Economic Analysis of Proposed Dairy Policy Reforms

Dr. Marin Bozic

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University of Minnesota

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Our group...

- John Newton
- Cameron Thraen
- Mark Stephenson
- Brian Gould
- Chris Wolf
- Marin Bozic

Midwest Program on Dairy Markets and Policy 2013 Farm Bill Dairy Analysis Group

> Goodlatte-Scott vs. the Dairy Security Act: Shared Potential, Shared Concerns and Open Questions

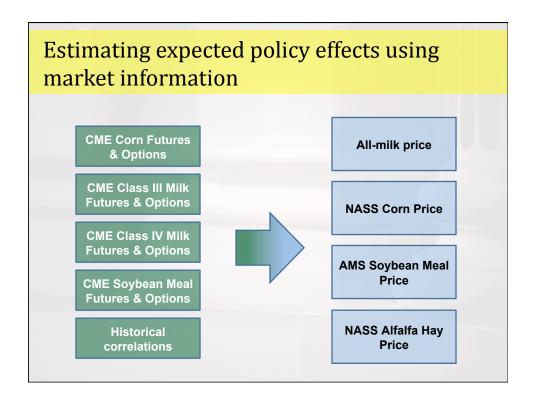
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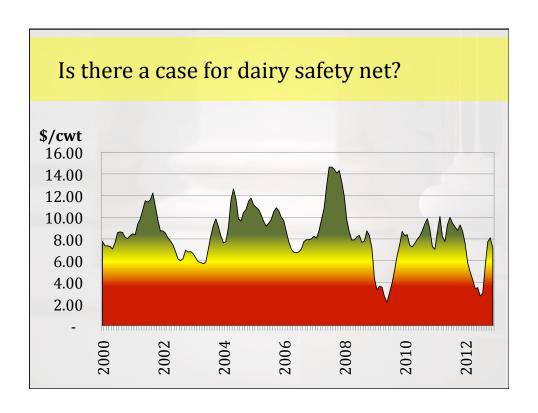
April 15, 2013

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http://aede.osu.edu/dairybriefing





Dairy Policy Debate

Agreement:

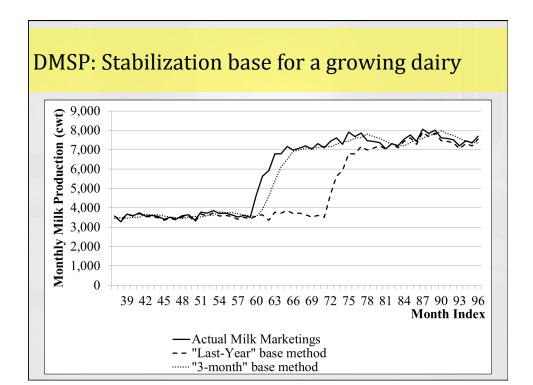
- Price floors should be abolished.
- Instead of milk price, focus should be on profit margins through catastrophic margin insurance.
- Producers should not be asked to make longterm insurance commitments.

Disagreement:

 Supply management of some form is an essential policy pillar.

On Catastrophic Margin Insurance

- "Both DSA and G-S are very effective in providing catastrophic risk insurance and revenue enhancement for farms with stable and moderately growing milk marketings." Newton et al (2013)
- For a producer that insures at \$6.50 coverage level, either dairy proposal would remove about 70% of catastrophic margin shortfall (i.e. margin decline below \$6.50 level).
- Benefits of participating in either program very likely to exceed costs of compliance.



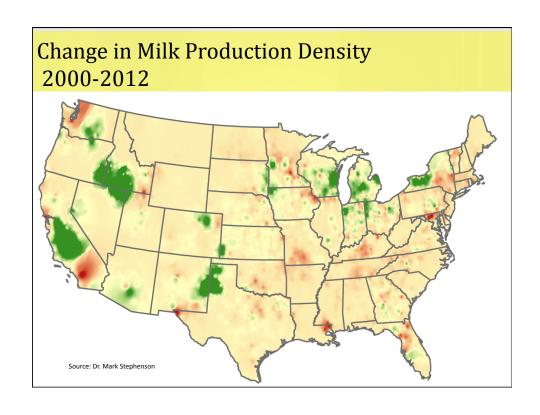
Will DMSP accelerate margin recovery?

