

Dairy Economist and Policy Analysts Workshop

May 2017



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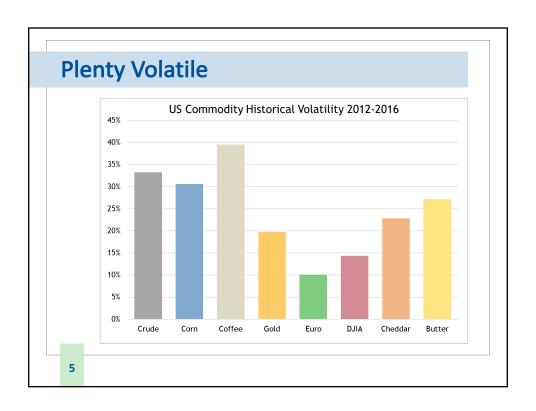
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There Are Many Options

- A focus on the tools accessed via the private sector (non-government programs)
- Some compare and contrast







Who Hedges Dairy?

- Dairy Farmers
- Dairy cooperatives and processors
- Marketers/packagers with exposure at retail and restaurant chains looking to protect menu price
- Brokers/traders and speculators

Management Trends - Producer



- Dairy producers continue to approach the process tentatively
 - Many demands on time
 - Tools are not always the most straightforward
 - Ability to adequately hedge milk price in certain regions more complex
- We sense that producers know they need to manage risk more actively, but some lack confidence

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Risk Management Trends: Co-op Seeing more and more coops taking an integrated approach to risk-**Producer** management **Programs** Full-time staff/team devoted to the effort Managing: • Inventory risk "Internal" Customer Sales price risk • Offering more to customers Risk **Programs** Producer price risk 8

Management Trends - Corporate



- Customers (CPG companies, restaurant chains, export partners) continue to seek wider risk management avenues
- More and more companies adopting a risk management culture
- New procurement personnel tends to have more risk management (but less dairy) experience

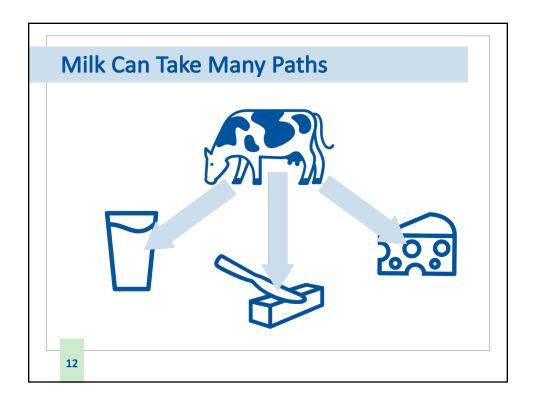
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Multiple Months Trading All Day

- Can use dairy futures to lock in commodity prices up to two years in advance
- During the week, dairy futures contracts trade 23 hours a day at the CME



