

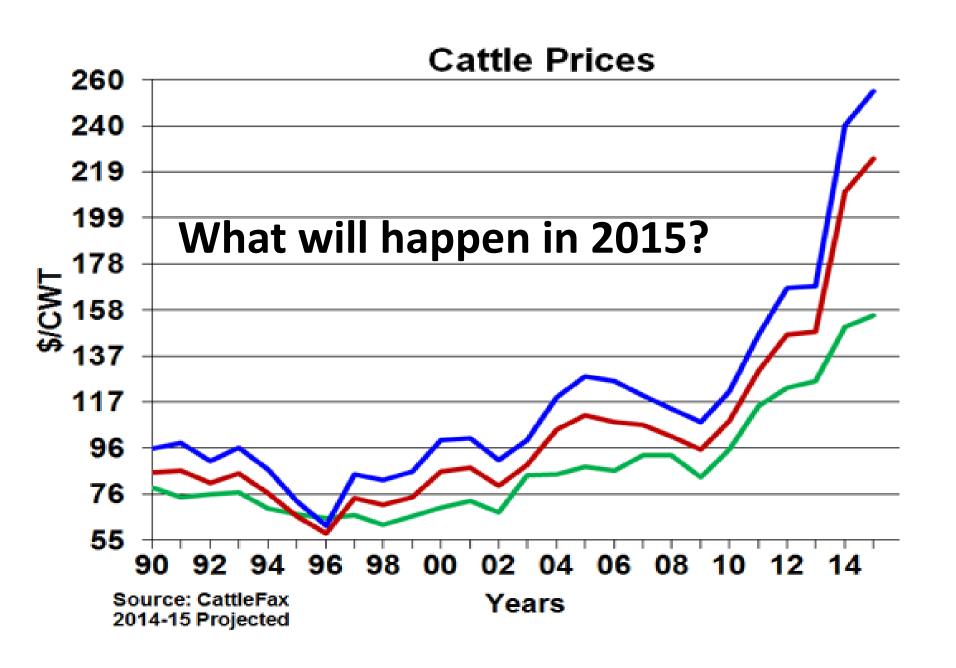
Beef Cattle Outlook

Walt Prevatt

Extension Economist and Professor

Auburn University

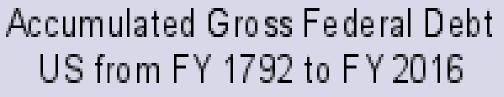
Southern Region Outlook Conference Embassy Suites Airport, Atlanta, GA September 22, 2014

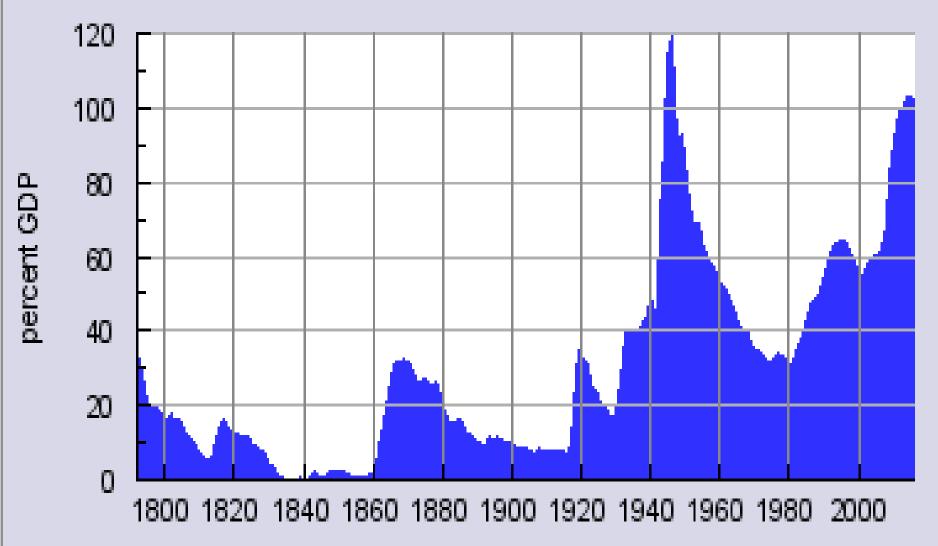


U.S. Economy	(?)
Domestic Beef Demand	(?)
Export Beef Demand	(?)
Exchange & Interest Rates	(?)
Energy Prices	(?)
Cattle Inventory Numbers	(?)
Pounds of Beef Production	(?)
Substitute Meat Production	(?)
Cost of Production-Cow/Calf	(?)
Cost of Production-Feedlot	(?)
Weather	(?)
Outliers (food safety, terrorists, war)	(?)

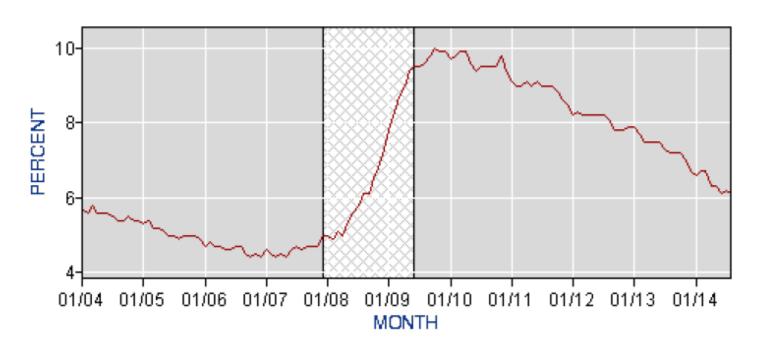
U.S. Economy

(+)





Unemployment rate (seasonally adjusted)



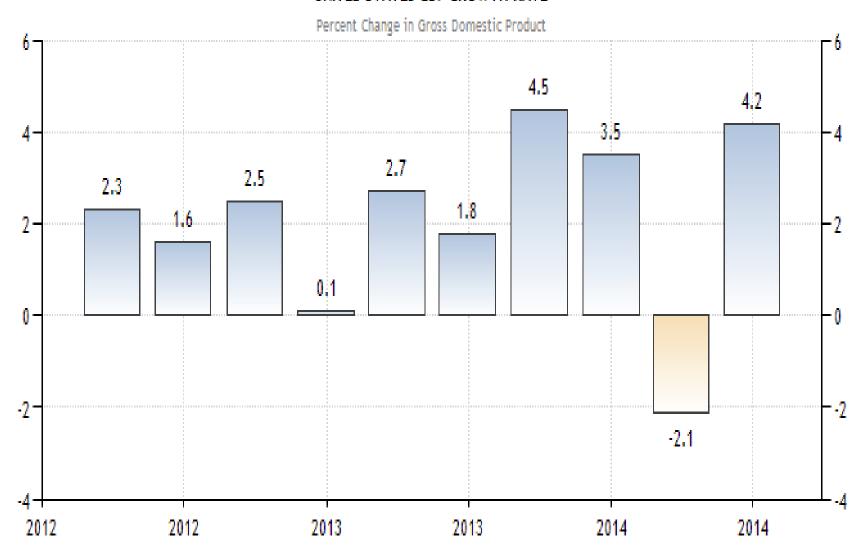
Note: Cross-hatched area represents recession.

Source: Bureau of Labor Statistics, Current Population Survey

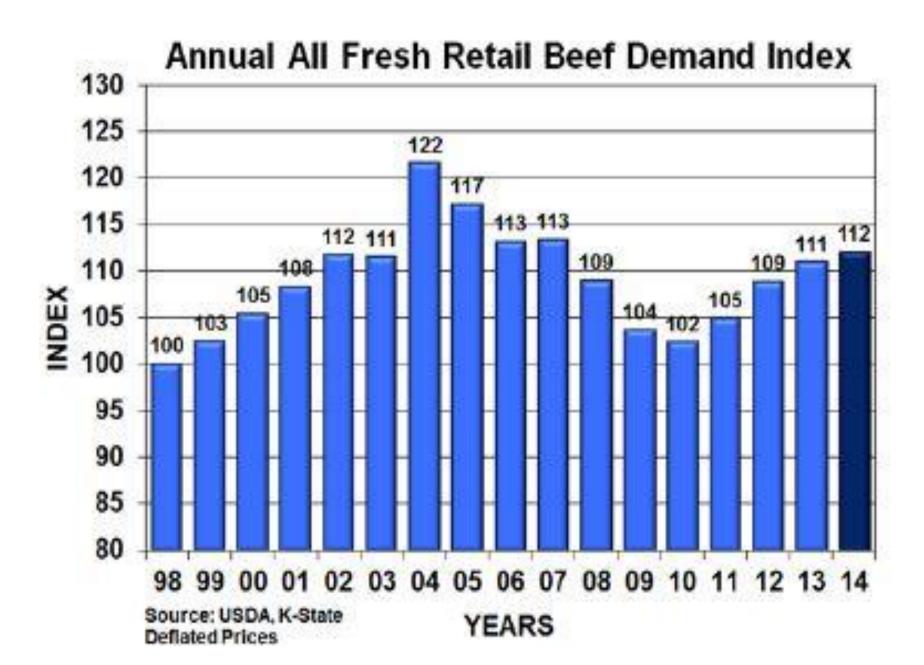
UNITED STATES GROSS NATIONAL PRODUCT



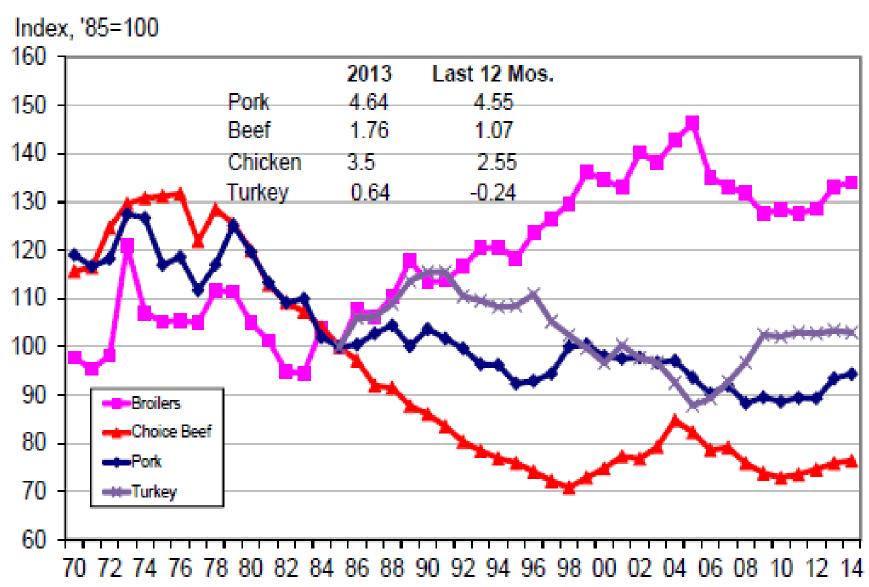
UNITED STATES GDP GROWTH RATE



U.S. Economy (+)Domestic Beef Demand (+)

