

Cattle and Beef Markets: Short and Long Run Challenges and Opportunities



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Oklahoma State University

Current Market Situation

- Global
- U.S. Economy
- Agriculture
- Cattle Industry

2012 Recap

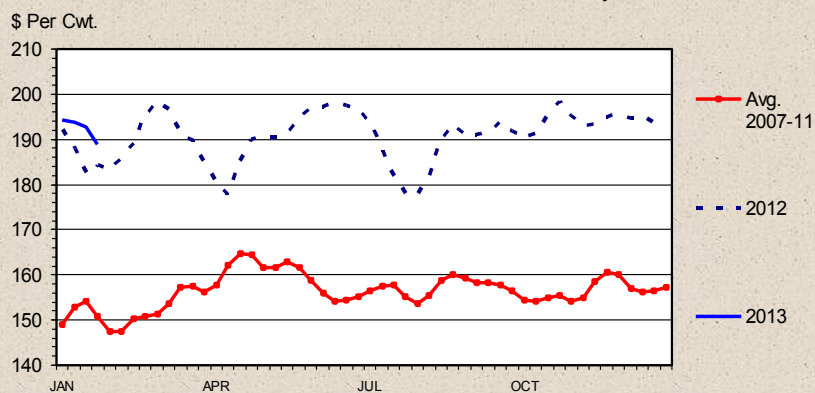
- Widespread drought in U.S.
 - Continued herd liquidation
 - Not as severe in Oklahoma this summer
 - Limited water and forage for winter
- Record high grain and forage prices
- Record high cattle prices
 - Reduced cow-calf profitability
 - Poor feedlot and packer margins
- Higher wholesale and retail beef prices
 - Limited beef demand
 - Weaker beef exports

Major Beef Market Factors

- Cattle Inventory and Beef Production
- Beef Demand
- International Trade
- Feed and Input Markets
- Forage Conditions

BOXED BEEF CUTOUT VALUE

Choice 600-900 Lbs. Carcass, Weekly

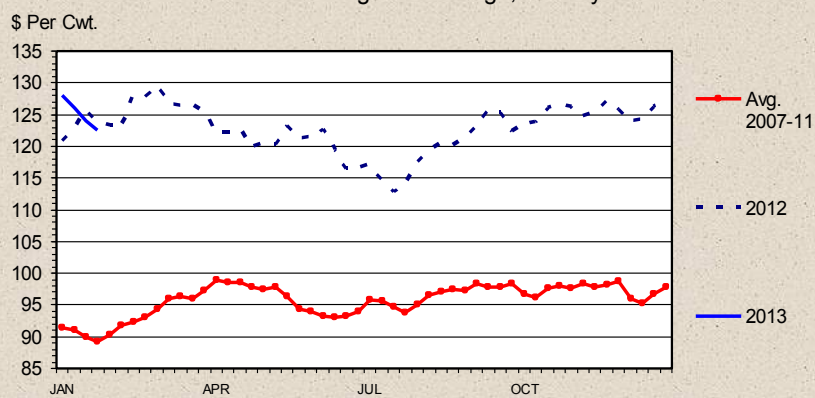


Livestock Marketing Information Center
Data Source: USDA-AMS

C-P-62
01/28/13

SLAUGHTER STEER PRICES

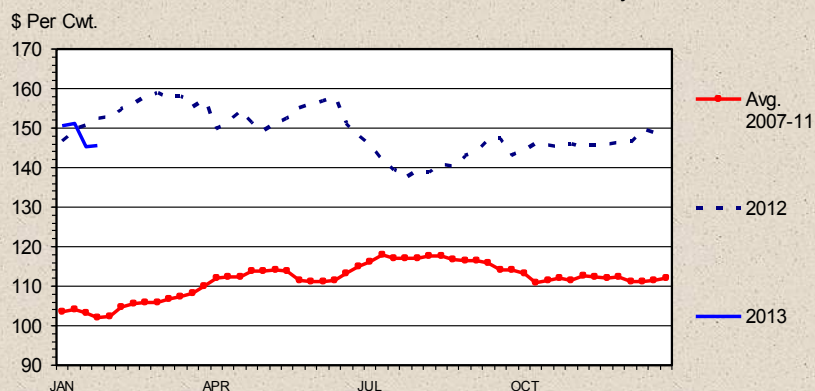
5 Market Weighted Average, Weekly



Livestock Marketing Information Center
Data Source: USDA-AMS

MED. & LRG. #1 FEEDER STEER PRICES

700-800 Pounds, Southern Plains, Weekly

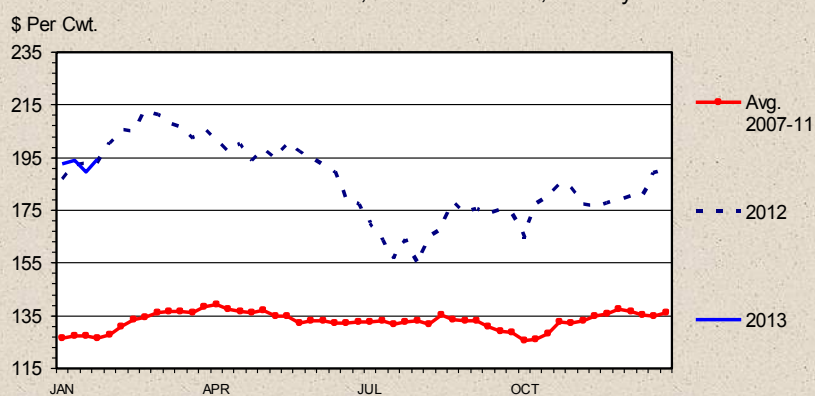


Livestock Marketing Information Center
Data Source: USDA-AMS, Compiled & Analysis by LMIC

C-P-49
01/28/13

MED. & LRG. #1 STEER CALF PRICES

400-500 Pounds, Southern Plains, Weekly

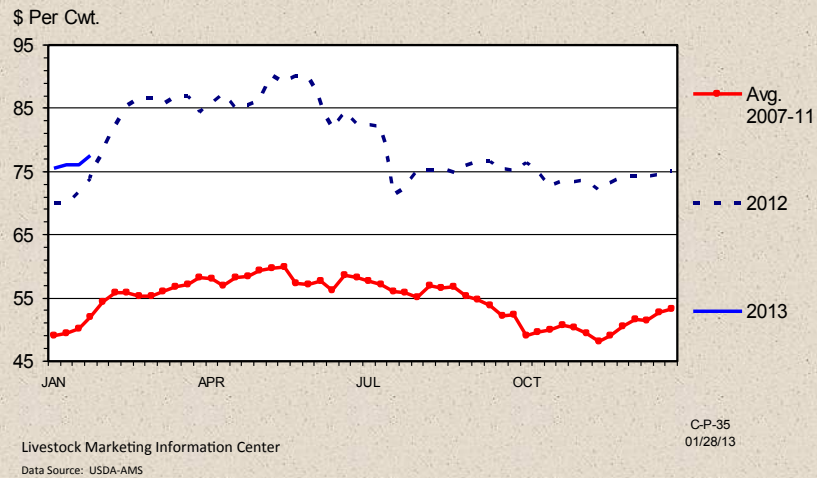


Livestock Marketing Information Center
Data Source: USDA-AMS, Compiled & Analysis by LMIC

C-P-49A
01/28/13

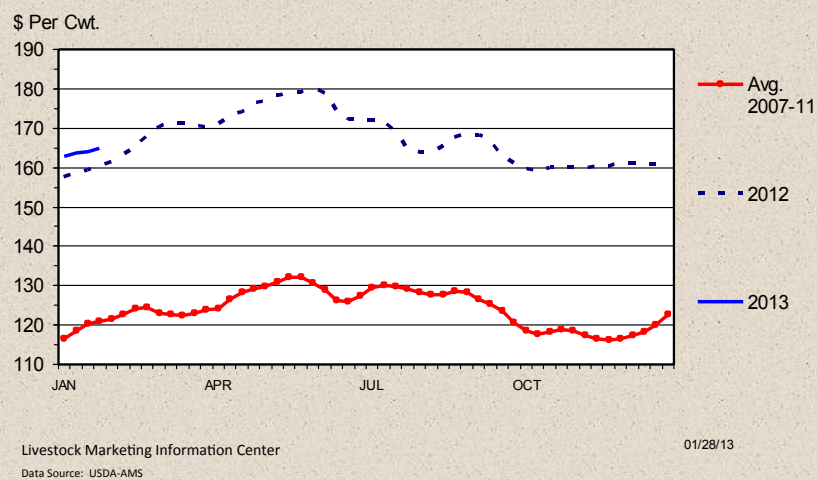
SLAUGHTER COW PRICES

Southern Plains, 85-90% Lean, Weekly

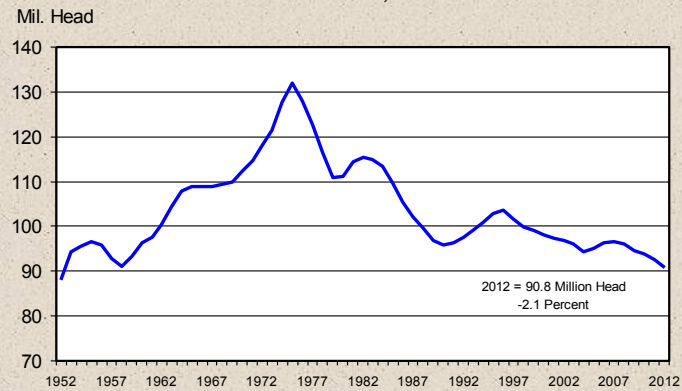


BOXED COW-BEEF CUTOUT VALUE

Cutter Cow, Weekly



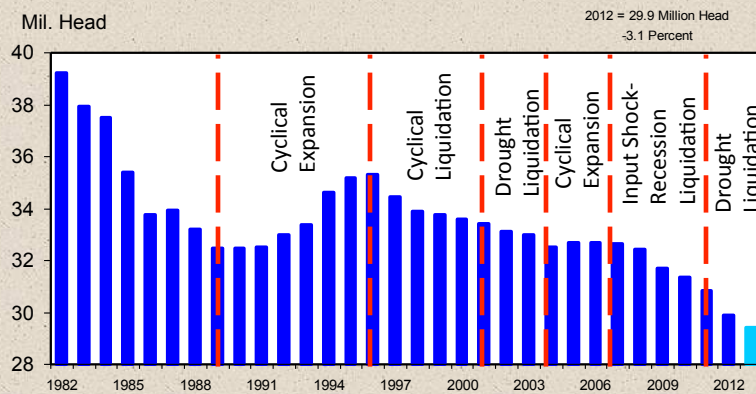
JANUARY 1 TOTAL CATTLE INVENTORY U.S., Annual



