PRODUCTION

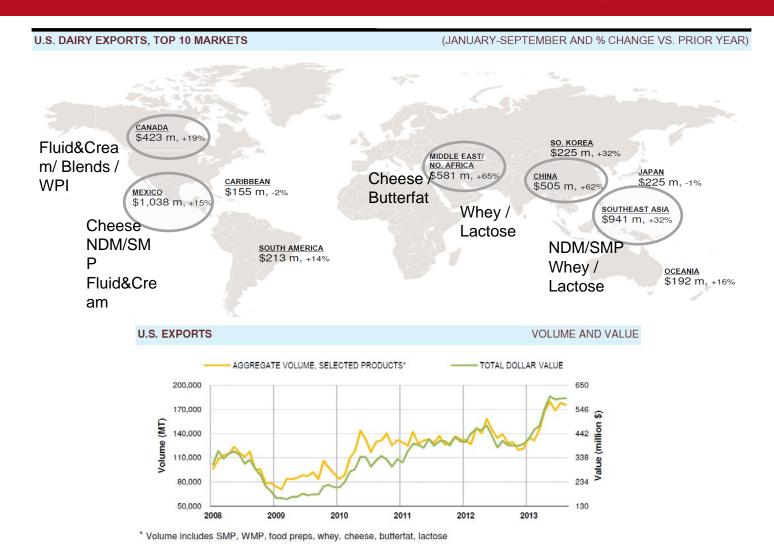


Exports climb from less than 4% in 1996 to over 15% of U.S. milk production in 2013

Source: U.S. Dairy Export Council USDEC



U.S. Dairy Trade 2013



U.S. Dairy Export Council - Global Dairy Market Outlook 2013 http://www.usdec.org



Product Category	% of U.S. Prod. 2013 / 2012	Top Exporter (U.S. Rank)
Milk Powder	56 / 47	NZ (3)
Cheese	6.1 / 5.5	EU-27 (3)
Butterfat	9.5 / 5.7	NZ (3)
Whey	56 / 48	US (1)
Lactose	75 / 66	US (1)
Total Solids	15.5 / 13.5	

Key Trade Issues Going Forward

- New Zealand milk production growth has occurred on the South Island, with 800k+ cows replacing 4m sheep.
- China's milk production is increasing after taking a hit in 2009, but is still only reaching 80b pounds.
- The OECD ten year forecast for imports by China show strong growth in WMP and SMP.



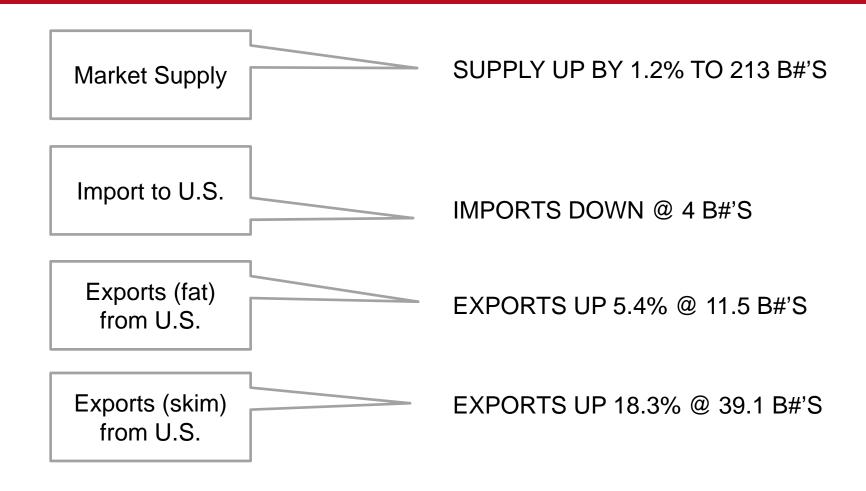
Importance of U.S. Dairy Trade

Dairy Exports All Products	% of U.S. Production Used in Export	Days of U.S. Production Exported	Export Equivalent number of cows (000)
1997	4.5	16.4	416
2003	5.7	20.8	518
2007	9.5	34.6	873
2013	15.4	56.4	1,437

U.S. milk production increased 33.066 billion pounds from 2003 – 2013. U.S. exports increased by 21.9 billion pounds absorbing 66% of the growth in U.S. milk production.



