

Situation and Outlook Cattle Market 2008 and Beyond

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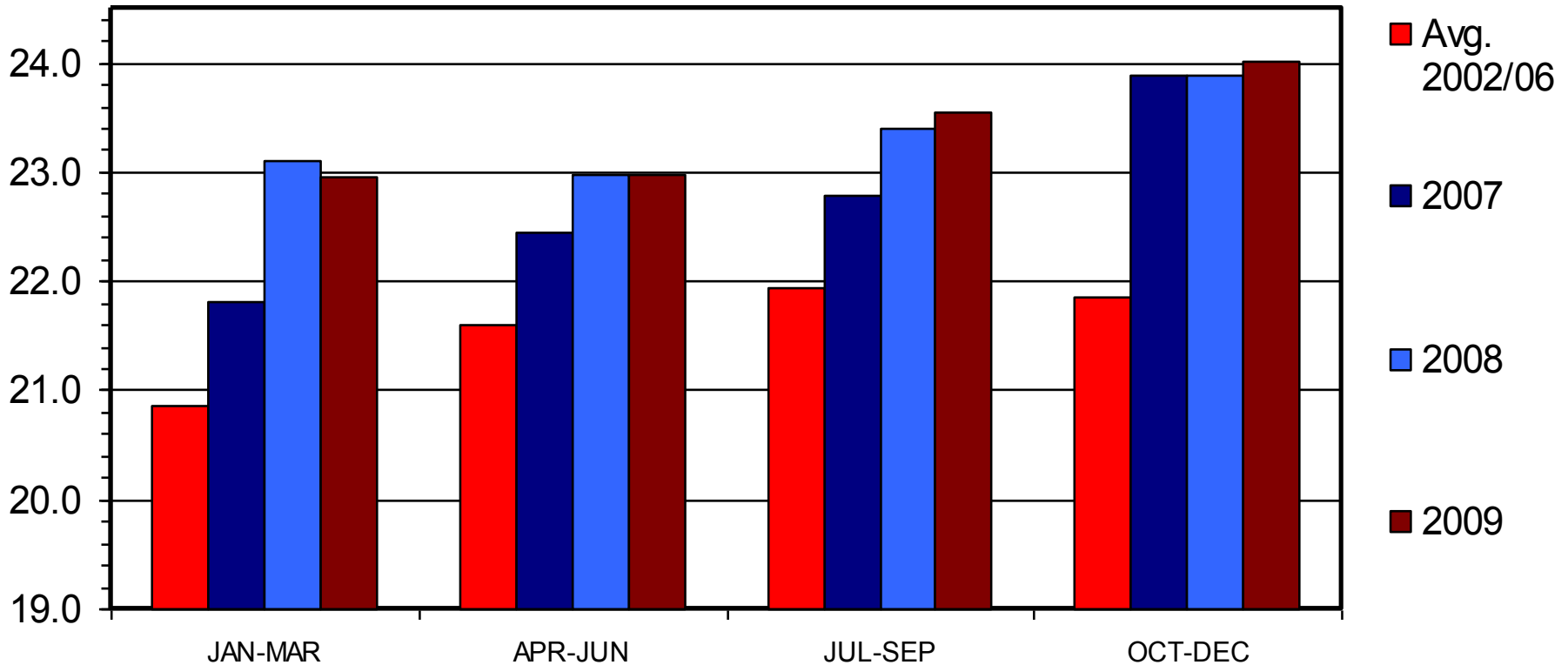
Situation and Outlook

- Outlook for production and price
- Energy policy
- Feed cost
- Regional competitiveness
- Emerging issues

TOTAL RED MEAT & POULTRY PRODUCTION

Bil. Pounds

Quarterly

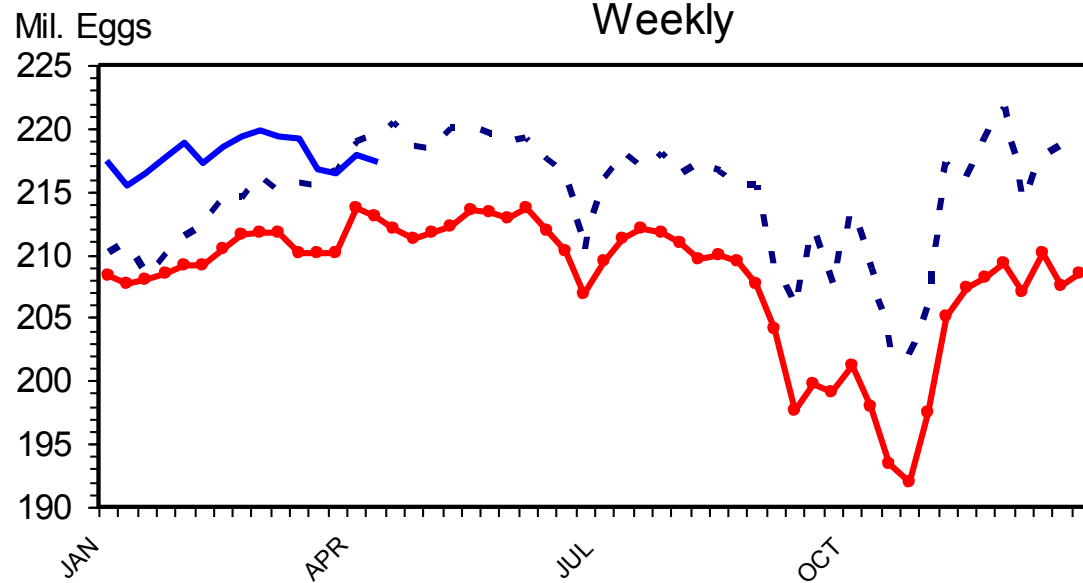


Higher feed costs not limiting supply yet!!!!

But, signs that chicken and pork are starting to cut back

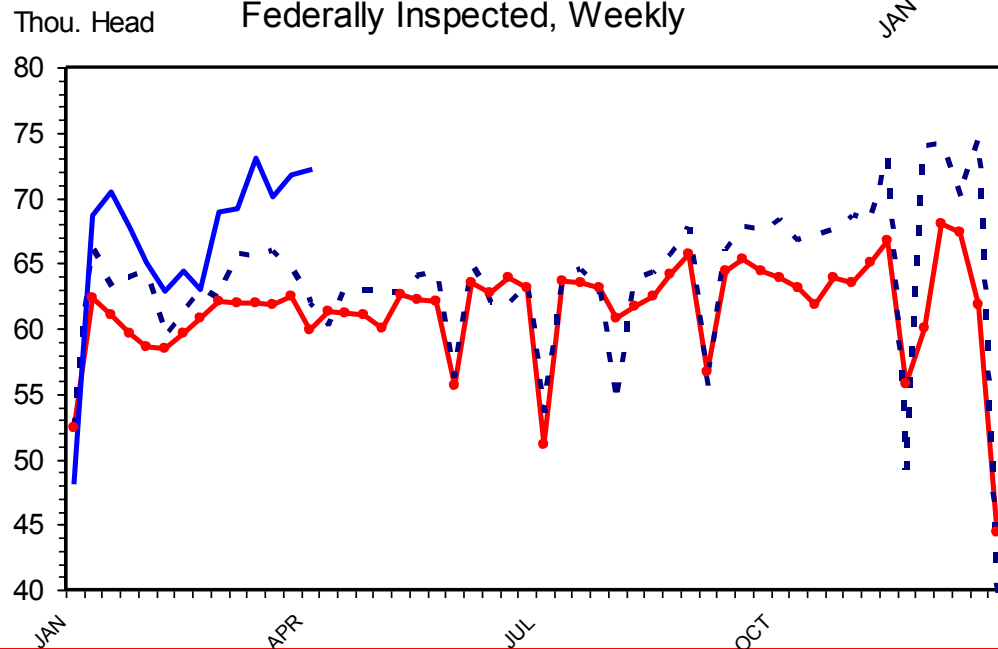
- Broiler supplies higher through April
- Look for Broiler supply to decline in the weeks ahead