Livestock Marketing Information Center
Data Source: USDA-NASS

C-N-01
01/29/12

JANUARY 1 BEEF COW INVENTORY U.S., Annual

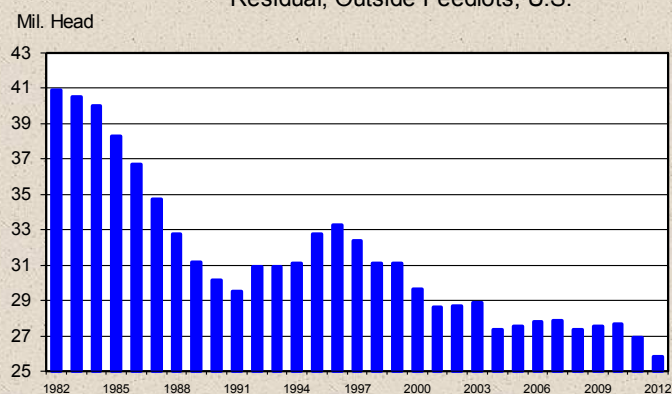


Livestock Marketing Information Center
Data Source: USDA-NASS

C-N-02
01/29/12

JANUARY 1 FEEDER CATTLE SUPPLIES

Residual, Outside Feedlots, U.S.

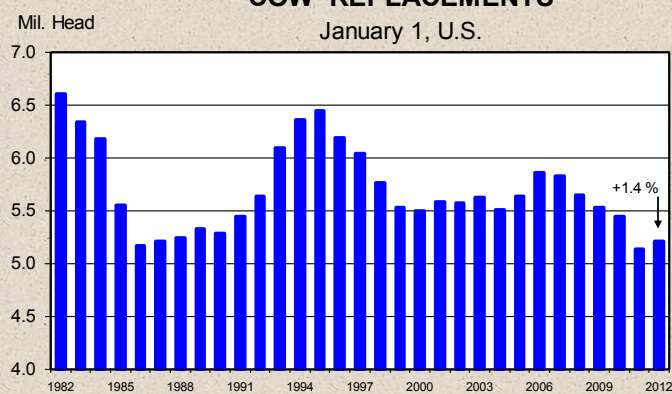


Livestock Marketing Information Center
Data Source: USDA-NASS

C-N-30
07/20/12

HEIFERS HELD AS BEEF COW REPLACEMENTS

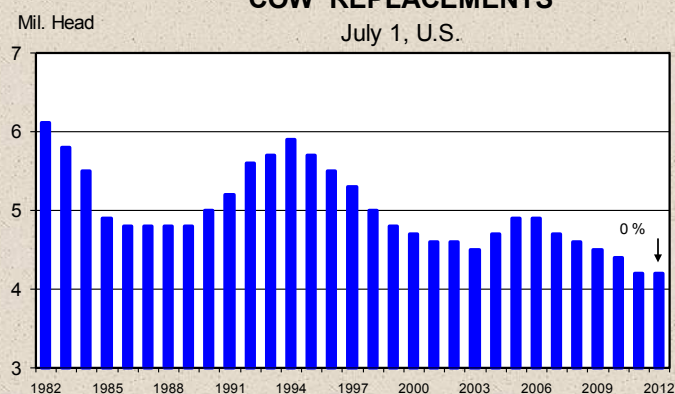
January 1, U.S.



Livestock Marketing Information Center
Data Source: USDA-NASS

C-N-38
07/20/12

HEIFERS HELD AS BEEF COW REPLACEMENTS

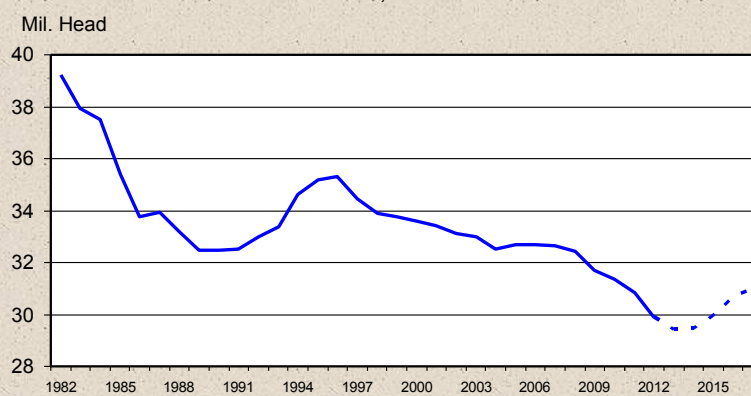


Livestock Marketing Information Center
Data Source: USDA-NASS

C-N-37
07/20/12

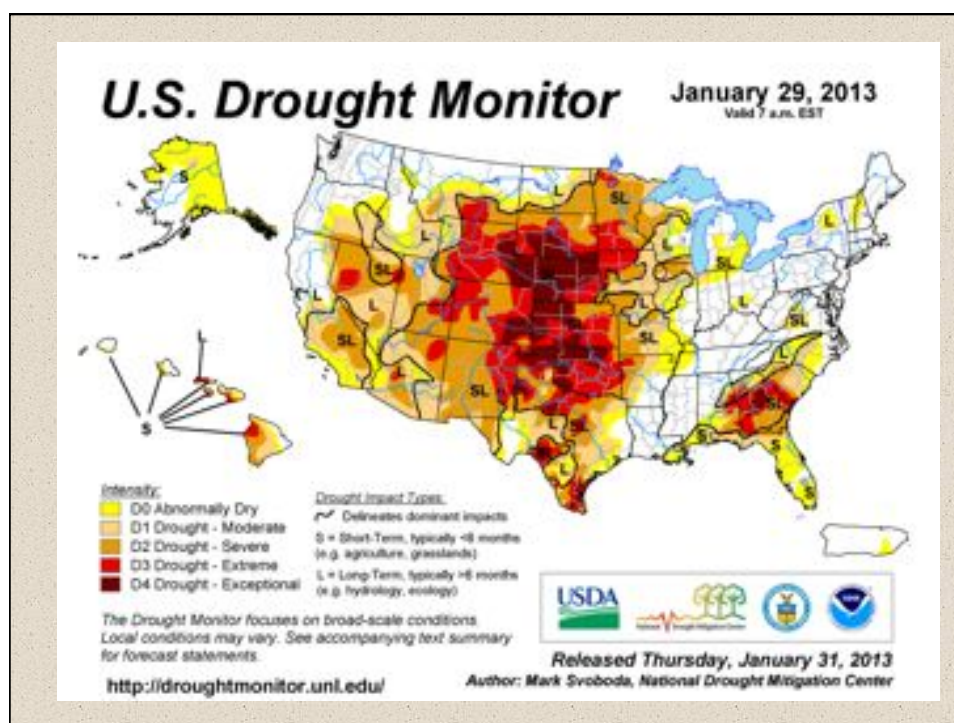
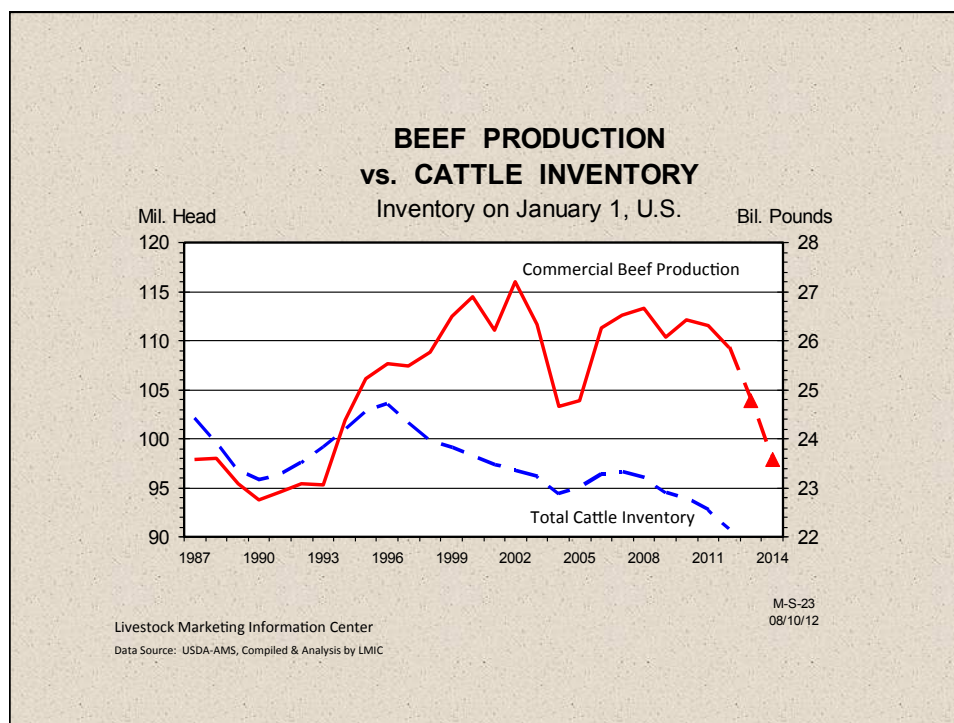
JANUARY 1 BEEF COW INVENTORY

