Cattle Cycle, Calf Numbers & Market Outlook

Dairy Beef for Profit August 6-7, 2013

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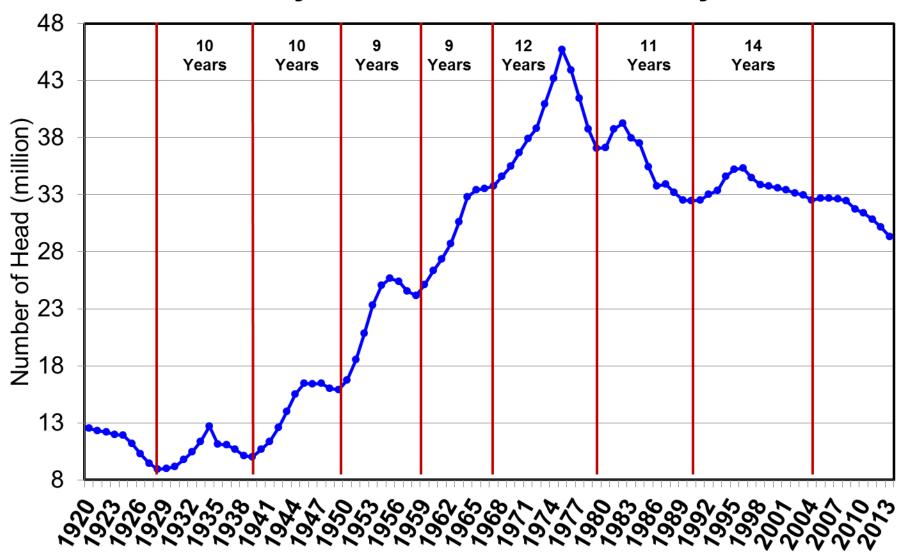




Cow-Calf Sector Expansion?

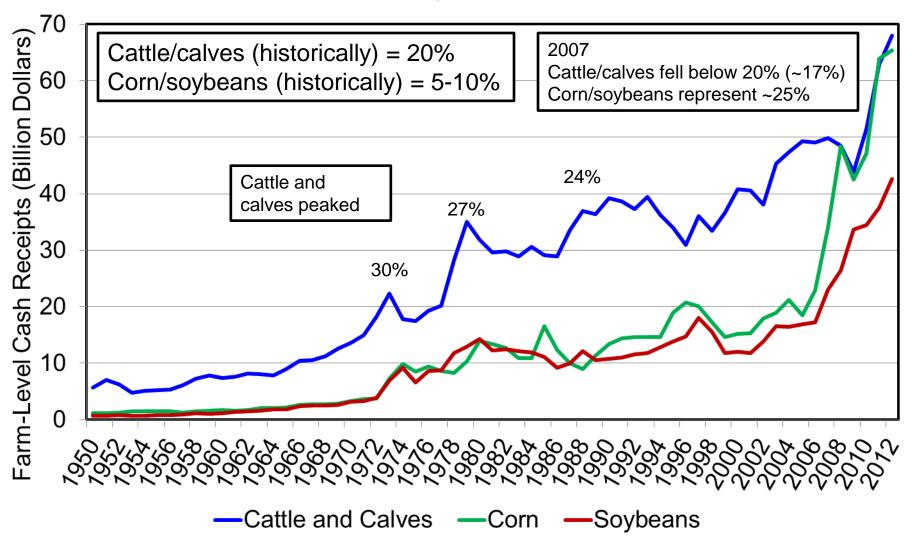
- Jan 1, 2013 inventory of beef cows and heifers (29.3 mil hd) that calved -2.9% (lowest since 1962)
 - Multi-year trend in reduced supplies
- National herd expansion: Yes/No?, Where?, Who?
 - Beef replacement females (5.4 mil hd) +1.9% more than last year
 - Misleading: larger than '11 & '12, but no other year since 1990
 - Has recent drought, higher crop prices, and demand to shift pasture to crops extended liquidation?
- Role of "cattle cycle" is less pronounced today
 - Factors beyond "base fundamentals" rising in importance