BROILER EGGS SET



SOW SLAUGHTER

Federally Inspected, Weekly

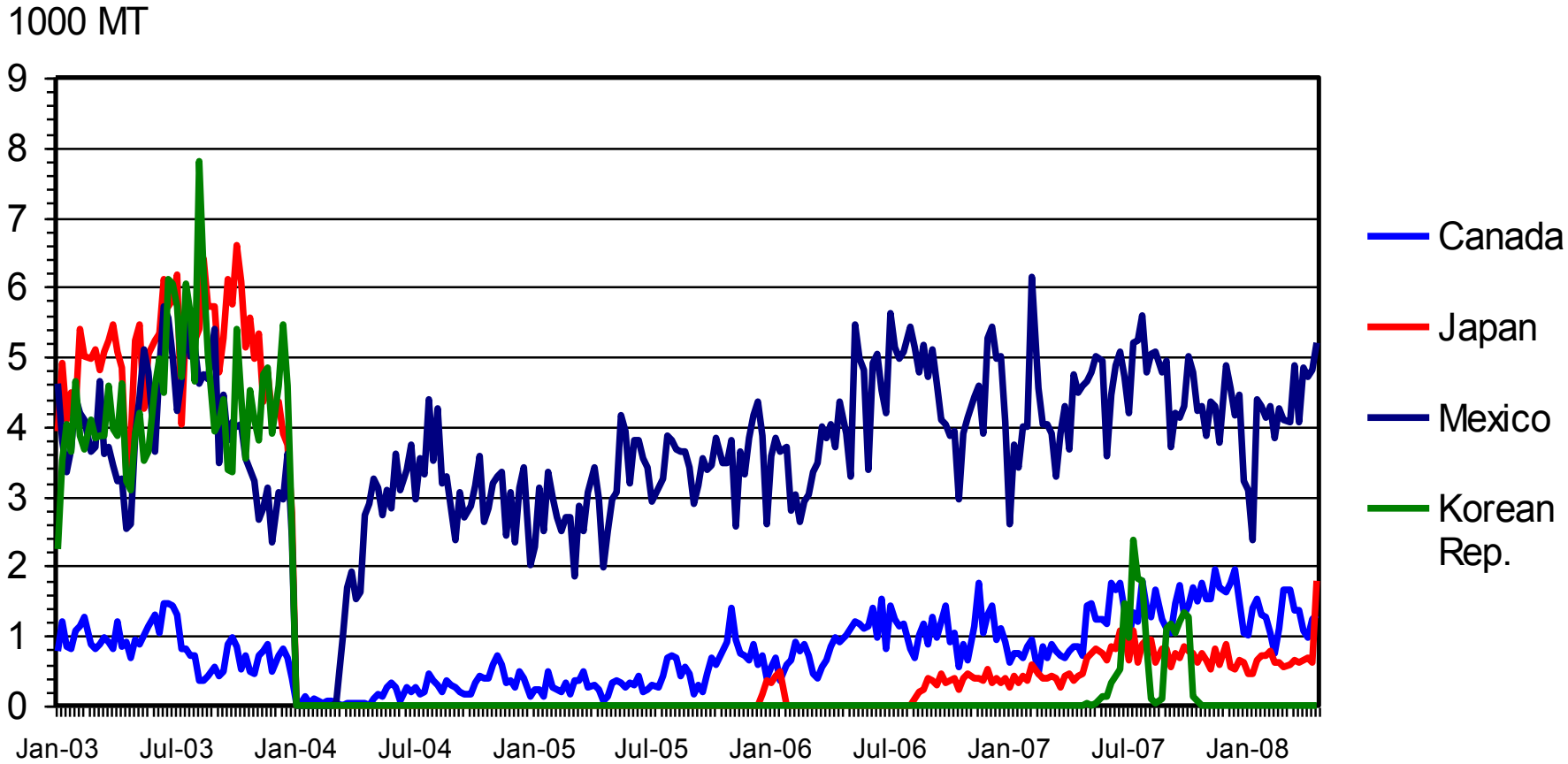


Hog breeding herd March 1 and Sow Slaughter in next 5 weeks

	2007	2008	% Chg	Hd Chg
Brdg herd	6110	6138	0.5%	28.0
5 weeks	324	356	10.1%	32.6

U.S. EXPORTS OF BEEF MUSCLE CUTS

Weekly

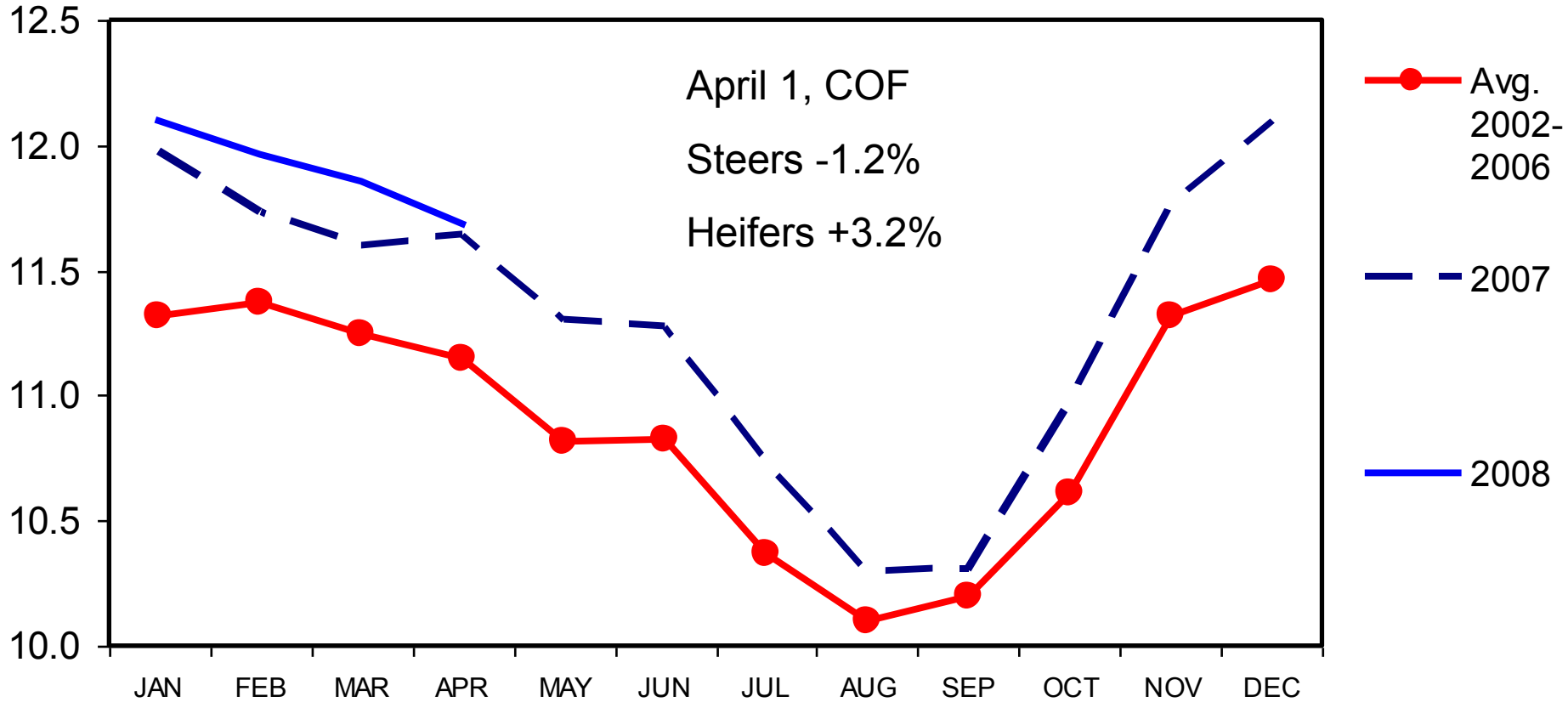


Livestock Marketing Information Center

CATTLE ON FEED

US Total, Monthly

Mil. Head



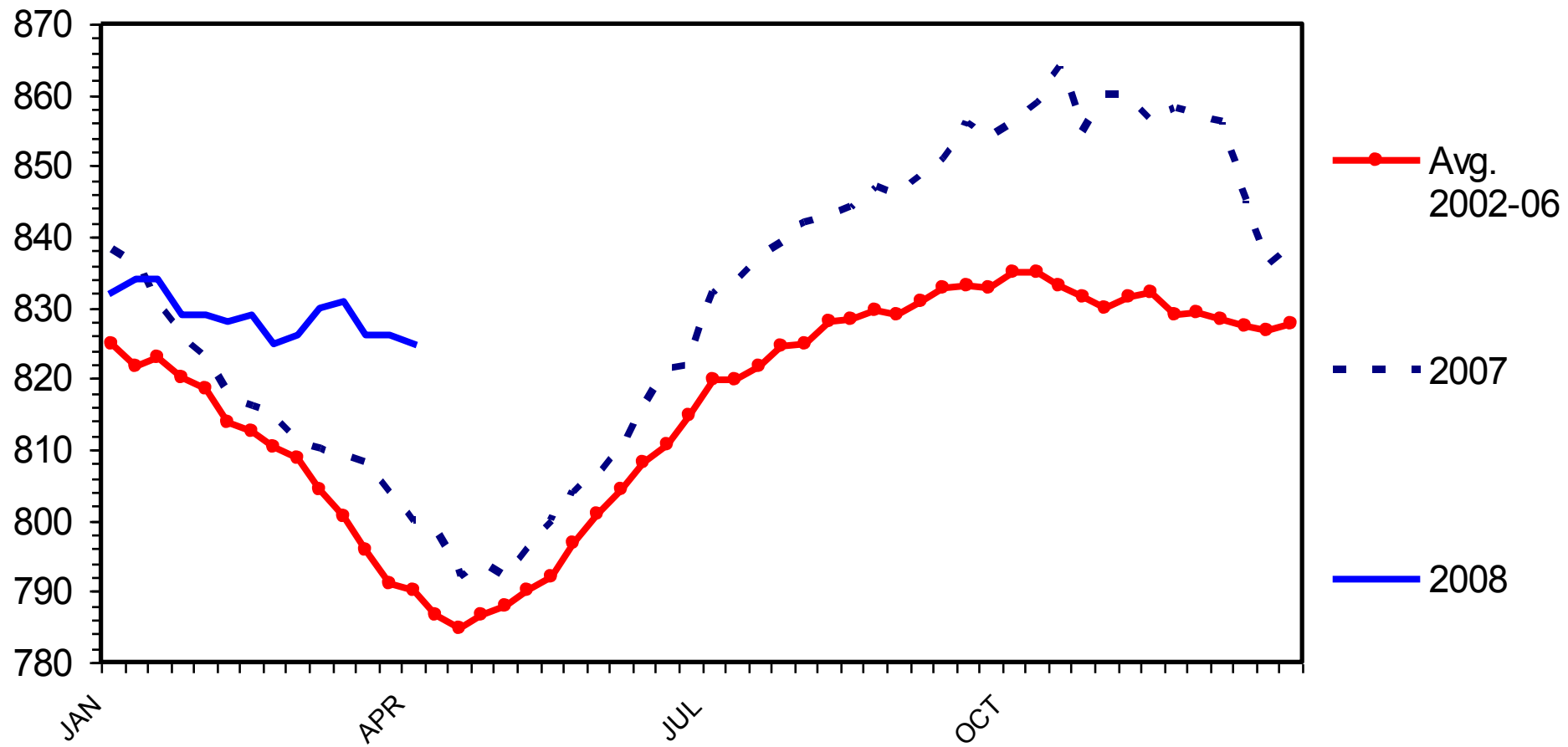
Livestock Marketing Information Center

Data Source: USDA/NASS

STEER DRESSED WEIGHT

Federally Inspected, Weekly

Pounds

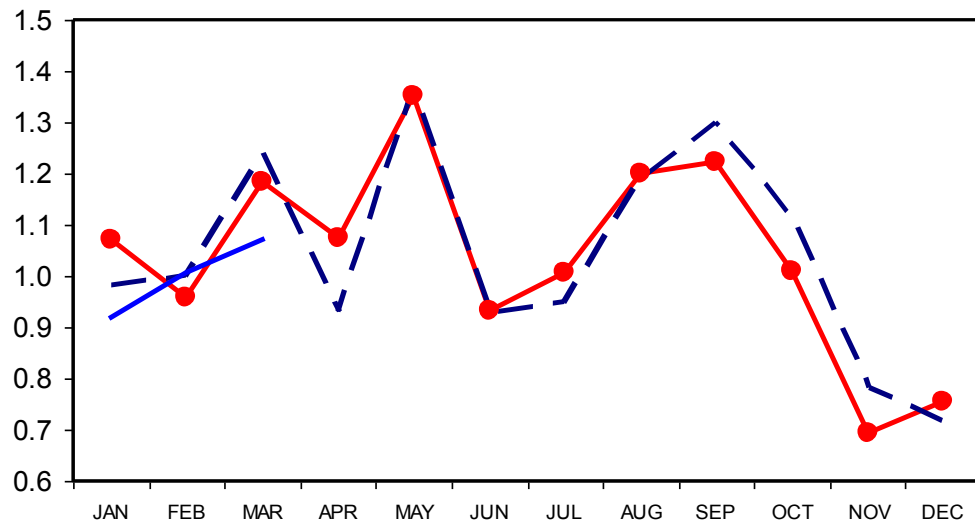


- Placement of lighter cattle ahead of 2007
- Up 158,000 or 7.6%

CATTLE PLACED WEIGHING MORE THAN 700 POUNDS

