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Situation and Outlook for the U.S. Dairy Industry

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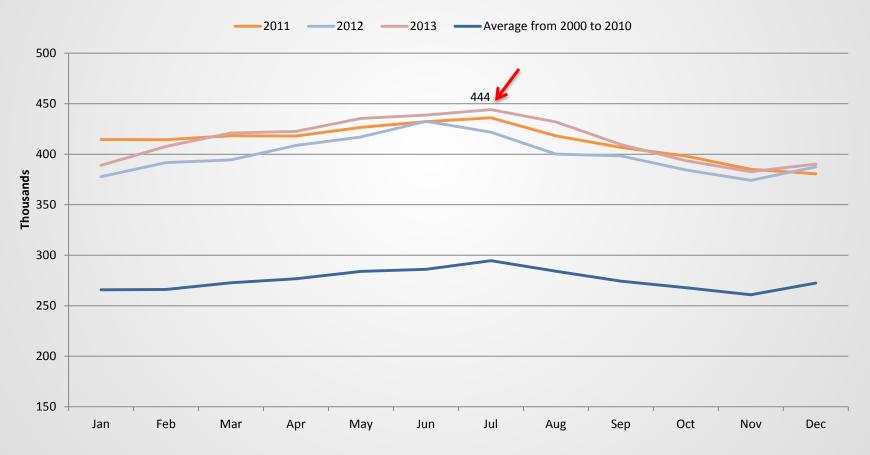
Acknowledgments

- Andrew Novakovic, Cornell University
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- Michael Woolsey, US Dairy Export Council

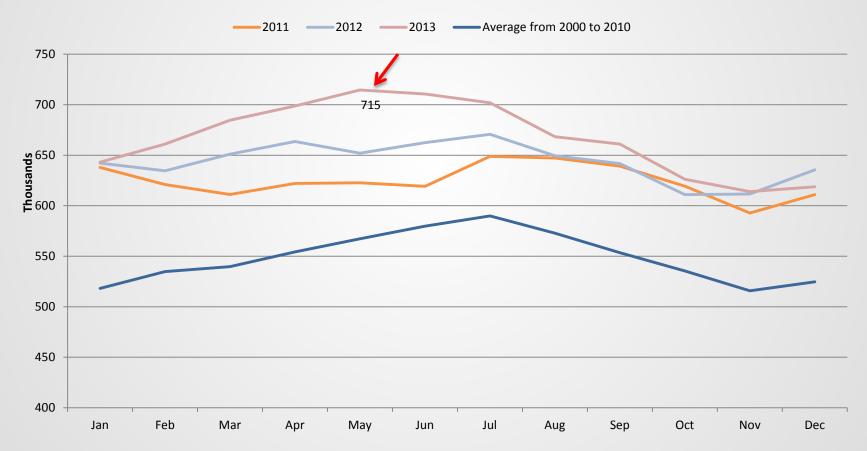
2013 Review

- Milk Production increased by 0.9 billion pounds
- Commercial Disappearance
 - o Fat ME Basis: decreased by 0.7 billion pounds
 - o Skim Solids ME Basis: decreased by 3.5 billion pounds
- Annual Ending Stocks
 - o Fat ME Basis: decreased by 1.0 billion pounds
 - Skim Solids ME Basis: decreased by 0.7 billion pounds