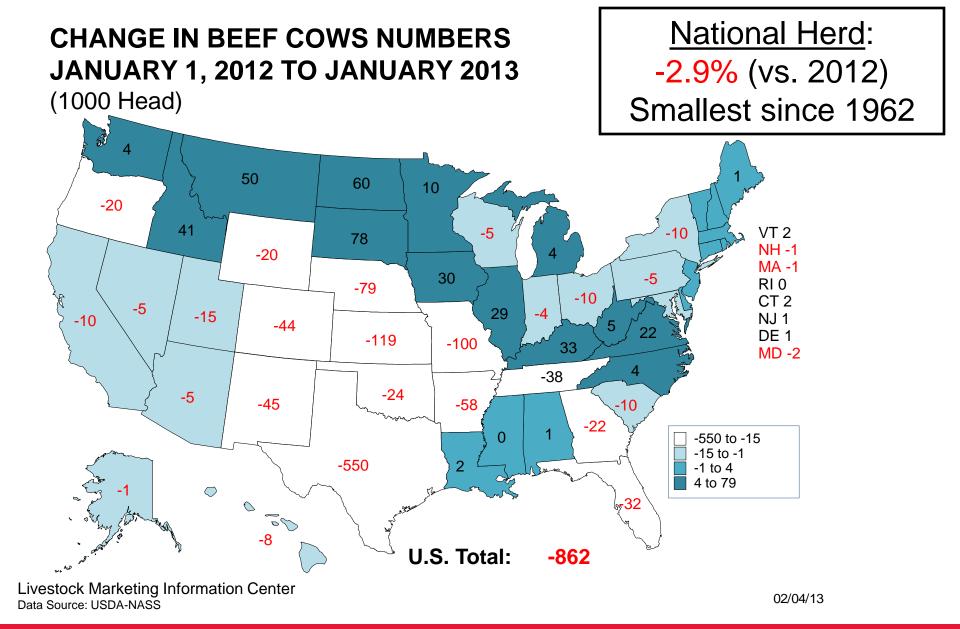
January 1 U.S. Beef Cow Inventory



Farm-Level Cash Receipts

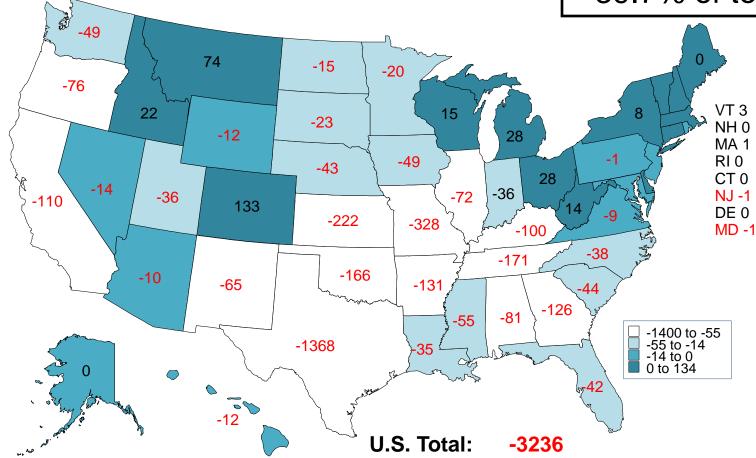
U.S., Annual







10-Year Change:-11.2% fewer cows39.7% of total in TX



Livestock Marketing Information Center

Data Source: USDA-NASS 02/04/13

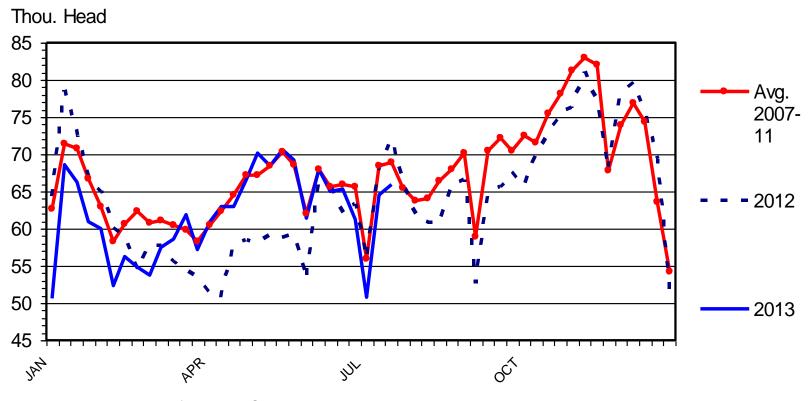
2013 YTD Slaughter

+1.9% (vs. 2012)

-3.9% (vs. 2007-11)

BEEF COW SLAUGHTER

Federally Inspected, Weekly

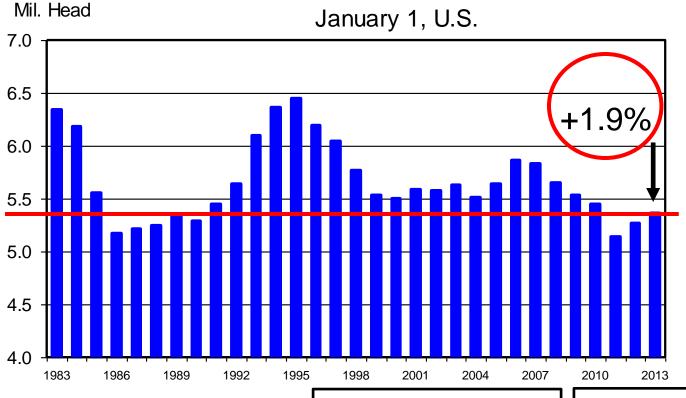


Livestock Marketing Information Center

Data Source: USDA-AMS & USDA-NASS

C-S-34 08/02/13

HEIFERS HELD AS BEEF COW REPLACEMENTS



Livestock Marketing Information Center

Data Source: USDA-NASS

C-N-38 02/01/13

Largest Decreases:

OK: -40,000 (-12.5%)

NE: -35,000 (-9.1%)

CO: -25,000 (-16.1%)

KS: -20,000 (-8.0%)

AZ: -13,000 (-37.1%)

Largest Increases:

TX: +50,000 (+9.1%)

ID: +30,000 (+33.3%)

VA: +29,000 (+30.5%)

ND: +24,000 (+13.1%)

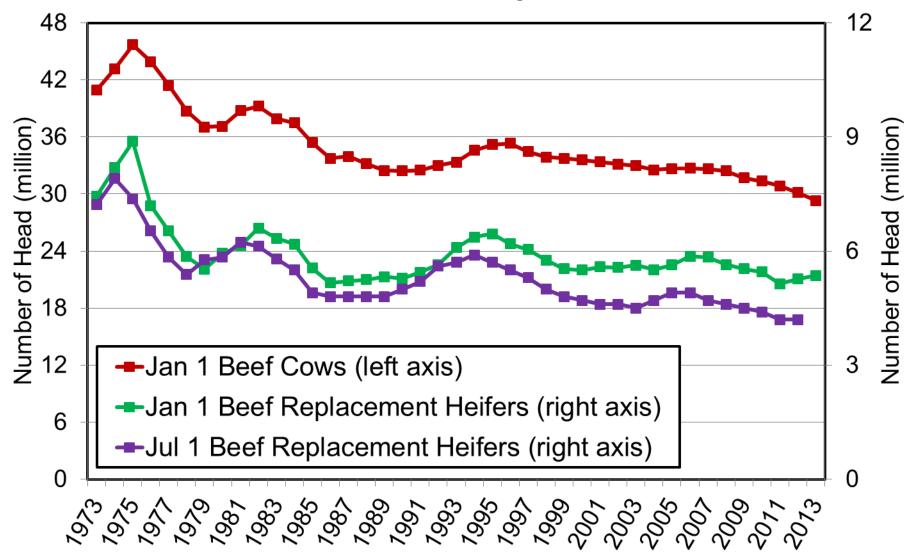
MT: +20,000 (+4.8%)

... IA: +10,000 (+7.1%)

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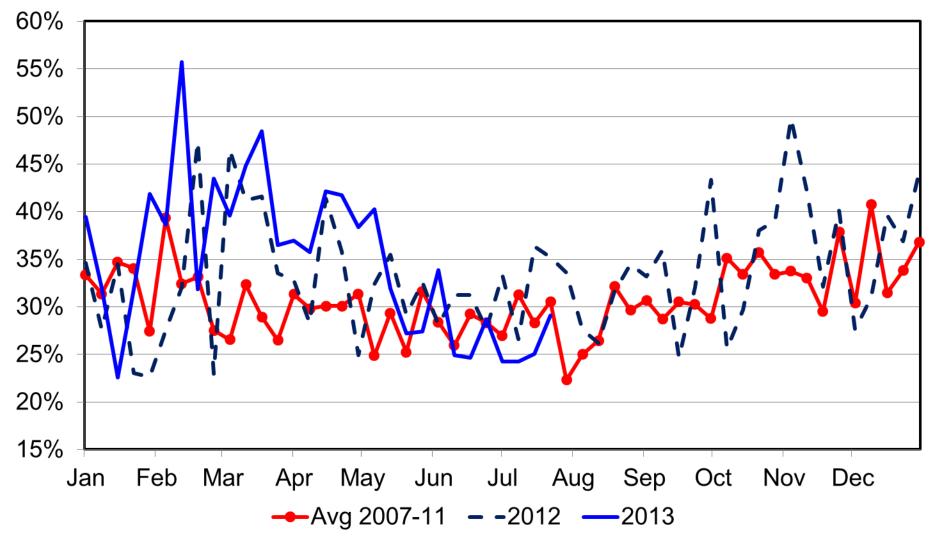
Source: USDA/NASS