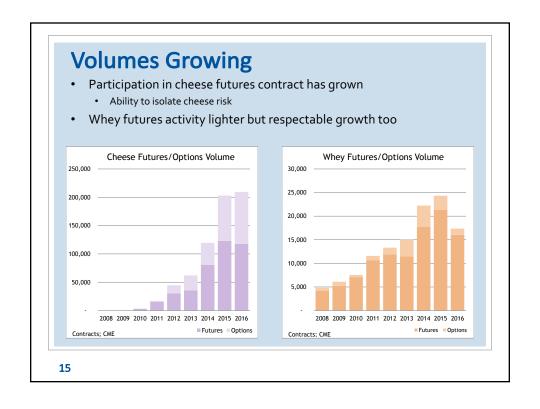


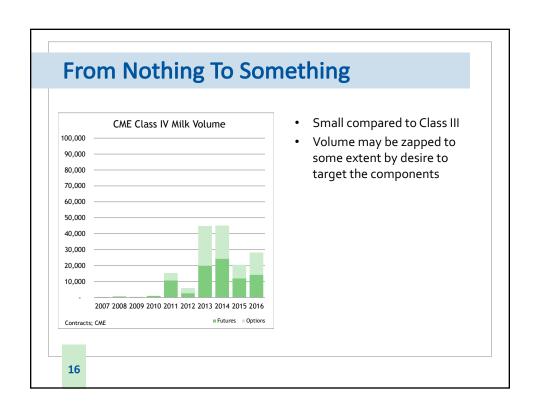
CME Dairy Contracts

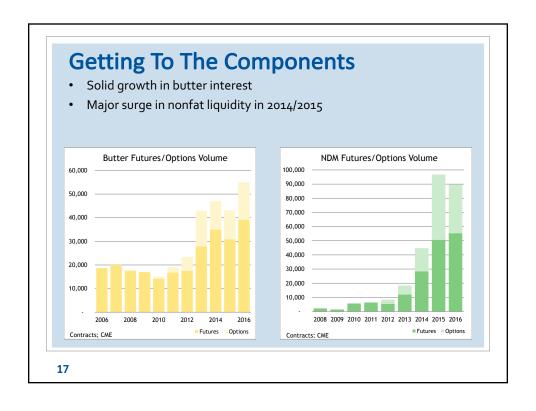
- Class III Milk
 - Futures: 200,000 lb contracts
 - Options: 200,000 and 100,000 lb contracts
- Cheese: 20,000 lb futures and options contracts
- Whey: 44,000 lb futures and options contracts
- Class IV Milk: 200,000 lb futures and options contracts
- Butter: 20,000 lb futures and options contracts
- Nonfat dry milk: 44,000 lb futures and options contracts

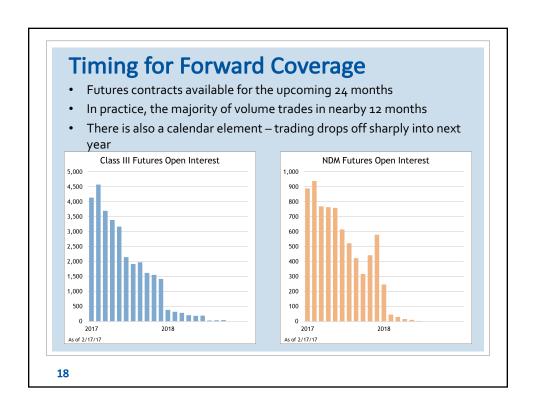
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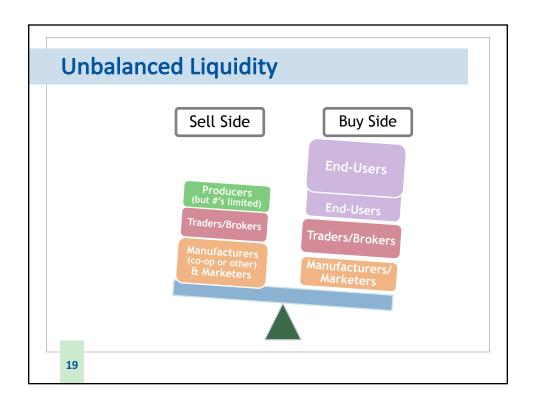
Solid Participation Class III historically the CME Class III Milk Volume 800,000 most popular 700,000 Options over half the volume in 2016 600,000 500,000 400,000 300,000 200,000 100,000 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 Contracts; CME 14