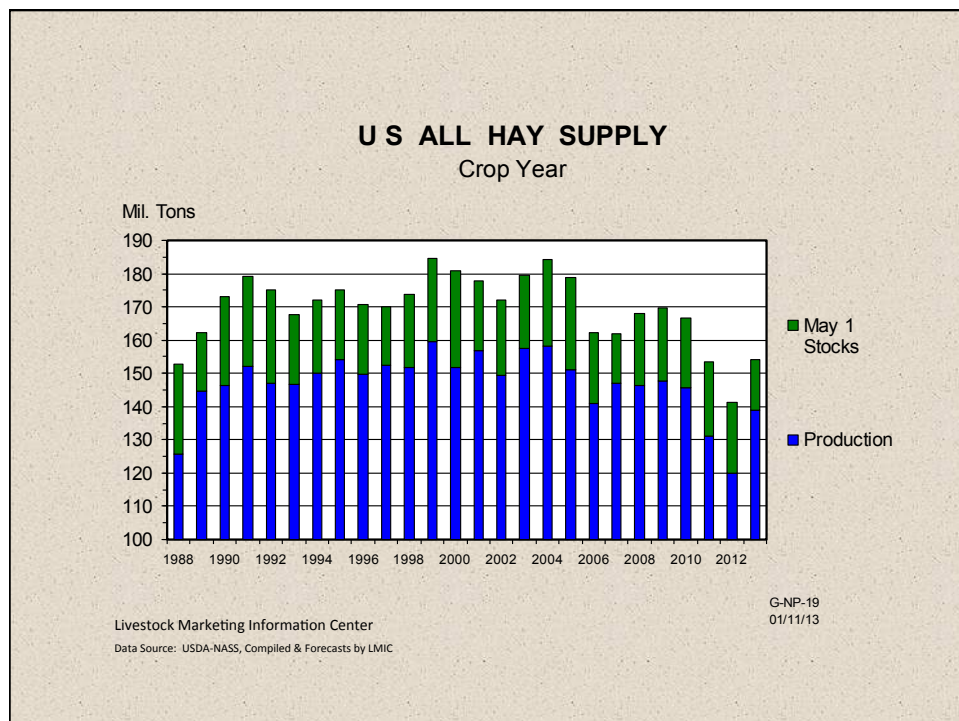
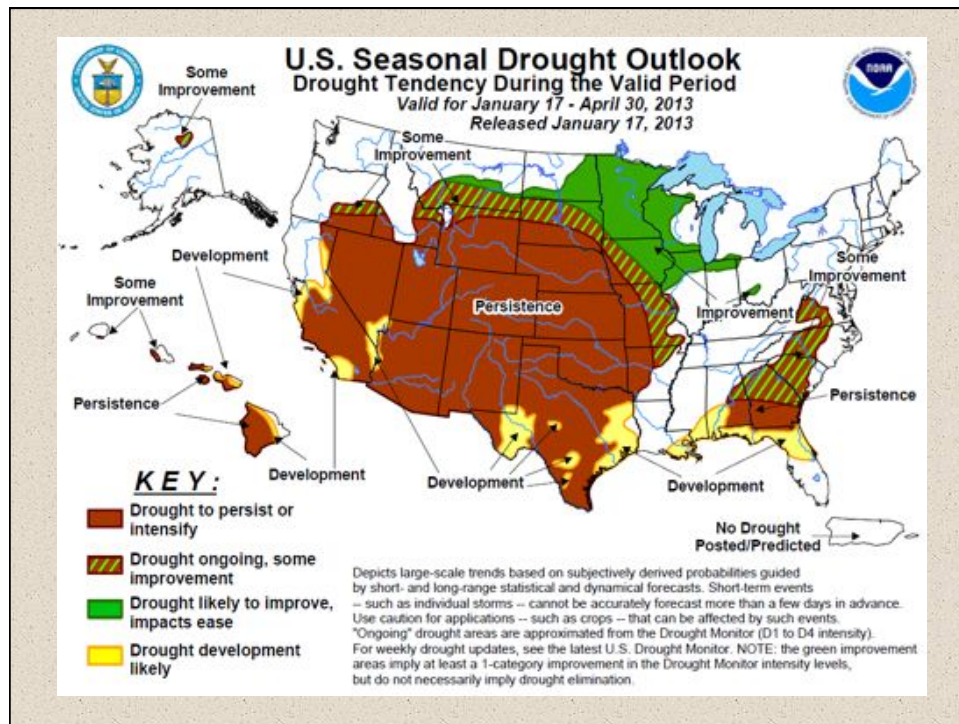
U.S., Annual



Analysis by Derrell Peel
Data Source: USDA-NASS

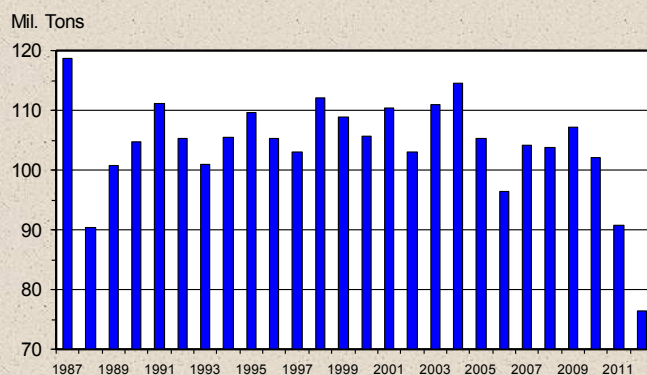
C-N-02
01/29/12





U S ALL HAY STOCKS

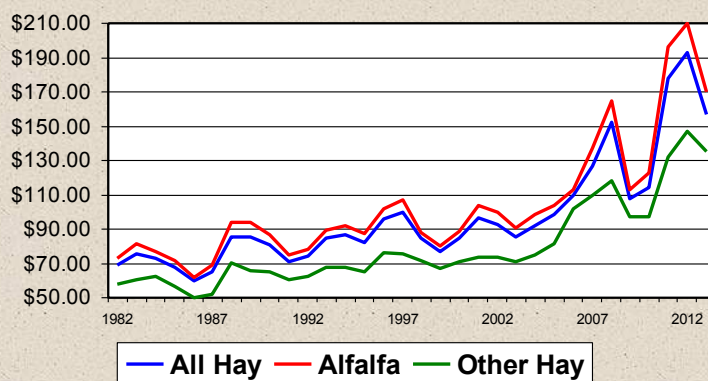
December 1

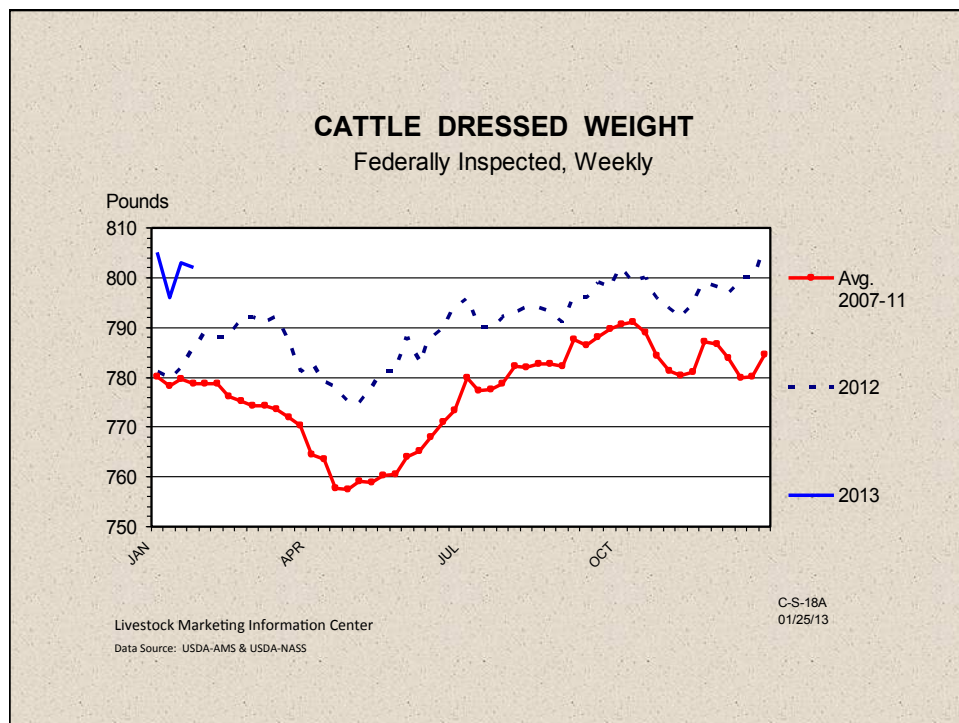
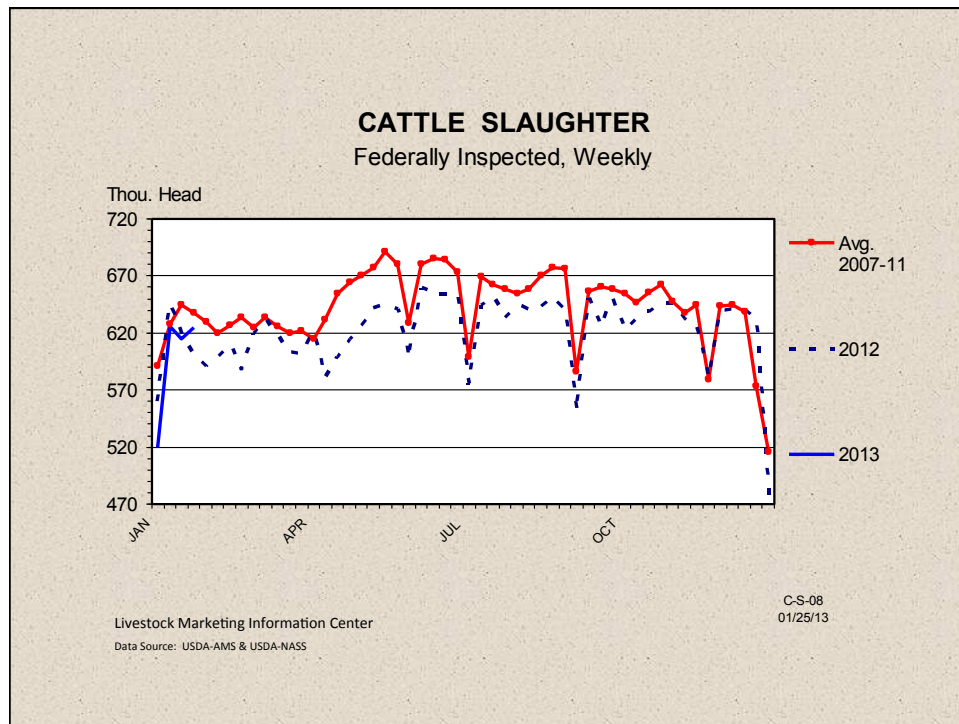