U.S. Beef Cows & Beef Replacement Heifers



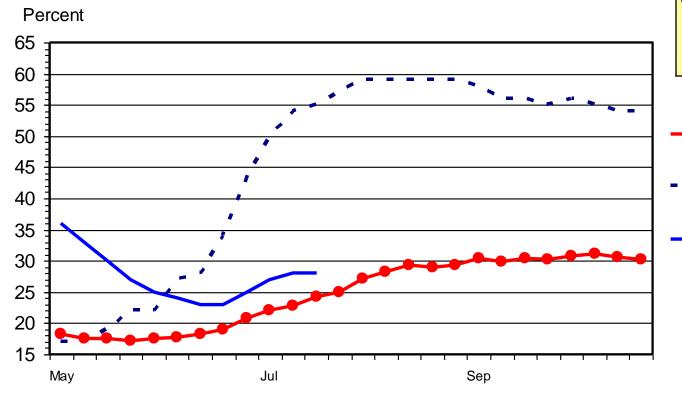
Heifer Slaughter as Percent of Total Steer & Heigher Slaughter

Iowa/So Minnesota, Weekly



US RANGE AND PASTURE CONDITION

Percent Poor and Very Poor, Weekly



Beef Cows in States with 40% Poor to Very Poor Last year Cows % of Total 07/15/12 22,165 73.70% 07/22/12 23,084 76.75% 07/29/12 23,084 76.75% This Year 07/14/13 25.54% 7,464 07/21/13 8,158 27.92% 07/28/13 10,490 35.90%

Avg. 2007-11

2012

2013

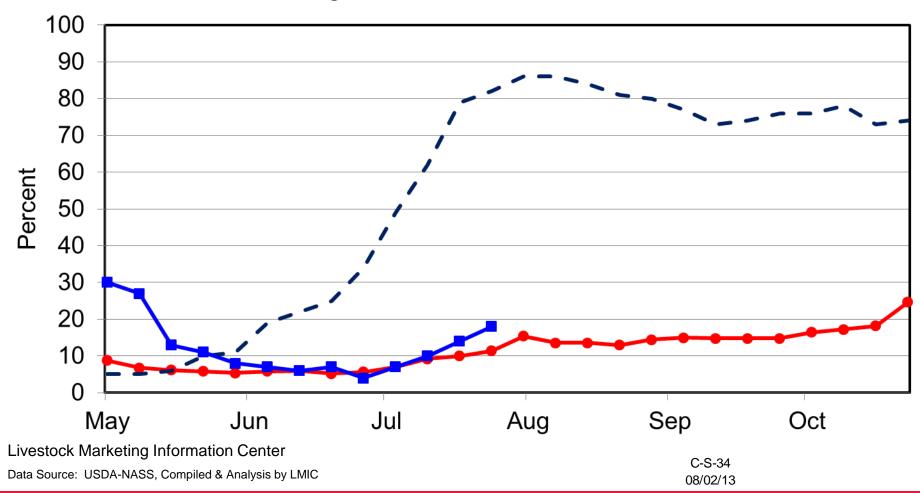
Livestock Marketing Information Center

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

G-NP-30 07/22/13

Iowa Range and Pasture Condition

Percent Poor and Very Poor, Weekly



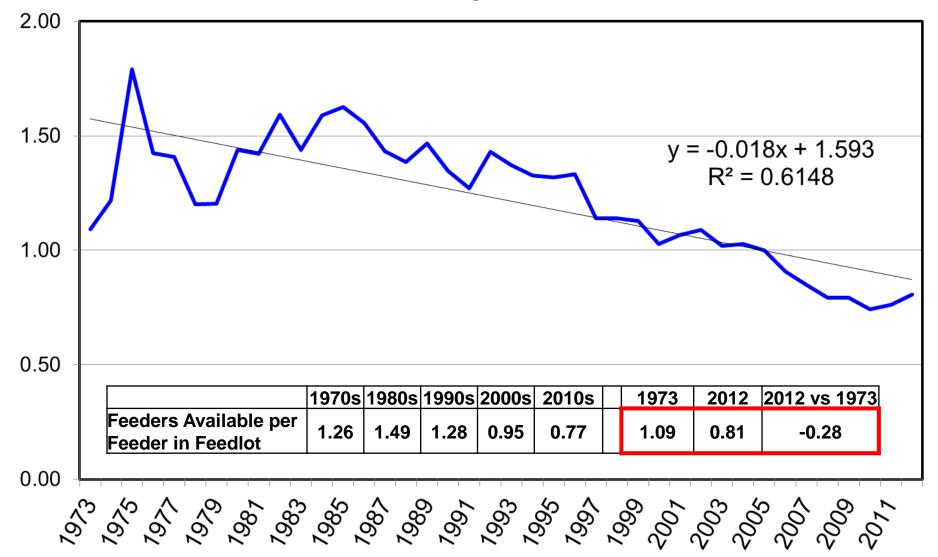
U.S. Feeder Cattle Supply Overview

	1970s	1980s	1990s	2000s	2010s	1973	2012	2012 vs 1973
Cows & Heifers that have Calved	52,431	46,682	43,397	41,922	39,948	52,553	39,387	-13,166
1,000 Head								
Calf Crop	47,208	42,068	39,226	37,298	35,092	49,194	34,279	-14,915
1,000 Head								
All Cattle & Calves	122,156	108,284	99,676	96,121	92,444	121,539	90,769	-30,771
1,000 Head								
January 1, All Cattle on Feed	13,053	11,686	12,755	14,118	13,926	14,432	14,121	-311
1,000 Head								
Feedlot Inventory/Total Cattle Inventory	10.7%	10.8%	12.8%	14.7%	15.1%	11.9%	15.6%	3.7%
Feedlot Inventory/Calf Crop	27.7%	27.8%	32.5%	37.9%	39.7%	29.3%	41.2%	11.9%
Feeders Available per Feeder in Feedlot	3.62	3.60	3.08	2.64	2.52	3.41	2.43	-0.98