1,000 Plus Capacity Feedlots, U.S., Monthly

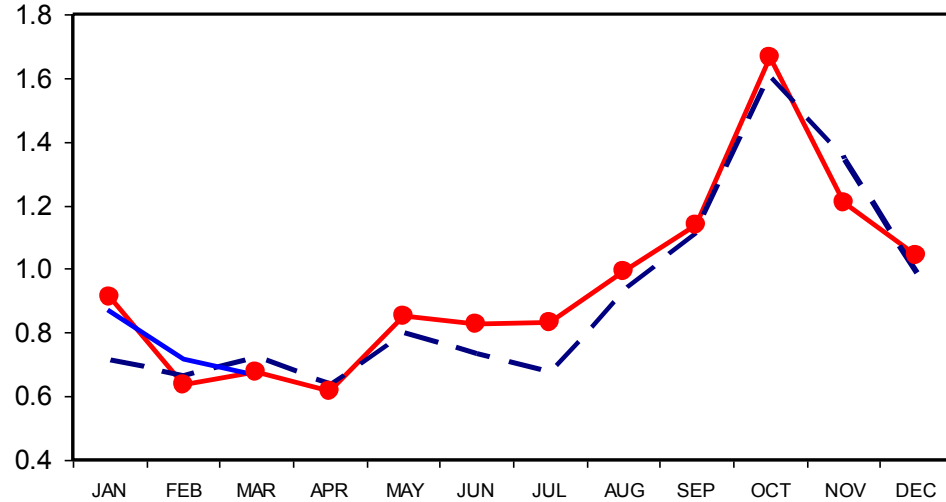
Mil. Head



CATTLE PLACED WEIGHING LESS THAN 700 POUNDS

1,000 Plus Capacity Feedlots, U.S., Monthly

Mil. Head

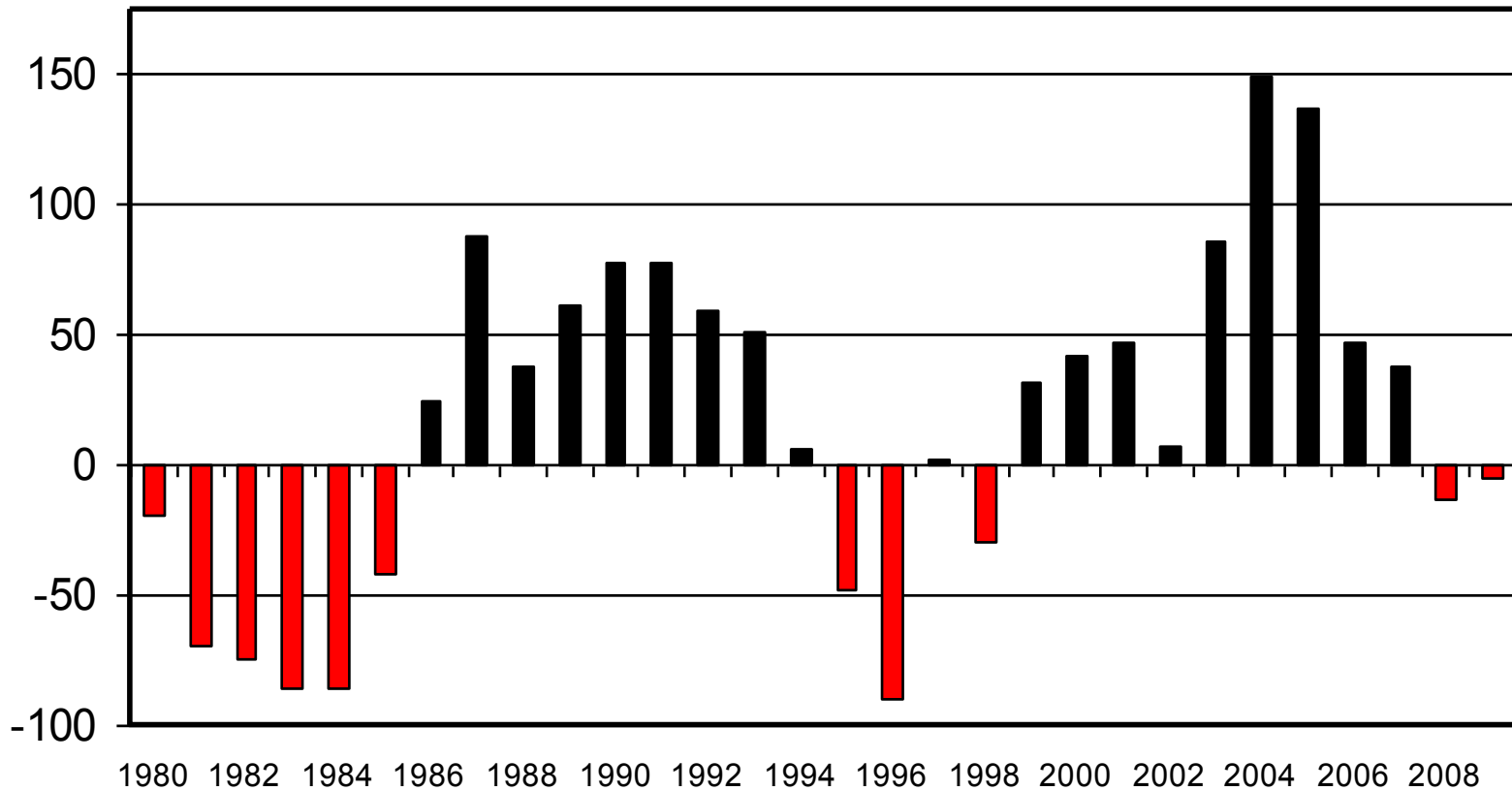


- Placement of heavier cattle behind 2007
- Down 221,000 or -6.9%

ESTIMATED AVERAGE COW CALF RETURNS

Returns Over Cash Cost (Includes Pasture Rent), Annual

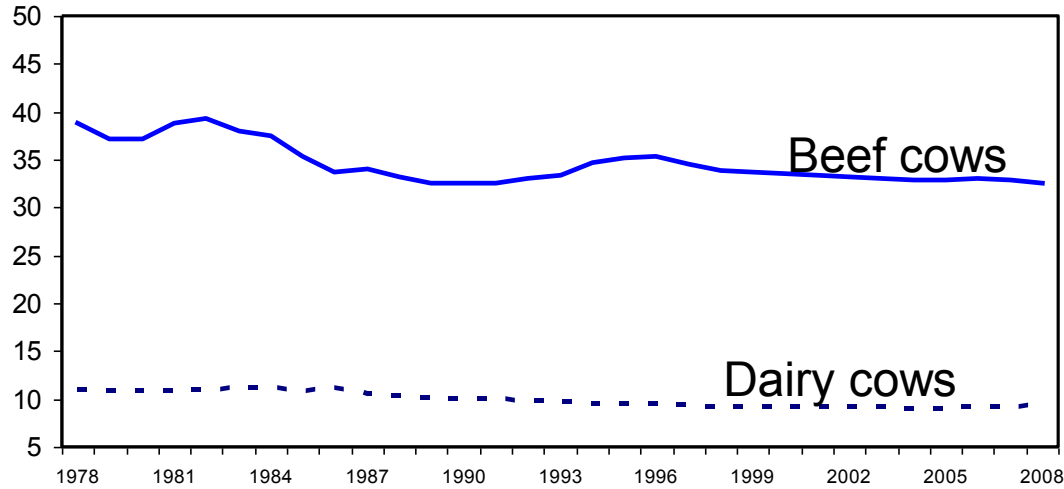
\$ Per Cow



JANUARY 1 COW INVENTORY

Mil. Head

U.S., Annual



Beef Cows -1%

Beef Heifers -3.5%

Smallest beef cow
inventory since 1990

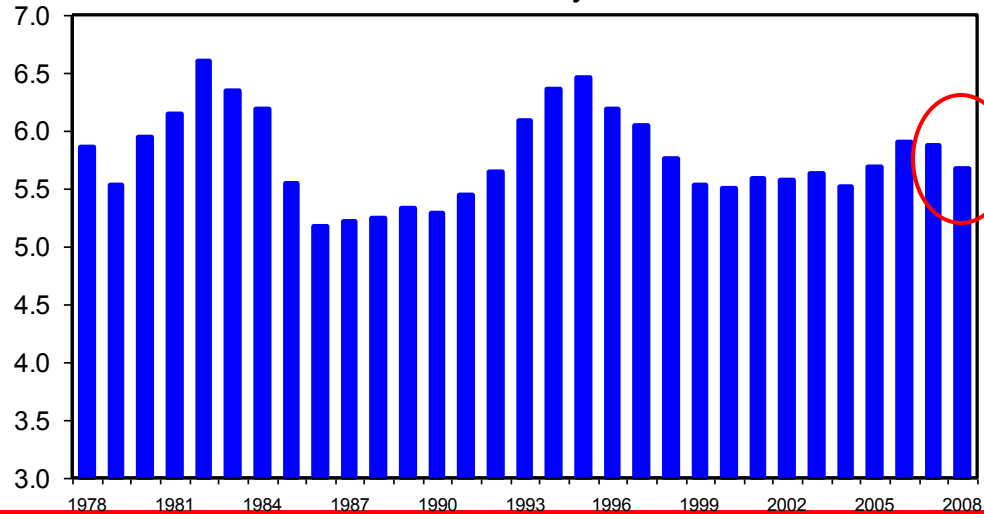
Livestock Marketing Information Center

Data Source: USDA/NASS

HEIFERS HELD AS BEEF COW REPLACEMENTS

January 1, U.S.