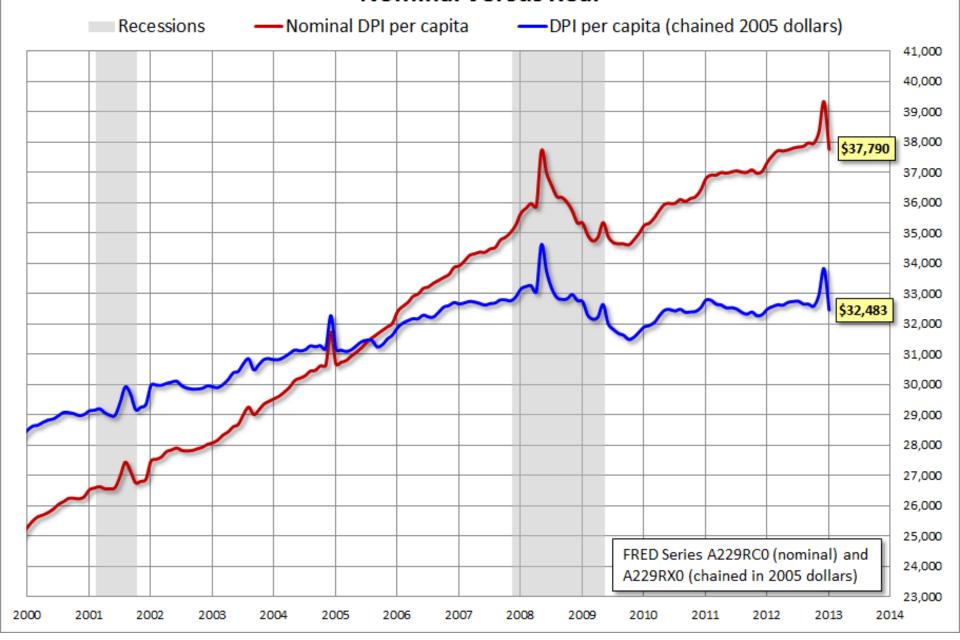


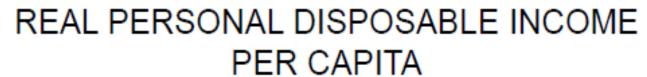
U.S. CONSUMER DEMAND INDEXES

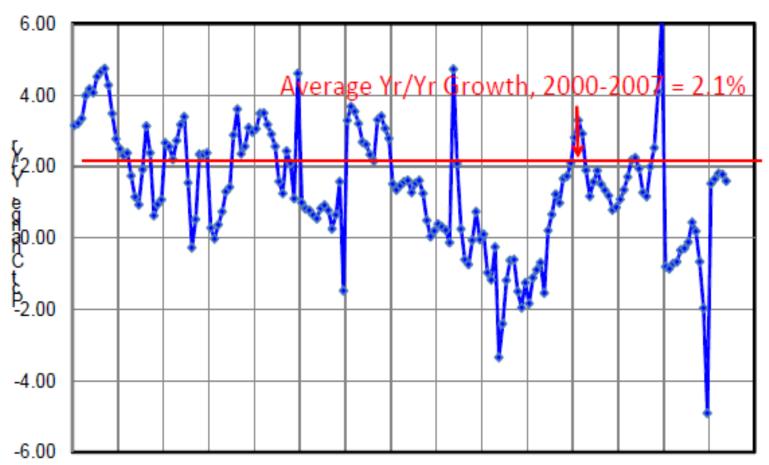


Source: Paragon Economics, Inc. using USDA data. Elasticity of demand assumed to be -0.75

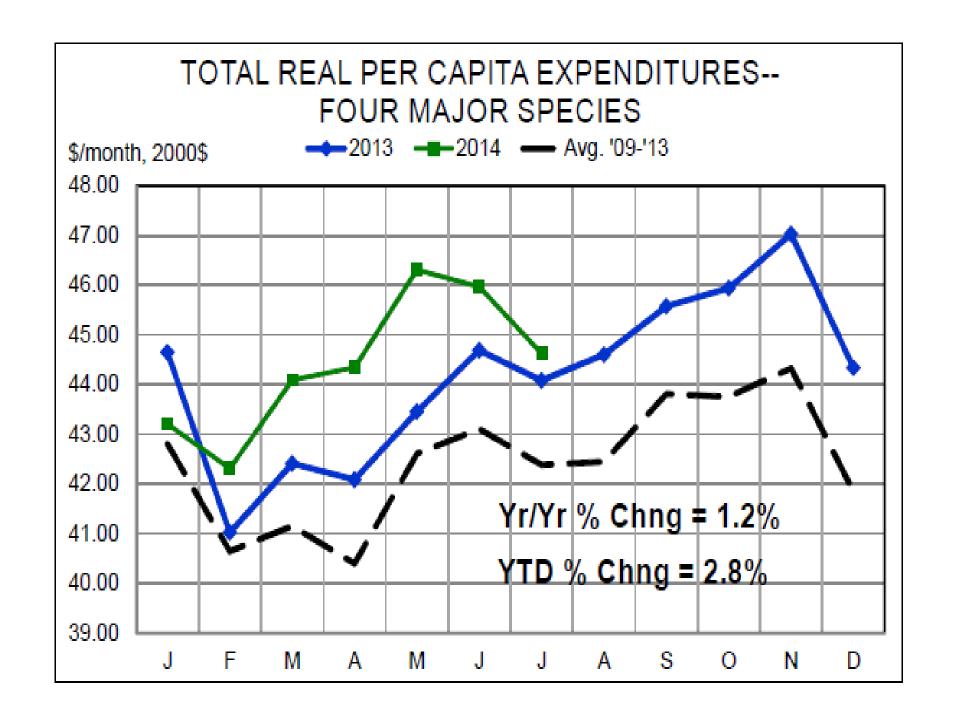
Disposable Personal Income Per Capita Nominal Versus Real

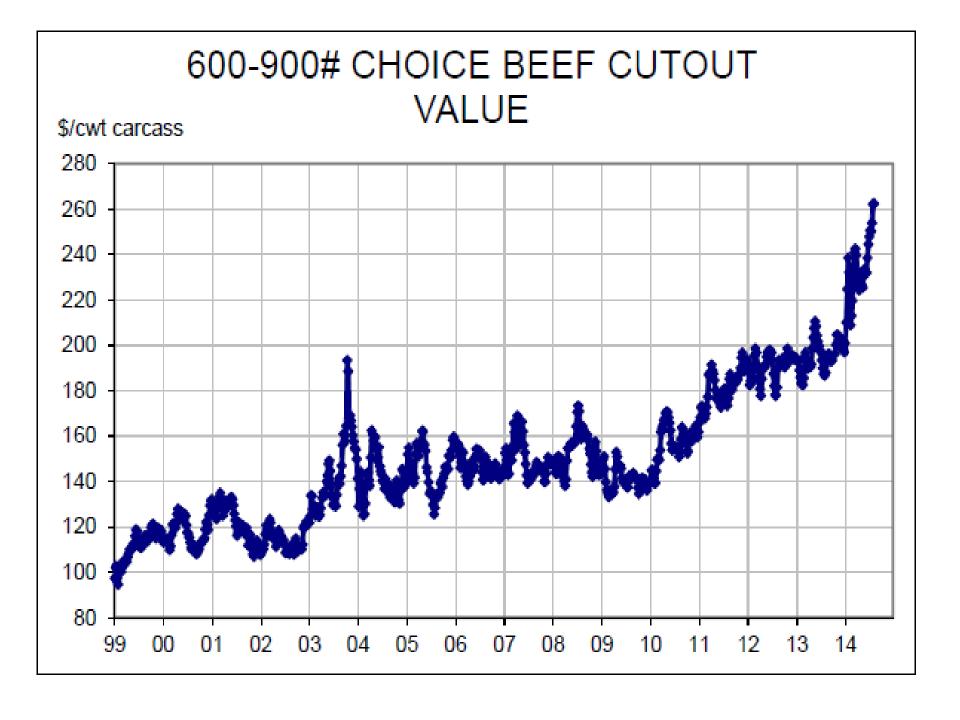


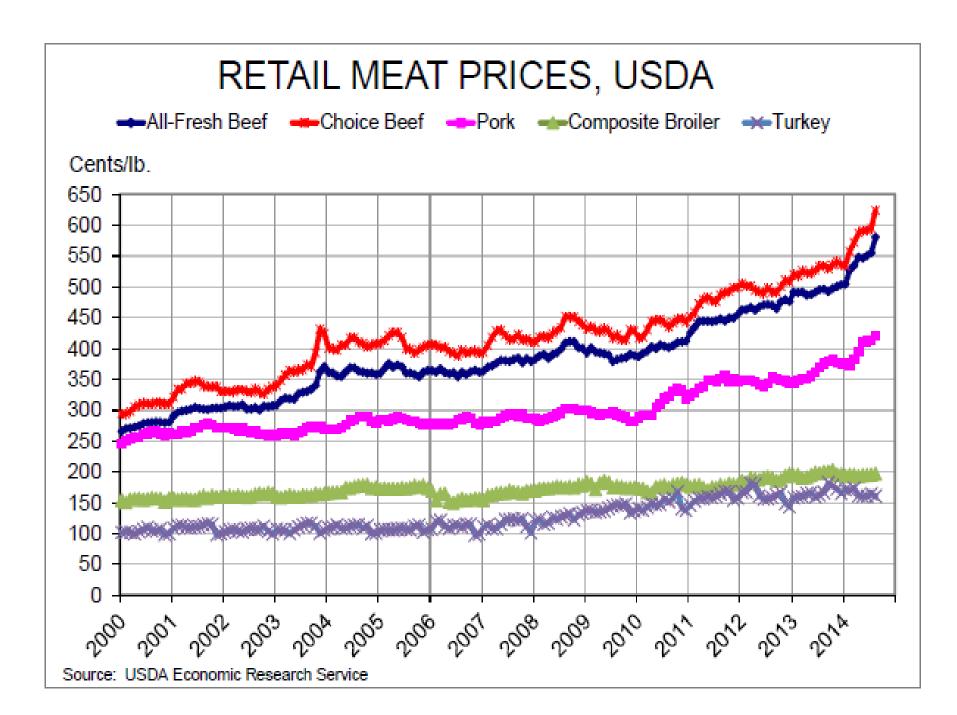




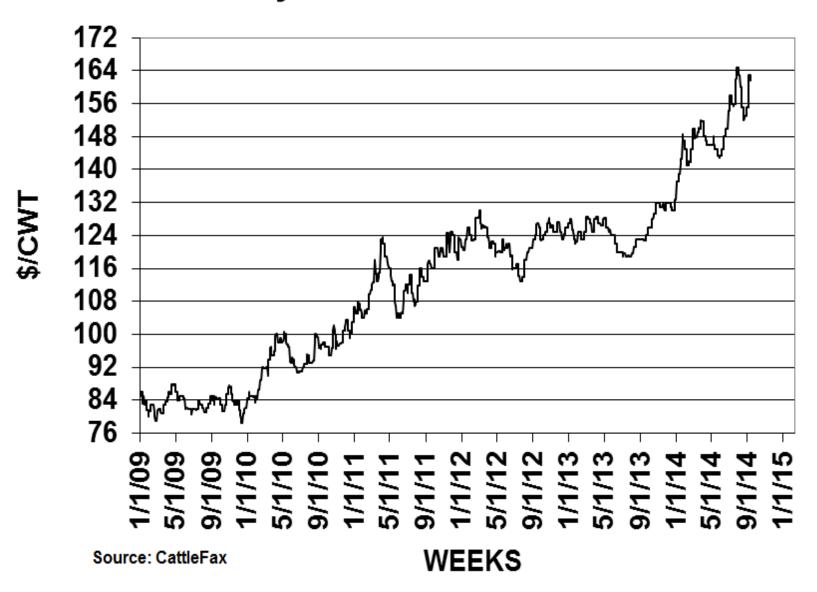
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014