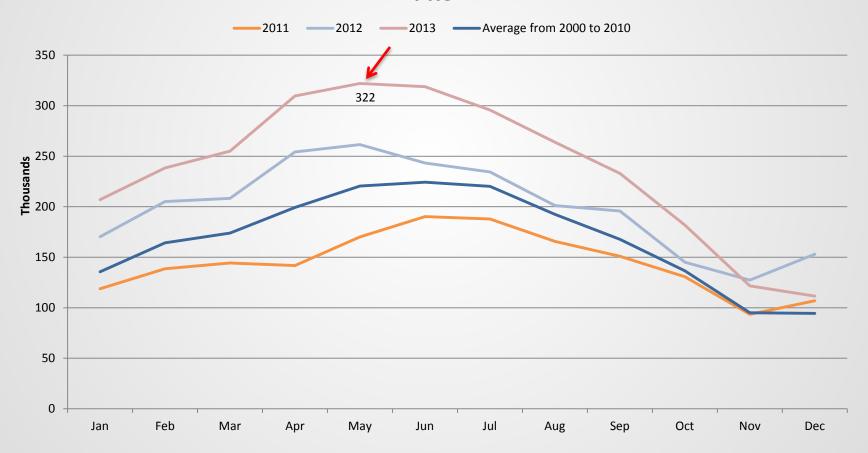
Other Cheese



American Cheese



Butter



NDM



NDM

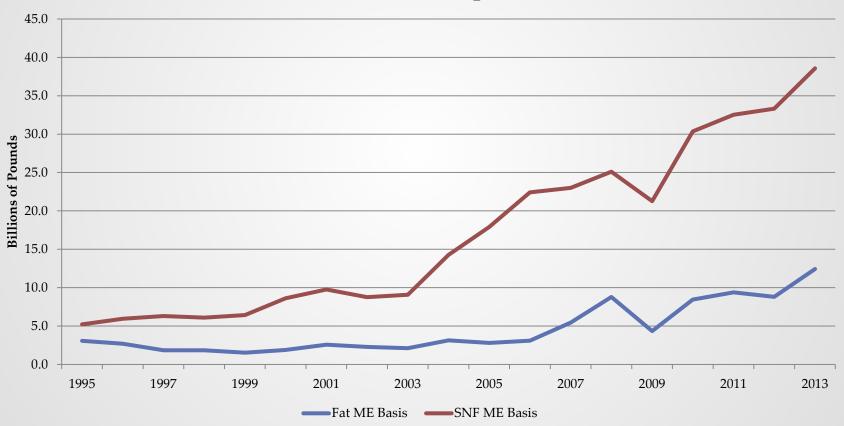


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- Annual Ending Stocks
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- Exports
 - o Fat ME Basis
 - Exported 12.4 billion pounds
 - An increase of 3.6 billion pounds
 - o Skim Solids ME Basis:
 - Exported 38.6 billion pounds
 - An increase of 5.3 billion pounds