Iowa Feeder Cattle Supply Overview

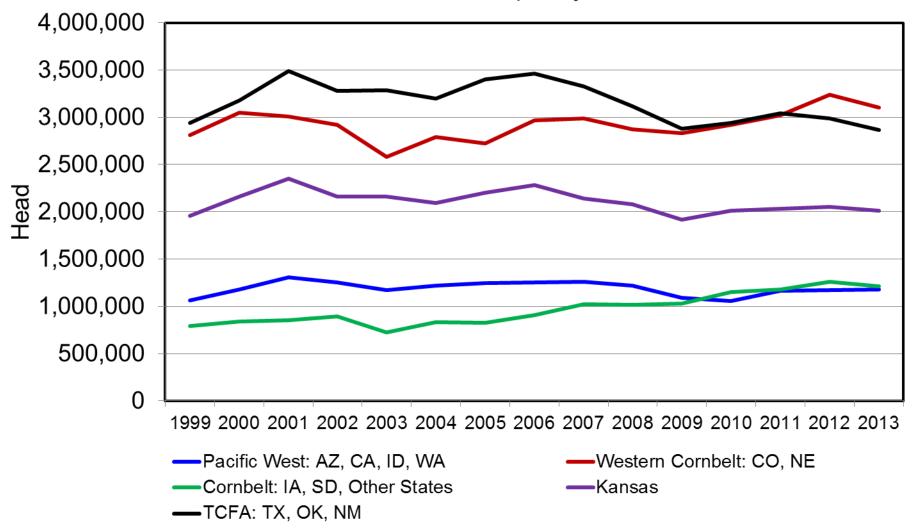
	1970s	1980s	1990s	2000s	2010s	1973	2012	2012 vs 1973
Cows & Heifers that have Calved	2,222	1,759	1,326	1,192	1,083	2,262	1,100	-1,162
1,000 Head								
Calf Crop	2,100	1,606	1,216	1,088	1,037	2,100	1,050	-1,050
1,000 Head								
All Cattle & Calves	7,588	5,680	4,075	3,710	3,883	7,770	3,900	-3,870
1,000 Head								
January 1, All Cattle on Feed	1,664	1,079	953	1,149	1,347	1,922	1,300	-622
1,000 Head								
Feedlot Inventory/Total Cattle Inventory	21.9%	19.0%	23.4%	31.0%	34.7%	24.7%	33.3%	8.6%
Feedlot Inventory/Calf Crop	79.2%	67.2%	78.4%	105.6%	129.9%	91.5%	123.8%	32.3%
Feeders Available per Feeder in Feedlot	1.26	1.49	1.28	0.95	0.77	1.09	0.81	-0.28

IA Feeders Available per Feeder in Feedlot



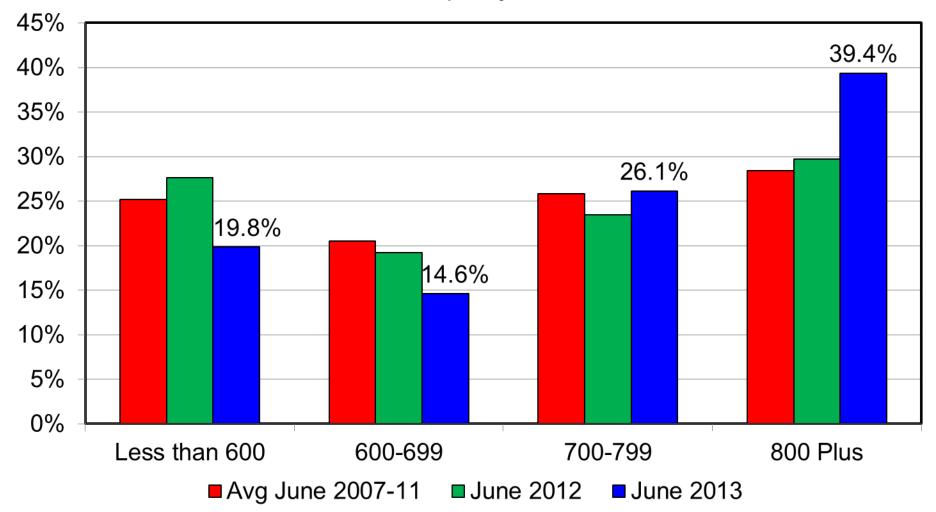
July 1 Cattle on Feed by Region

1,000+ Head Capacity



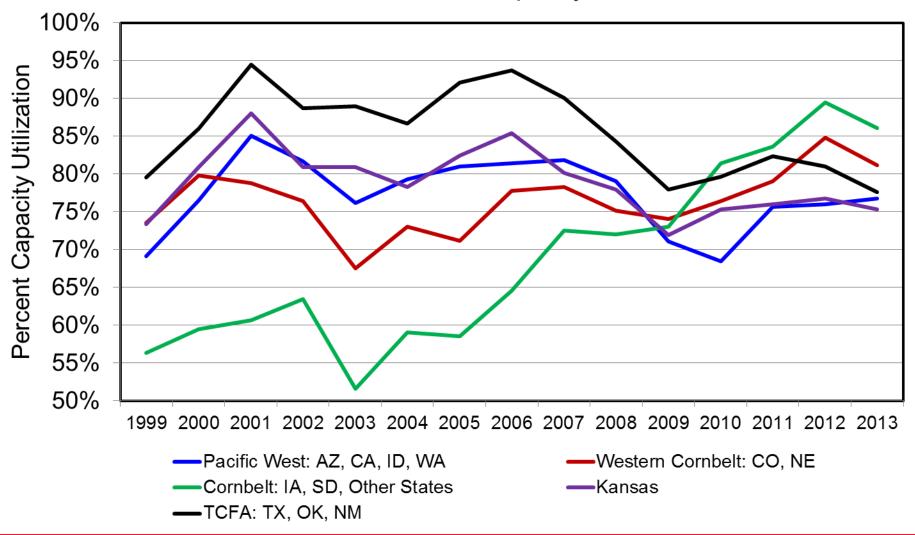
Cattle Placed on Feed During June by Weight Group Feedlots

Weight Group as % of Total Placements 1,000+ Capacity Feedlots



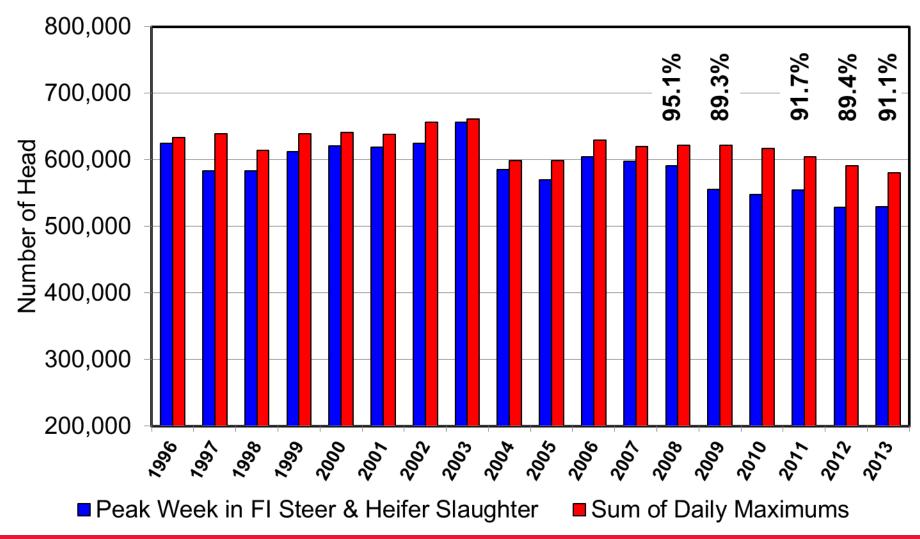
July 1 COF Capacity Utilization by Region

