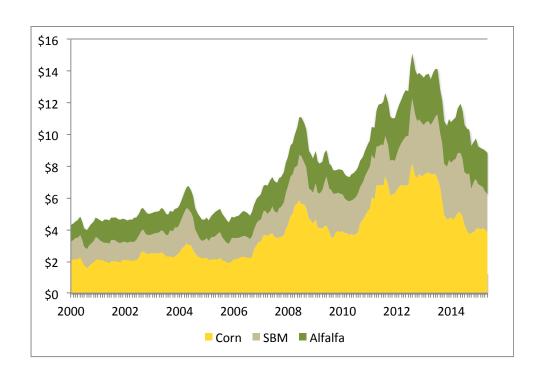
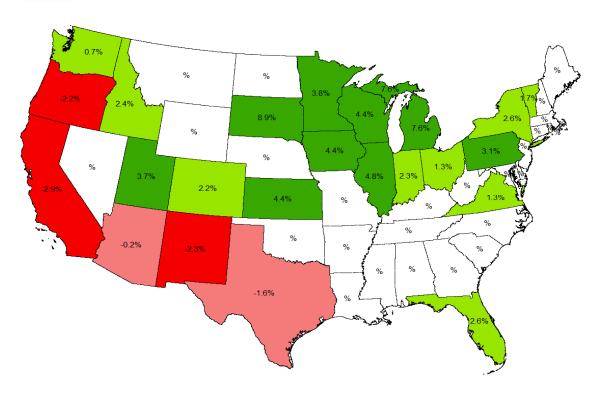


MPP Ration Value



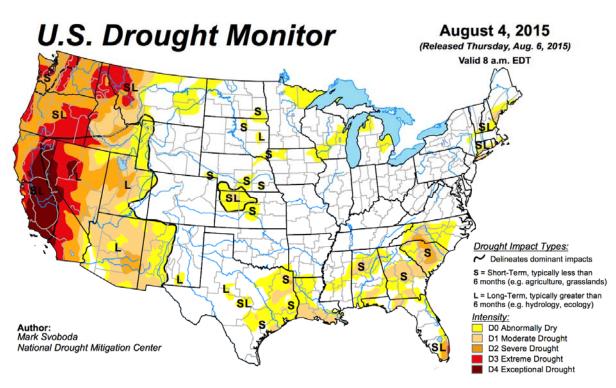


A Tale of Two Regions...

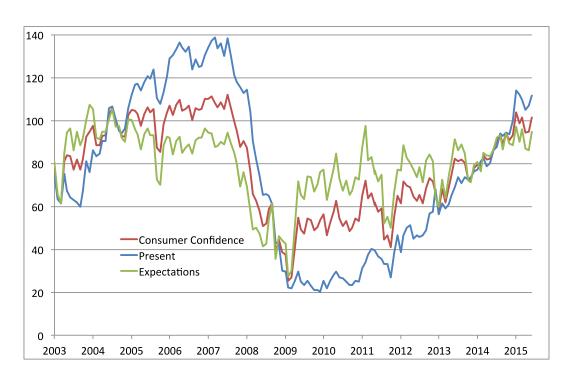




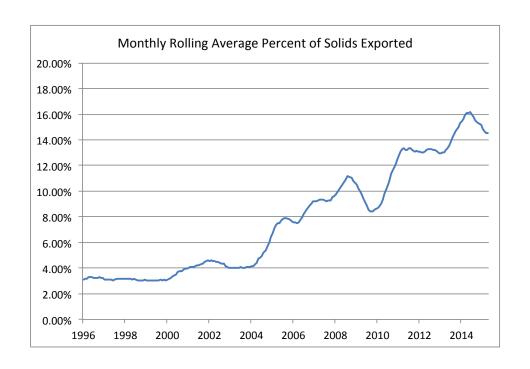
Worst CA Drought in 1200 Years





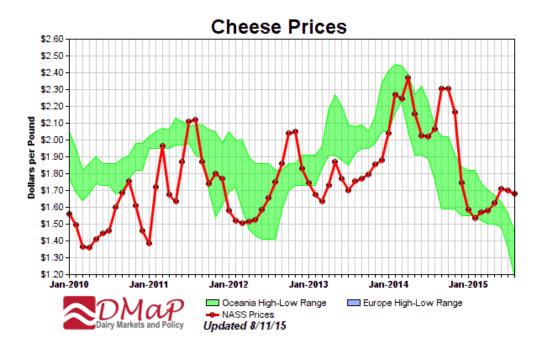


We Need Exports!