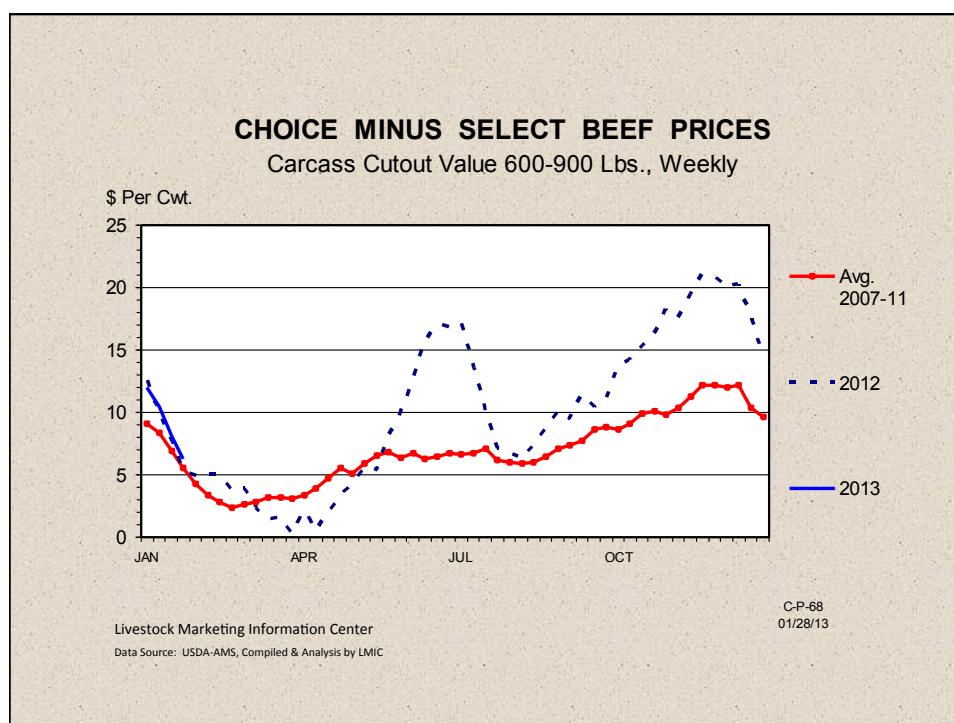
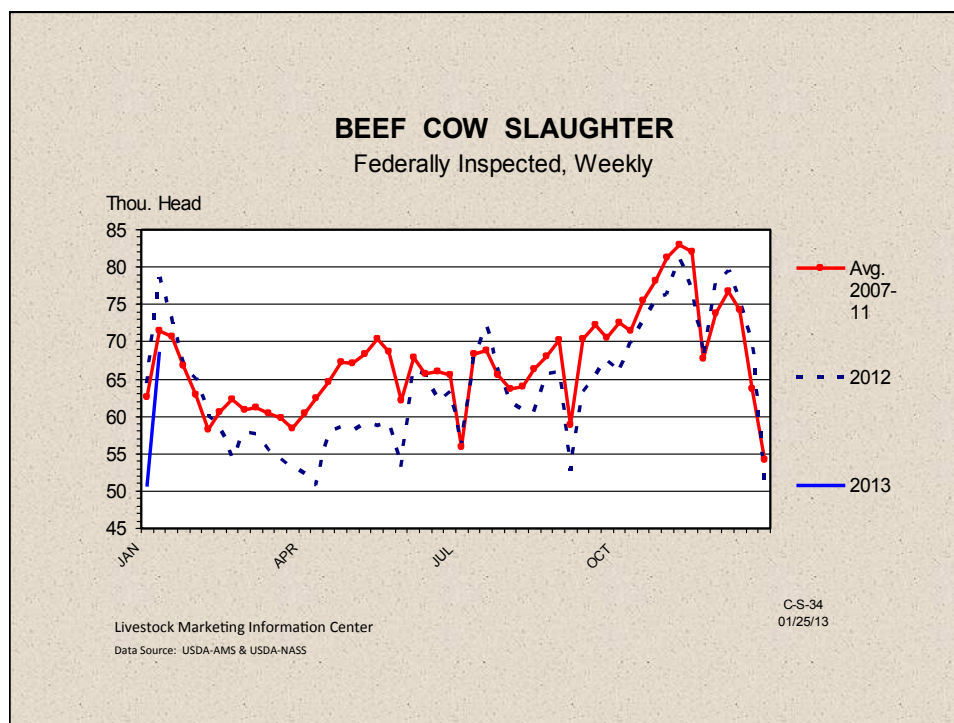
Livestock Marketing Information Center
Data Source: USDA-NASS, Compiled & Forecasts by LMIC

G-NP-22
01/11/13

Hay Price, \$/ton

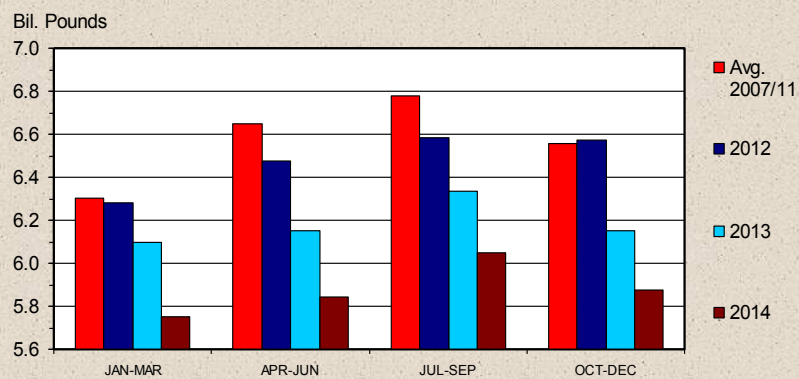






COMMERCIAL BEEF PRODUCTION

Quarterly

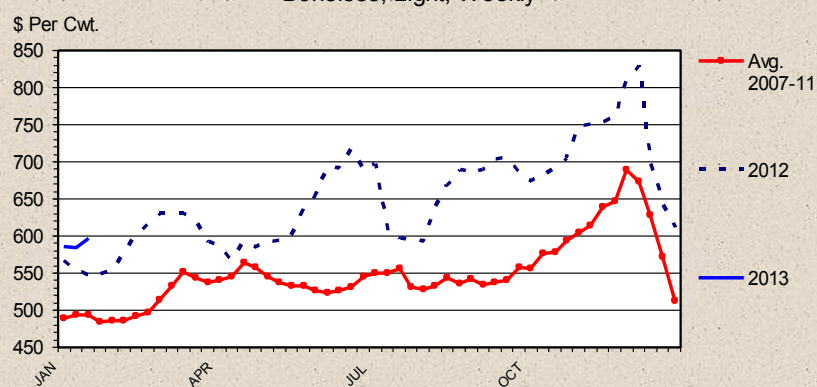


Livestock Marketing Information Center
Data Source: USDA-NASS, Compiled & Analysis by LMIC