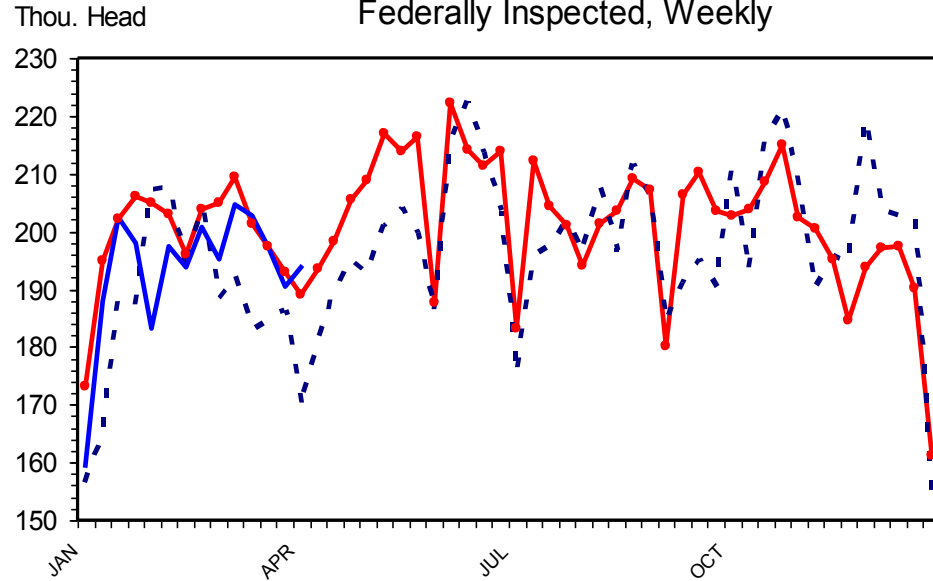
Mil. Head



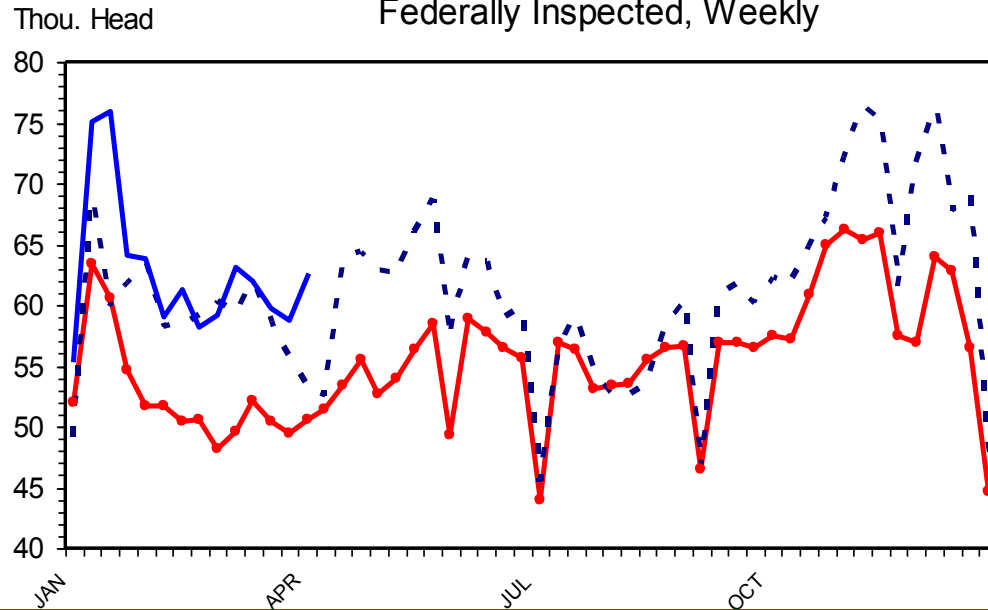
First 14 weeks of 2008

- Heifer slaughter +3.6%
- Steer slaughter -0.9%

HEIFER SLAUGHTER
Federally Inspected, Weekly



BEEF COW SLAUGHTER
Federally Inspected, Weekly



—●— Avg.
2002-06

- - - 2007

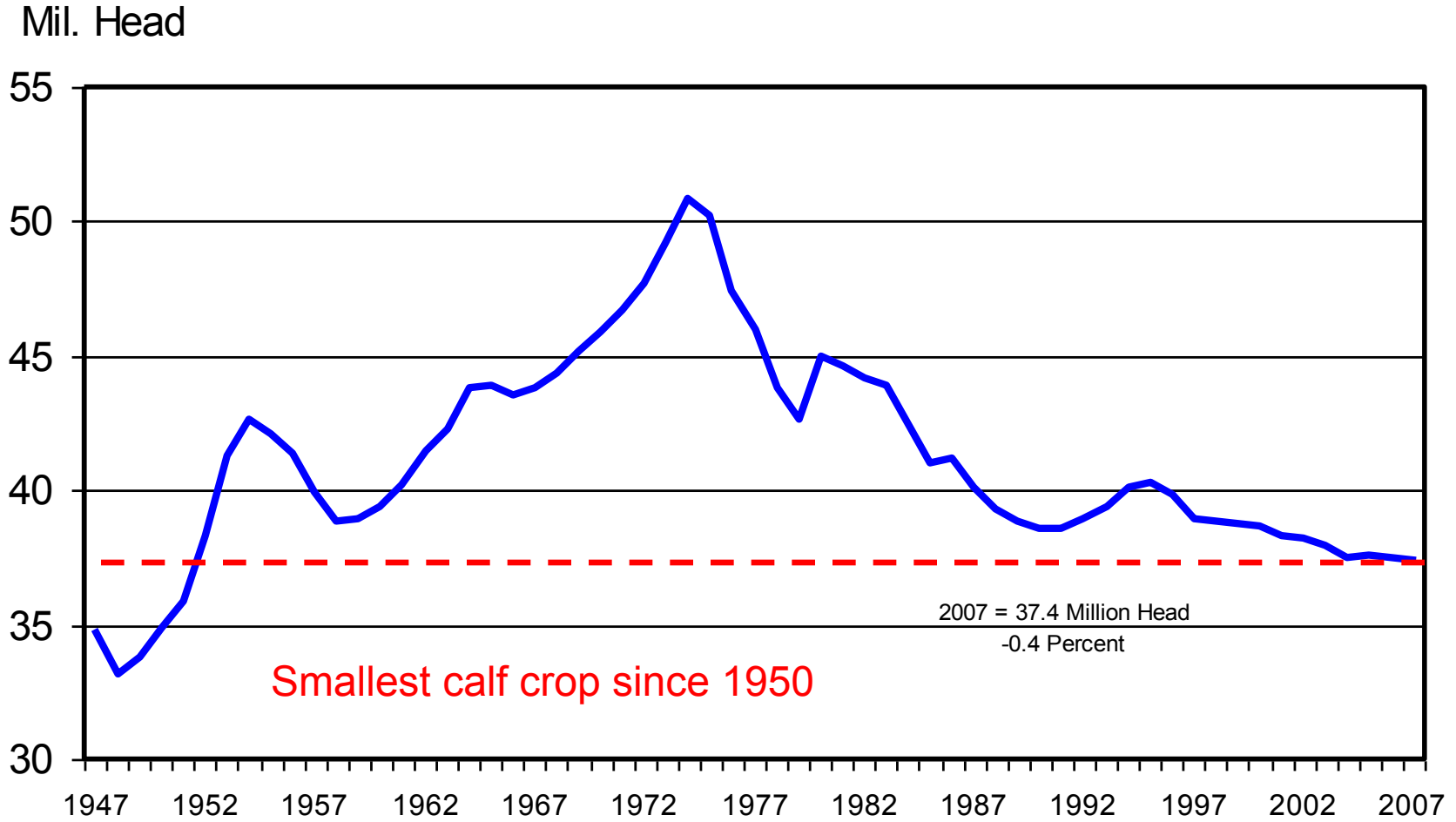
— 2008

First 14 weeks of 2008

- Total cow slaughter +3.2%
- Milk cow 0.0%
- Beef cow +6.0%

CALF CROP

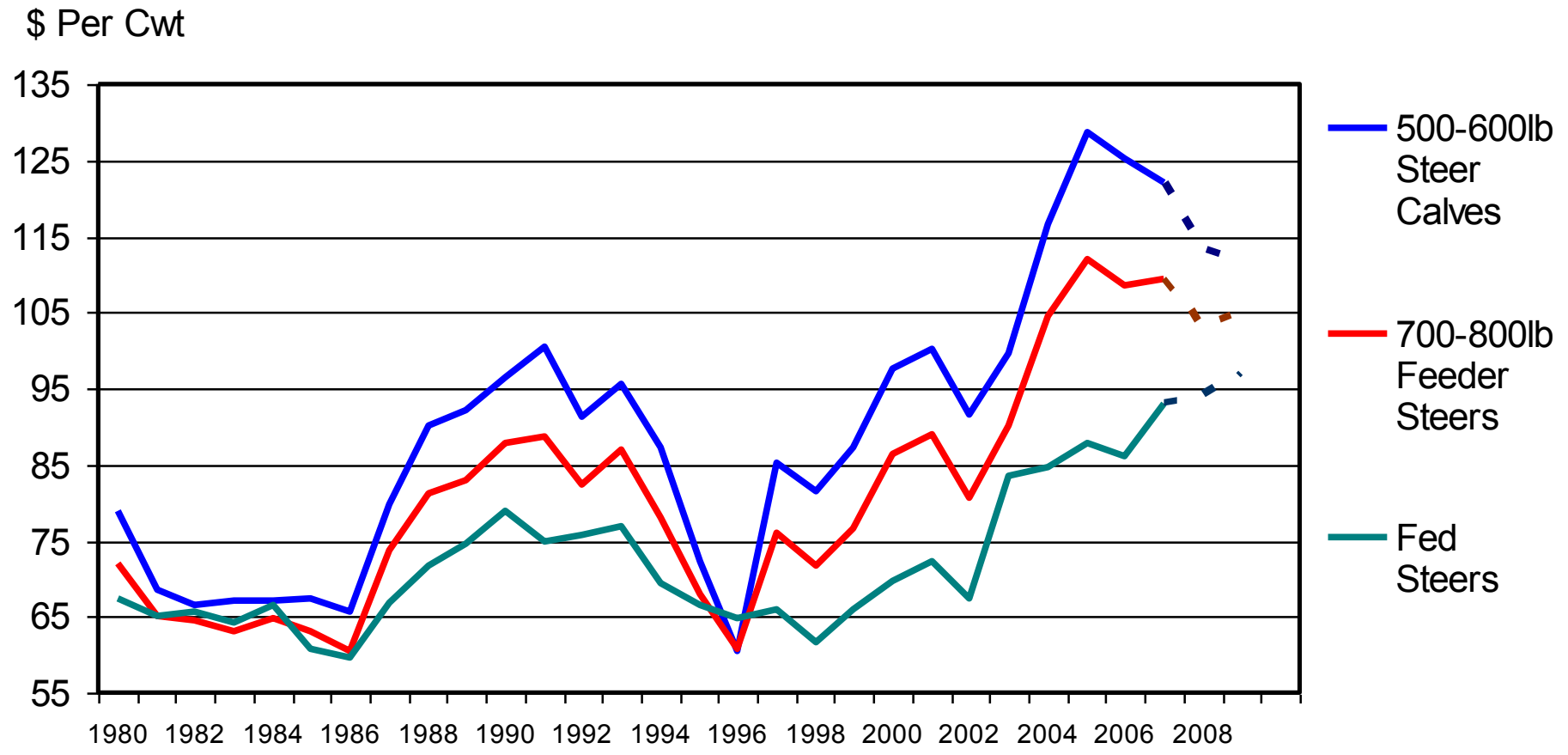
U.S., Annual



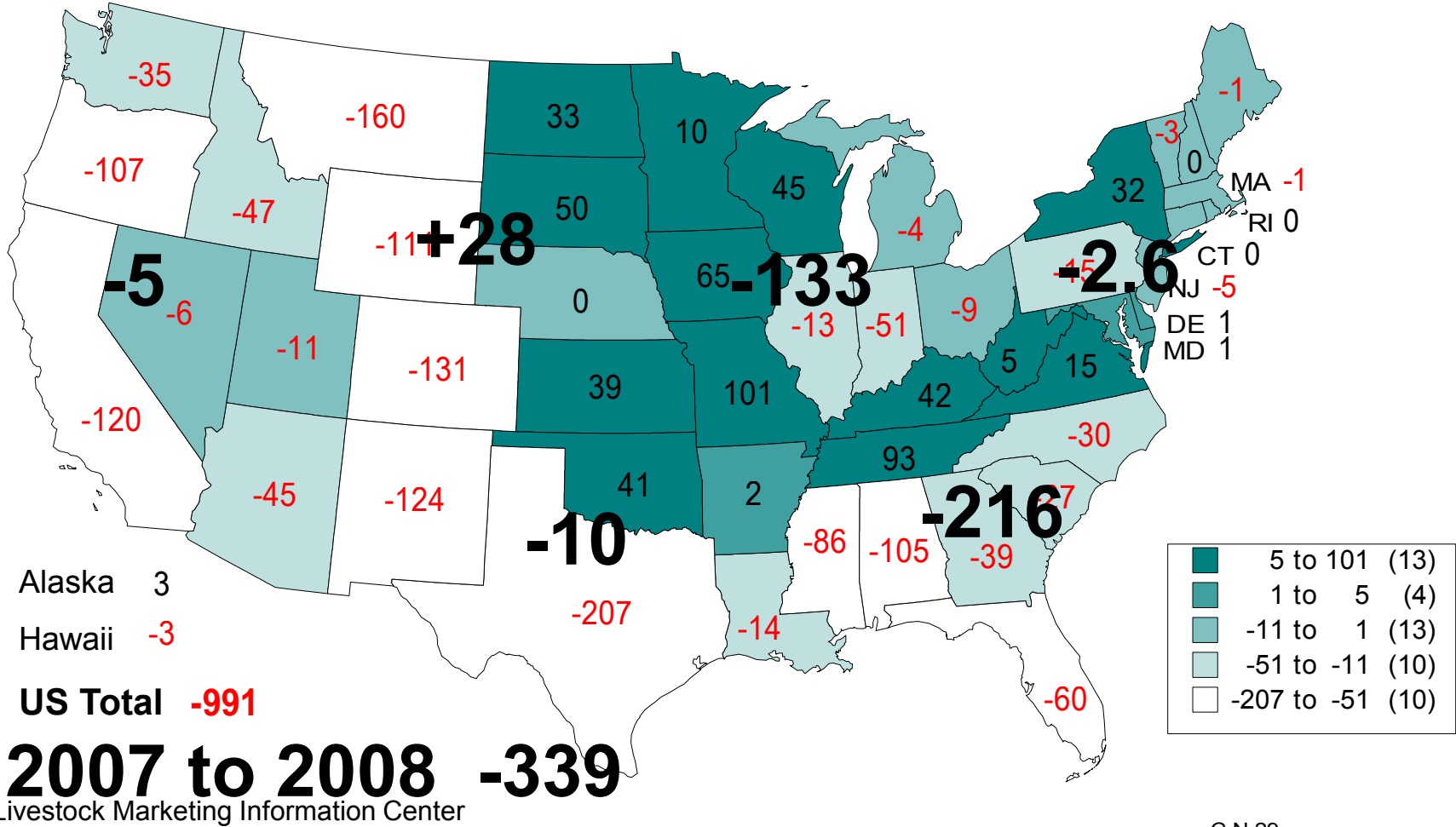
Livestock Marketing Information Center

Data Source: USDA/NASS

ANNUAL AVERAGE CATTLE PRICES



CHANGE IN BEEF COW NUMBERS JANUARY 1, 1998 TO JANUARY 1, 2007 (1000 Head)