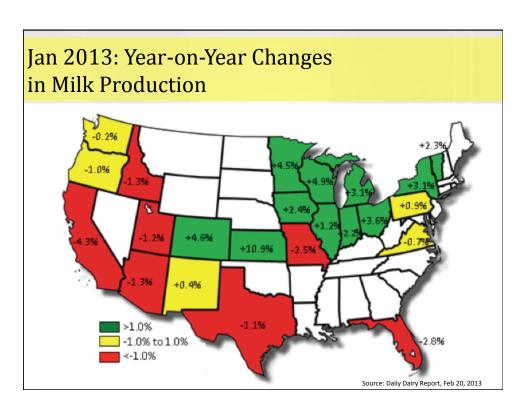
Average Annual Simulated Margin	DSA – if DSMP is Highly Effective	Goodlatte- Scott	How much more likely is scenario under G-S?
Less than \$5.00	1.46%	8.86%	6.1
\$5.00-\$6.00	10.66%	19.96%	1.9
\$6.00-\$7.00	38.88%	29.68%	0.8
\$7.00-\$8.00	30.06%	23.98%	0.8
Over \$8.00	18.94%	17.52%	0.9

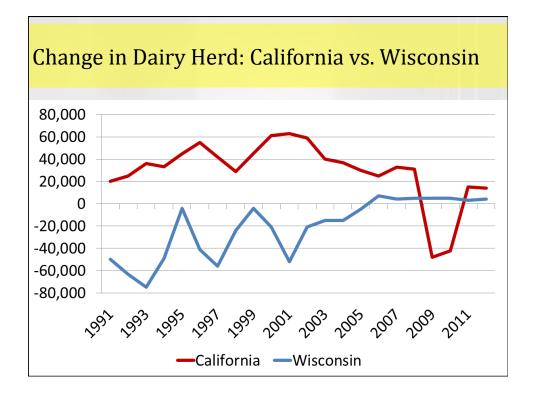
Based on margins forecasted with January 15, 2013 data.

Elasticity of Demand: -0.20

Milk Volume Participation: 75%







Can DMSP really be enforced?

Producer A: Signs up for the Margin Protection Program/ Market Stabilization Program

- Gets subsidized IOFC margin insurance
- Gets penalized if his milk marketings exceed stabilization base, when DMSP is in effect

Producer B: Does not sign up for the new government dairy safety net programs.

- > Must rely on market risk management instruments
- ➤ No impediments to milk production

Cattle Repurchase Agreement (CRA)

- "In case DMSP is triggered, producer B will buy 5% of producer A's dairy herd.
- Producer A will feed and manage the sold dairy cattle at A's dairy farm location. Produced milk belongs to producer B and all revenue from milk sales on sold cattle belongs to producer B.
- When DMSP is suspended, producer A has the obligation to buy the cattle back at a price equal to sales price plus "CRA service fee" and less net IOFC income accrued to B during time CRA is in effect."

CRA Impacts

- For producer A: Milk marketings do not exceed stabilization base. Effectively pays a "service fee" to producer B for transferring ownership of marketed milk for cattle under CRA during the time DMSP is active.
- For producer B: Obtains additional revenue for providing a "stabilization base relief valve" service to the producer A who is subject to DMSP.
- For dairy sector overall: Milk production is never decreased, DMSP effectiveness is reduced. Instead of an instrument for balancing the milk market, DMSP becomes a tool for transferring income from participating to non-participating producers.

Supplemental Margin Protection – Premiums for Production over 4 million lbs

Coverage Level	Senate 2013	House 2013	Dairy Freedom Act
\$4.00	\$0.00	\$0.00	\$0.03
\$4.50	\$0.02	\$0.02	\$0.05
\$5.00	\$0.04	\$0.04	\$0.07
\$5.50	\$0.10	\$0.08	\$0.11
\$6.00	\$0.15	\$0.16	\$0.19
\$6.50	\$0.29	\$0.23	\$0.29
\$7.00	\$0.62	\$0.43	\$0.38
\$7.50	\$0.83	\$0.59	\$0.83
\$8.00	\$1.06	\$0.92	\$1.06

Déjà vu all over again?



1970-1980s: Support prices at 80-85% of parity.

2013: "Sweet spot" at \$7.00/cwt?

That is 84% of the average IOFC over

2000-2012 period.

2018: Liquidity of dairy futures markets?

Milk oversupply?

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