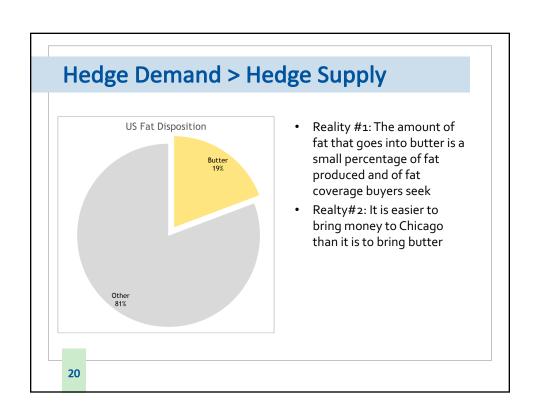




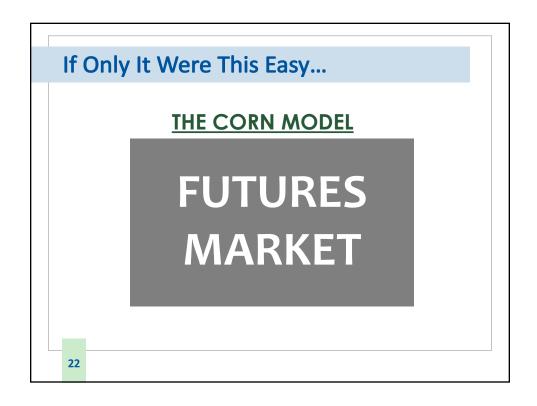


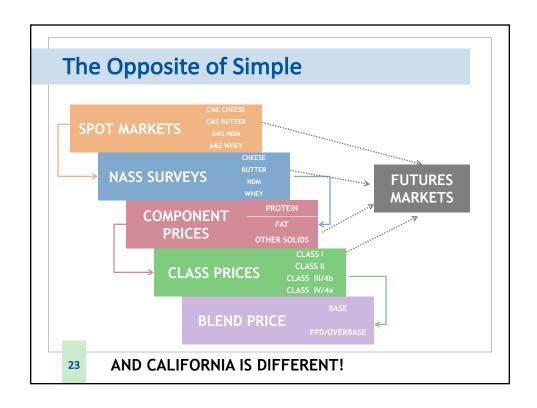














Paths of Execution



- There are many tools available to manage price risk
- The trick is deciding which one is best for the scenario
- As with most choices, there are trade-offs involved

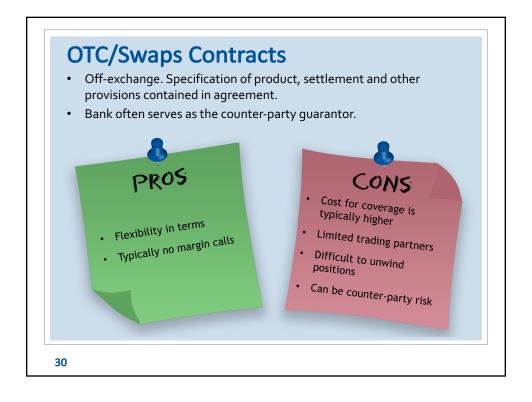
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Physical Purchases • Buy product in the cash market today (commonly through suppliers) and store until it is needed in the future PROS • Internal Process • Predictable • Requires capital upfront • Difficult to unwind the position









Paths of Execution

- Through a brokerage account
 - Hedge line, premiums paid upfront
 - Generally \$0.02 to \$0.04/cwt brokerage fees

Through banking or other institution

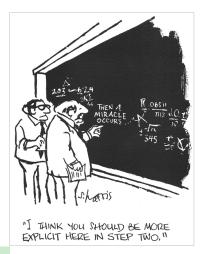
- Hedging line of credit/paperwork
- Settled with corresponding monthly milk check
- No margining or upfront cost to purchase puts
- Generally \$0.10 to \$0.12/cwt to execute

Through Cooperative

- Sign-up for the program
- Settled with corresponding monthly milk check
- No margining or upfront cost to purchase puts
- \$0.10/cwt to execute



Do You Believe in Magic?



- We don't.
- Money is involved...so it's emotional!
- Having a detailed plan is crucial for "success"
- Object is to manage margins, not maximize in one quarter only to slip the next
- The aim: Long-run profitability

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There's No Easy Button



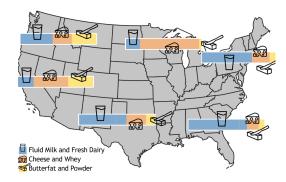
- Hedging requires
 - Time
 - A plan
 - Dedicated person/team
 - Consistency
- While it's not necessarily easy, what business decision is?

MPP Appealed To Some

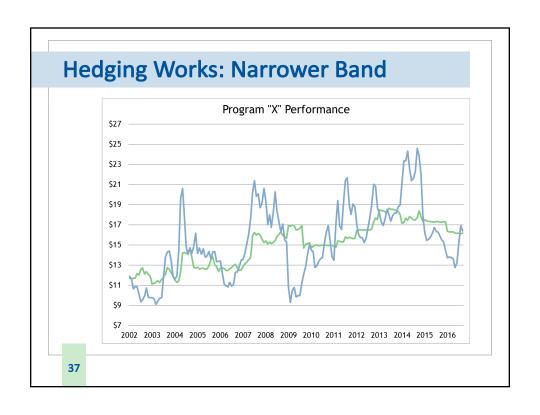
- A designed program: people smatter than me have figured out the margin calculation
- One stop shop: milk and feed included
- A Year Long Program: could prove advantageous to secure a margin a year in advance. Who knows what will happen between now and then?
- Options premiums can get expensive the further out I buy
- **Posting margin** on both milk and feed for a full year could be problematic
- Check the box: I am hedged!