M-S-01
01/29/13

WHOLESALE BEEF RIBEYE PRICES

Boneless, Light, Weekly

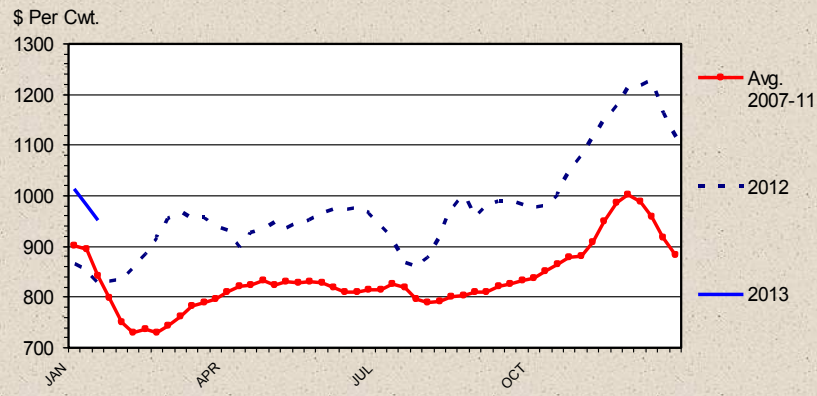


Livestock Marketing Information Center
Data Source: USDA-AMS

M-P-21
01/24/13

WHOLESALE BEEF FULL TENDER PRICES

Musl-On, 5 Pounds and Up, Weekly

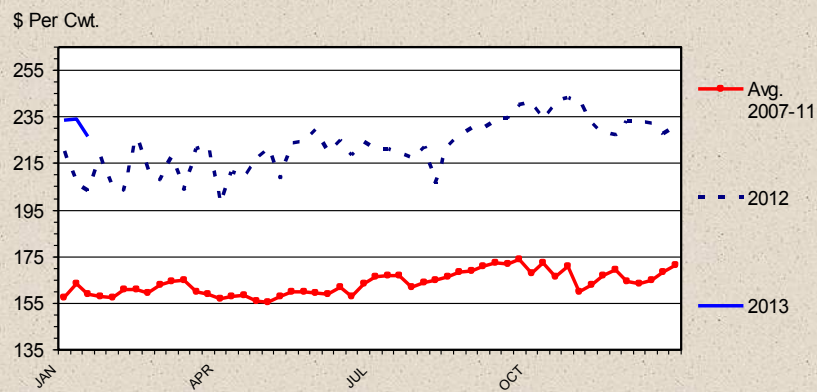


Livestock Marketing Information Center
Data Source: USDA-AMS

M-P-23
01/24/13

WHOLESALE BEEF CHUCK PRICES

Boneless 2 Piece, Weekly

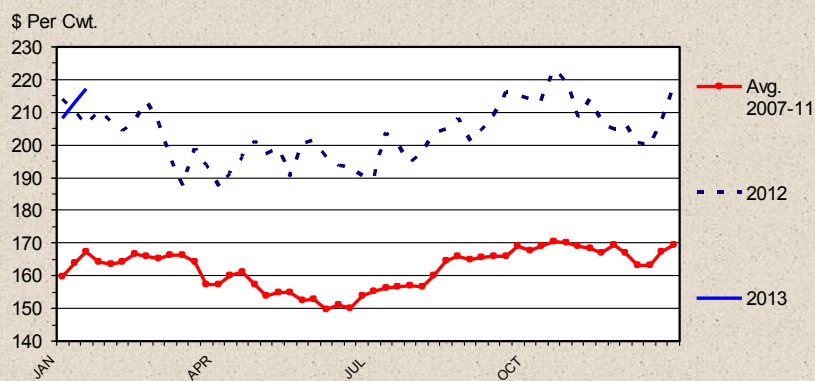


Livestock Marketing Information Center
Data Source: USDA-AMS

01/24/13

WHOLESALE BEEF BOTTOM ROUND PRICES

18-33 Pounds, Weekly

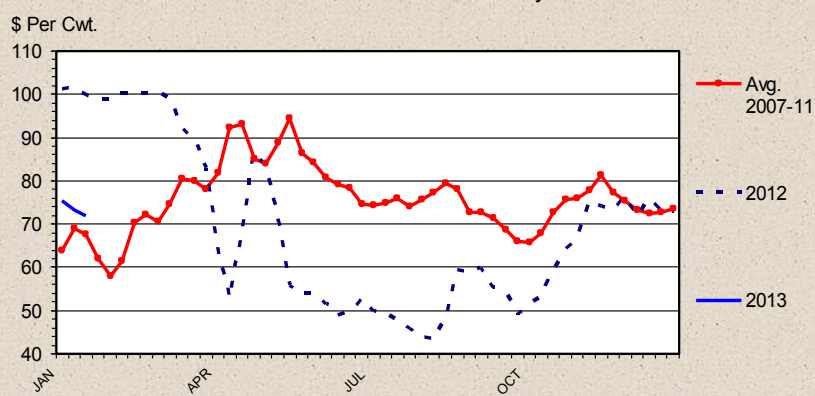


Livestock Marketing Information Center
Data Source: USDA-AMS

M-P-22
01/24/13

WHOLESALE BONELESS BEEF PRICES

Fresh, 50% Lean, Weekly

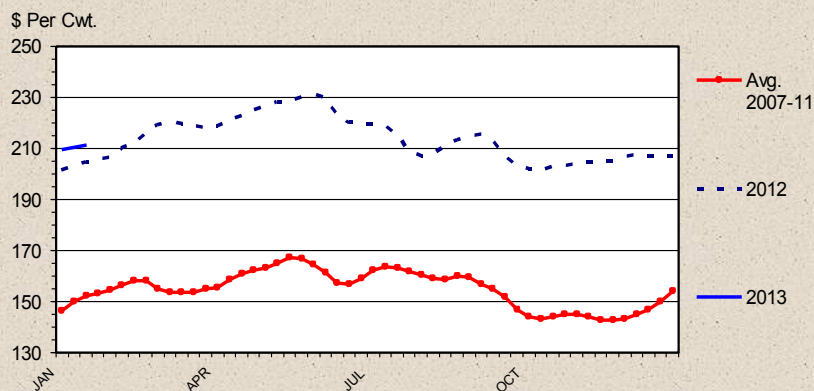


Livestock Marketing Information Center
Data Source: USDA-AMS

M-P-25
01/24/13

WHOLESALE BONELESS BEEF PRICES

Fresh, 90% Lean, Weekly

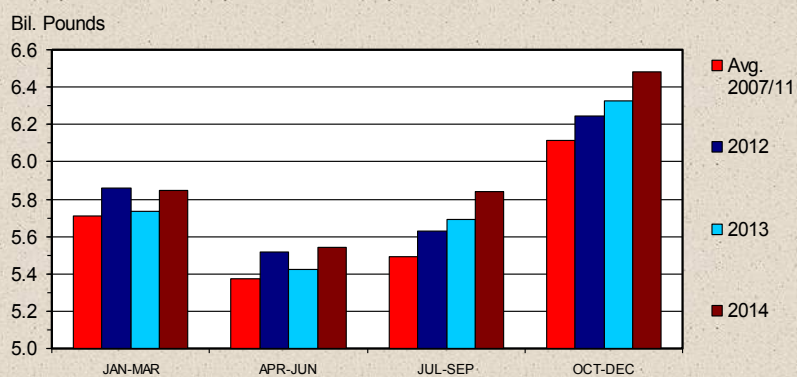


Livestock Marketing Information Center
Data Source: USDA-AMS

M-P-24
01/24/13

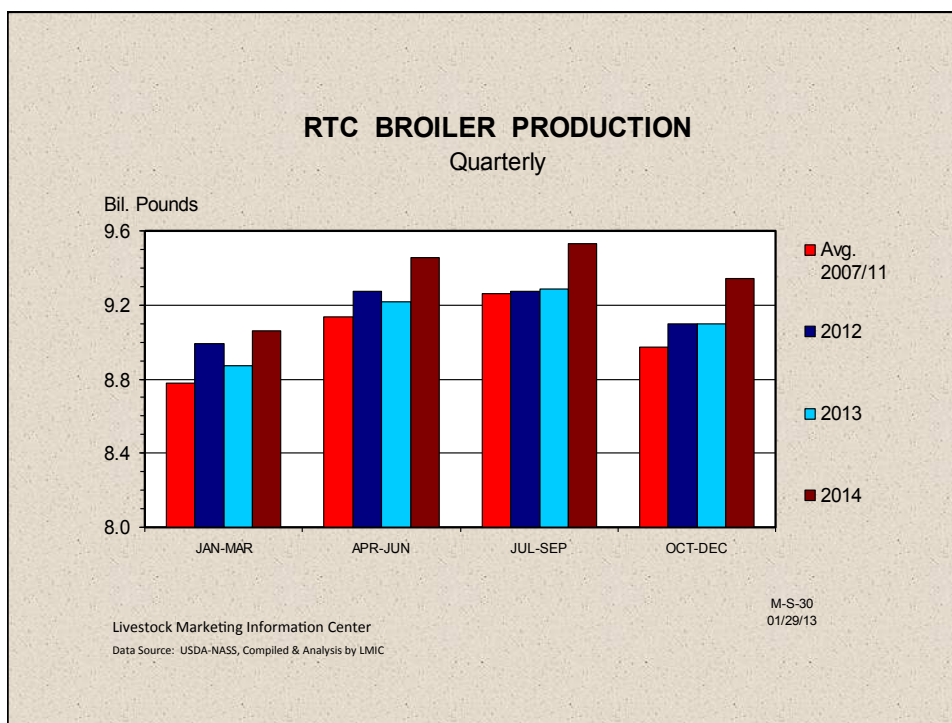
COMMERCIAL PORK PRODUCTION

Quarterly



Livestock Marketing Information Center
Data Source: USDA-NASS, Compiled & Analysis by LMIC

M-S-06
01/29/13



Total Meat Supplies Down in 2013

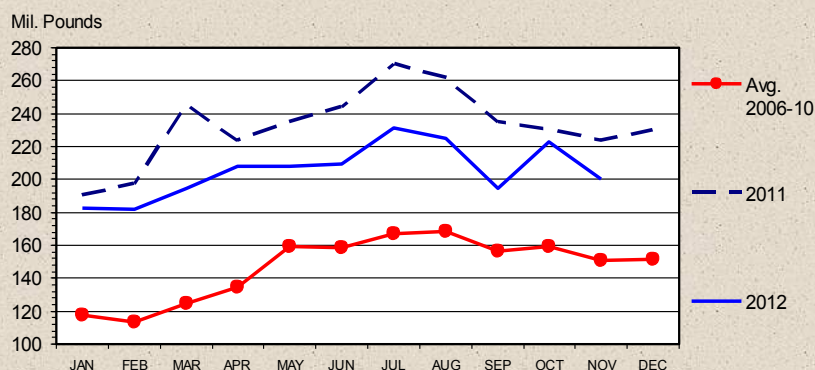
	2011	2012	2013
• Beef	↓0.4%	↓1.1%	↓4.5%
• Pork	↑1.4%	↑ 2.2%	↓0.3%
• Broilers	↑0.8%	↓0.7%	0.0%
• Total Meat	↑0.7%	0.0%	↓1.9%

2013 Cattle Market Environment

- Continued drought?
 - More liquidation
- ...Or normal weather
 - More heifer retention
- Tighter cattle supplies...into 2014
- Beef demand is the key unknown
 - tied to general economy

U S BEEF AND VEAL EXPORTS

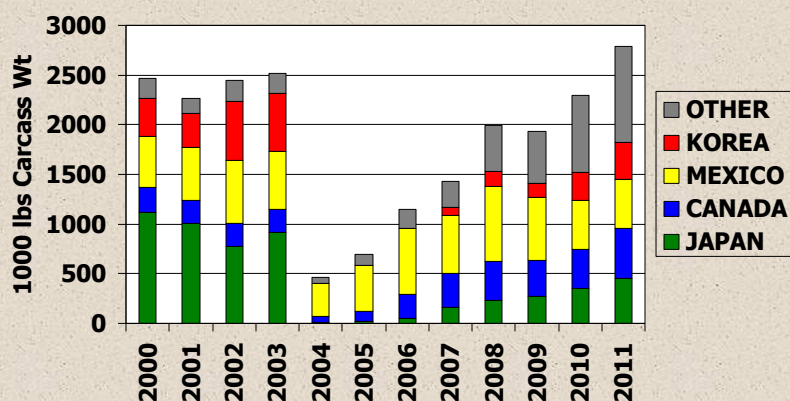
Carcass Weight, Monthly



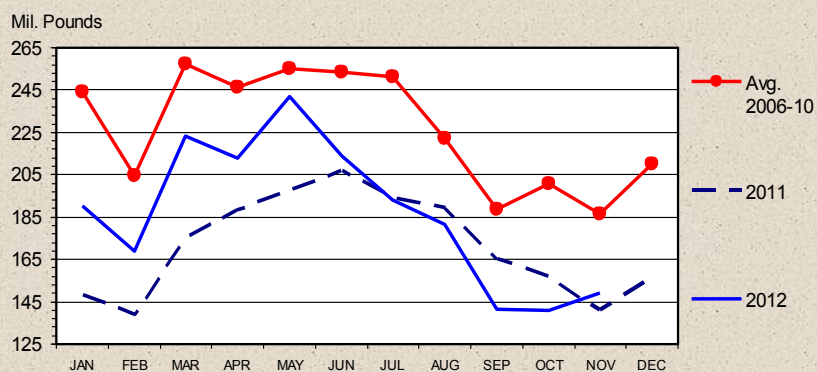
Livestock Marketing Information Center
Data Source: USDA-ERS & USDA-FAS