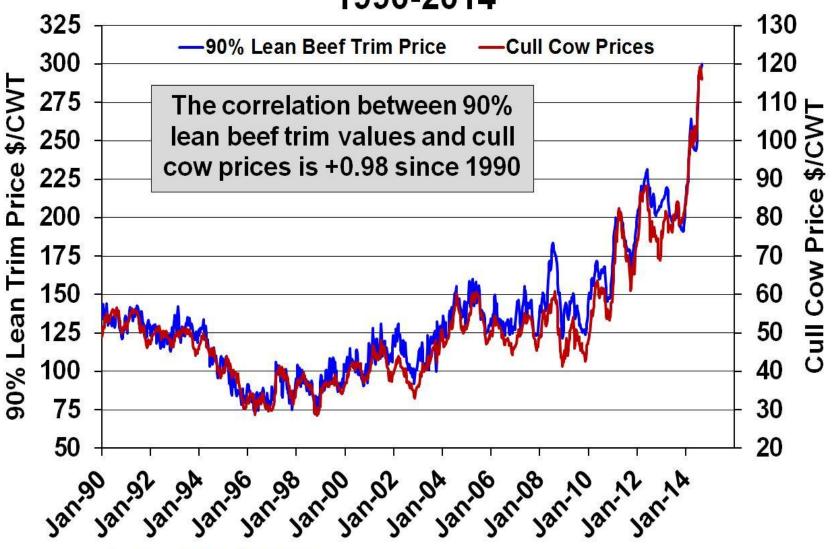




Daily Kansas Fed Cattle Price



Cull Cow vs. 90% Lean Beef Trim Price 1990-2014



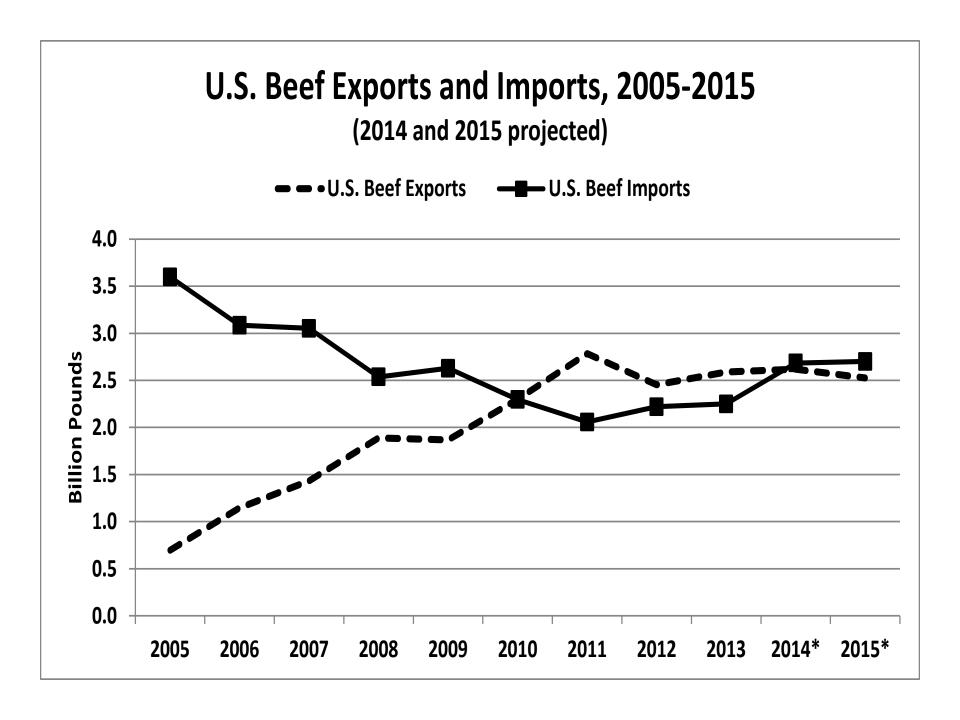
Source: USDA & CattleFax

U.S. Economy	(+)
Domestic Beef Demand	(+)
Export Beef Demand	(+)

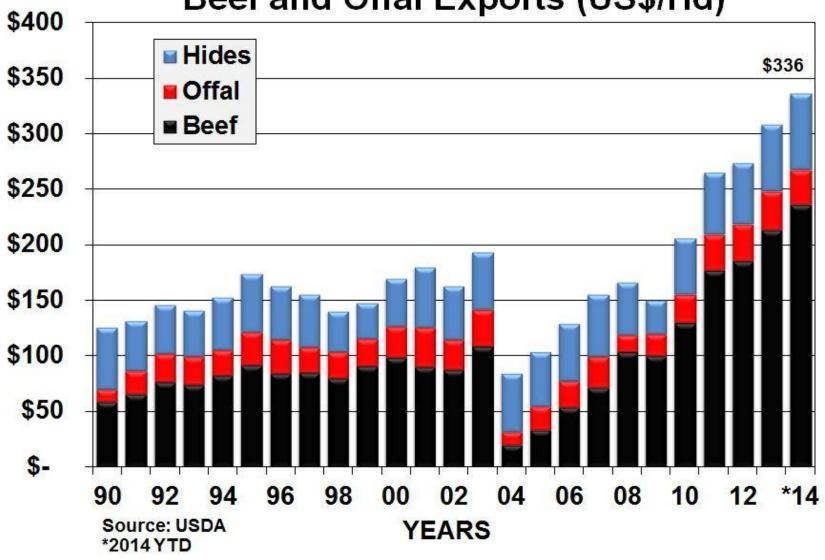
U.S. BEEF EXPORTS -- JULY & YTD 2014

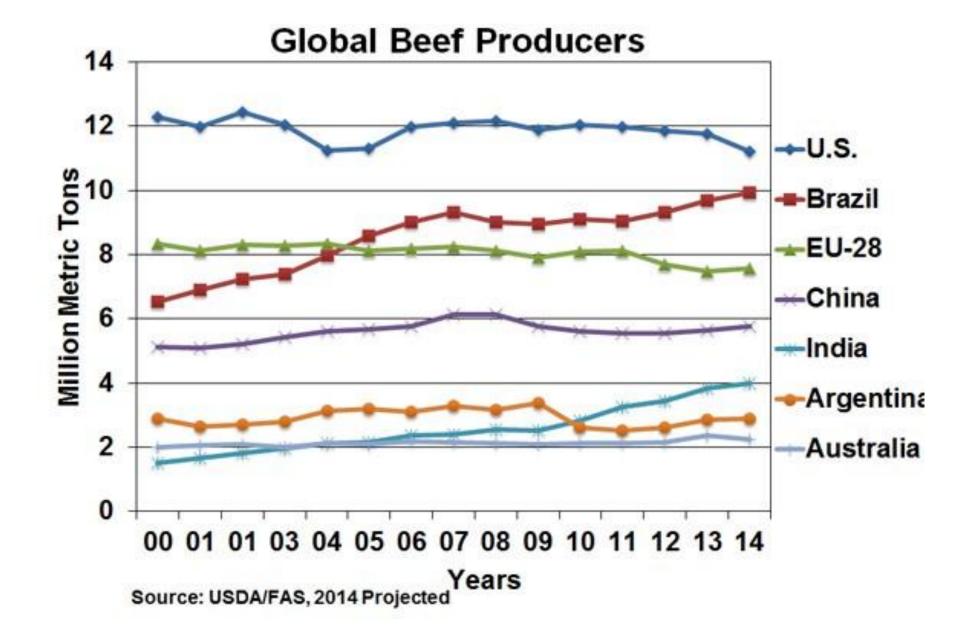
	July :	2013	July :	2014	Pct Cl	nange	Jan-Ju	ly 2013	Jan-Ju	ly 201 3	Pct C	hange
	Value	Volume	Value	Volume	Value	Volume	Value	Volume	Value	Volume	Value	Volume
	\$000	MT	\$000	MT			\$000	MT	\$000	MT		
World Total	552,174	88377	553,922	75,441	0.3%	-14.6%	3,038,071	482,098	3,435,771	492,848	13.1%	2.2%
1 Japan	136,947	25,292	143,607	22,668	4.9%	-10.4%	730,346	126,570	716,984	116,963	-1.8%	-7.6%
2 Canada	133,990	17,487	108,732	12,567	-18.9%	-28.1%	716,899	100,553	603,287	78,216	-15.8%	-22.2%
3 Mexico	70,530	13,473	74,553	11,831	5.7%	-12.2%	358,670	66,735	508,295	83,139	41.7%	24.6%
4 Hong Kong	86,827	13,316	71,046	9,182	-18.2%	-31.0%	354,850	56,063	556,851	78,895	56.9%	40.7%
5 Korea, South	40,889	7,385	63,318	8,757	54.9%	18.6%	282,358	51,467	425,902	61,613	50.8%	19.7%
6 Taiwan	14,989	1,807	29,341	3,286	95.8%	81.8%	139,413	17,393	161,724	19,299	16.0%	11.0%
7 Netherlands	13,573	1,272	12,265	1,105	-9.6%	-13.1%	74,732	6,693	74,229	6,662	-0.7%	-0.5%
8 Philippines	3,704	558	4,097	686	10.6%	23.0%	28,633	4,291	28,328	5,041	-1.1%	17.5%
9 Chile	6,248	1,075	4,362	668	-30.2%	-37.9%	34,369	5,786	35,736	5,434	4.0%	-6.1%
10 Dominican Republic	2,659	291	2,826	399	6.3%	37.3%	18,519	2,051	25,504	3,158	37.7%	53.9%
11 United Arab Emirates	5,272	475	5,162	399	-2.1%	-16.1%	35,287	3,155	34,701	2,919	-1.7%	-7.5%
12 Italy	4,861	429	4,254	362	-12.5%	-15.5%	39,932	3,415	43,101	3,515	7.9%	2.9%
13 Germany	3,578	421	3,924	345	9.7%	-18.1%	21,711	2,307	26,213	2,461	20.7%	6.7%
14 Kuwait	1,337	161	3,179	323	137.8%	100.4%	16,192	1,715	17,704	1,863	9.3%	8.6%
15 Bahamas, The	1,680	258	2,210	311	31.5%	20.7%	12,243	1,856	12,335	1,817	0.8%	-2.1%
16 Vietnam	1,527	218	1,070	128	-29.9%	-41.3%	20,163	3,146	9,742	1,404	-51.7%	-55.4%
17 Egypt	4,082	2,220	88	31	-97.8%	-98.6%	23,154	12,824	4,796	916	-79.3%	-92.9%
18 Russia	126	7	58	2	-54.0%	-72.7%	676	38	216	8	-68.0%	-77.6%

*Ranked by July 2014 volume



Beef and Offal Exports (US\$/Hd)



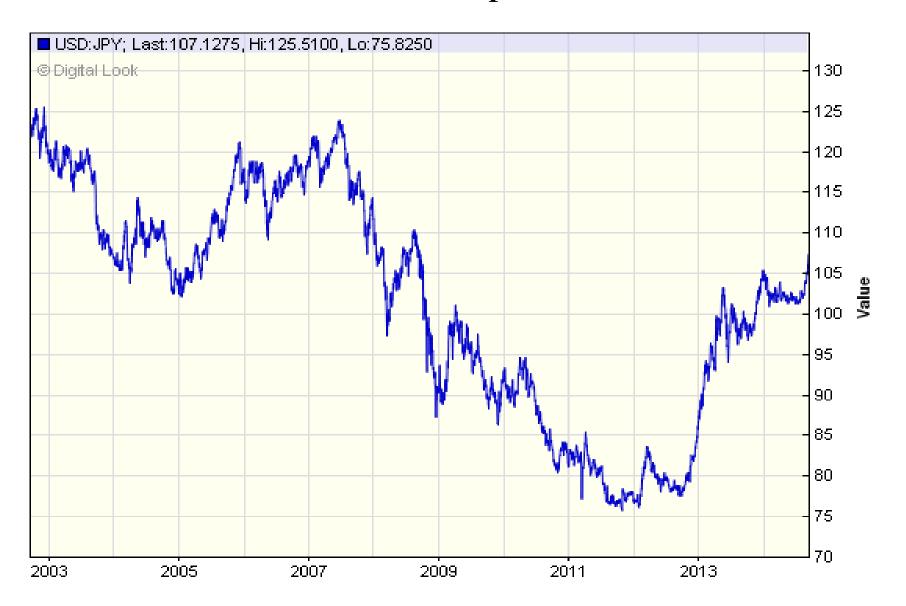


U.S. Economy	(+)
Domestic Beef Demand	(+)
Export Beef Demand	(+)
Exchange & Interest Rates	(?)