1,000+ Head Capacity



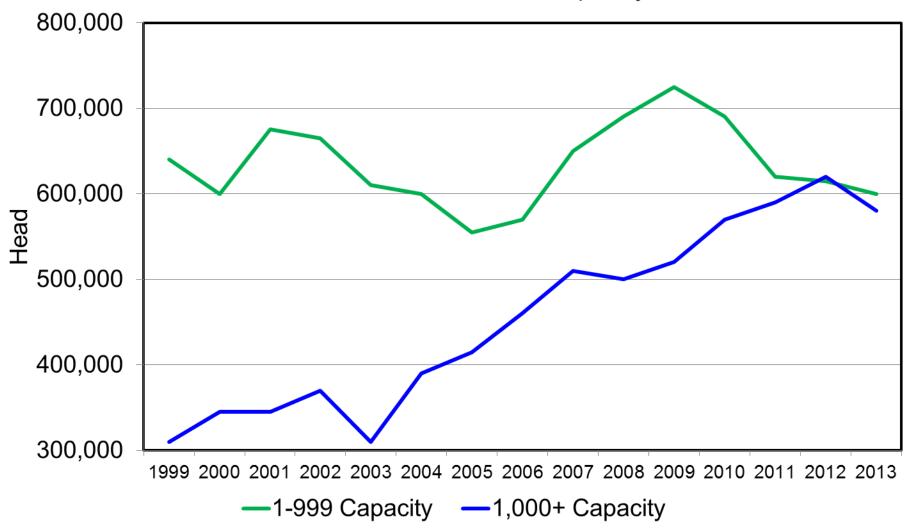
Weekly FI Steer & Heifer Slaughter Capacity

1994 to YTD 2013



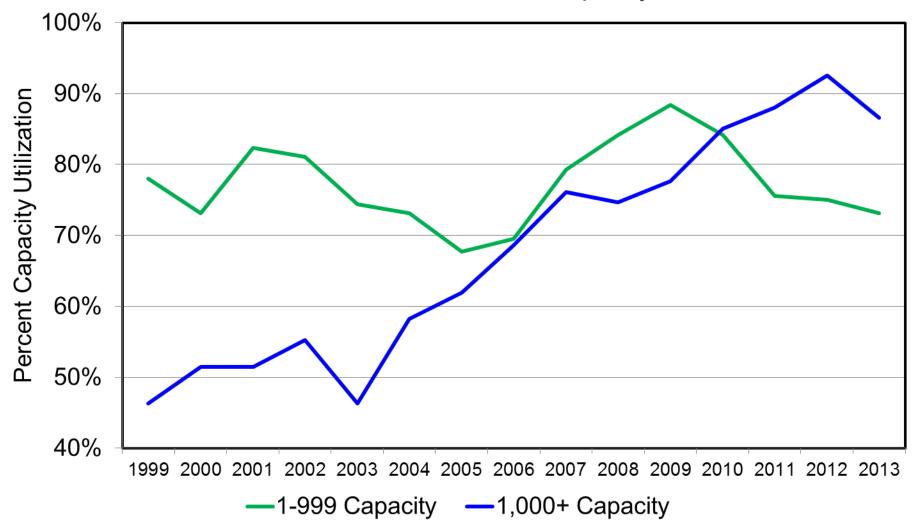
July 1 Cattle on Feed in Iowa

1-999 and 1,000+ Head Capacity



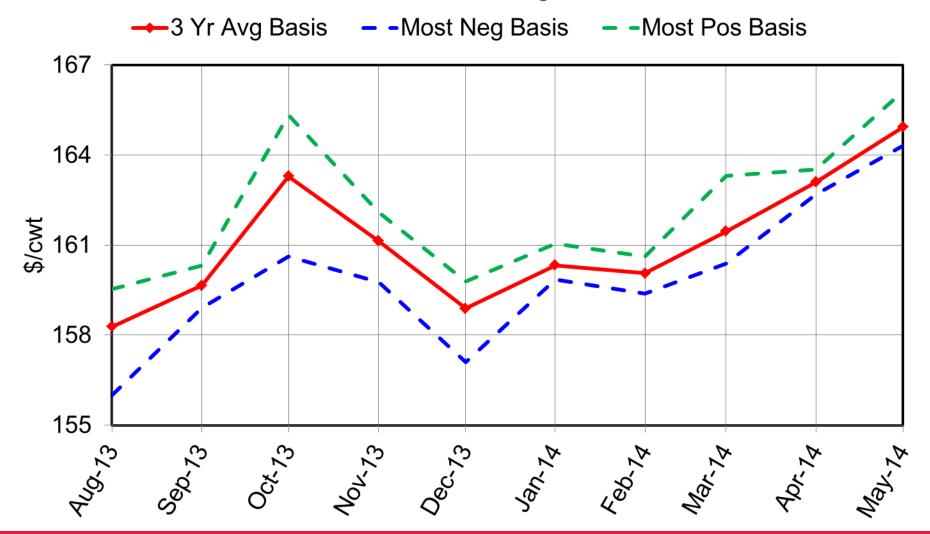
July 1 COF Capacity Utilization in Iowa

1-999 and 1,000+ Head Capacity



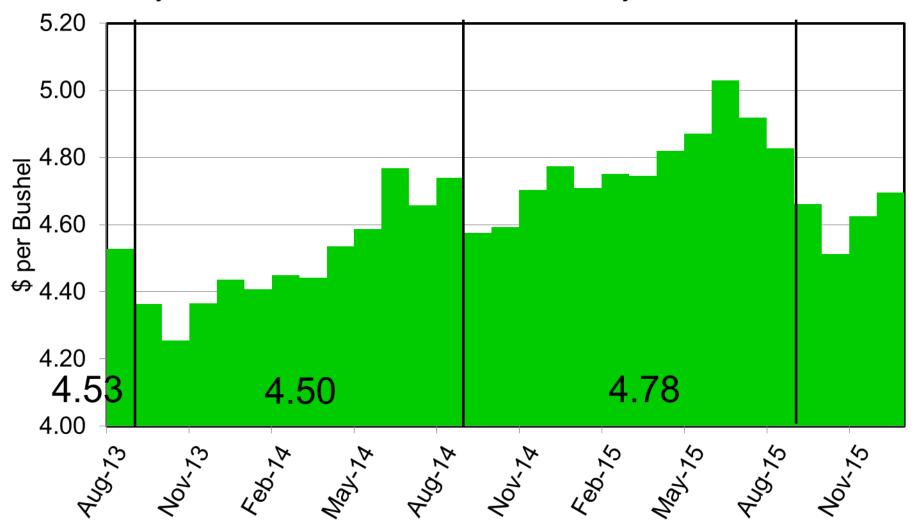
Iowa Feeder Steer Price Forecast, 700-800lb