Data Source: USDA/NASS

Cattle Market Summary

- Large losses in feedlots currently
- Optimism about fall futures have feeder cattle bid well above hedgeable returns
- Korea announcement likely slow to materialize
- Cowherds pressured from both sides
- Excess capacity in feedlots will keep feeders higher than they should be

Ethanol Economics and Feed Price Implications

DRY MILLING-WDG(+S)

GRAIN



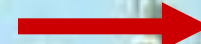
GRIND, WET, COOK

FERMENTATION



YEAST, ENZYMES

STILL



ALCOHOL & CO₂



STILLAGE

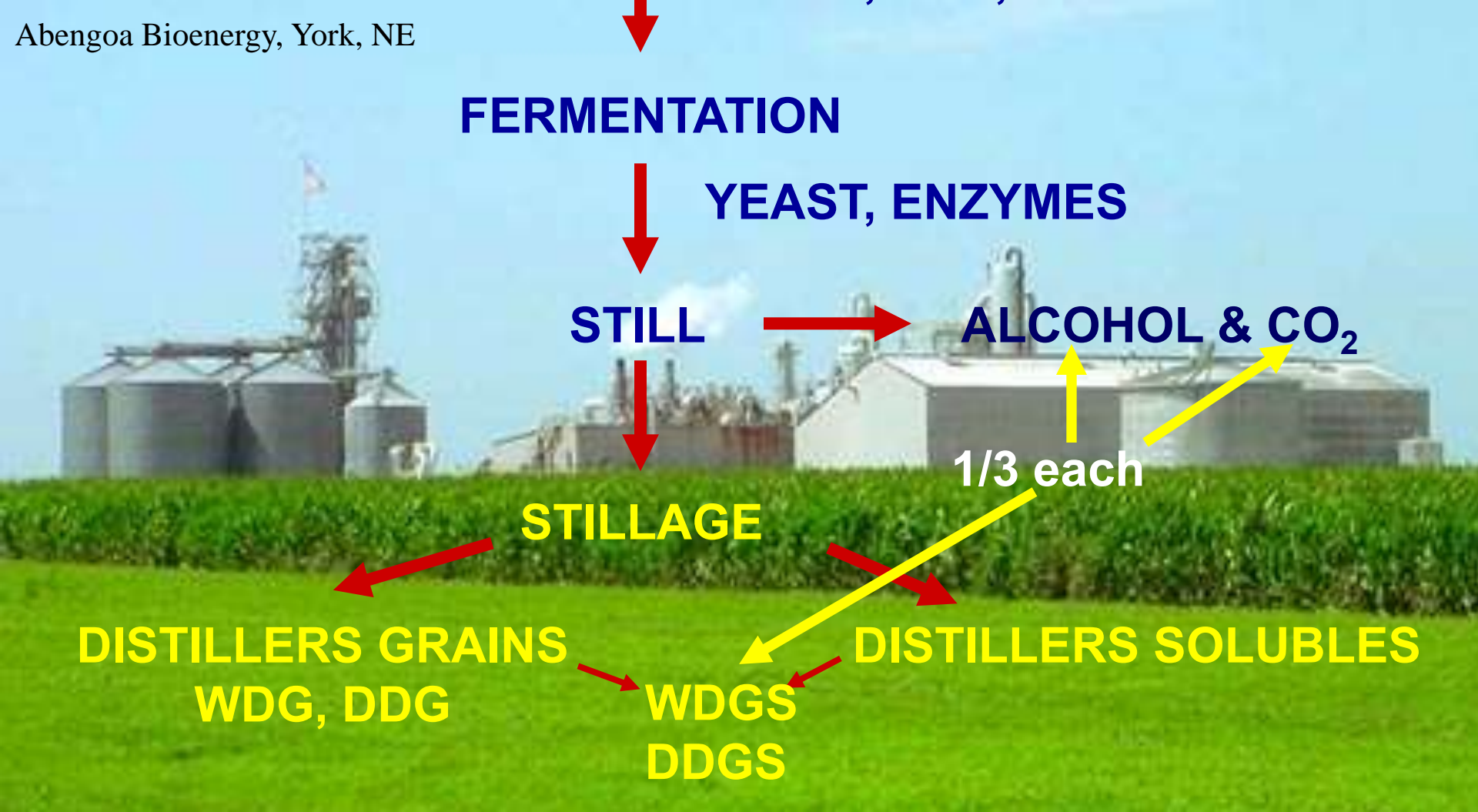
1/3 each

**DISTILLERS GRAINS
WDG, DDG**

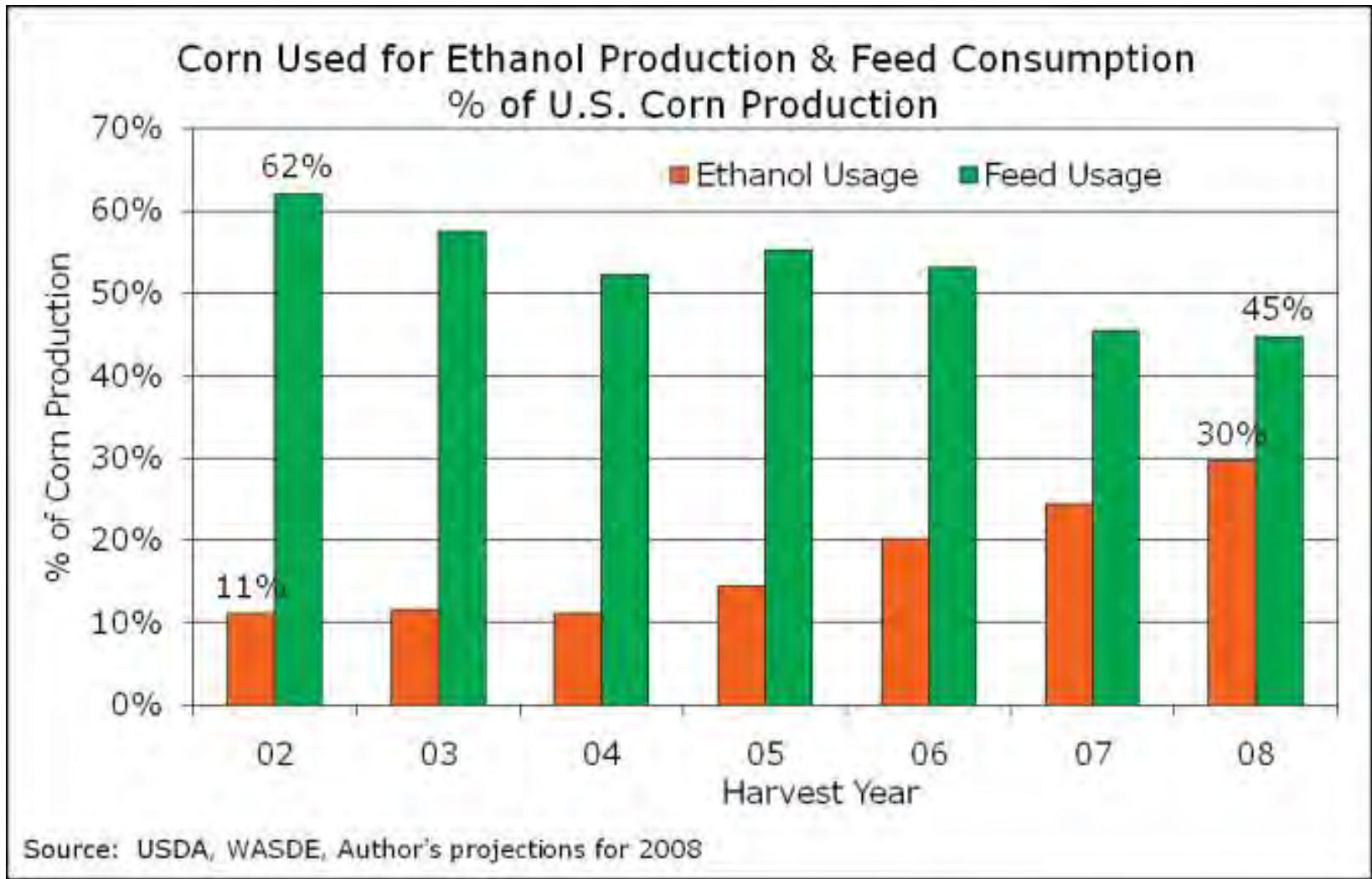
**WDGS
DDGS**

DISTILLERS SOLUBLES

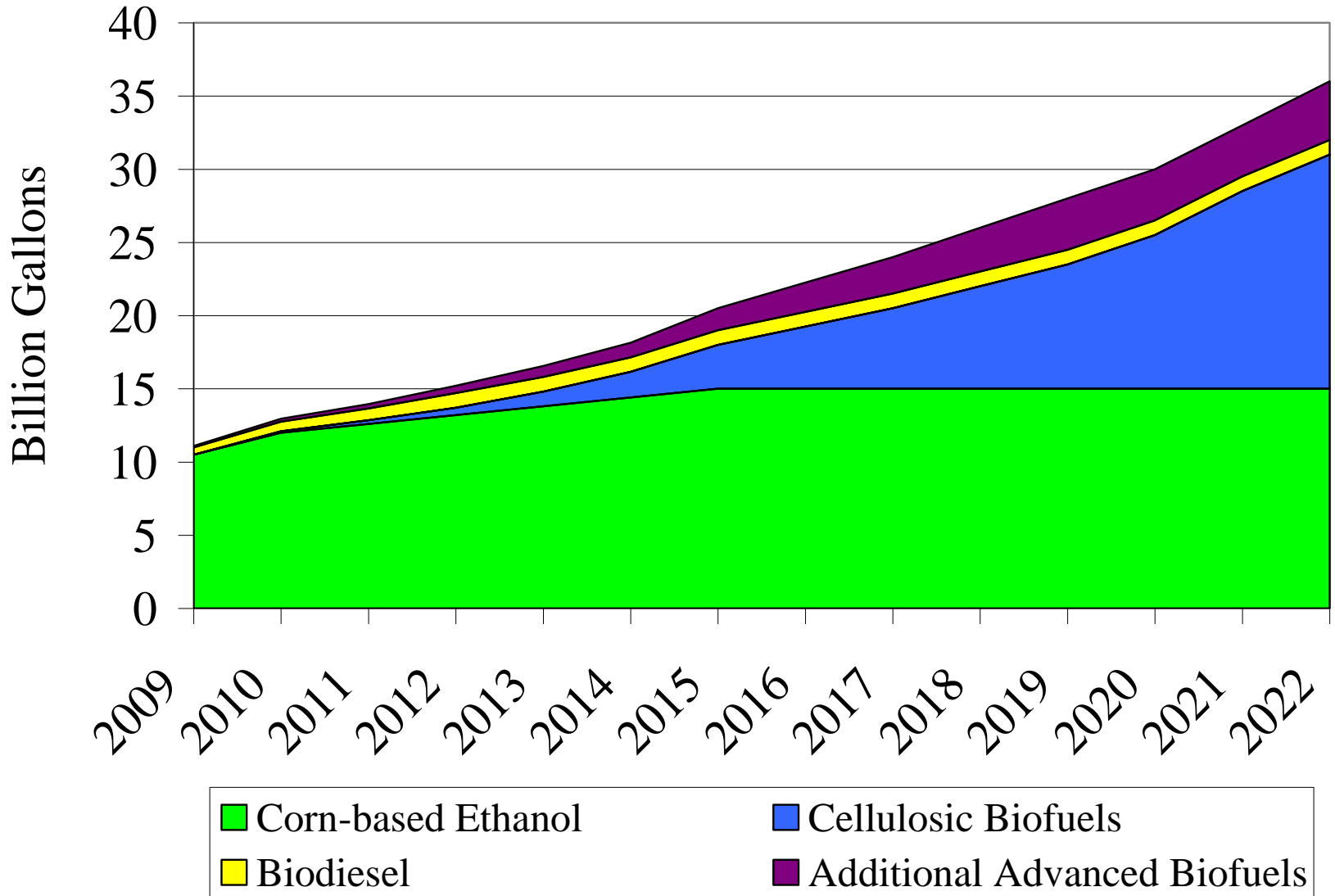
Abengoa Bioenergy, York, NE



Corn Used for Feed and Ethanol

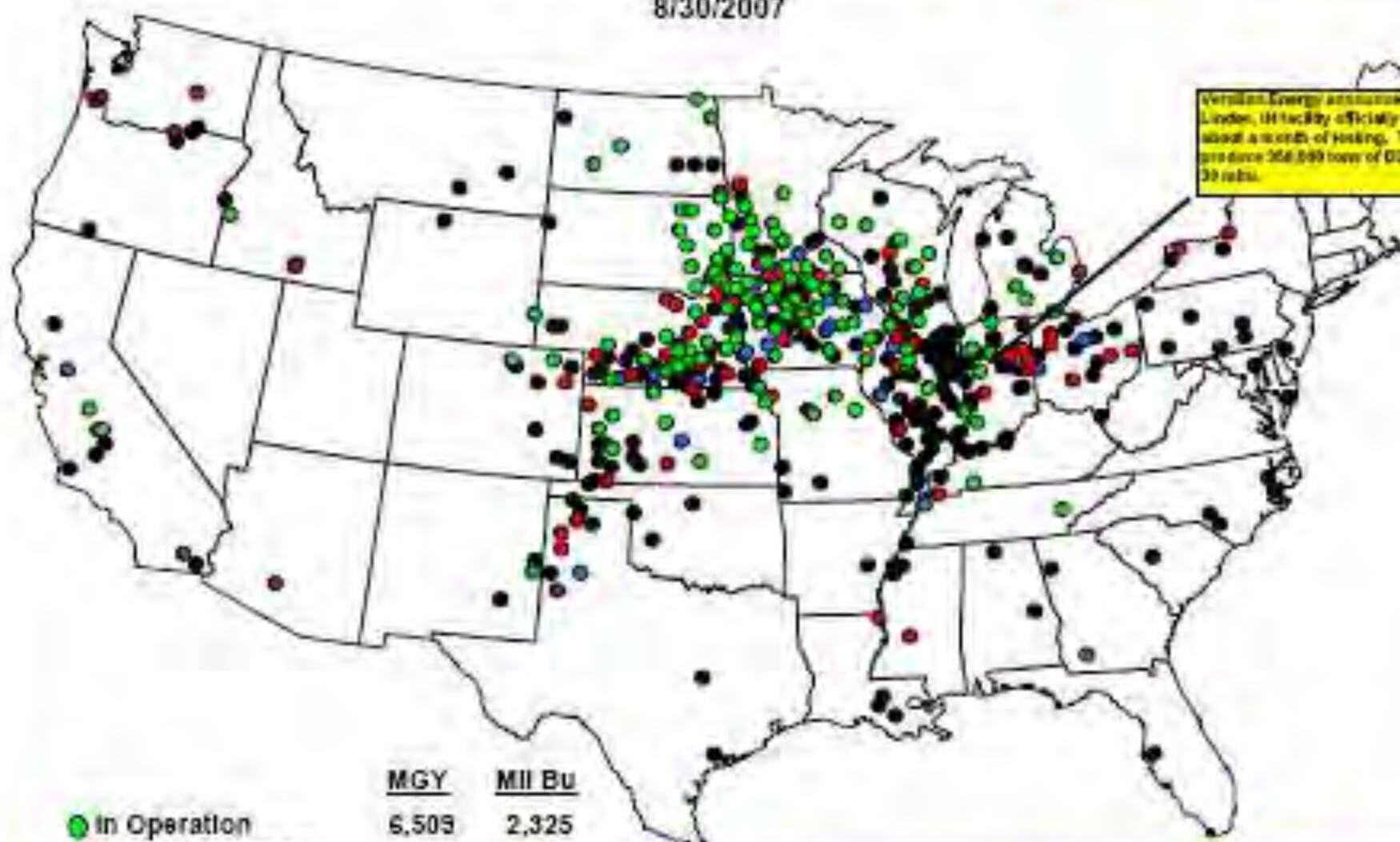


Renewable Fuel Standard by Fuel Type, December 2007 Energy Bill



US Ethanol Plants

8/30/2007



Verden Energy announced last week Linden, IN facility officially has gone ahead a month of testing. The 118 mgd plant will produce 350,000 tons of DDG/year on 30 rats.