I-N-16
01/14/13

U.S. Beef Exports Major Markets



U S BEEF AND VEAL IMPORTS Carcass Weight, Monthly

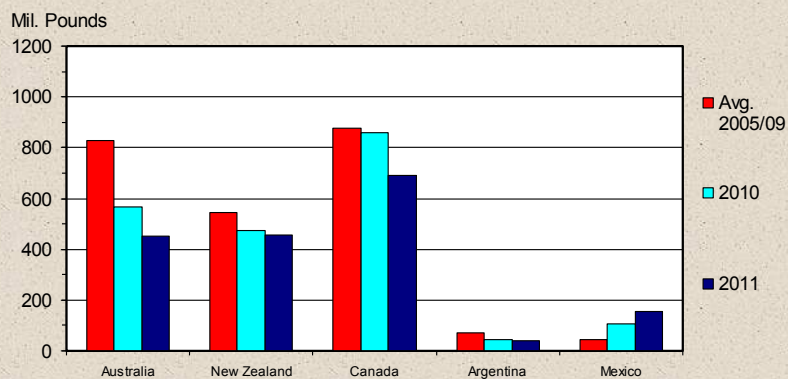


Livestock Marketing Information Center
Data Source: USDA-ERS & USDA-FAS

I-N-15
01/14/13

MAJOR U S BEEF IMPORT SOURCES

Carcass Weight, Annual

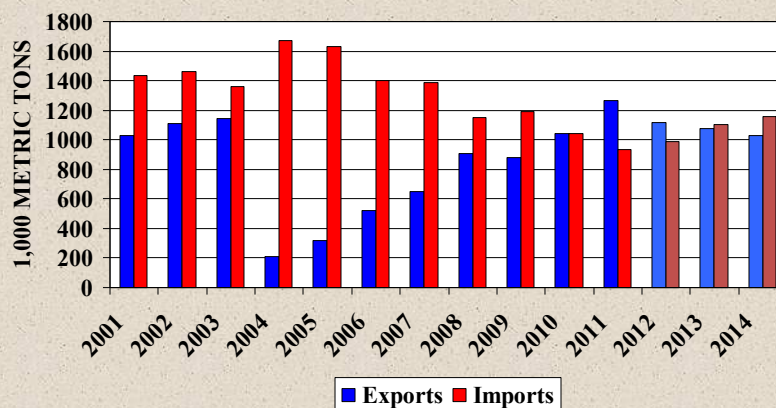


Livestock Marketing Information Center

Data Source: USDA-ERS & USDA-FAS, Compiled & Analysis by LMIC

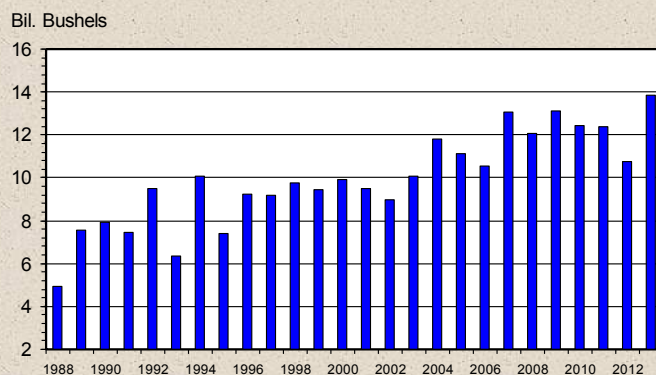
United States: Beef Trade

2012-2014 Projected



U S ANNUAL CORN PRODUCTION

Crop Year

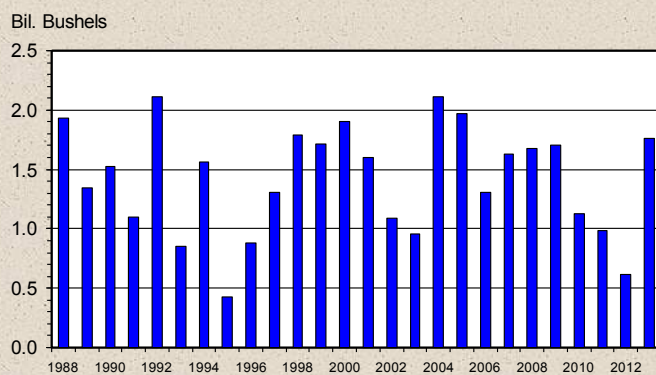


Livestock Marketing Information Center
Data Source: USDA-NASS, Compiled & Forecasts by LMIC

G-NP-07
01/11/13

U S ANNUAL CORN ENDING STOCKS

Crop Year

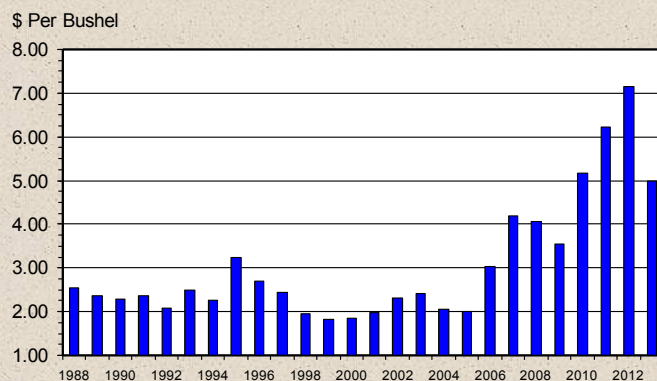


Livestock Marketing Information Center
Data Source: USDA-NASS, Compiled & Forecasts by LMIC

G-NP-09
01/11/13

NATIONAL AVERAGE CORN PRICE

Crop Year, Received by Farmers

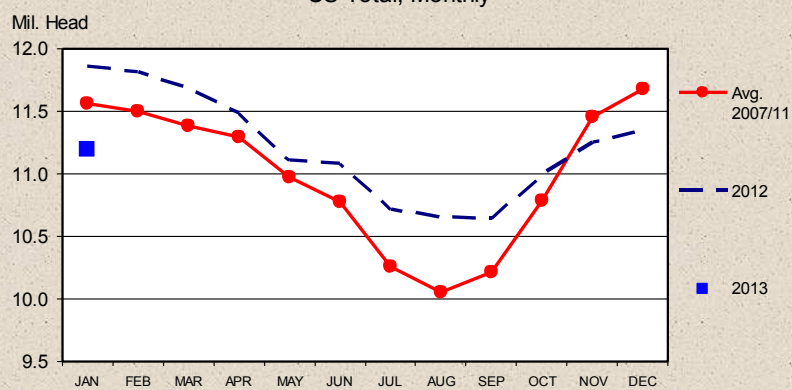


Livestock Marketing Information Center
Data Source: USDA-NASS, Compiled & Forecasts by LMIC