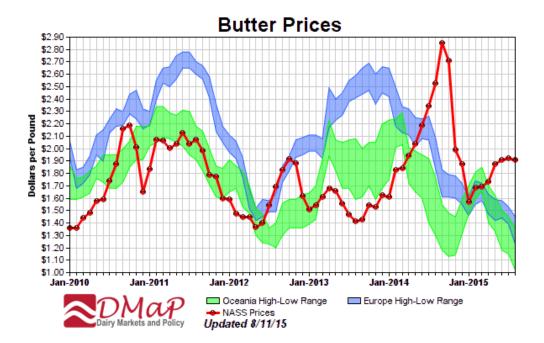


U.S. Versus International Prices



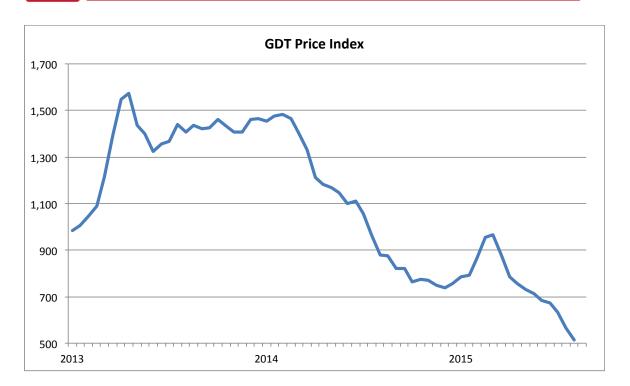


U.S. Versus International Prices





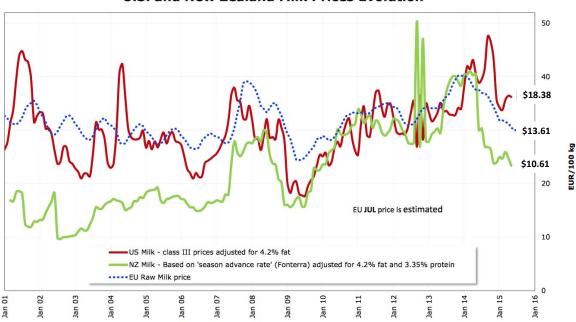
Global Dairy Trade Index





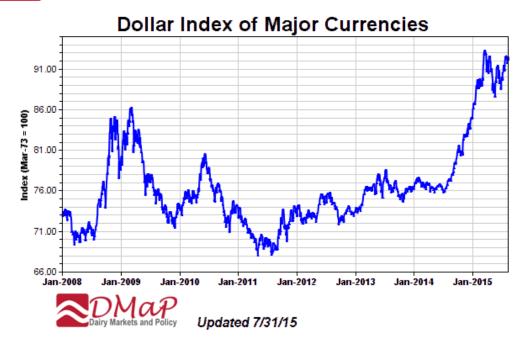
U.S. Farm Milk Prices are Holding Up Better than Most