	<u>MGY</u>	<u>Mil Bu</u>
In Operation	6,509	2,325
Under Expansion	263	94
Under Construction	4,796	1,713
Ground Broken	2,633	962
Planned	21,937	7,835

Only plants using corn as a feedstock are shown. Plants "Under Construction" have broken ground and have poured concrete. Plants that have "broken ground" have begun site work but no actual construction. Plants that are "planned" have been talked about or announced in the news.

Ethanol Production Plans

	BGY	BBu	MTon
Operation-Expansion	6.7	2.4	20.6
Operation-Construct	11.6	4.1	35.1
Operation-Broke grd	14.3	5.1	43.3
Operation-Planned	36.2	5.1	43.3

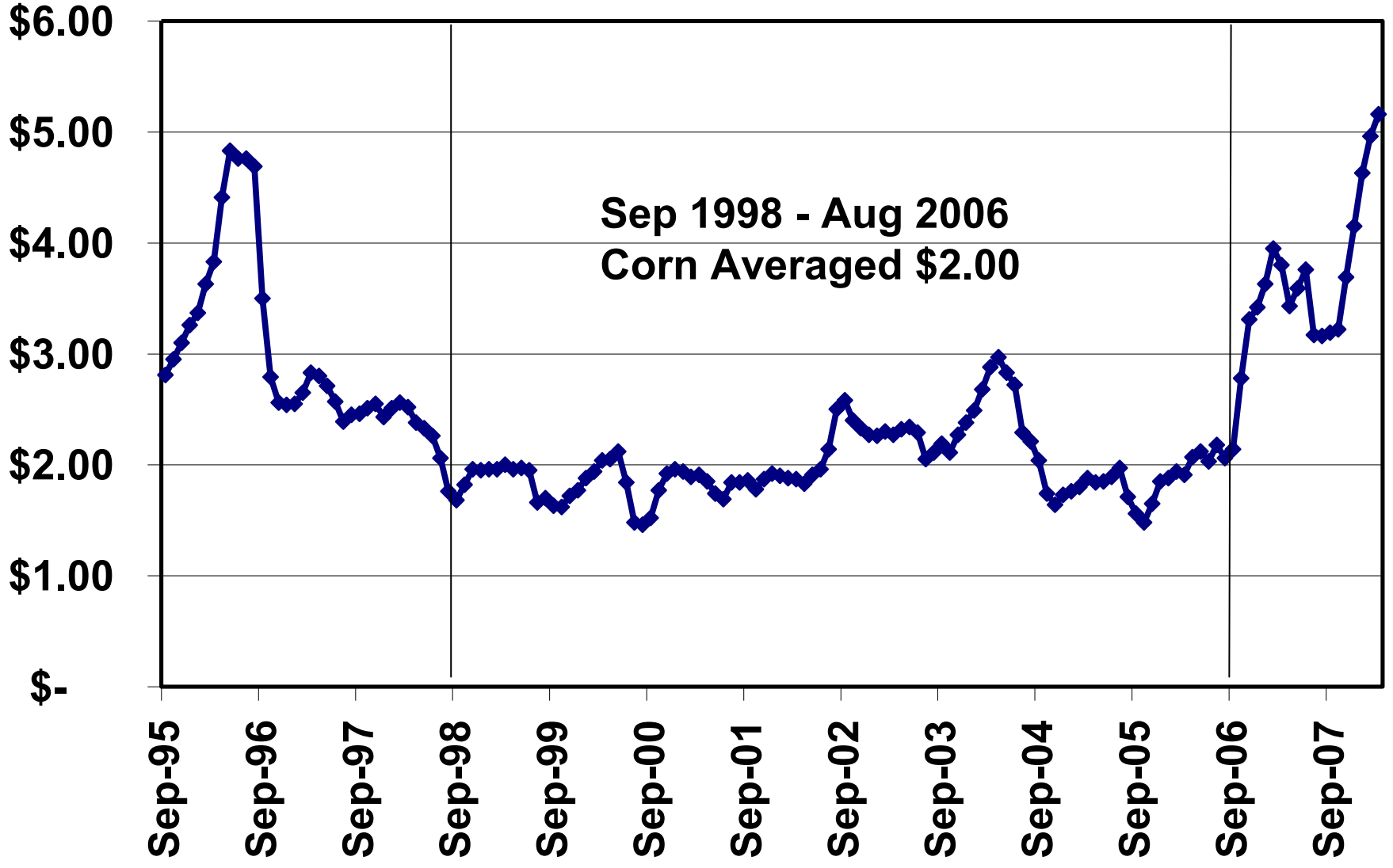
Target for corn based ethanol is 15 BGY by 2022

Target for total biofuels is 36 BGY by 2022

Ethanol Economics

Gal/bu	2.8
Ethanol \$/gal	\$2.52
DDGS \$/t	\$170
Revenue \$/bu	\$8.50
Corn Cost	\$5.61
Return over Corn	\$2.89
Estimated operating cost per bu	\$1.73
Estimated fixed costs per bu	\$.67