G-NP-03
01/11/13

CATTLE ON FEED

US Total, Monthly

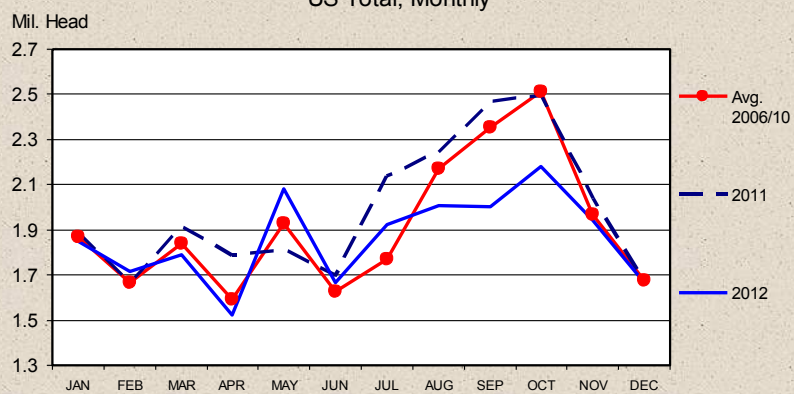


Livestock Marketing Information Center
Data Source: USDA-NASS

C-N-10
01/25/13

FEEDLOT PLACEMENTS

US Total, Monthly

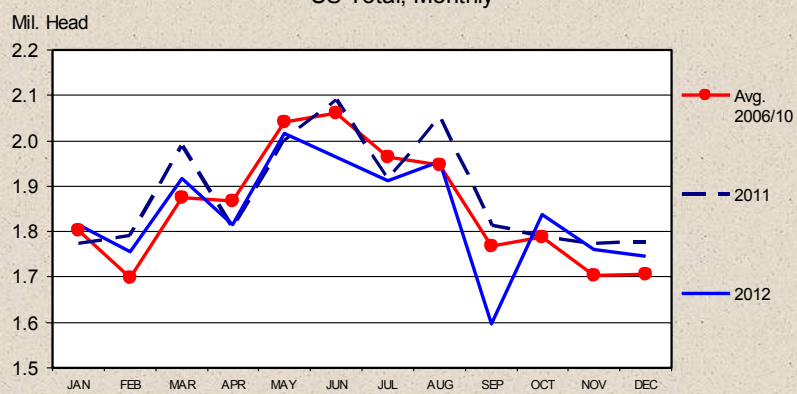


Livestock Marketing Information Center
Data Source: USDA-NASS

C-N-08
01/25/13

FED CATTLE MARKETINGS

US Total, Monthly

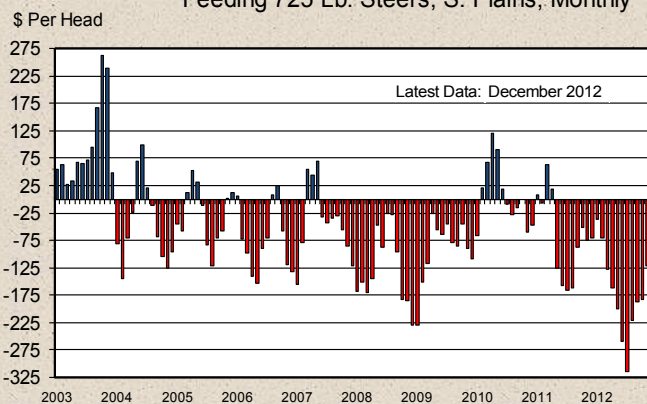


Livestock Marketing Information Center
Data Source: USDA-NASS

C-M-11
01/25/13

AVERAGE RETURNS TO CATTLE FEEDERS

Feeding 725 Lb. Steers, S. Plains, Monthly



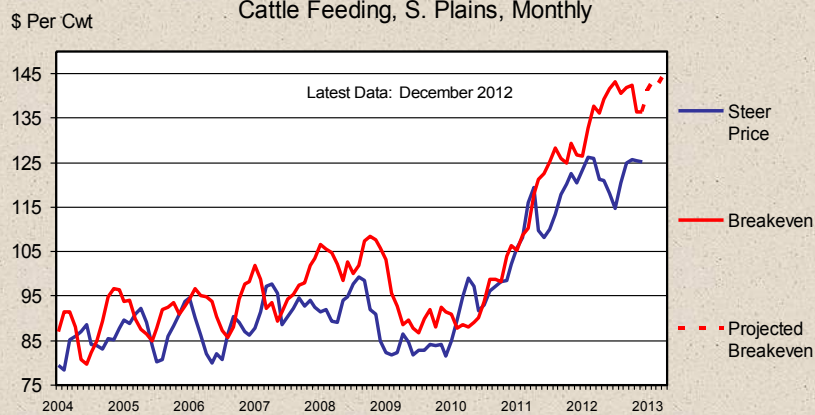
C-P-22
01/02/13

Livestock Marketing Information Center

Data Source: USDA-AMS & USDA-NASS, Compiled & Analysis by LMIC

CHOICE STEER PRICE vs BREAKEVEN

Cattle Feeding, S. Plains, Monthly



C-P-21
01/02/13

Livestock Marketing Information Center

Data Source: USDA-AMS & USDA-NASS, Compiled & Analysis by LMIC

2013 Cattle Market Expectations

- Cattle and beef prices pushed higher by limited supplies
 - Beef production down by 4.5-5.0%
- Beef demand will limit price increases
- Question is “How much higher?”
- Moderation in feed prices
- Higher cow and heifer prices (if no drought)
 - Breeding cow and heifer demand

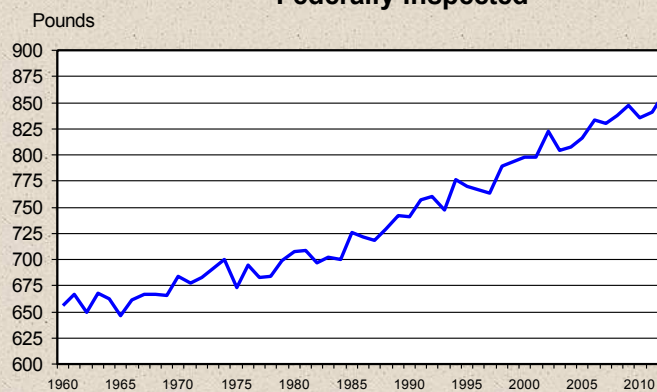
Agricultural Challenges

- Agriculture is being asked to do more of everything...
 - Biofuels
 - Global food demand
- ...with more restrictions and challenges
 - Environmental limitations
 - Anti-science/anti-commercial mentality
 - Social agendas that threaten agriculture
- Resource pressures in agriculture
 - More competition among crops for acres
 - More competition from crops for forage and hay production
- High and volatile input prices

Cattle Industry Evolution 1960s-2006

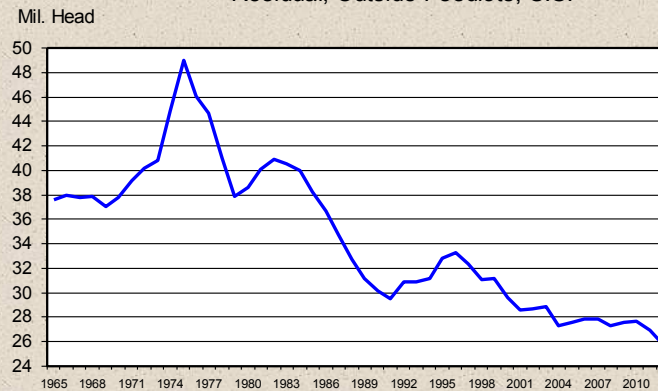
- Built on cheap energy and cheap grain
- Increasingly grain intensive
- Limited stocker role (more calves in feedlots)
- Influence on production systems
 - Animal genetics (carcass weights)
 - Type and use of technology
- Industry infrastructure (location and capacity)
 - Cattle feeding
 - Meat packing

**Steer Carcass Weight
Federally Inspected**



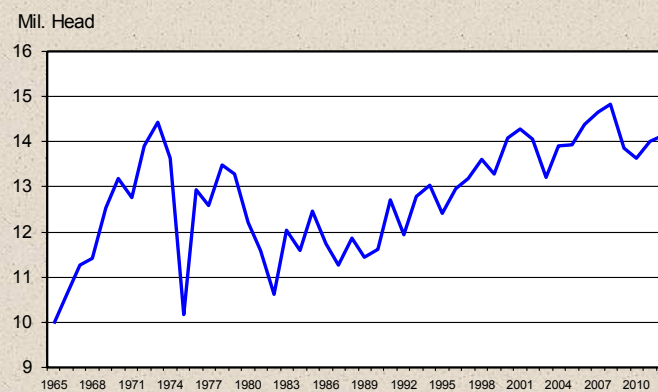
JANUARY 1 FEEDER CATTLE SUPPLIES

Residual, Outside Feedlots, U.S.



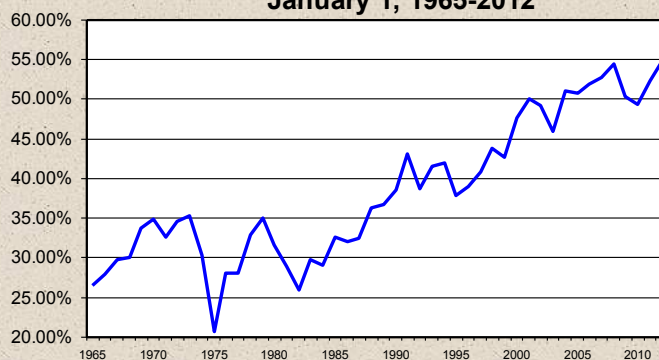
Data Source: USDA-NASS, Calculations by Derrell Peel

JANUARY 1 CATTLE ON FEED

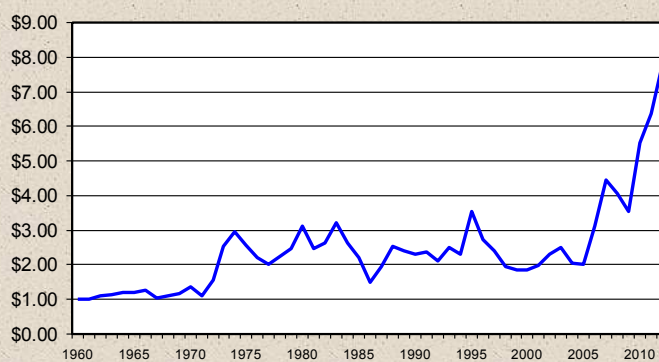


Data Source: USDA-NASS, Calculations by Derrell Peel

Cattle on Feed as % of Estimated Feeder Supplies
January 1, 1965-2012



Corn Price
Crop year average, 1960-2012



2012 Projected

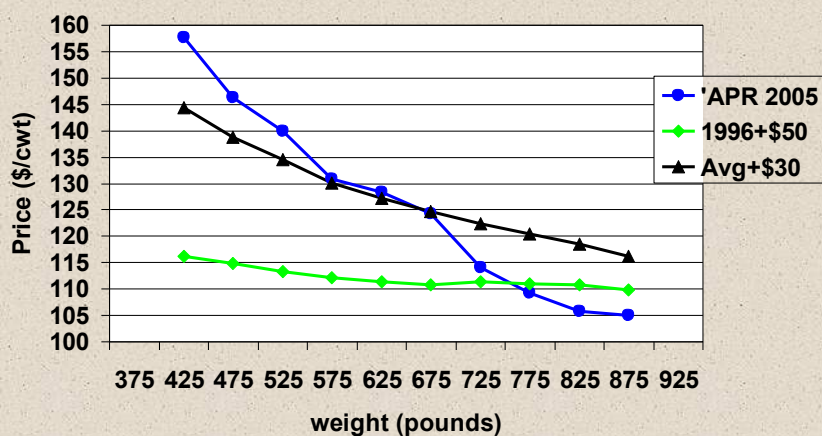
It is often said:

*“The Beef Industry Can Survive
High Corn Prices Better Than the
Pork and Poultry Industries”*

- True statement?
- What are the implications for the beef industry?