CME Futures Based, August 5, 2013



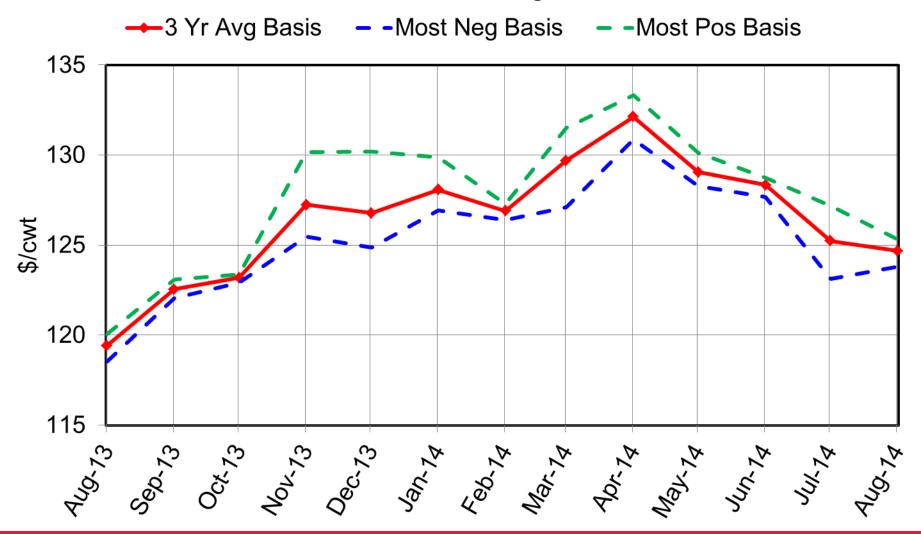
Corn Price Forecasts

Projected with North Central Iowa Basis Adjusted Futures



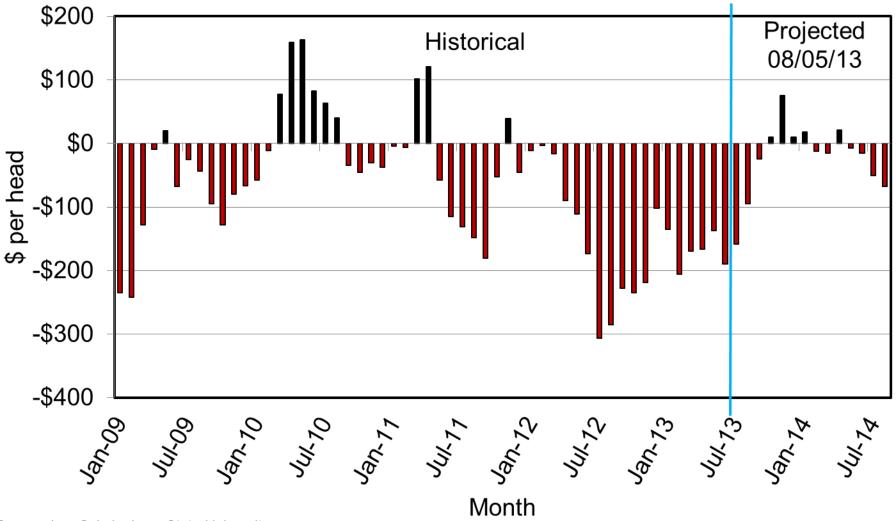
Iowa/So Minnesota Live Steer Price Forecasts

CME Futures Based, August 5, 2013



Estimated Returns to Finishing Yearling Steers, Iowa

Historical and Projected with Basis Adjusted Futures



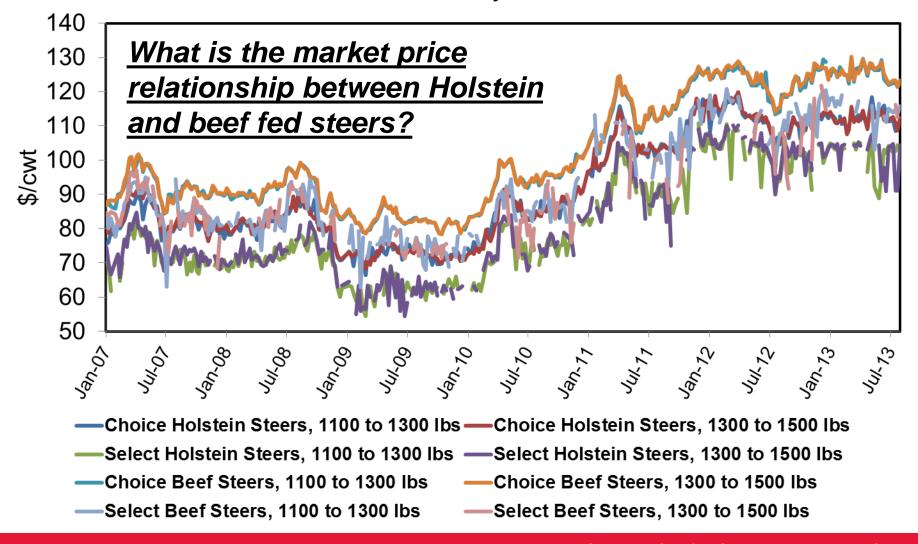
Source: Lee Schulz, Iowa State University

Quarterly Forecasts (LMIC:08/05/2013)

Year Quarter	Commercial Slaughter (1,000 hd)	Change from Year Ago (%)		Average Dressed Weight (lbs)	Change from Year Ago (%)		Commercial Beef Production (mil lbs)	from	
2012									
1	8,026	-3.5		783	1.5		6,282	-2.0	
II	8,309	-3.8		779	2.6		6,473	-1.3	
Ш	8,333	-4.6		790	2.5		6,586	-2.2	
IV	8,283	-1.3		794	2.6		6,572	1.3	
Year	32,951	-3.3		786	2.3		25,913	-1.1	
2013									
1	7,779	-3.1		793	1.4		6,172	-1.7	
II	8,325	0.2		783	0.5	4	6,517	0.7	
Ш	8,096	-2.8		797	0.8		6,452	-2.0	
IV	7,662	-7.5		799	0.7		6,120	-6.9	
Year	31,862	-3.3	ı	793	8.0		25,261	-2.5	
2014									
1	7,221	-7.2		802	1.1		5,793	-6.1	
Ш	7,749	-6.9		791	1.1		6,130	-5.9	
Ш	7,549	-6.8		805	1.0		6,077	-5.8	
IV	7,151	-6.7	4	806	0.9		5,763	-5.8	4
Year	29,670	-6.9		801	1.0		23,763	-5.9	