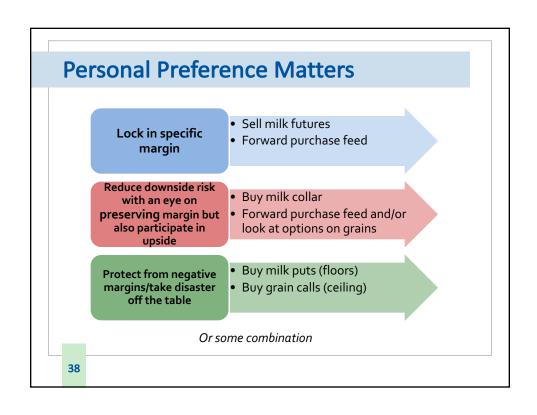
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The Reality of MPP



- Lack of flexibility no two dairies the same
- What if I want to hedge only milk and not feed?
- One chance deal: get it done by the date and don't look back

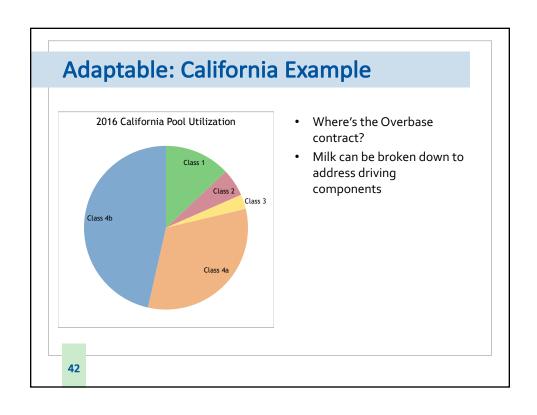


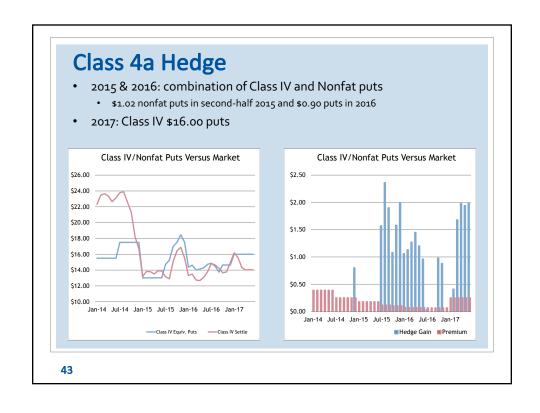


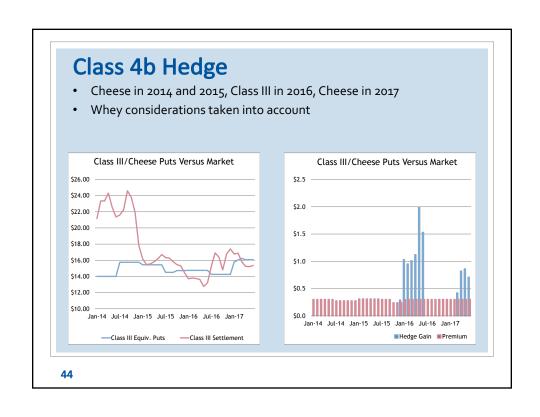
Can't Time The Market **Coverage Targets** Consistency is typically the 90% best approach 80% Provides a comfort level 70% Develop the discipline to 60% make active decisions 50% Flex the strategy depending 40% on market conditions Doing nothing is okay too -30% as long as it is part of the plan 20% 10% 0% 12 Months in 9 Advance 39

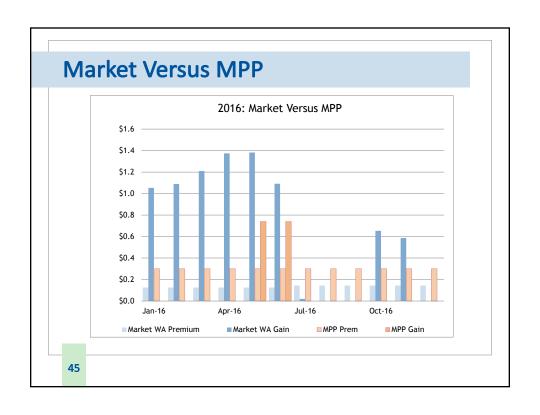
Percentile Strategy 100% Sell Futures 75% Sell Futures/Buy Call 50% Collar: Buy Put/Sell Call Bottom 25% Buy Put • Evaluate where futures price levels sit relative to history to determine strategy • A percentile approach appeals to some: • Top 75 to 100%: Sell futures to lock in price • Bottom 25% of prices: Buy price floor to prevent further deterioration • Flex strategy to fit needs