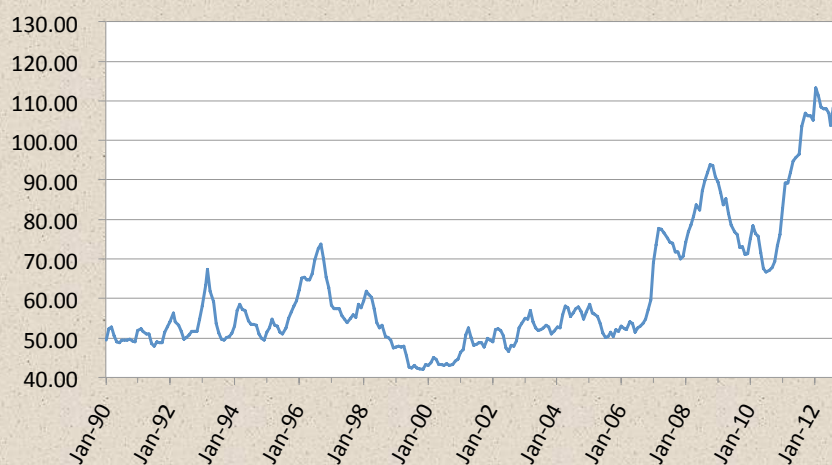
Price-Weight Relationship
Medium/Large No. 1 Steers



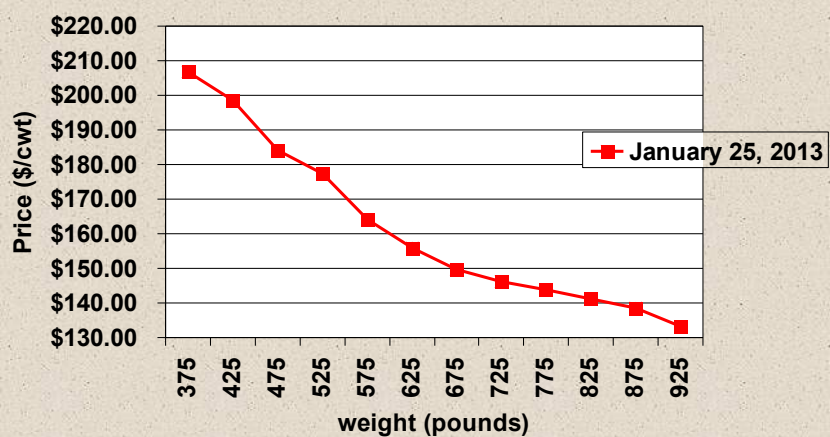
Stocker Value of Gain, Average Weekly, 1992-2006

Weight Gain	Beg. Weight	Weeks									
		12	15	16	17	18	19	20	22	23	24
200 lbs	ADG>>	2.38		1.79		1.58		1.43			
	475	0.559		0.568		0.572		0.576			
	525	0.571		0.581		0.586		0.587			
	575	0.583		0.593		0.596		0.598			
	625	0.579		0.590		0.592		0.592			
250 lbs	ADG>>		2.38		2.10		1.88			1.55	
	475		0.571		0.575		0.577			0.579	
	525		0.573		0.578		0.579			0.581	
	575		0.582		0.587		0.587			0.588	
300 lbs	ADG>>					2.38		2.14	1.95		1.55
	475					0.571		0.573	0.574		0.575
	525					0.573		0.575	0.575		0.576

Feedlot Cost of Gain Kansas, \$/cwt.



Price-Weight Relationship
Medium/Large No. 1 Steers, 7-markets, Oklahoma

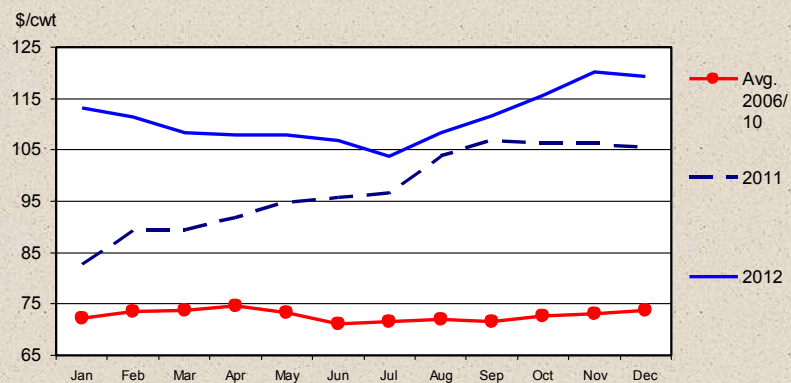


Steer Price, Total Value and Value of Gain
 January 25, 2013, 7 Markets, Oklahoma

Weight (lbs)	Average Price (\$/cwt.)	Total Value (\$/hd)	VOG 400 lb. Beg. Weight (\$/lb.)	VOG 450 lb. Beg. Weight (\$/lb.)	VOG 500 lb. Beg. Weight (\$/lb.)	VOG 550 lb. Beg. Weight (\$/lb.)	VOG 600 lb. Beg. Weight (\$/lb.)	VOG 650 lb. Beg. Weight (\$/lb.)
400	\$203.34	\$813						
450	\$191.21	\$860	\$0.94					
500	\$180.57	\$903	\$0.89	\$0.85				
550	\$170.33	\$937	\$0.82	\$0.76	\$0.68			
600	\$158.40	\$950	\$0.69	\$0.60	\$0.48	\$0.27		
650	\$151.77	\$986	\$0.69	\$0.63	\$0.56	\$0.50	\$0.72	
700	\$147.84	\$1,035	\$0.74	\$0.70	\$0.66	\$0.65	\$0.84	\$0.97
750	\$145.17	\$1,089	\$0.79	\$0.76	\$0.74	\$0.76	\$0.92	\$1.02
800	\$142.62	\$1,141	\$0.82	\$0.80	\$0.79	\$0.82	\$0.95	\$1.03
850	\$139.72	\$1,188	\$0.83	\$0.82	\$0.81	\$0.84	\$0.95	\$1.01
900	\$136.87	\$1,232	\$0.84	\$0.83	\$0.82	\$0.84	\$0.94	\$0.98

KANSAS FEEDLOT CLOSEOUTS

Feeding Costs per Cwt, Steers



Data Source: KSU Focus on Feedlots, Compiled by LMIC

01/28/13

Corn Price and Estimated Feedlot Cost of Gain

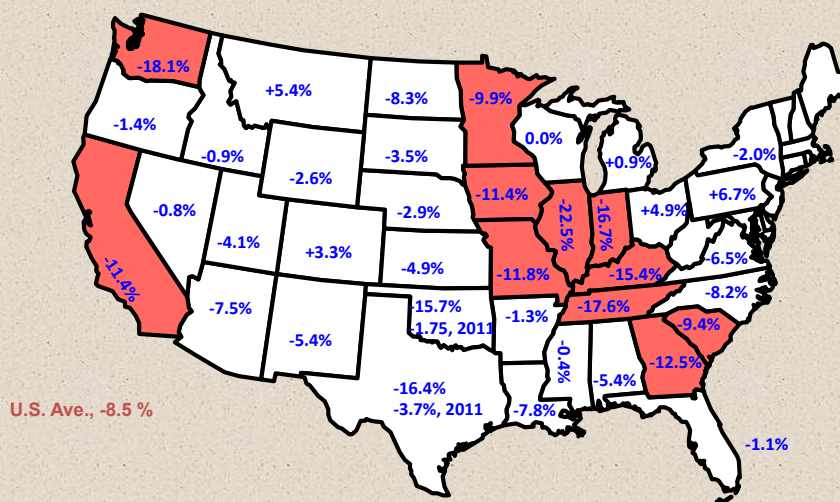
Based on Kansas Feedlot Data

Corn Price \$/Bu	Estimated Feedlot Cost of Gain \$/cwt.
5.00	87.1
5.50	92.5
6.00	97.8
6.25	100.3
6.50	102.9
6.75	105.4
7.00	107.8
7.25	110.3
7.50	112.7
7.75	115.0
8.00	117.4
8.25	119.7
8.50	122.0

Permanently Higher Grain Prices is a Game Changer for the Beef Industry

- Change from grain intensive to forage intensive to maintain competitiveness
 - Must emphasize ruminant advantages
 - Enhanced role for stocker production
- Influence on production systems
 - Animal genetics (change animal size?)
 - Type and use of technology?
 - Better forage management
 - New forages?
 - New forage systems?
- Industry infrastructure (location and capacity)
 - Different feeding industry?
 - Regional shifts in cattle feeding, cow-calf and stocker production

Change in Beef Cow Inventory, January 1, 2007-2012



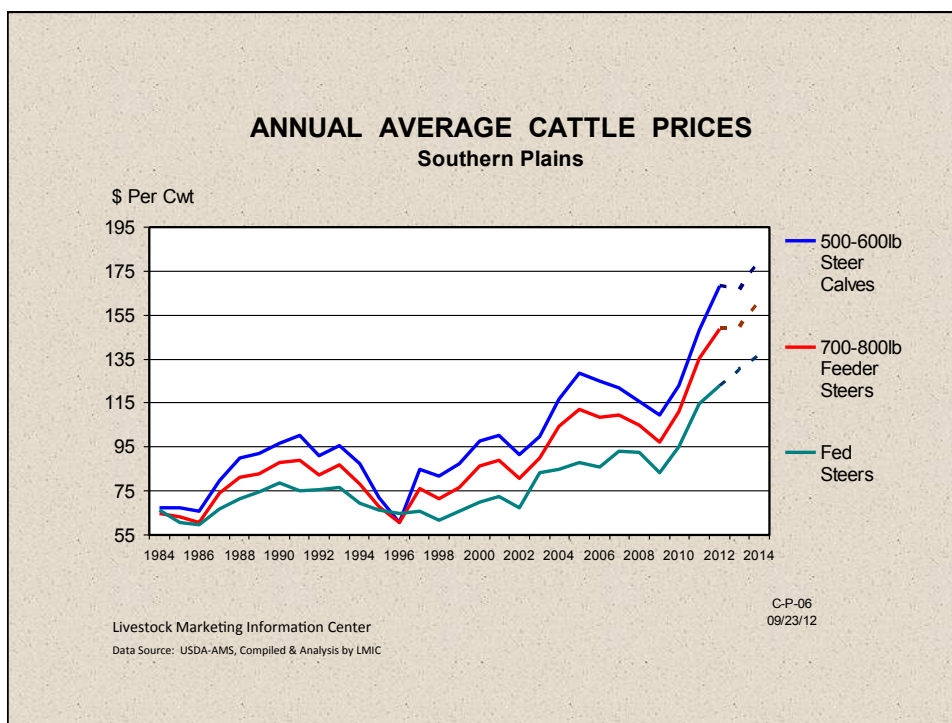
Future Forage Use in the U.S.

- 1) Use more forage
- 2) Use forage more efficiently
- 3) Manage forage more efficiently
- 4) Use different forages
- 5) Use forages differently

The Industry Faces New Questions

- For the last 4-5 decades:
 - “How can we get cattle to use more grain?”
- For the coming decades:
 - “How can we produce high quality beef using the least amount of grain?”
 - Expanded forage role





Cattle Sector Implications

- Cow-calf
 - Good profit potential; cost management key
 - Rebuilding strategy and costs
 - Producer transition
- Stocker
 - Good value of gain
- Feedlots and packers will continue to struggle
 - Loss of capacity likely
- Production challenges bigger than marketing challenges



Cow-Calf Corner

The Weekly Email Newsletter
From OSU Animal Science and Agricultural Economics

Send Email to
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THANK YOU!