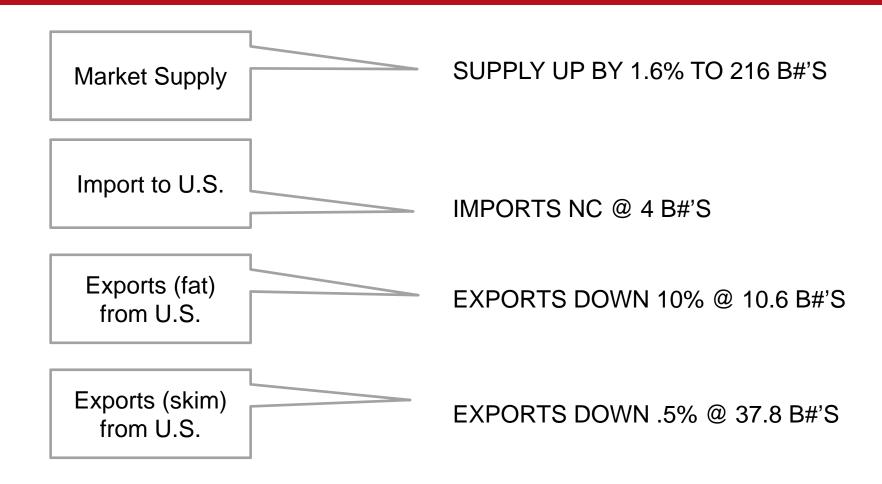
2013 End of Year



Source: USDA WASDE Report Nov. 2013



2014 Projection



Source: USDA WASDE Report Nov. 2013



Milk Prices w/ 2014 Projection

USDA All Milk and Class 3 & 4 Prices with 2014 Forecast

Milk prices (dol./cwt) 1/	2012 Annual	2013 Annual(p)	2014 Annual(p)
All milk	18.53	19.85	19.30 -20.20
Class III	17.44	17.95	16.85 -17.75
Class IV	16.01	18.9	18.60 -19.60
DSA Margin **	5.31	7.23	9.95

2014 planning price @ milkcheck

2014 planning NIOFC margin

U.S. average corn / soybean meal / alfalfa hay based feed cost: 2012 = **\$13.22** and 2013(p) **\$12.62** per cwt.

^{**} DSN Decision Tool



Navigating Dairy Policy



U.S. Senate Bill S. 954 Agricultural Reform, Food and Jobs Act of 2013
Dairy Security Act

U.S. House Bill H.R. 2642 Federal Agriculture Reform and Risk Management Act of 2013 Dairy Freedom Act

AEDE/OSU Newton-Thraen Proposal MILC-Insurance (Milk and Honey) aka *The common sense compromise act of 2013.*

AEDE/OARDC Research Project: Cameron Thraen, Research Advisor An Economic Evaluation of the Effectiveness of Future/Options and Insurance Markets as Price Risk Management Tools.

John C. Newton, Ph.D. Candidate "Policy Options for Managing Risk in a Modern Dairy Economy"

Website at AEDE/OSU:

http://aede.ag.ohio-state.edu/programs/OhioDairy/

Dairy Decision Website

Goal: Understand what's in the Dairy Title of the Farm Bill. Keep farmers financially productive by preventing over-insurance during times of profitable margins, or underinsurance during times of low margins.

- » The extension education team:
- The Ohio State University
- The University of Wisconsin
- The University of Minnesota
- Michigan State University

We will conduct workshops, provide written education materials, and host an internet-based tool that will assist farms in the insurance decision.

The Dairy Safety-net Decision Aid Education (DSDAE) will be hosted on centralized dedicated website located at the Ohio State University / FAES / AEDE (and other university websites)

Website @ AEDE/OSU: http://aede.osu.edu





John Boehner R-Ohio, House Speaker

"we have a Soviet-style dairy program in America today, and one of the proposals in the Farm Bill would actually make it worse."

"The thing that's a point of contention is this stabilization fund." "John hates the dairy program... He was on the (House Ag) Committee for 16 years, and his main focus then was to get rid of the dairy program." "Speaker Boehner is never going to be happy unless we get rid of the whole program."

Collin Peterson D-Minn, House Ag. Cmt. "Despite a lot of rhetoric from our dairy processor friends, this type of stabilization is not supply management; it's not a Canadian quota system; it's not the government forcing you not to produce. It is a simple, voluntary device to encourage a faster rebound in healthy margins and . . . reduce the cost of this new dairy program."