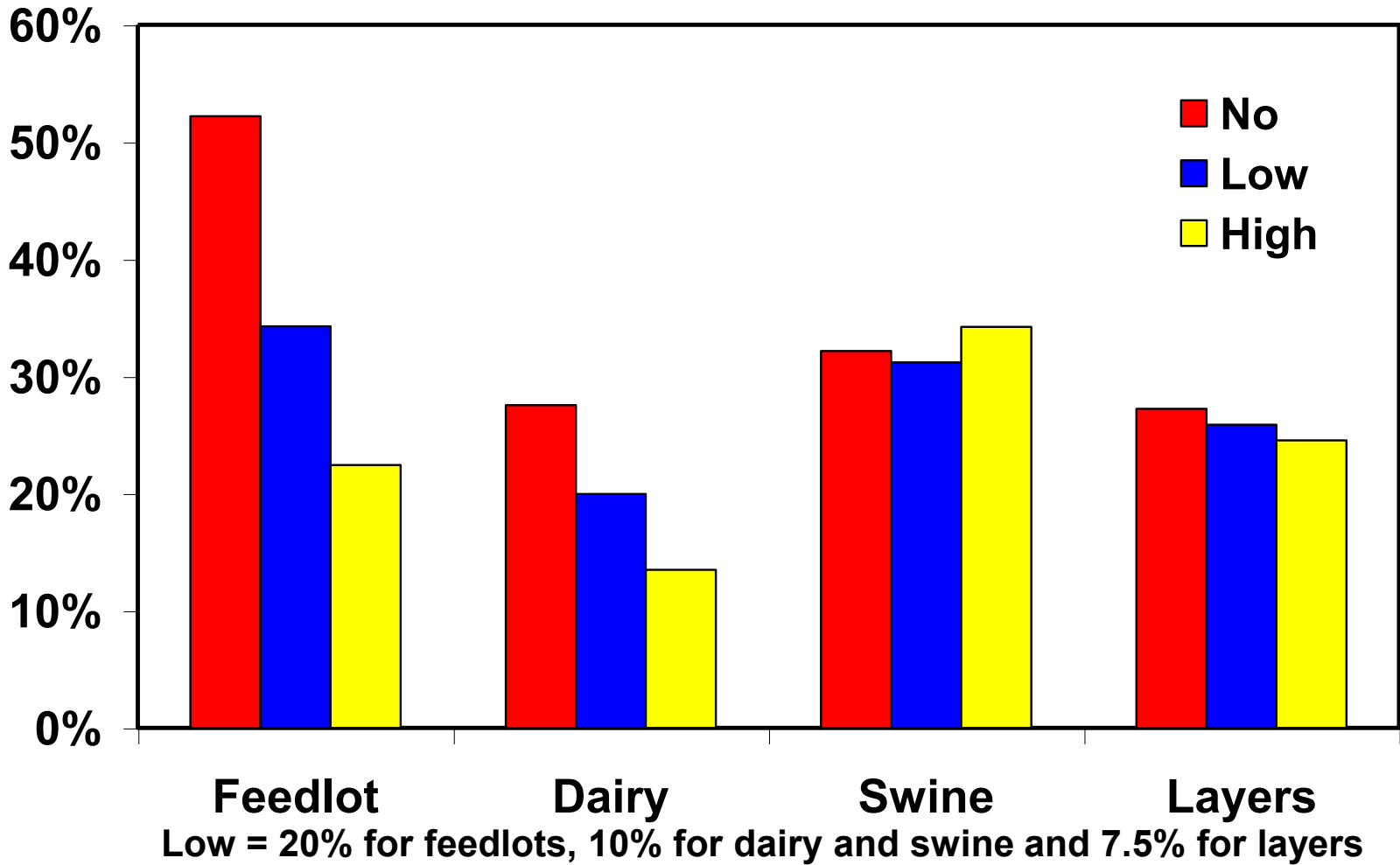
Omaha Corn Prices



Feedstuff Prices

	Crop Years	
	99-04	2006
Corn Price (\$/bu)	\$2.04	\$3.19
SBM Price (\$/ton)	\$194.70	\$198.40
Hay Price (\$/ton)	\$96.10	\$114.80
DDGs price (\$/ton)		\$107.61
WDGs Price (\$/ton)		\$35.41

Percentage Change in Feed Cost, Crop Years 2006 v. 99-04 Average

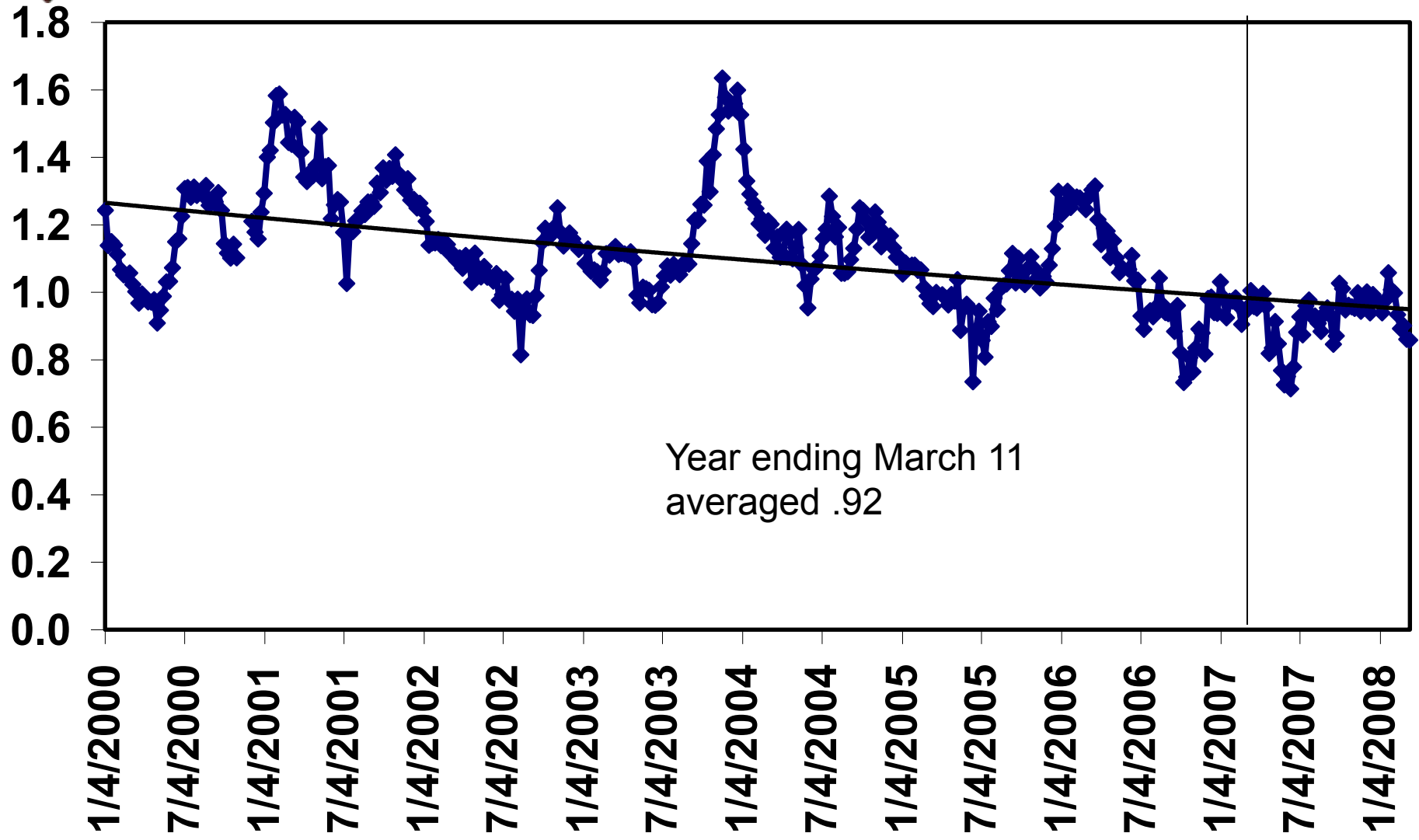


Low = 20% for feedlots, 10% for dairy and swine and 7.5% for layers

High = 40% for feedlots, 20% for dairy and swine and 15% for layers



Price Ratio DDG/Corn Chicago



Converting Fiber to Ethanol

- 6/27/2007, POET produces cellulosic ethanol from corn cobs
- ***“... First, the fiber that comes from our fractionation process will provide 40 percent of our cellulosic feedstock from the corn kernels that we are already processing in our facility.”***

Implications for Corn Market

- Integrated gas and corn markets
- Higher price level
- Implied volatility impacts option premiums
 - 1997 to 2005 yearly average was below 22%
 - 2006 was 28.8%
 - 2007 was 32.4%
 - New crop 2008 in February 2008 was 35%

CARD, February 2008

- Baseline scenario
 - 90 million acres of corn and trend yield
 - National average corn price \$4.97
- Mandate

	Relax	Keep
– Drought '88 113 bu	\$6.42	\$7.99
– Bumper '04 169 bu	\$4.06	\$4.07
– Remove \$.51 credit	\$4.15	\$5.20

Breakeven Purchase Price to Pay for 650# Steer Calf

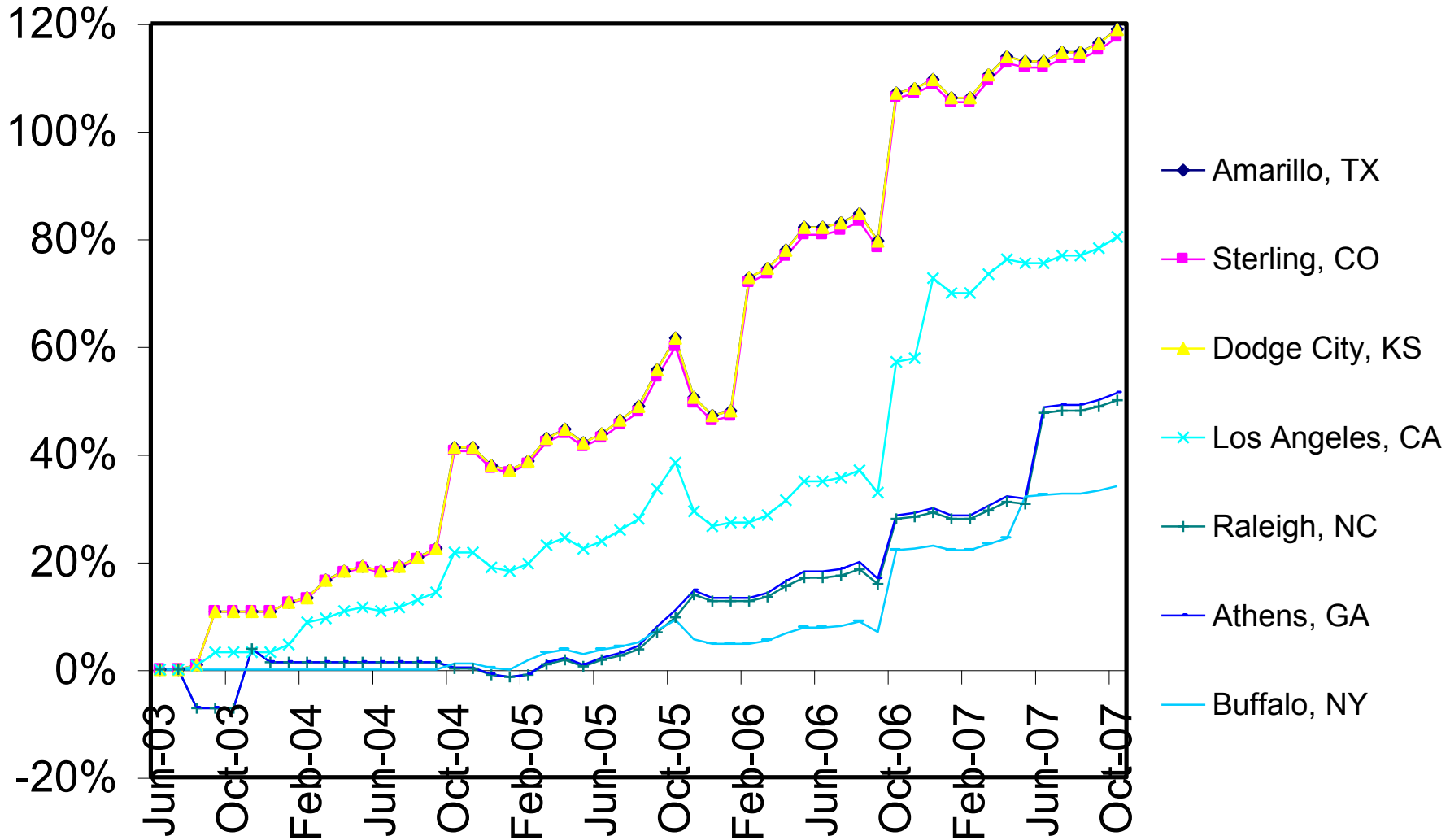
Corn Price	Fed Cattle Selling Price					
	\$85.00	\$90.00	\$95.00	\$100.00	\$105.00	\$110.00
\$4.00	90.68	100.26	109.84	119.42	129.00	138.58
\$4.50	87.31	96.89	106.47	116.05	125.63	135.21
\$5.00	83.93	93.51	103.09	112.67	122.25	131.83
\$5.50	80.56	90.14	99.72	109.30	118.88	128.46
\$6.00	77.19	86.77	96.35	105.93	115.51	125.09
\$6.50	73.81	83.39	92.97	102.55	112.13	121.71
\$7.00	70.44	80.02	89.60	99.18	108.76	118.34
\$7.50	67.07	76.65	86.23	95.81	105.39	114.97
\$8.00	63.69	73.27	82.85	92.43	102.01	111.59