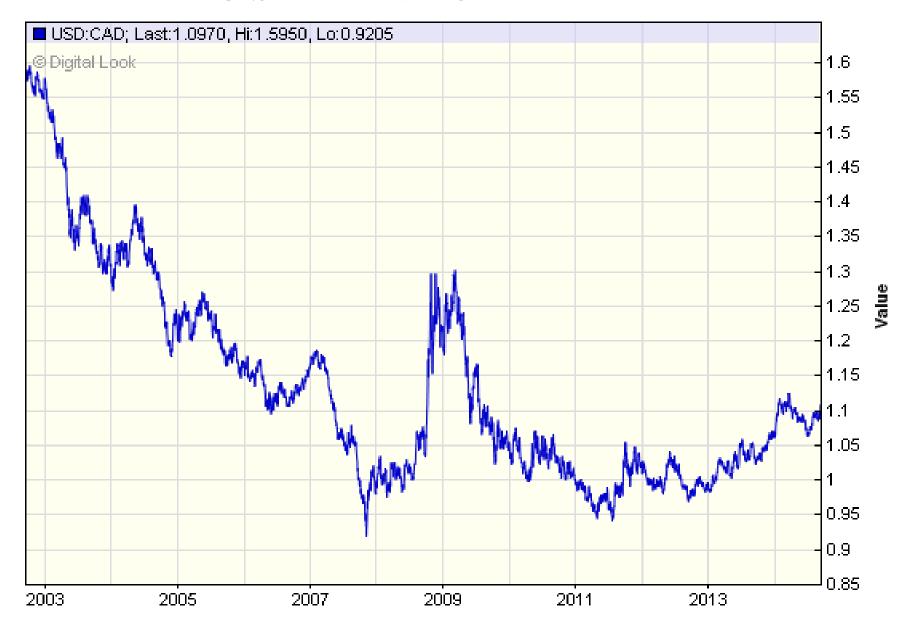
Impact of Exchange Rates on U.S. Imports and Exports

ltem	Stronger Dollar	Weaker Dollar
U. S. Imports	Increases Imports	Decreases Imports
U. S. Exports	Decreases Exports	Increases Exports

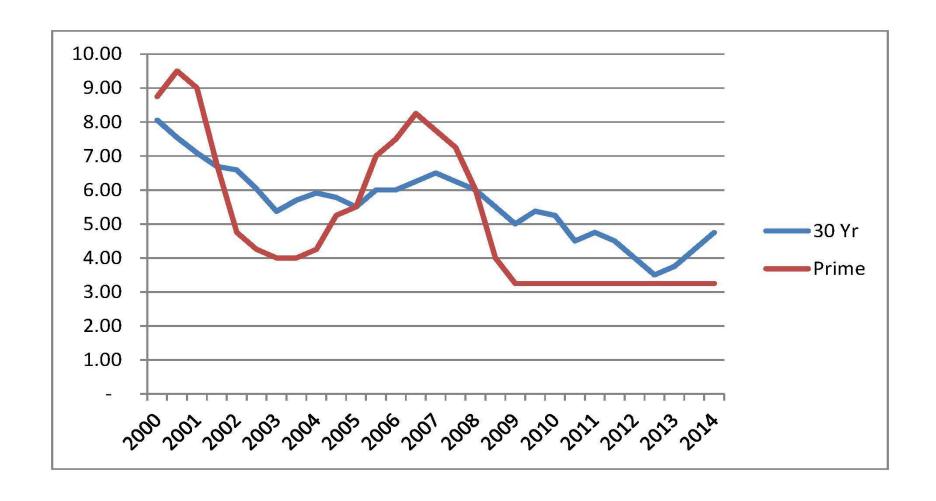
U.S. Dollar vs. Japanese Yen



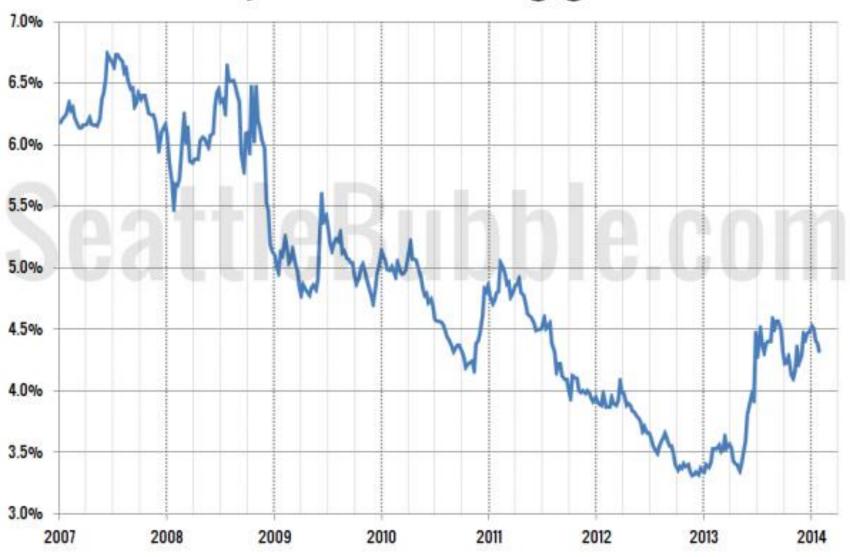
U.S. Dollar vs. Canadian Dollar



30yr Fixed and Prime Rate Since Y2K



Weekly Conventional Mortgage Rates

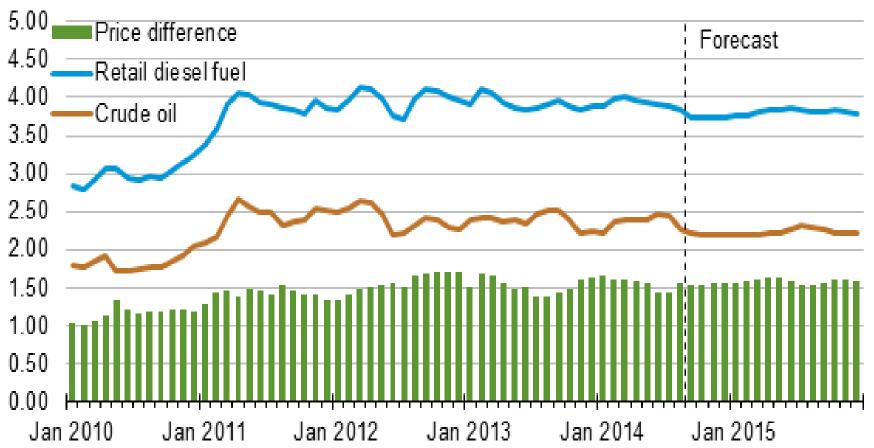


U.S. Economy	(+)
Domestic Beef Demand	(+)
Export Beef Demand	(+)
Exchange & Interest Rates	(?)
Energy Prices	(?)

U.S. Diesel Fuel and Crude Oil Prices



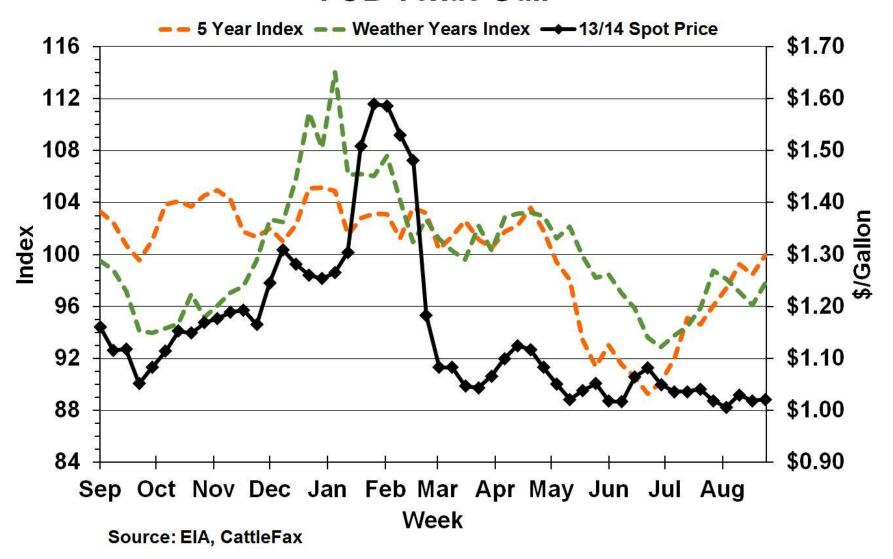
dollars per gallon



Crude oil price is composite refiner acquisition cost. Retail prices include state and federal taxes.

Source: Short-Term Energy Outlook, September 2014.

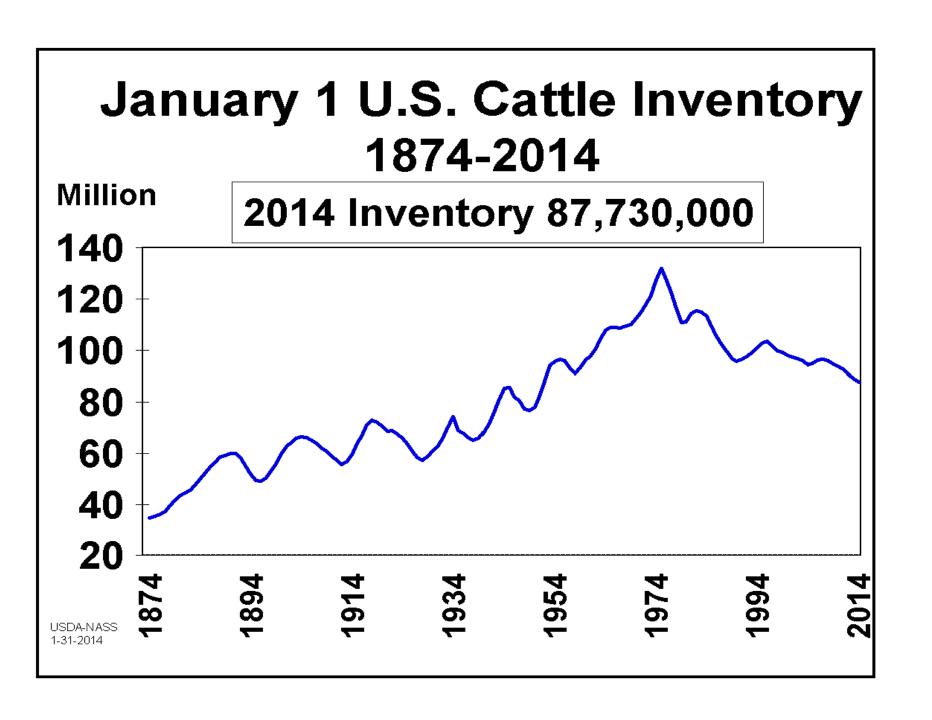
Weekly Spot Propane FOB Texas Gulf



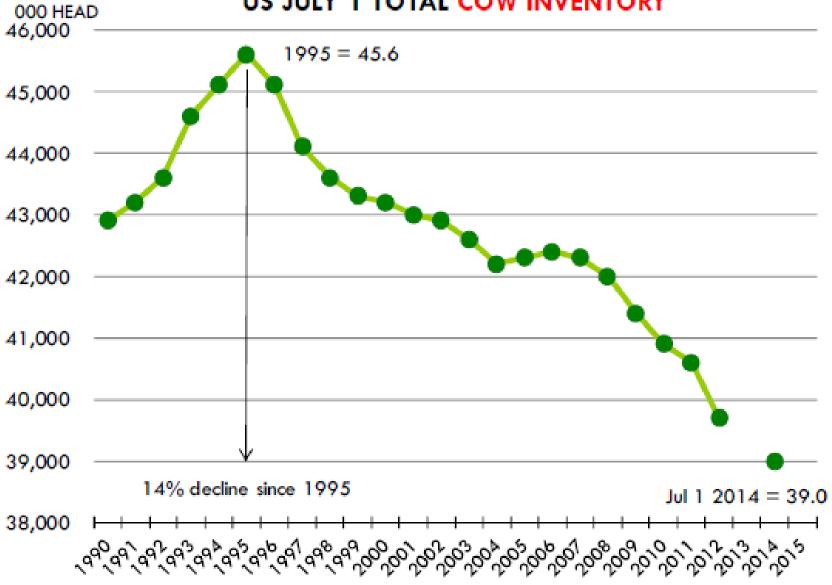
U.S. Economy	(+)
Domestic Beef Demand	(+)
Export Beef Demand	(+)
Exchange & Interest Rates	(?)
Energy Prices	(?)
Cattle Inventory Numbers	(+)