> Randy Mooney, NMPF Board Chair

"The House-passed version of the Farm Bill will allow our industry to continue to grow and create thousands more jobs.

The Senate-passed version of the Farm Bill, however, continues to include the divisive milk supply management policy that is opposed by national consumer groups, supermarket chains, restaurants, taxpayers, the Teamsters union and many dairy producers, including the second-largest dairy cooperative."

"We are pleased to hear that Chairman Lucas has indicated his opposition to this controversial new program that is designed to artificially raise milk prices,"

Jerry Slominski, IDFA senior vice president of legislative affairs and economic policy.

DSA vs. DFA

The 2012-2013 Farm Bill will include the most significant shift in Federal dairy income support policy in the past two decades. (The Dairy Security Act)

The big changes include a Dairy Producer Margin Protection Program and a Dairy Market Stabilization Program (supply management).

The Dairy Producer Margin Protection Program:

Coverage available from \$4.00 to \$8.00 per cwt in \$0.50 increments

Insured pounds are based on a farms production history

Insurance payments are triggered when the USDA calculated margins fall below the insured coverage level

To participate farms must pay administrative fees and insurance premiums

The Dairy Market Stabilization Program

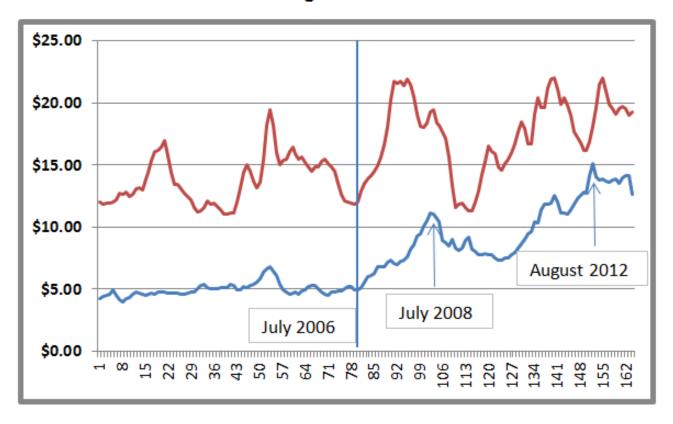
When margins fall below certain thresholds farmers are not paid for milk deliveries greater than their production base

Payment penalties can be as high at 8% of milk receipts

Production base can be a 3-month rolling average or production from the prior year Base option selection is important

MARGIN INSURANCE

U.S. All Milk Price and U.S. Average Feed Cost Index 2000 - 2013.