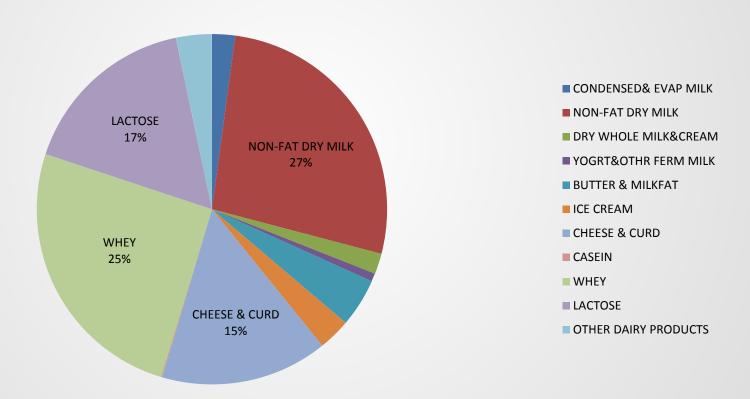
2013: More on Exports

Commercial Exports

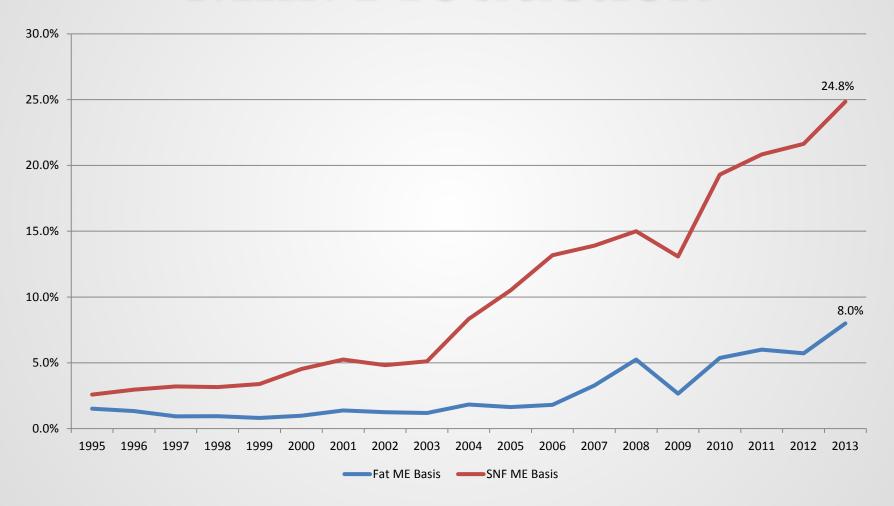


Exports Breakdown

2013 Quantity



Exports as a Percentage of Milk Production



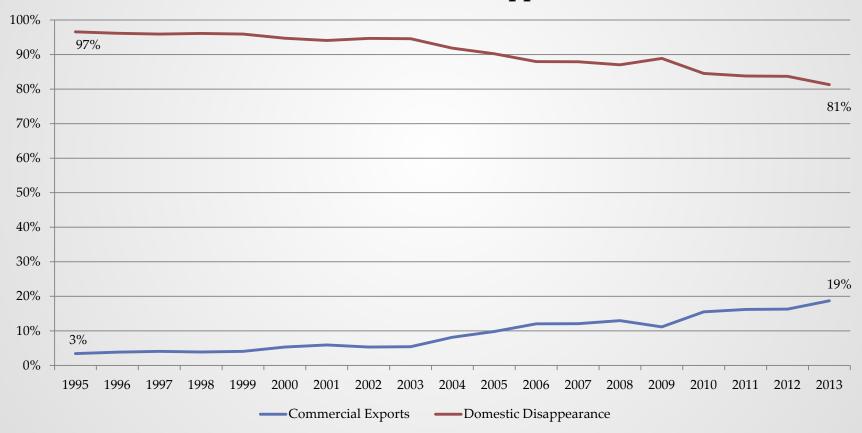
Source: USDA/FAS/NASS

Exports as a Percentage of Product Production

- Butter exports were 10% of butter production
- NDM exports were 57% of NDM production
 - Production of NDM was 16% lower
 - o Production of skim milk powder was 66% higher
 - o Combined total NDM and SMP production was 2% lower
- Cheese exports were 6% of Cheese Production

Exports as a Percentage of Commercial Use

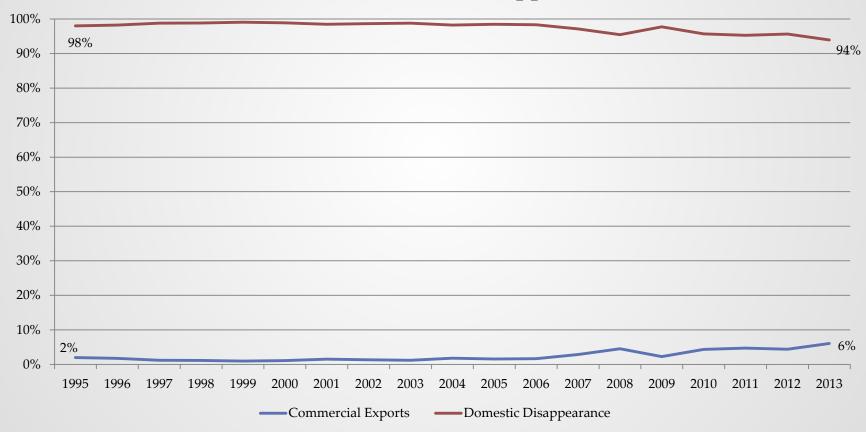
Percent of Total Commercial Disappearance, SNF ME



Source: USDA/FAS/ERS

Exports as a Percentage of Commercial Use

Percent of Total Commercial Disappearance, Fat ME



Source: USDA/FAS/ERS

Anecdotal Evidence

- World demand expected to grow faster than world supply
- China expected to diversify where imports come from for greater food security
- New Partnerships
 - o DFA and Inner Mongolia Yili Industrial Group co of China
 - Allows access to markets
- New platforms being embraced like Global Dairy Trade Auction (GDT)
 - o Dairy America (currently trading)
 - o Land O'Lakes (joins in March)
 - Producing powder without a known buyer or contract
- Setting up shops in new markets like China
 - Land O'Lakes
 - o Leprino Foods
- WMP powder plants
 - o DFA (Fallon, Nevada)
 - Built for export market
 - Darigold (Lynden, Washington)
 - o Michigan Milk Producers Association (Ovid, Michigan)
- USDEC expects US to capture 5%-7% of WMP market in next few years