Iowa Holstein and Beef Breed Steer Prices

Weekly



Iowa Holstein-Beef Steer Price Spread by Year, \$/cwt, 2007-2012¹

Holstein - Beef Breed	2007	2008	2009	2010	2011	2012
Choice, 1100 to 1300 lbs	-9.98	-9.45	-9.84	-9.52	-9.34	-11.40
Choice, 1300 to 1500 lbs	-8.95	-9.67	-9.71	-9.92	-9.79	-11.27
Select , 1100 to 1300 lbs	-12.53	-12.56	-12.90	-12.39	-12.27	-11.47
Select, 1300 to 1500 lbs	-11.93	-11.21	-12.59	-8.24	-5.71	-4.73

Data source: USDA/AMS; weekly weighted average prices; Dunlap, Sheldon, and Tama Iowa.

¹ Holstein steers - Choice 2-3 and Select 2-3; Beef Steers - Choice 2-4 and Select 2-3.

Iowa Holstein-Beef Breed Steer Price Spread by Month, \$/cwt, 2007-2012¹

	Holstein Steer - Beef Breed Steer							
	Cho	oice	Select					
	1100 - 1300	1300 - 1500	1100 - 1300	1300 - 1500				
January ²	-10.02	-9.90	-14.42	-12.78				
February ²	-9.66	-9.61	-13.51	-13.20				
March ²	-8.66	-9.51	-11.62	-14.32				
April ²	-10.31	-10.32	-10.51	-11.65				
May ²	-11.19	-10.95	-12.20	-10.59				
June ²	-9.67	-10.08	-11.34	-10.29				
July ²	-10.76	-10.41	-10.90	-8.94				
August ²	-8.97	-8.93	-11.29	-10.53				
September	-10.01	-10.05	-13.30	-8.29				
October	-9.75	-9.52	-12.97	-10.25				
November	-9.28	-10.23	-8.41	-7.21				
December	-11.18	-10.87	-11.63	-11.35				

Data source: USDA/AMS; weekly weighted average prices; Dunlap, Sheldon, and Tama Iowa.

¹ Holstein steers - Choice 2-3 and Select 2-3; Beef Steers - Choice 2-4 and Select 2-3.

² 2013 data included: 01/05/13 through 08/3/13.

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Ag Cycles

The following series of papers is titled "Aq Cycles." Agricultural production and prices have always been cyclical. The influence of weather on production is one factor. The tendency of individuals to react rather than anticipate market signals also contributes to boom and bust periods. The length of the cycle differs with the commodity, and the weather and cyclical prices in one commodity will influence cyclical behavior in another market.

This collection of papers is an analysis of the current state of lowa agriculture from the crop, livestock, and land market perspective. It examines the question of price levels and price risk going forward. It also includes a recent analysis and papers from the Federal Reserve Bank of Kansas City, which examines previous agricultural cycles and how they played out through borrower's behavior. Combined, this analysis provides lessons from the past and milestones as potential guides to the future.

This analysis is not intended to be a forecast of annual prices in the coming months or years. Nor is it predicting gloom and doom for agriculture. Rather, it is intended to help put current economic conditions into a historic context, better understand the factors that will influence prices and margins in the future, and help you prepare for whatever direction the market turns.

- Introduction
- A Crop Marketing Perspective
- Livestock Market Assessment and Long Term Prospective
- Land Values
- What Futures Markets Project
- Agricultural Debt

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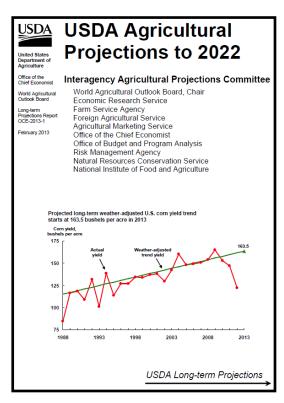
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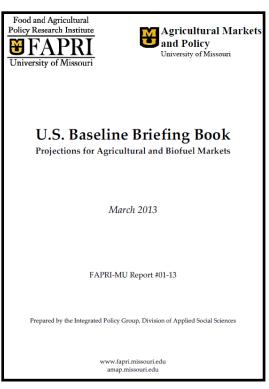
Iowa Beef Center http://www.iowabeefcenter.org/

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Projections





Iowa projections extrapolated from US 10-year projections

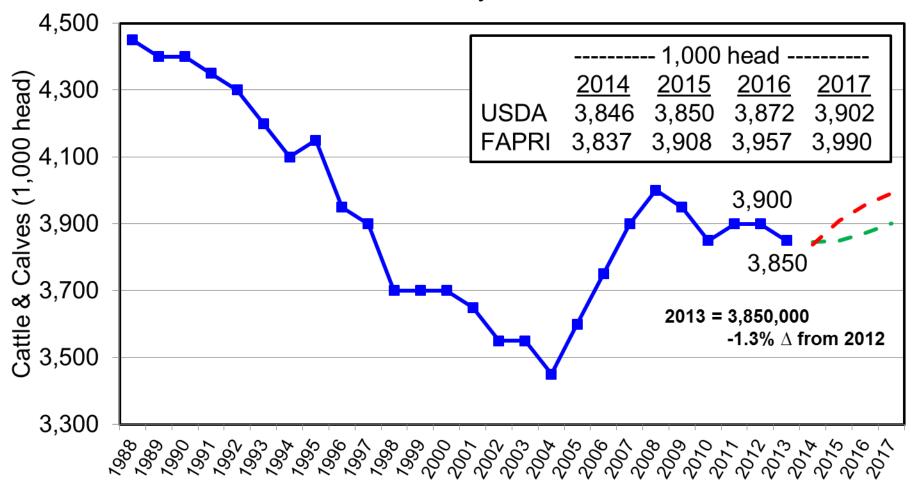
Projections assume Iowa share of U.S. inventory remains the same throughout the projection period as the last reported USDA/NASS estimate

FAPRI: http://www.fapri.missouri.edu/outreach/publications/2013/FAPRI_MU_Report_01_13.pdf

USDA: http://www.ers.usda.gov/publications/oce-usda-agricultural projections/oce131.aspx#.Uegv-m0pi72