\$80/t MDGS, 8% Int, \$30 freight, \$0.35 yardage

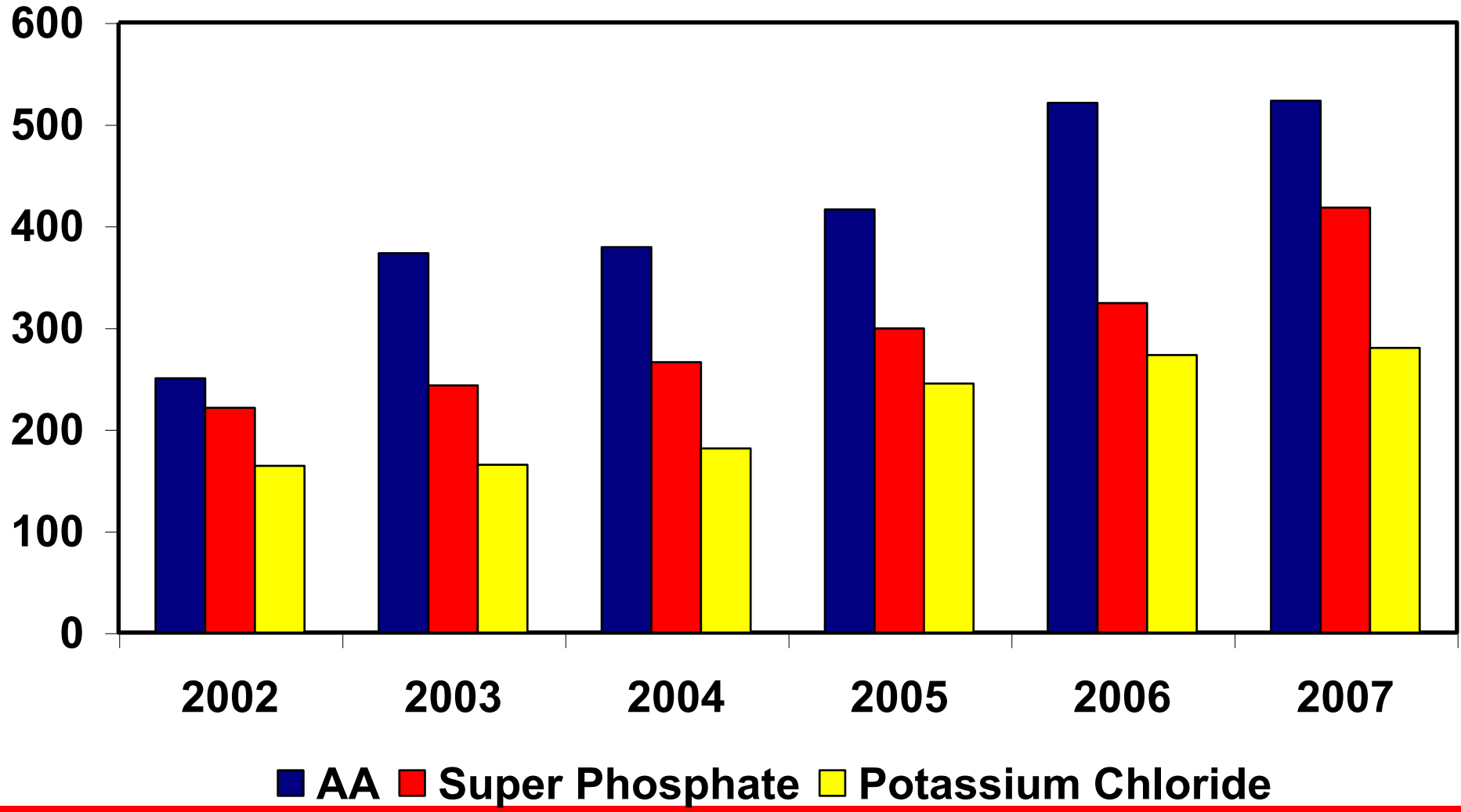
Oil Price and Bioeconomy

- **Higher energy prices**
 - **Supported ethanol production**
 - **Increased freight rates**
 - **Increased fertilizer prices**
- **Corn deficient region price is Midwest PLUS freight**

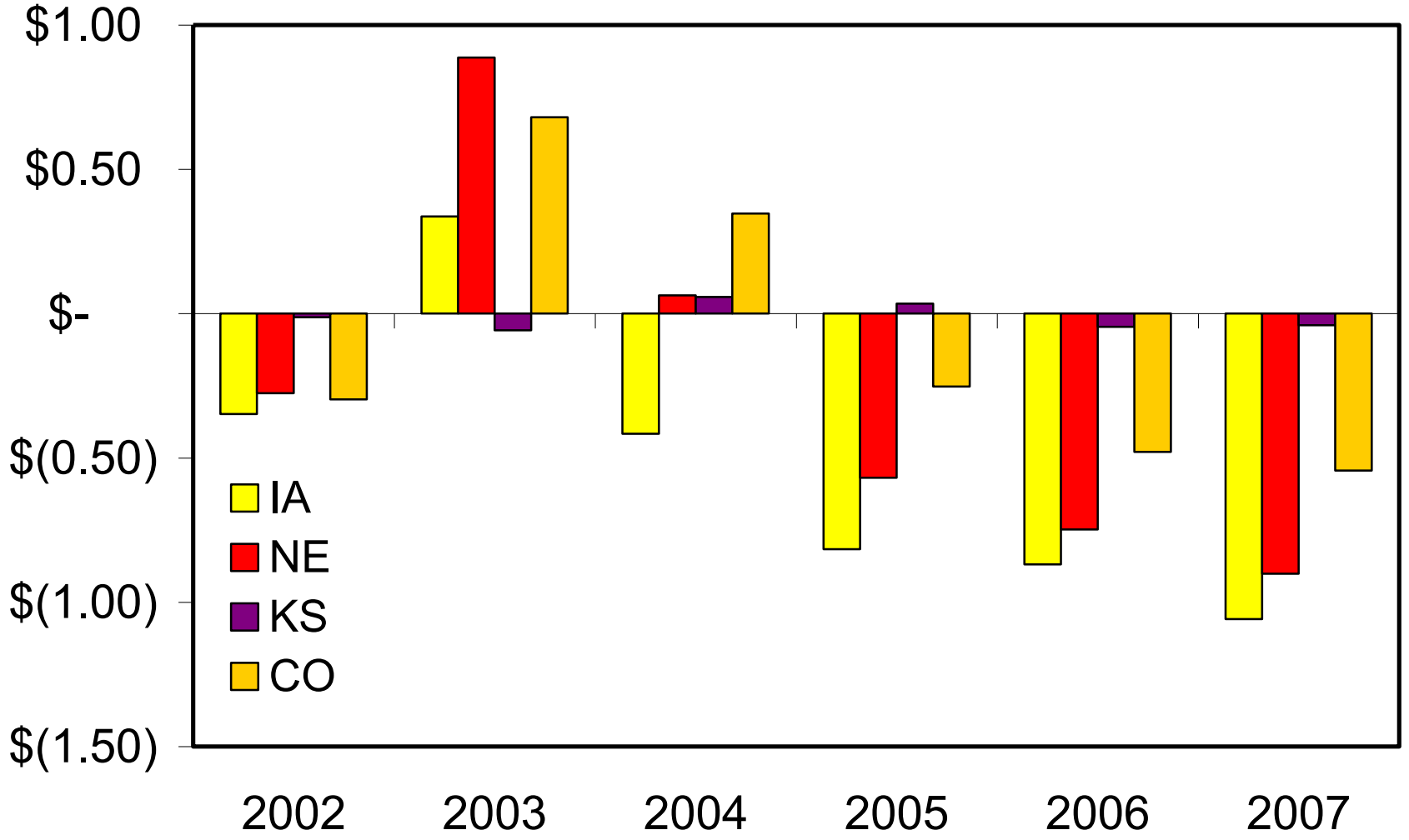
Percent Change in Rail Rates for Selected Cities from Omaha or Chicago, June 2003 is Base



Average US Farm Prices, April each Year (\$/ton)



Annual Average Fed Steer Basis to TXOK,
Not Adjusted for Grade or Shrink



Emerging Issues

Swift/JBS Purchases

Rank	Company	Head/Day	Share
1	JBS Swift	20,500	
	National Beef Packing	14,000	
	Smithfield Beef Group	8,050	42,550 31.10%
2	Cargill Meat Solutions	29,000	21.20%
3	Tyson Foods	28,700	21.00%
4	American Foods Group	6,500	4.70%
5	Greater Omaha Packing	2,800	2.00%
6	Nebraska Beef	2,600	1.90%
7-13		10,100	7.38%
Smaller		14,605	10.67%
Total		136,855	

Factors to Consider

- Those numbers are total cattle not fed cattle
- The 31% is similar to Smithfield in hogs
- Impact
 - Likely varies with location
 - Retailers have fewer sellers
- Competition title of Farm Bill
 - Ban on packer ownership
 - Restrictions on contracts

Role of Science in Food

- Consumers have other sources of information
- Trust NGOs more than government or universities
- Asking value-based questions
- We respond with science-based questions

Changing Consumers

- Changing demographics
 - Aging Boomers eat less meat
 - Wealthy Boomers want more choice
- Brands are the new regulations
 - Different rules for different brands
- Growth of natural, green, organic, local
 - Is mainstream inferior
 - How to document and prove

800 Pound Gorilla

- **Lee Scott, president and chief executive officer of Wal-Mart Stores Inc.'s**

"In the next three years we would like to build a very different system. We believe that there should be one framework of social and environmental standards for all major global retailers. And there should be one third-party auditing system for everyone. This will ensure improvement will occur across the board on a level playing field."

(MEATPOULTRY.com, January 30, 2008)
by Keith Nunes

Take Home

**The world in which you operate
has fundamentally changed.**

**How have you changed
your business???**

Thank you!

Any Questions?

www.iowabeefcenter.org

www.econ.iastate.edu/faculty/lawrence/