U.S. and New Zealand Milk Prices Evolution

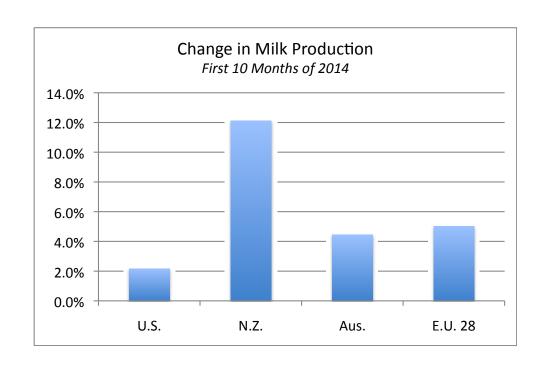


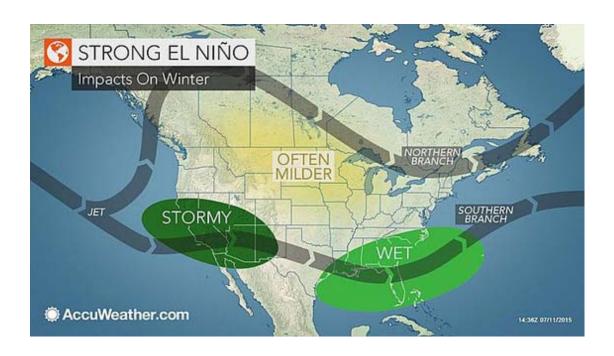
Source : USDA, LTO





Around the World







- Our strong U.S. economy is helping consume dairy products
- Dairy exports will become more of an issue in the next few months
- I think that the MPP margin will be worse than futures forecasts now suggest through the first half of 2016

I KNOW WHERE PRICES ARE GOING! – You selectively hedge only when you disagree with the market consensus. Let's be frank, you're speculating. ☺

DAIRY POLICY AS A PROFIT OPPORTUNITY – If subsidies are high, sign up, otherwise skip it.

"LEARN RISK MANAGEMENT!" – Extension, DMaP, brokers and policy makers all shoving risk management down your throat.



FRAGILE – If your farm would have serious problems surviving a major downturn in profit margins.

ROBUST – If your financial position and cost of production allow you to withstand a very large and prolonged unexpected downturn in profit margins.

ANTIFRAGILE – If your farm benefits from milk and feed price volatility. For example, if you have very strong financial position, low cost of production, and have protected against downside in margins. Then as your competitors go out of business, you will have an opportunity to buy their farm at a great price.

Our goal today, is to give you a tool to answer one key question:

Is my farm fragile, robust, or antifragile?

To answer that question, you need to:

- 1) Know your farm (costs of production, financials)
- 2) Execute a ruthless stress-test analysis



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Is my farm fragile, robust, or antifragile?

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Know your farm: Plans, costs and financials

Production & Prices			MPP-D	airy	Profitability	Liquidity	Solvency
Cows	2,000		Premium	Costs	Net Income	Working	Debt/Asset
Milk Per Cow (lbs/yr)	25,000		rremium	00313	Tree medine	Capital/Cow	Ratio
Expenses, Other than Feed (\$/cwt) Worst-Case IOFC Basis over MPP (\$/cwt)	\$9.00		Total \$	\$/cwt	\$/cwt	\$/cow	%
Other Revenue (beef, crops, etc.) (\$/cwt)	\$1.00		TOTAL 3	\$/CWL	\$/CWL	\$/COW	/0
other nevertue (beer, crops, etc.) (4/cwt)	\$1.00						
Risk Management		No MPP			-\$2.01	\$98	56.9%
MPP-Dairy: Production History	45,000,000	\$4.00	\$100	\$0.00	-\$2.01	\$98	56.9%
MPP-Dairy: Coverage Percentage	90%						
CME & Other: % of 2016 Milk and Feed Hedged	0%	\$4.50	\$7,800	\$0.02	-\$2.03	\$93	57.0%
CME & Other: Average Hedged IOFC	\$0.00	\$5.00	\$15,700	\$0.03	-\$1.89	\$127	56.7%
Financials		45.50	£20,200	£0.00	*1.67	£102	56.20/
Working Capital Per Cow	\$600	\$5.50	\$38,200	\$0.08	-\$1.67	\$182	56.2%
Assets Per Cow	\$7,000	\$6.00	\$58,875	\$0.12	-\$1.31	\$273	55.4%
Debt-to-Asset Ratio (At Market Value)	50%						
Effect of Crisis on Assets Value	-5%	\$6.50	\$109,550	\$0.22	-\$1.00	\$349	54.7%
Scenario: Average MPP-Dairy Margin in 2016	\$4.99	\$7.00	\$311,730	\$0.62	-\$1.00	\$350	54.7%
Diagnostics		\$7.50	\$399,000	\$0.80	-\$0.77	\$406	54.2%
Expected 2016 Milk Production	50,000,000	\$8.00	\$515.500	\$1.03	-\$0.60	\$450	53.8%
Cash-Flow Breakeven MPP-Dairy Margin	\$7.00		*****				
Acknowledgements						Adju	ust Prices