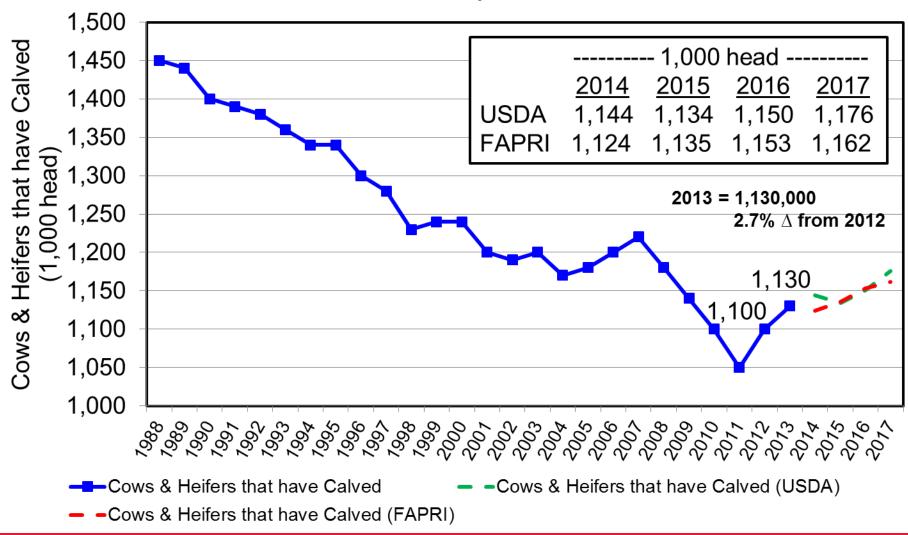
Iowa Cattle & Calves

January 1

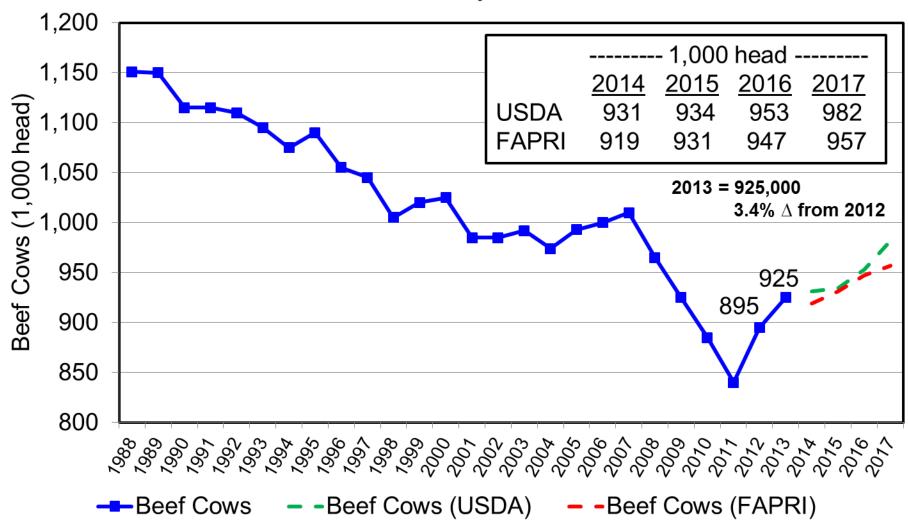


Cattle & Calves - - Cattle & Calves (USDA) - - Cattle & Calves (FAPRI)

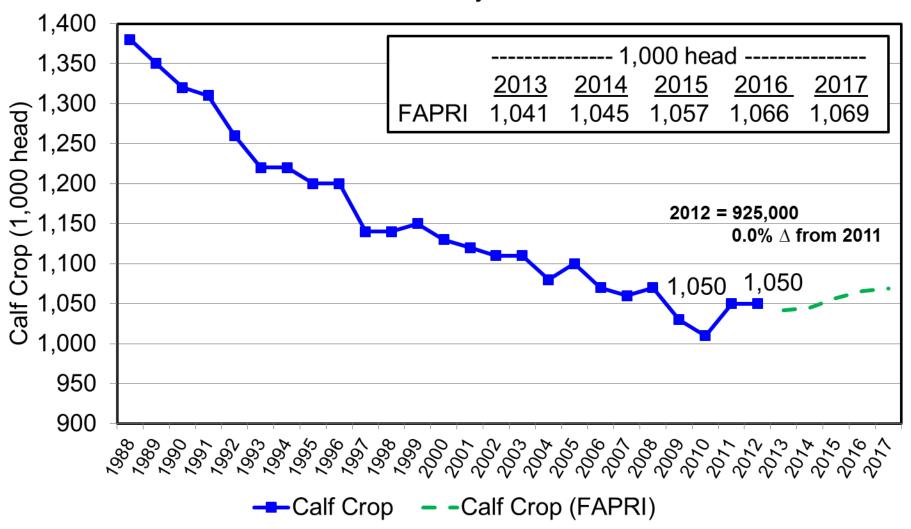
Iowa Cows & Heifers that have Calved



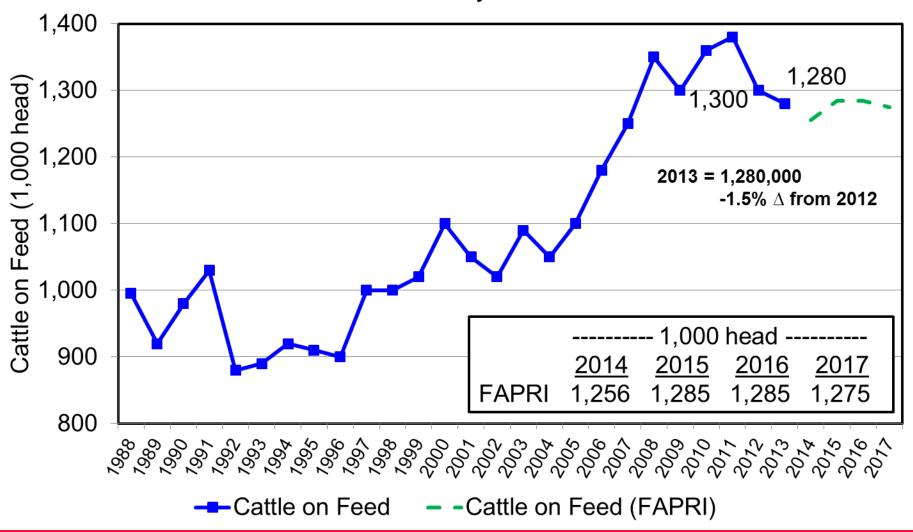
Iowa Beef Cows



Iowa Calf Crop



Iowa Cattle on Feed



Iowa Fed Cattle Marketings