Top 10 Countries With The Most Cattle and Calves

Rank	Country	Total Head, 2014	% of World		
1	India	329,700,000	31.90%		
2	Brazil	207,960,000	20.12%		
3	China	104,188,000	10.08%		
4	European Union	88,000,000	8.51%		
5	United States	87,730,000	8.49%		
6	Argentina	51,745,000	5.01%		
7	Colombia	30,240,000	2.93%		
8	Australia	28,250,000	2.73%		
9	Russia	19,514,000	1.89%		
10	Mexico	17,760,000	1.72%		
[World total was 1,033,520,000]					





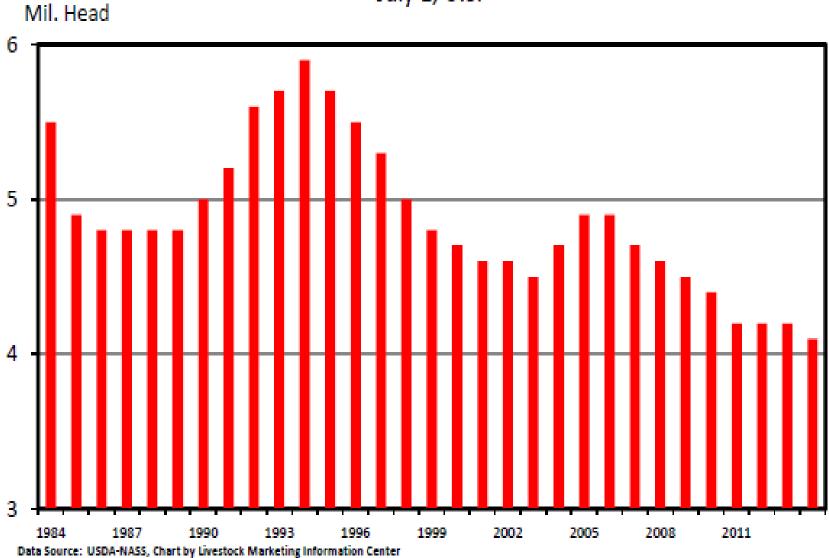


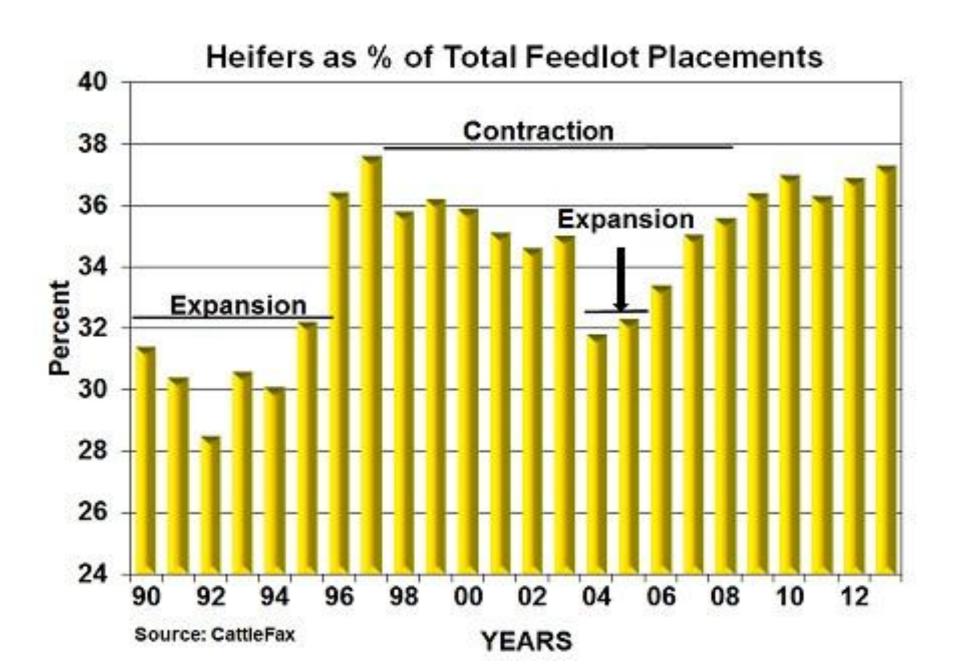
JULY 1st U. S. CATTLE INVENTORY

INVENTORY (000 OMITTED)	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	% of 2012
ALL CATTLE AND CALVES	105,800	105,100	103,600	102,900	103,800	104,800	104,300	103,300	102,000	101,100	100,000	97,800	N/A	95,000	97.1%
COW AND HEIFERS THAT HAVE CALVED	43,000	42,900	42,600	42,200	42,300	42,400	42,300	42,000	41,400	40,900	40,600	39,700	N/A	39,000	98.2%
BEEF COWS	33,900	33,750	33,500	33,200	33,250	33,250	33,150	32,650	32,200	31,750	31,400	30,500	N/A	29,733	97.5%
DAIRY COWS	9,100	9,150	9,100	9,000	9,050	9,150	9,150	9,350	9,200	9,150	9,200	9,200	N/A	9,267	100.7%
HEIFERS 500LBS. AND OVER	16,400	16,200	15,800	15,850	16,100	16,500	16,500	16,300	16,200	16,200	16,000	15,700	N/A	14,900	94.9%
BEEF COW REPLACEMENT	4,600	4,600	4,500	4,700	4,900	4,900	4,700	4,600	4,500	4,400	4,200	4,200	N/A	4,100	97.6%
DAIRY COW REPALCEMENT	3,600	3,700	3,600	3,600	3,700	3,800	3,900	3,900	3,950	4,050	4,200	4,100	N/A	3,900	95.1%
OTHER HEIFERS	8,200	7,900	7,700	7,550	7,500	7,800	7,900	7,800	7,750	7,750	7,600	7,400	N/A	6,900	93.2%
STEERS 500 LBS. AND OVER	14,600	14,500	14,200	14,200	14,600	15,100	14,900	14,700	14,400	14,400	14,200	14,000	N/A	13,500	96.4%
BULLS 500 LBS. AND OVER	2,100	2,100	2,100	2,050	2,100	2,100	2,100	2,100	2,100	2,100	2,000	1,900	N/A	1,900	100.0%
HFRS, STRS AND BULLS UNDER 500 LBS.	29,700	29,400	28,900	28,600	28,700	28,700	28,500	28,200	27,900	27,500	27,200	26,500	N/A	25,700	97.0%
ANNUAL CALF CROP	38,300	38,224	37,593	37,260	37,106	37,016	36,759	36,153	35,939	35,685	35,313	34,279	N/A	33,600	98.0%

HEIFERS HELD AS BEEF COW REPLACEMENTS

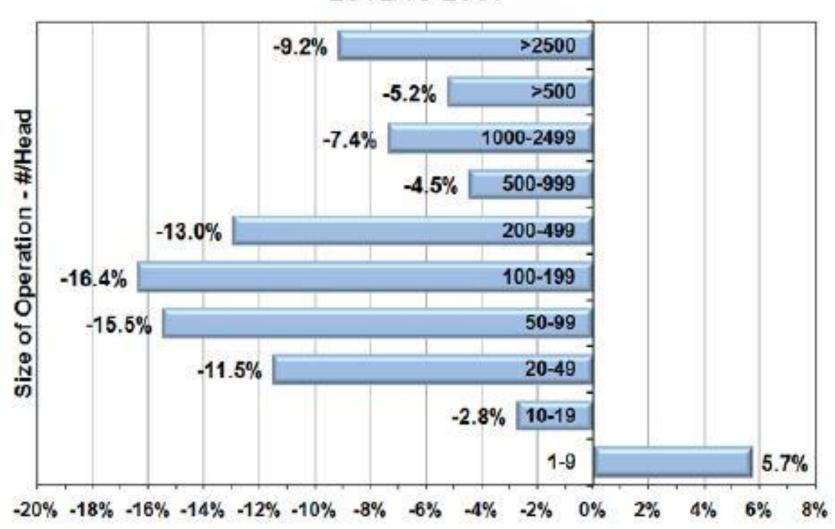
July 1, U.S.