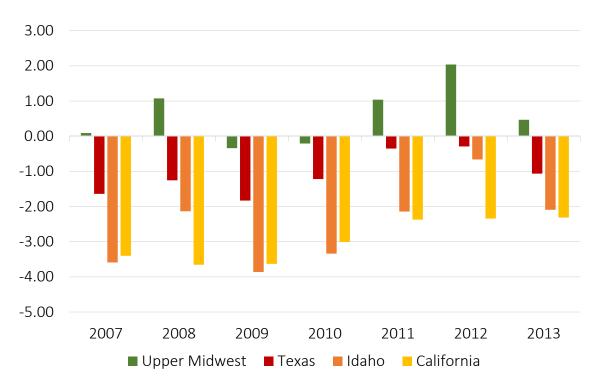
FARM-SPECIFIC DASHBOARD: PRODUCTION & PRICES

Cows	2,000	2,000
Milk Per Cow (lbs/yr)	25,000	25,000
Expenses, Other than Feed (\$/cwt)	\$9.00	\$7.00
Worst-Case IOFC Basis over MPP (\$/cwt)	\$1.00	-\$1.00
Other Revenue (beef, crops, etc.) (\$/cwt)	\$1.00	\$1.00
Diagnostics		
Diagnostics Expected 2016 Milk Production	50,000,000	50,000,000

✓ Basis tends to be lower in regions where costs of production are lower.

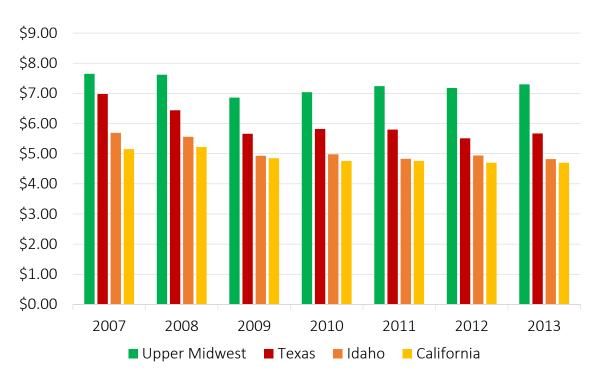


MPP-Dairy: Income over feed costs margin basis





OTHER OPERATING COSTS (EXCLUDING FEED, HERD REPLACEMENT, DEPRECIATION)



- ✓ Historical average MPP-Dairy margin is approx. \$8.50/cwt.
- ✓ Basis tends to be lower in western United States.
- ✓ Basis tends to be lower in regions where costs of production are lower.
- ✓ Most dairies, across the entire country, will have MPP-Dairy cash-flow break-even point below \$8.50/cwt.