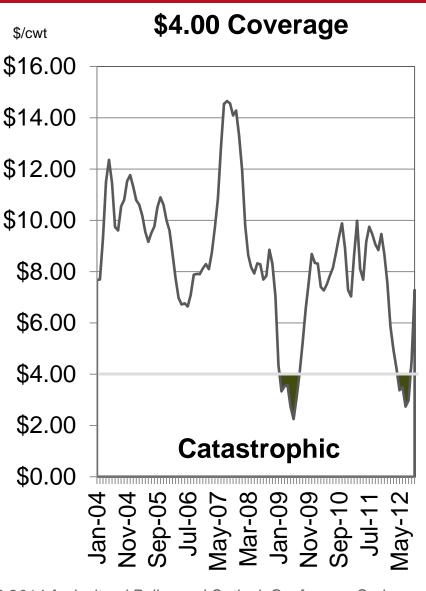


U.S. All Milk Price

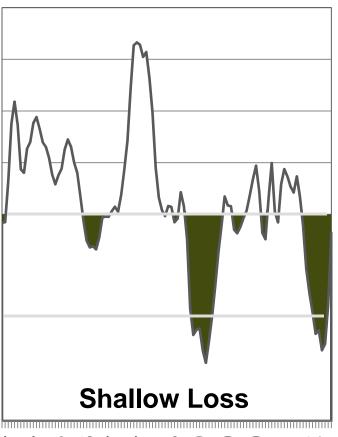
U.S. Average Feed Cost Index



MARGIN INSURANCE

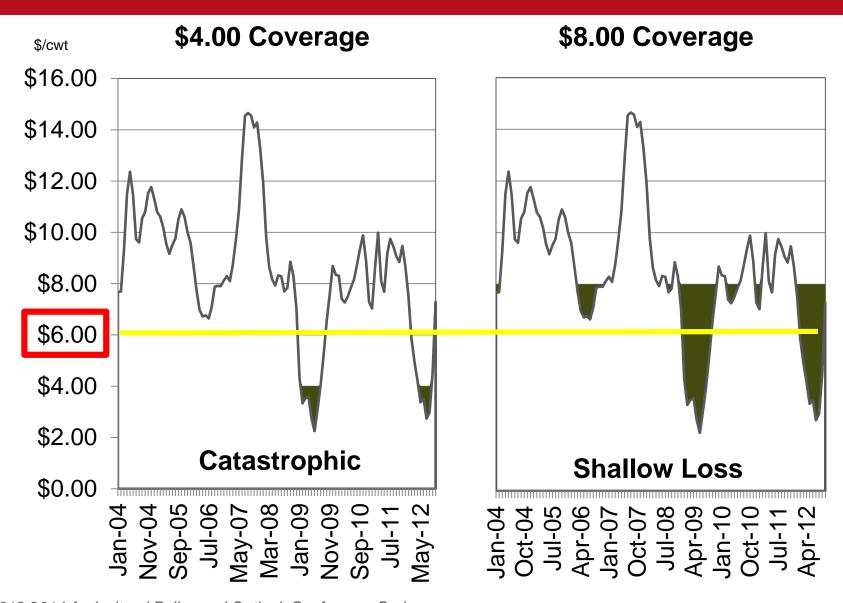


\$8.00 Coverage



Jan-04 Oct-04 Jul-05 Jan-07 Oct-07 Jul-08 Apr-09 Jan-10 Oct-10

Dairy Market Stabilization Program





"The devil is in the absence of detail."

Cam Thraen and John Newton

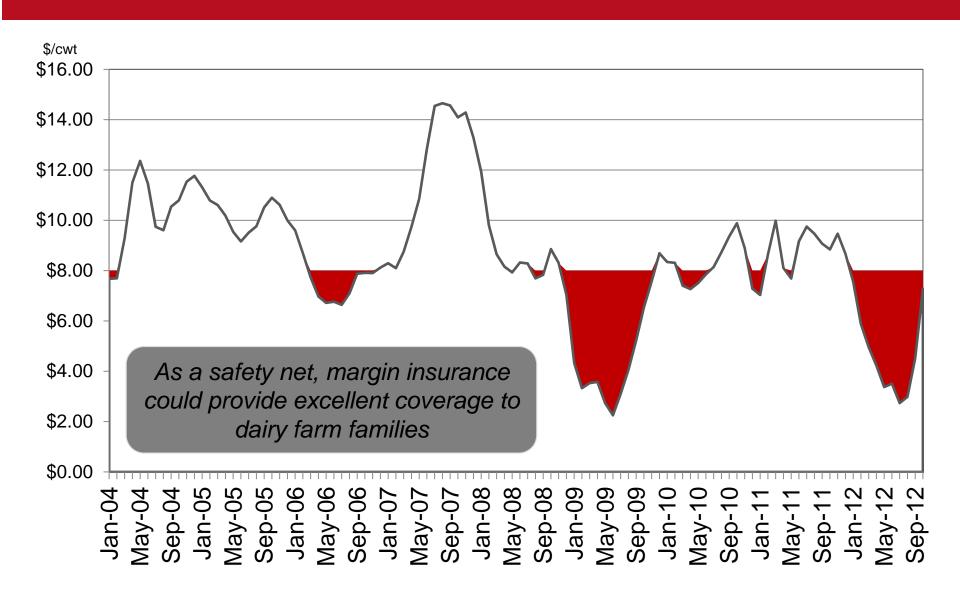


"The potential for many of the **information asymmetry incentives** to go unnoticed in the absence of this research is concerning. We hope that policy makers exercise restraint, and heed to the old adage "*less is more*." Offering heavily subsidized margin insurance that is rife with information asymmetry incentives may lead to sizeable government outlays and other structural problems."