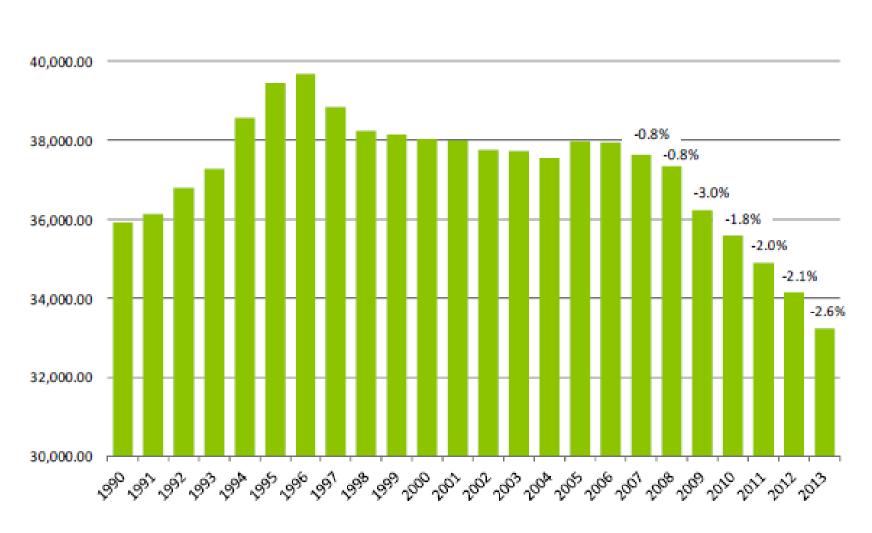
% Change in Cow-Calf Operations

2012 vs 2007

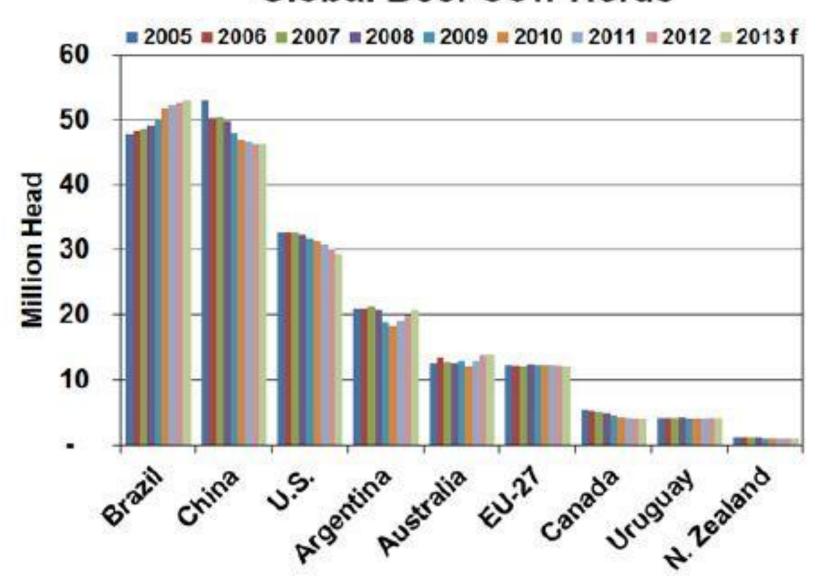








Global Beef Cow Herds



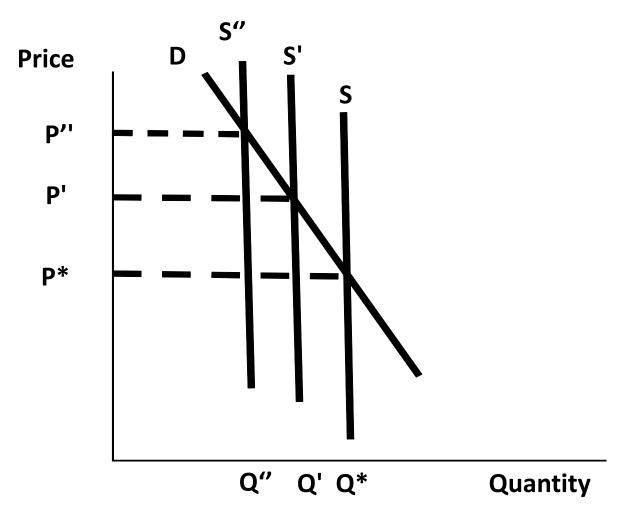
U.S. Cattle on Feed 1,000+ Capacity 11.8 11.5 5-Yr Avg. 11.3 11.0 Mil Head 10.8 2014 10.5 10.3 10.0 2013 9.8 9.5 M N M A Months Source: USDA

Slaughter Reductions 2015 vs. 2013

- 1.2 Million Non-Fed
- 1.3 Million Fed
- 2.5 million Total
- 10,000/day
- 2 5,000/day packing plants
- 1 5,000/day and 5 1,000/day packing plants

U.S. Economy	(+)
Domestic Beef Demand	(+)
Export Beef Demand	(+)
Exchange & Interest Rates	(?)
Energy Prices	(?)
Cattle Inventory Numbers	(+)
Pounds of Beef Production	(+)

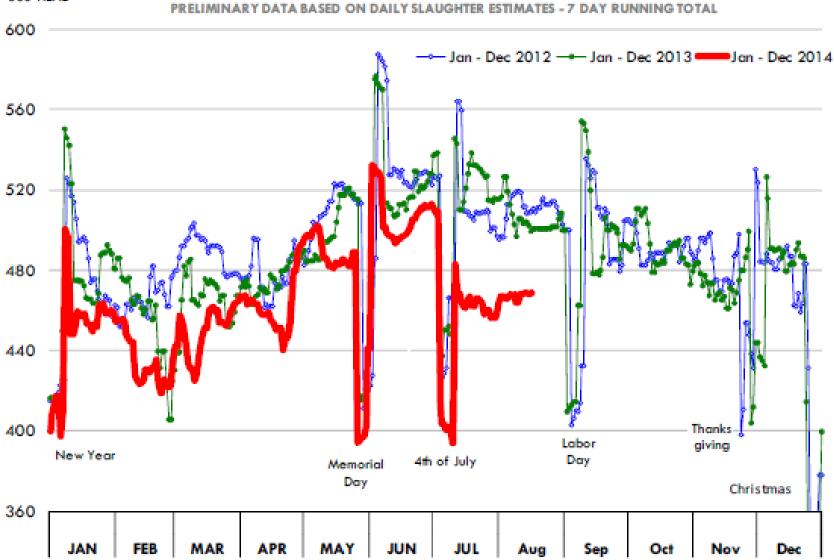
Beef Demand & Supply'

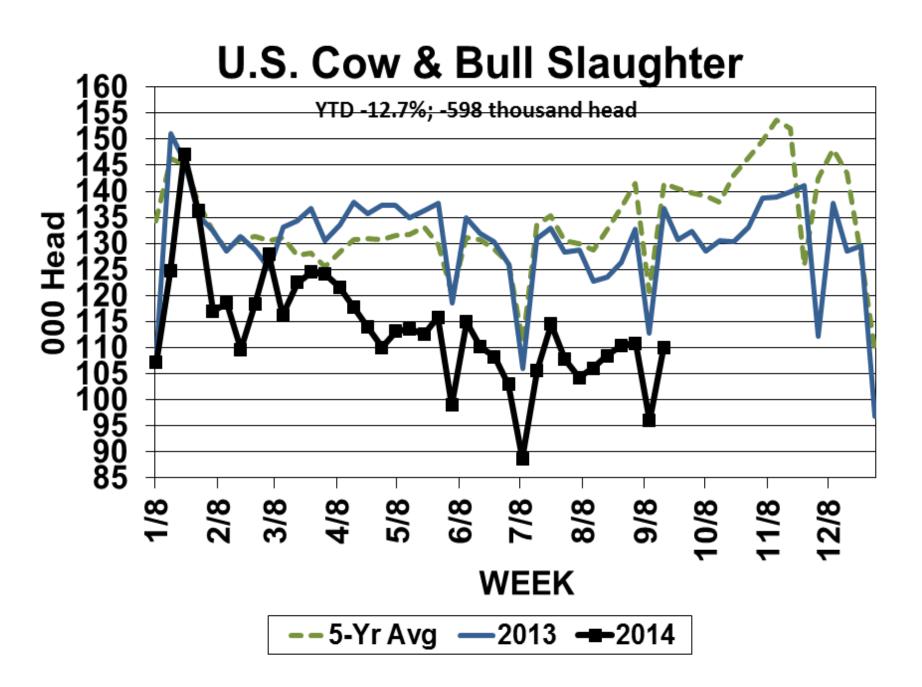


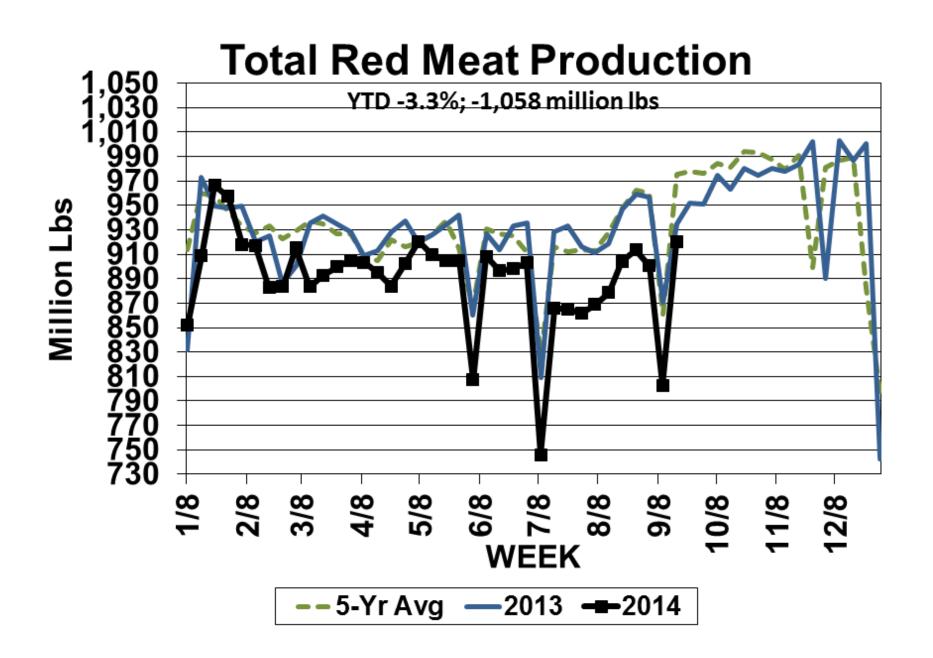
'Assumes all other factors are held constant.