2016 Futures		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Jan 1st 2015		\$ 16.34				\$ 16.45		\$ 16.60		\$ 16.50	\$ 16.61	\$ 16.72
	\$ 16.50	\$ 16.50		\$ 16.25	\$ 16.50	\$ 16.30	\$ 16.35	\$ 16.35	\$ 16.60	\$ 16.50	\$ 16.61	\$ 16.50
	\$ 16.69	\$ 16.65		\$ 16.45	\$ 16.55	\$ 16.60	\$ 16.60	\$ 16.50	\$ 16.70	\$ 16.70	\$ 16.70	\$ 16.60
	\$ 16.90 \$ 16.96	\$ 16.90	\$ 16.77 \$ 16.83	\$ 16.55 \$ 16.68	\$ 16.56	\$ 16.60 \$ 16.63	\$ 16.68	\$ 16.58 \$ 16.75	\$ 16.78 \$ 16.88	\$ 16.76 \$ 16.90	\$ 16.76 \$ 16.90	\$ 16.65 \$ 16.85
	\$ 16.89	\$ 16.95 \$ 16.81	\$ 16.88	\$ 16.89	\$ 16.64 \$ 16.90			\$ 17.00	\$ 17.10	\$ 16.90 \$ 17.00	\$ 16.90	\$ 16.83
	\$ 16.48	\$ 16.48	\$ 16.50	\$ 16.47	\$ 16.55			\$ 16.95		\$ 17.00	\$ 17.07	\$ 16.90
	\$ 15.65	\$ 15.50	\$ 15.45	\$ 15.52				\$ 16.78			\$ 16.80	\$ 16.80
	\$ 15.75	\$ 15.65		\$ 15.70				\$ 16.45			\$ 16.38	\$ 16.26
	\$ 15.65	\$ 15.70	\$ 15.80	\$ 15.76	\$ 16.03	\$ 16.33	\$ 16.50	\$ 16.53			\$ 16.40	\$ 16.24
	\$ 15.30	\$ 15.58		\$ 15.95	\$ 16.22	\$ 16.52	\$ 16.85	\$ 16.97	\$ 16.99	\$ 16.95		\$ 16.79
		\$ 14.69	\$ 15.04	\$ 15.30	\$ 15.61	\$ 15.87	\$ 16.17	\$ 16.42	\$ 16.57	\$ 16.54	\$ 16.35	\$ 16.38
Jan 1st 2016	\$ 13.56	\$ 13.68	\$ 14.08	\$ 14.44	\$ 14.81	\$ 15.15	\$ 15.56	\$ 16.04	\$ 16.33	\$ 16.37	\$ 16.29	\$ 16.14
1-Feb	\$ 13.73	\$ 13.88	\$ 13.85	\$ 13.90	\$ 14.25	\$ 14.60	\$ 15.00	\$ 15.46	\$ 15.69	\$ 15.88	\$ 15.88	\$ 15.85
1-Mar			\$ 13.56	\$ 13.31	\$ 13.28	\$ 13.55	\$ 14.01	\$ 14.47	\$ 14.84	\$ 15.03	\$ 15.07	\$ 15.08
1-Apr				\$ 13.81	\$ 13.98	\$ 14.05	\$ 14.29	\$ 14.63	\$ 14.85	\$ 14.95	\$ 14.95	\$ 14.90
1-May				\$ 13.63	\$ 13.03	\$ 12.99	\$ 13.31	\$ 13.99	\$ 14.55	\$ 14.75	\$ 14.78	\$ 14.86
1-Jun						\$ 12.87	\$ 13.09	\$ 13.78	\$ 14.55	\$ 14.85	\$ 14.95	\$ 14.98
1-Jul			Sell Future	·s			\$ 15.07	\$ 15.89	\$ 16.04	\$ 16.13	\$ 16.11	\$ 15.89
1-Aug			Sell Future	s/Buy Call			\$ 15.26	\$ 16.92	\$ 16.91	\$ 16.84	\$ 16.43	\$ 16.09
1-Sep			Buy Put/Se	ell Call				-	\$ 16.77	\$ 16.84	\$ 16.56	\$ 16.15
1-0ct			Buy Put						\$ 16.39	\$ 15.16		\$ 15.37
1-Nov			buy rut								\$ 16.27	\$ 16.01









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