2014 Outlook

Milk Production

- o Projected modest increase of 4.5 billion pounds
- o Projected number of cows slightly increase by 34 thousand head
- o Projected output per cow increase by 408 pounds
- o Favorable milk prices and feed cost indicate an expansionary period
 - Corn prices projected at \$4.20 to \$4.80 for crop 2013/2014 year.
 Further declines projected for 2014/2015 crop year
 - Soybean meal prices projected at \$425 to \$465 for crop 2013/2014 year. Further declines projected for 2014/2015 crop year
 - Actual Alfalfa prices so far are 15% lower than last year

Domestic Use

 Projected modest increase around 3.6 billion pounds on both a fat and skim solids ME basis

2014 Outlook

Exports

- Projected to be historically strong
- Slight decrease projected from 2013
 - On a fat ME basis exports projected to decrease around 0.9 billion pounds
 - On a skim solids ME basis exports projected to decrease around 0.4 billion pounds
 - Early 2014 expected to show strong exports for US
 - Later in 2014, increased production from Oceania and the EU expected to put downward pressure on US exports

Annual Ending Stocks

- o Projected to increase in 2014
 - 0.8 billion pounds increase in 2014 ending stocks on a fat ME basis
 - 0.4 billion pounds increase in 2014 ending stocks on a skim solids ME basis

2014 Outlook

Prices

- o Strong product prices seen in beginning of 2014
 - CME shown record prices for cheese blocks and barrels
- o Prices projected to remain strong in first quarter of 2014
- Later in 2014, prices projected to slowly decline as Oceania and EU production puts pressure on US exports
- Most 2014 average prices projected to be higher than 2013 average prices
 - Butter price projected between \$1.550 and \$1.650
 - NDM price projected between \$1.785 and \$1.845
 - Cheese price projected between \$1.815 and \$1.885
 - Whey price projected between \$0.56 and \$0.59
 - Class III price projected between \$18.53 and \$19.05
 - Class IV price projected between \$19.80 and \$20.60
 - All milk price projected between \$20.85 and \$21.55

Long-Term Projections

Milk Production

- o Milk production projected to increase between 1.65% to 2.45% year-overyear
- o Number of cows increase projected to increase in 2016 and 2017 and then decrease from 2018 until 2023
- Output per cow projected to increase from 2015 to 2023 at a moderate rate of about 2% per year

Domestic Use

Projected to moderately increase at a lesser rate than exports

Annual Ending Stocks

o Projected to hold at a steady rate throughout the baseline

Long-Term Projections

Exports

- o Fat ME Basis
 - Project strong growth from 2015 to 2017 at an average rate of 7%
 - Projected moderate growth rate from 2018 to 2023 at an average rate of 3%
- o Skim Solids ME Basis
 - Projected moderate growth rate from 2016 to 2023 at an average growth rate of about 2%

Prices

- All-milk price projected to increase in nominal terms at an average rate of 0.8% per year
- Butter and NDM projected to increase in nominal terms at an average rate of 0.8% per year
- Cheese projected to increase in nominal terms at an average rate of 1.1% per year
- Whey projected to increase in nominal terms at an average rate of 0.7% per year

Additional Information

- World Agricultural Supply and Demand Estimates http://www.usda.gov/oce/commodity/wasde/indexx.htm
- Milk Marketing Order Statistics
 http://www.ams.usda.gov/AMSv1.0/DairyMarketStatistics
- Dairy Market News
 http://www.marketnews.usda.gov/portal/da
- Livestock, Dairy, and Poultry Situation and Outlook <u>www.ers.usda.gov/publications/ldp/</u>
- Dairy: World Markets and Trade http://www.fas.usda.gov/dlp/dairy/dairy.asp

Questions?