000 HEAD

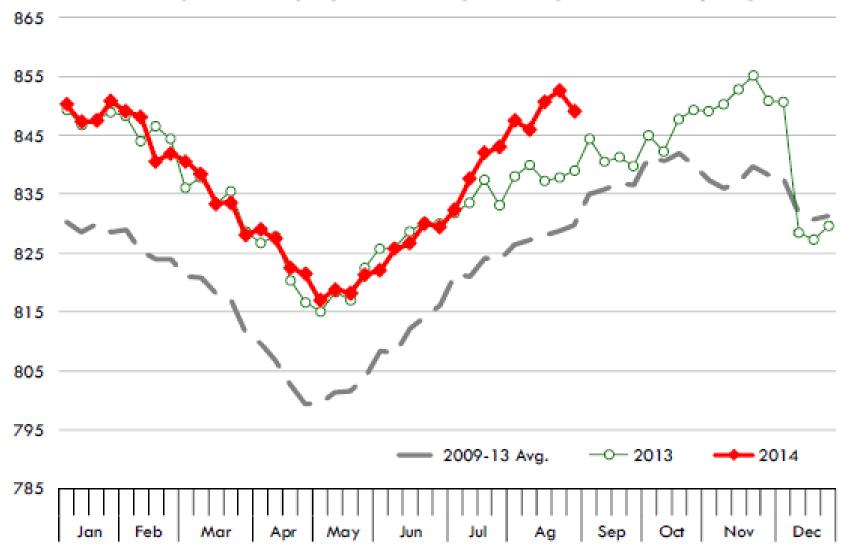




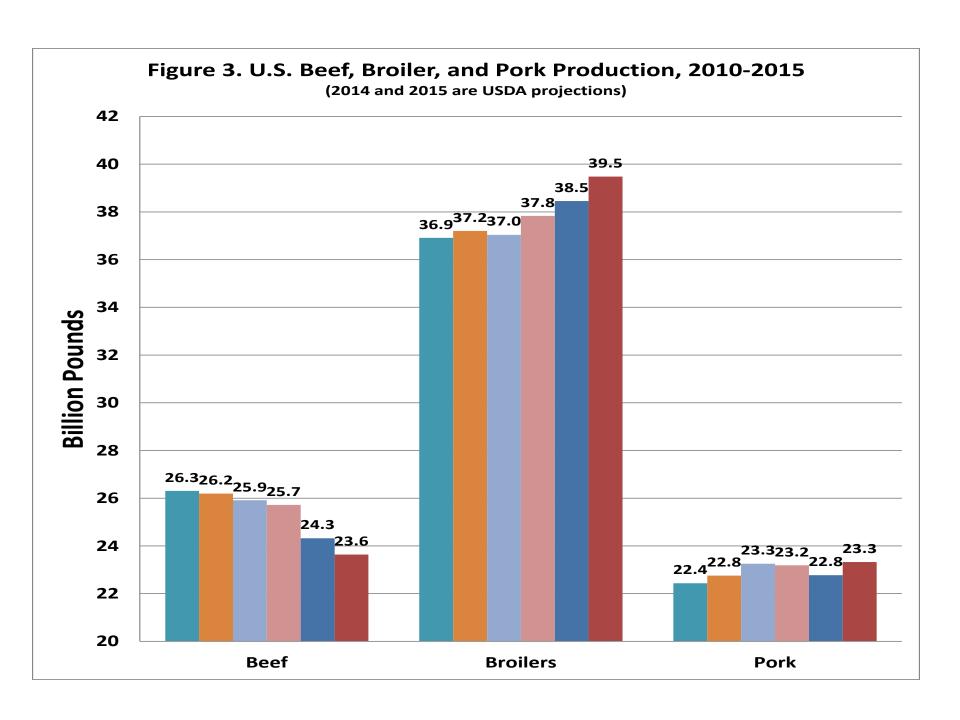


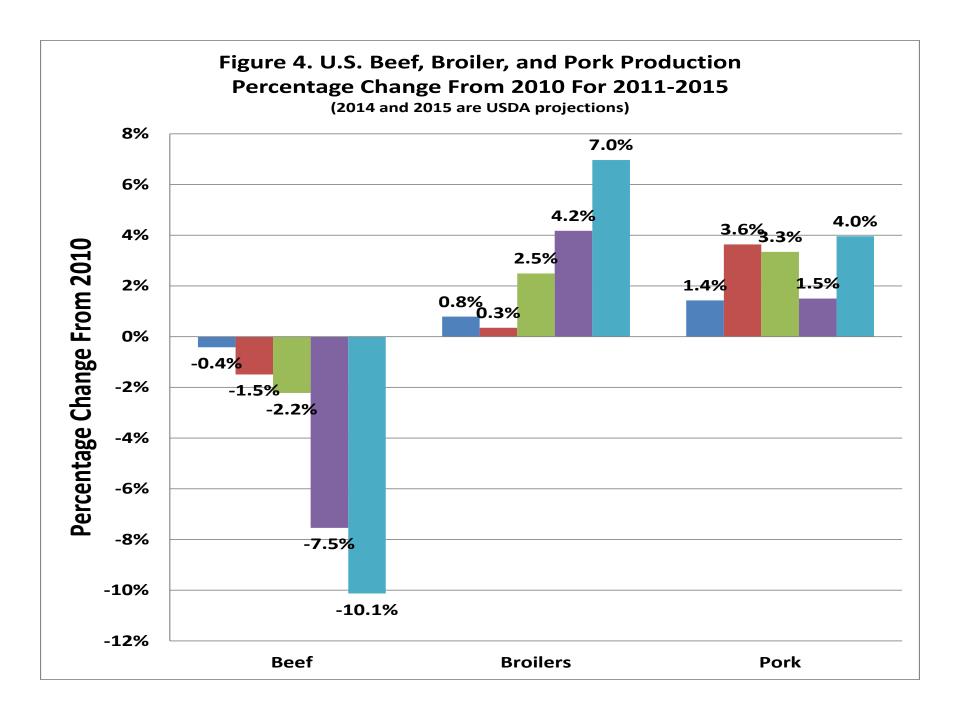
DRESSED CARCASS WEIGHT, STEERS/HEIFERS, POUNDS, USDA

Data through Week Ending Aug. 29, 2014. Weighted Average Based on Weekly Slaughter



U.S. Economy	(+)
Domestic Beef Demand	(+)
Export Beef Demand	(+)
Exchange & Interest Rates	(?)
Energy Prices	(?)
Cattle Inventory Numbers	(+)
Pounds of Beef Production	(+)
Substitute Meats	(-)





U.S. Economy	(+)
Domestic Beef Demand	(+)
Export Beef Demand	(+)
Exchange & Interest Rates	(?)
Energy Prices	(?)
Cattle Inventory Numbers	(+)
Pounds of Beef Production	(+)
Substitute Meats	(-)
Cost of Production-Cow/Calf	(+)

Cow-Calf Production Costs

TMPPA

Too many piles per acre!

Cow-Calf Production Costs

- How do I manage 4 F's and 1 D?
 - Feed
 - Fertilizer
 - Fuel
 - Folks
 - Depreciation

Table 1. An example feed budget for a cow-calf enterprise, Winter Calving.

			Feeding	Period		
	Dates>	01/01/15	04/01/15	11/01/15	Total	% of
	Dates>	03/31/15	10/31/15	12/31/15		
ltem	Days>	90	214	61	365	Total
			\$ Per	Head		
Warm Season Grass Past	ure	\$ 0	\$120	\$0	\$120	24%
Cool Season Grass Pastu	re	0	0	0	* \$0	0%
Stockpiled Warm Season	Grass Pasture	\$0	\$0	\$0	\$0	0%
Stockpiled Cool Season G	rass Pasture	\$0	\$0	\$0	\$0	0%
Winter Annuals		\$0	\$0	\$0		
Нау		\$162	\$0	\$88	\$250	50%
Supplement		\$78	\$0	\$26	\$104	21%
Mineral & Salt		\$7	\$17	\$5	\$30	6%
Total Cost Per Hea	d	\$247	\$137	\$119	\$504	100%
Total Cost Per Hea	d Per Day	\$2.75	\$0.64	\$1.95	\$1.38	

Assumptions:

Winter Calving, Jan. 1 - Mar. 31.

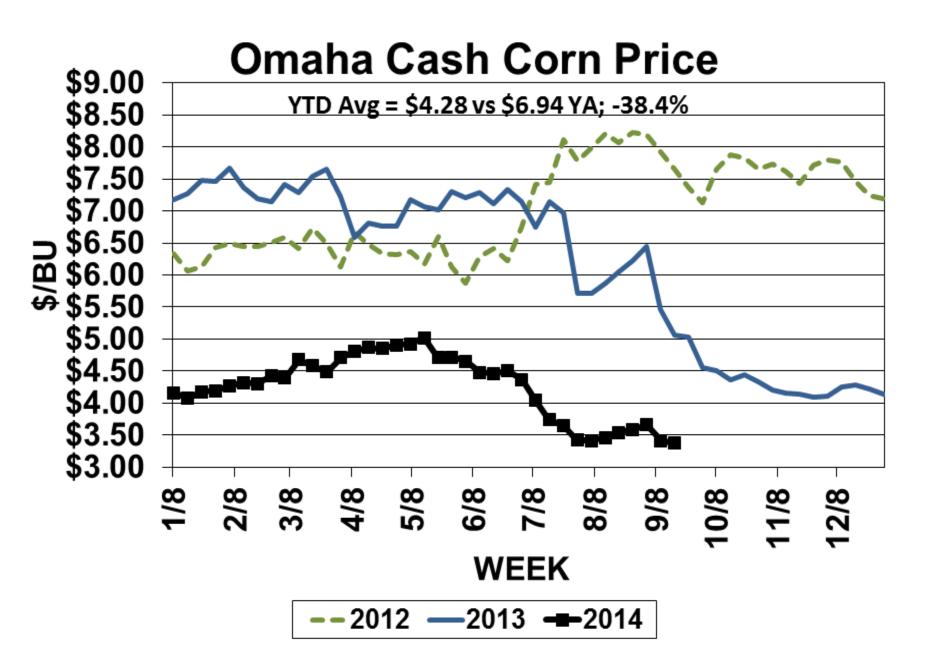
Table 1. Breakeven feeder calf prices for various weaning weights, weaning percentages, and production costs.*

Weaning	Weaning	Calf Prod.					Brood Cow*		
Weight	Percent	/Brd. Cow	\$1,100	\$1,000	\$900	\$800	\$700	\$600	\$500
<u>Lbs.</u>	<u>%</u>	Lbs./Cow			- Breakeven	Feeder Calf	Price, \$/Lb.		
600	90%	540	\$2.04	\$1.85	\$1.67	\$1.48	\$1.30	\$1.11	\$0.93
550	90%	495	\$2.22	\$2.02	\$1.82	\$1.62	\$1.41	\$1.21	\$1.01
500	90%	450	\$2.44	\$2.22	\$2.00	\$1.78	\$1.56	\$1.33	\$1.11
450	90%	405	\$2.72	\$2.47	\$2.22	\$1.98	\$1.73	\$1.48	\$1.23
400	90%	360	\$3.06	\$2.78	\$2.50	\$2.22	\$1.94	\$1.67	\$1.39
350	90%	315	\$3.49	\$3.17	\$2.86	\$2.54	\$2.22	\$1.90	\$1.59
300	90%	270	\$4.07	\$3.70	\$3.33	\$2.96	\$2.59	\$2.22	\$1.85
600	85%	510	\$2.16	\$1.96	\$1.76	\$1.57	\$1.37	\$1.18	\$0.98
550	85%	468	\$2.35	\$2.14	\$1.93	\$1.71	\$1.50	\$1.28	\$1.07
500	85%	425	\$2.59	\$2.35	\$2.12	\$1.88	\$1.65	\$1.41	\$1.18
450	85%	383	\$2.88	\$2.61	\$2.35	\$2.09	\$1.83	\$1.57	\$1.31
400	85%	340	\$3.24	\$2.94	\$2.65	\$2.35	\$2.06	\$1.76	\$1.47
350	85%	298	\$3.70	\$3.36	\$3.03	\$2.69	\$2.35	\$2.02	\$1.68
300	85%	255	\$4.31	\$3.92	\$3.53	\$3.14	\$2.75	\$2.35	\$1.96
600	80%	480	\$2.29	\$2.08	\$1.88	\$1.67	\$1.46	\$1.25	\$1.04
550	80%	440	\$2.50	\$2.27	\$2.05	\$1.82	\$1.59	\$1.36	\$1.14
500	80%	400	\$2.75	\$2.50	\$2.25	\$2.00	\$1.75	\$1.50	\$1.25
450	80%	360	\$3.06	\$2.78	\$2.50	\$2.22	\$1.94	\$1.67	\$1.39
400	80%	320	\$3.44	\$3.13	\$2.81	\$2.50	\$2.19	\$1.88	\$1.56
350	80%	280	\$3.93	\$3.57	\$3.21	\$2.86	\$2.50	\$2.14	\$1.79
300	80%	240	\$4.58	\$4.17	\$3.75	\$3.33	\$2.92	\$2.50	\$2.08
600	75%	450	\$2.44	\$2.22	\$2.00	\$1.78	\$1.56	\$1.33	\$1.11
550	75%	413	\$2.67	\$2.42	\$2.18	\$1.94	\$1.70	\$1.45	\$1.21
500	75%	375	\$2.93	\$2.67	\$2.41	\$2.13	\$1.87	\$1.60	\$1.33
450	75%	338	\$3.26	\$2.96	\$2.67	\$2.37	\$2.07	\$1.78	\$1.48
400	75%	300	\$3.67	\$3.33	\$3.00	\$2.67	\$2.33	\$2.00	\$1.67
350	75%	263	\$4.19	\$3.81	\$3.43	\$3.05	\$2.67	\$2.29	\$1.90
300	75%	225	\$4.89	\$4.44	\$4.00	\$3.56	\$3.11	\$2.67	\$2.22

U.S. Economy	(+)
Domestic Beef Demand	(+)
Export Beef Demand	(+)
Exchange Interest Rates	(?)
Energy Prices	(?)
Cattle Inventory Numbers	(+)
Pounds of Beef Production	(+)
Substitute Meats	(-)
Cost of Production-Cow/Calf	(+)
Cost of Production-Feedlot	(+)