KNOW YOUR FARM: PLANS, COSTS AND FINANCIALS

oduction & Prices			MPP-D	airy	Profitability	Liquidity	Solvency
ws lk Per Cow (lbs/yr) penses, Other than Feed (\$/cwt)	2,000 25,000 \$9.00		Premium	Costs	Net Income	Working Capital/Cow	Debt/Asset Ratio
orst-Case IOFC Basis over MPP (\$/cwt) her Revenue (beef, crops, etc.) (\$/cwt)	\$1.00 \$1.00		Total \$	\$/cwt	\$/cwt	\$/cow	%
k Management		No MPP			-\$2.01	\$98	56.9%
P-Dairy: Production History P-Dairy: Coverage Percentage	45,000,000 90%	\$4.00	\$100	\$0.00	-\$2.01	\$98	56.9%
IE & Other: % of 2016 Milk and Feed Hedged IE & Other: Average Hedged IOFC	0% \$0.00	\$4.50	\$7,800	\$0.02	-\$2.03	\$93	57.0%
ancials	\$0.00	\$5.00	\$15,700	\$0.03	-\$1.89	\$127	56.7%
orking Capital Per Cow	\$600	\$5.50	\$38,200	\$0.08	-\$1.67	\$182	56.2%
sets Per Cow bt-to-Asset Ratio (At Market Value)	\$7,000 50%	\$6.00	\$58,875	\$0.12	-\$1.31	\$273	55.4%
ect of Crisis on Assets Value	-5%	\$6.50	\$109,550	\$0.22	-\$1.00	\$349	54.7%
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agnostics		\$7.50	\$399,000	\$0.80	-\$0.77	\$406	54.2%
oected 2016 Milk Production sh-Flow Breakeven MPP-Dairy Margin	50,000,000 \$7.00	\$8.00	\$515,500	\$1.03	-\$0.60	\$450	53.8%
							ust Prices



FARM-SPECIFIC DASHBOARD: FARM FINANCIALS

Financials

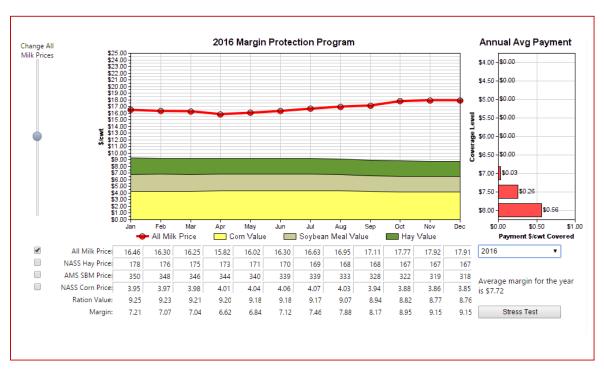
Working Capital Per Cow Assets Per Cow Debt-to-Asset Ratio (At Market Value) Effect of Crisis on Assets Value

\$600
\$7,000
50%
-5%

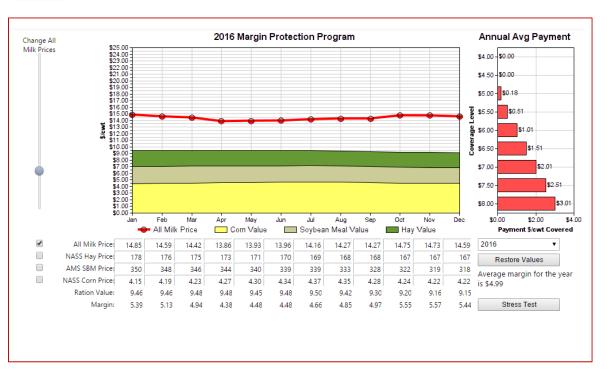
- ✓ Working capital per cow: Any losses will first be absorbed by cash reserves or by utilizing operating lines of credit.
- ✓ Debt-to-Asset Ratio: If losses are deep and cannot be absorbed by working capital, long-term debt will be increased.
- ✓ Assets Per Cow: Farms will more land will be able to spread losses over more assets.



NAME YOUR OWN PRICE (BE RUTHLESS)