John C. Newton



MARGIN INSURANCE WORKS



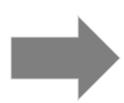


ADVERSE GAMING INCENTIVE

When selecting margin insurance coverage levels each year farms may choose based on anticipated margins

Fixed insurance
premiums combined with
the ability to buy
insurance on an annual
basis creates an Adverse
Gaming incentive

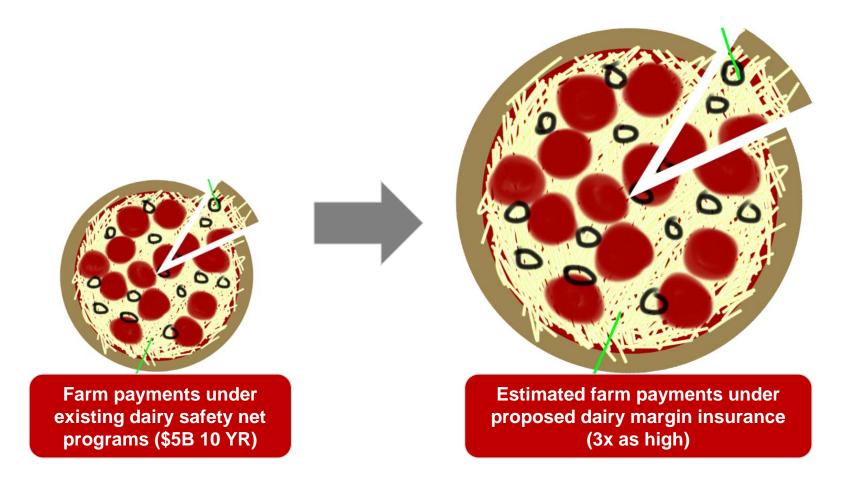
Similar to buying dairy margin insurance only when the house is on fire







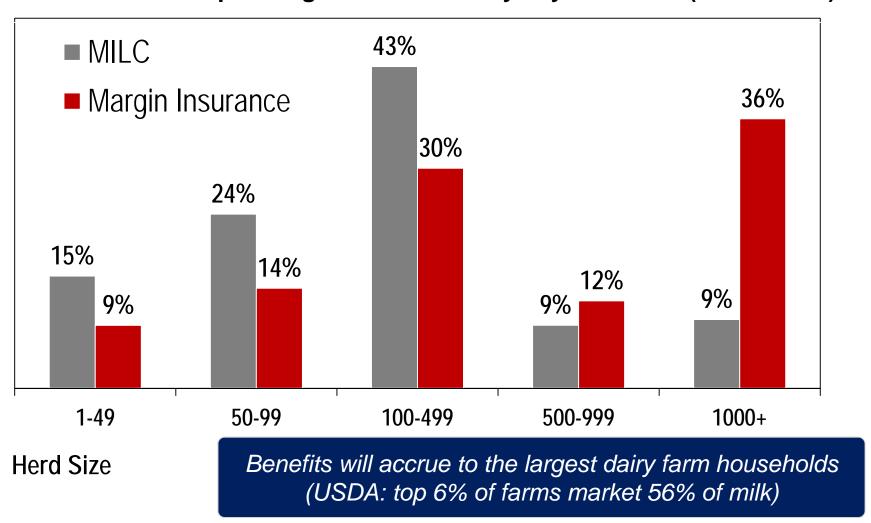
THE SIZE OF THE FARM PAYMENT PIE IS GETTING BIGGER





WHERE WILL THE MONEY FLOW

Percent of total expected government outlays by farm size (2013 Prices)





MILC-Insurance

Senate Ag. Committee



Common Sense Compromise Act of 2013



DECISIONS MAY BE COSTLY

Dairy producer margin insurance may cost several thousand to hundreds of thousands of dollars to participate annually.

The coverage decision, once made, cannot be changed during the production year.

Farms will receive an indemnity payment <u>ONLY</u> when margins fall below their selected coverage levels. All coverage levels will incur some expense.

Farms may be subject to payment limitations from supply management throughout the year.

Supply management penalties can occur even without margin insurance payments.

Payment reductions during a time of low margins

Especially likely with coverage levels below \$6.00

Making informed decisions will require complex forecasts on income-over-feed-cost margins into the future along with the determination of when supply management penalties will be in effect and what insurance coverage offers the best return. Where can the dairy farmer get this help? The answer....

Dairy Safety-net Decision Aid Education Website Website @ AEDE/OSU: http://aede.osu.edu

"Give a man too many things to think about and he can't nary think about any one thing too much."

Festus Haggen, Deputy, Dodge City Kansas



Discussion?

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