KNOW YOUR FARM: PLANS, COSTS AND FINANCIALS

\$0.00 \$0.02 \$0.03 \$0.08 \$0.12	Net Income \$/cwt -\$2.01 -\$2.03 -\$1.89 -\$1.67	Working Capital/Cow \$/cow \$98 \$98 \$93 \$127 \$182	Debt/Asset Ratio % 56.9% 57.0% 56.7%
\$/cwt \$0.00 \$0.02 \$0.03 \$0.08	\$/cwt -\$2.01 -\$2.01 -\$2.03 -\$1.89	\$/cow \$/cow \$98 \$98 \$93 \$127	Ratio % 56.9% 56.9% 57.0% 56.7%
\$0.00 \$0.02 \$0.03 \$0.08	-\$2.01 -\$2.01 -\$2.03 -\$1.89	\$/cow \$98 \$98 \$93 \$127	% 56.9% 56.9% 57.0% 56.7%
\$0.00 \$0.02 \$0.03 \$0.08	-\$2.01 -\$2.01 -\$2.03 -\$1.89	\$98 \$98 \$93 \$127	56.9% 56.9% 57.0% 56.7%
\$0.02 \$0.03 \$0.08	-\$2.01 -\$2.03 -\$1.89	\$98 \$93 \$127	56.9% 57.0% 56.7%
\$0.02 \$0.03 \$0.08	-\$2.01 -\$2.03 -\$1.89	\$98 \$93 \$127	56.9% 57.0% 56.7%
\$0.02 \$0.03 \$0.08	-\$2.03 -\$1.89	\$93 \$127	57.0% 56.7%
\$0.03 \$0.08	-\$1.89	\$127	56.7%
\$0.03 \$0.08	-\$1.89	\$127	56.7%
\$0.08		7	
\$0.08		7	
*****	-\$1.67	\$182	50,2%
\$0.12			20.270
	-\$1.31	\$273	55.4%
\$0.22	-\$1.00	\$349	54.7%
\$0.62	-\$1.00	\$350	54.7%
\$0.80	-\$0.77	\$406	54.2%
\$1.03	-\$0.60	\$450	53.8%
		Adju	ust Prices
	\$0.62 \$0.80	\$0.62 -\$1.00 \$0.80 -\$0.77	\$0.62 -\$1.00 \$350 \$0.80 -\$0.77 \$406 \$1.03 -\$0.60 \$450



FARM-SPECIFIC DASHBOARD: RISK MANAGEMENT

Risk Management

MPP-Dairy: Production History MPP-Dairy: Coverage Percentage

CME & Other: % of 2016 Milk and Feed Hedged

CME & Other: Average Hedged IOFC

45,000,000
90%
0%
\$0.00

Some common question include:

- Do I need to hedge if I use MPP-Dairy? How much?
- Should % hedged plus coverage percentage be lower than total milk production?
- When should I hedge?



FARM-SPECIFIC DASHBOARD: RISK MANAGEMENT

Risk Management

MPP-Dairy: Production History MPP-Dairy: Coverage Percentage

CME & Other: % of 2016 Milk and Feed Hedged

CME & Other: Average Hedged IOFC

45,000,000
90%
0%
\$0.00

	MPP-D	airy	Profitability	Liquidity	Solvency
	Premium	Costs	Net Income	Working Capital/Cow	Debt/Asset Ratio
	Total \$	\$/cwt	\$/cwt	\$/cow	%
\$6.50	\$109,550	\$0.22	-\$1.00	\$349	54.7%



FARM-SPECIFIC DASHBOARD: RISK MANAGEMENT

Risk Management

MPP-Dairy: Production History MPP-Dairy: Coverage Percentage

CME & Other: % of 2016 Milk and Feed Hedged

CME & Other: Average Hedged IOFC

15,000,000
90%
40%
\$8.00

45 000 000

	MPP-D	airy	Profitability	Liquidity	Solvency
	Premium	Costs	Net Income	Working Capital/Cow	Debt/Asset Ratio
	Total \$	\$/cwt	\$/cwt	\$/cow	%
\$6.50	\$109,550	\$0.22	-\$0.20	\$550	53.0%



DASHBOARD: RISK MANAGEMENT - KEY POINTS

Risk Management

MPP-Dairy: Production History MPP-Dairy: Coverage Percentage

CME & Other: % of 2016 Milk and Feed Hedged

CME & Other: Average Hedged IOFC

45,000,000
90%
40%

\$8.00

	MPP-Da	iry	Profitability	Liquidity	Solvency
	Premium (Costs	Net Income	Working Capital/Cow	Debt/Asset Ratio
\$6.50	\$109,550	\$0.22	-\$0.20	\$550	53.0%

✓ MPP-Dairy and private risk management tools may be combined to keep profitability, liquidity and solvency above desired thresholds at least hedging costs.