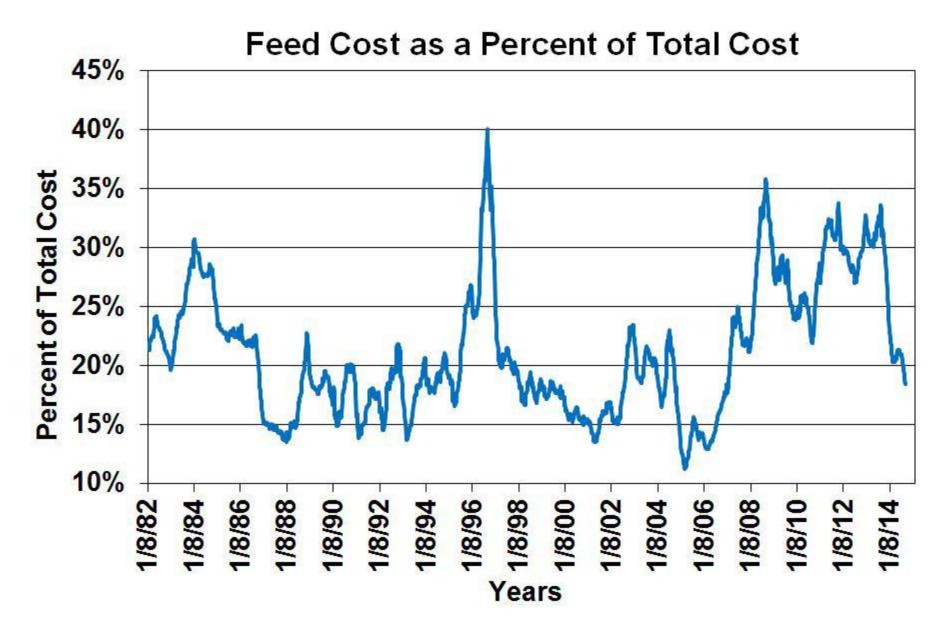
Soybean Meal Price Per Pound of Dry Matter Protein Iowa Soybean Processor Report (46.5% Protein)



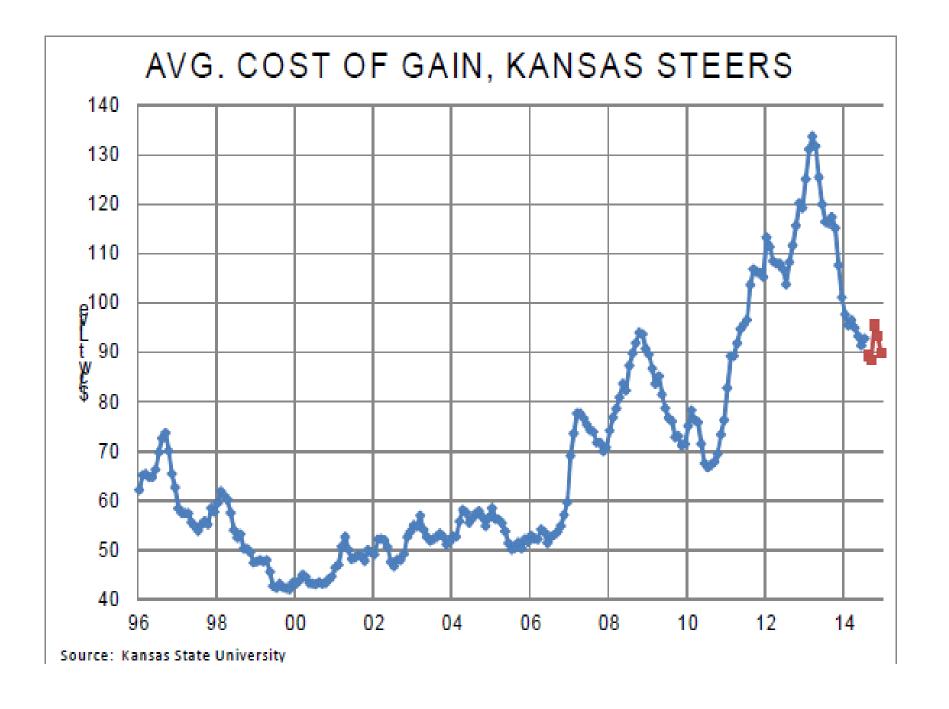
Source: USDA, CattleFax

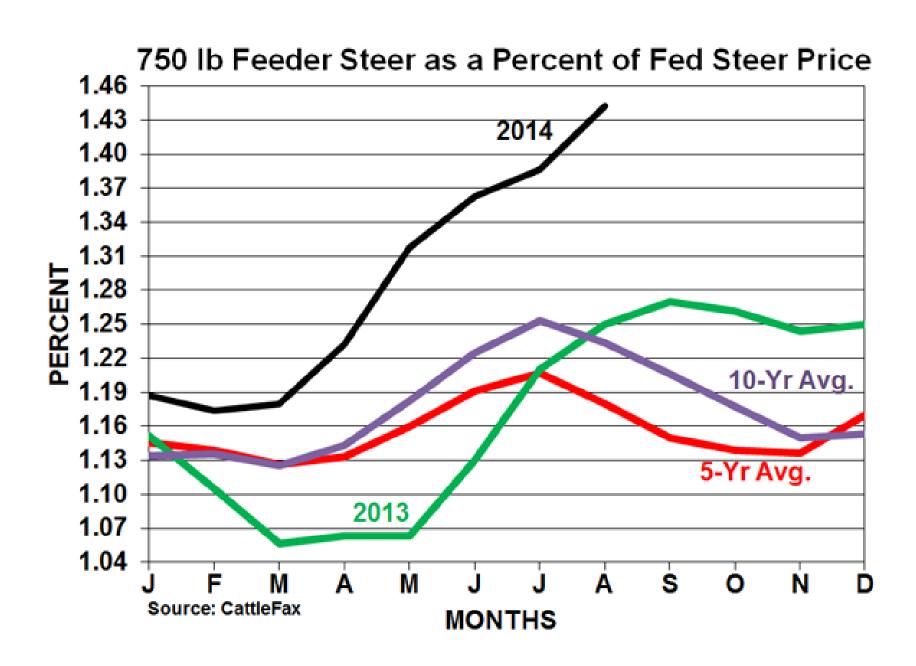
and CMEGroup

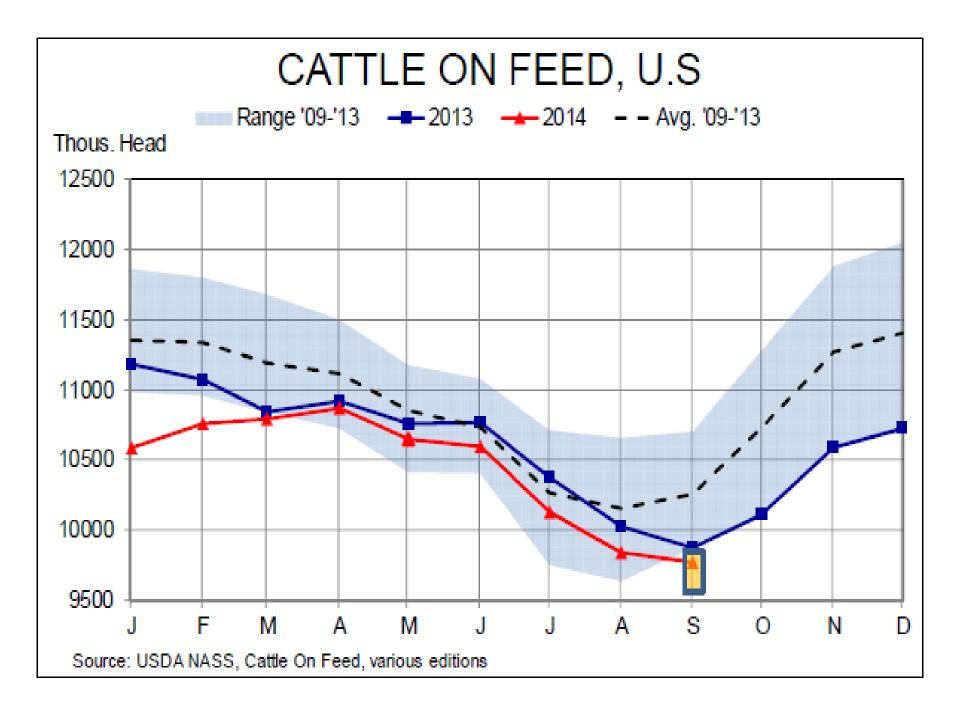
Weeks



^{*}Total Cost includes interest, yardage, feed cost, and animal purchase cost





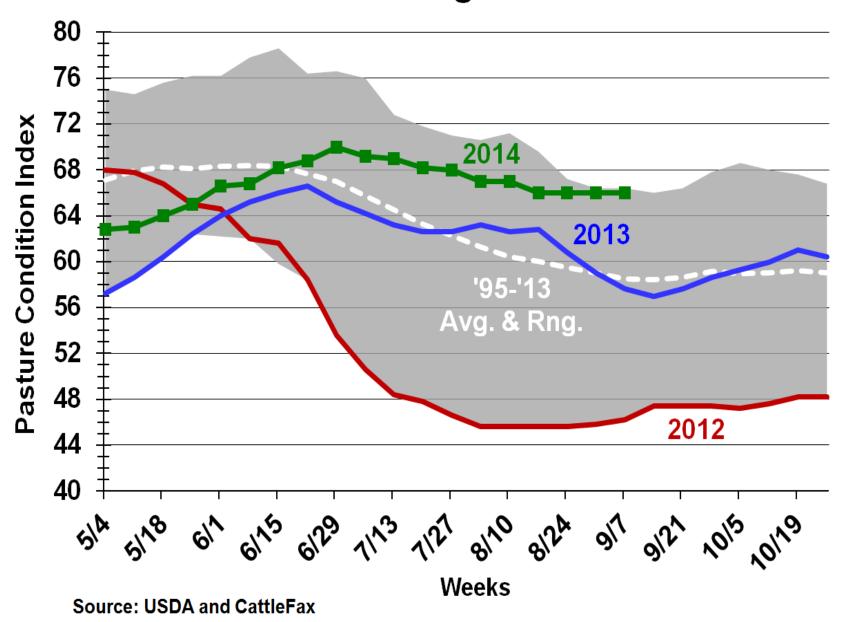


U.S. Economy	(+)
Domestic Beef Demand	(+)
Export Beef Demand	(+)
Exchange & Interest Rates	(?)
Energy Prices	(?)
Cattle Inventory Numbers	(+)
Pounds of Beef Production	(+)
Substitute Meats	(-)
Cost of Production-Cow/Calf	(+)
Cost of Production-Feedlot	(+)
Weather	(?)

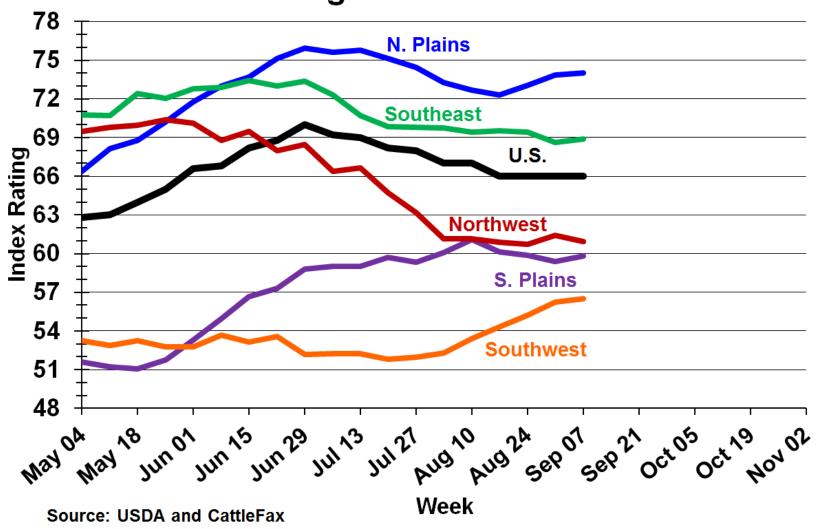
U.S. Drought Monitor September 16, 2014 (Released Thursday, Sep. 18, 2014) Valid 8 a.m. EDT SĽ Drought Impact Types: SĹ ← Delineates dominant impacts S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands) L = Long-Term, typically greater than 6 month's (e.g. hydrology, ecology) Intensity: Author: D0 Abnormally Dry Michael Brewer D1 Moderate Drought NCDC/NOAA D2 Severe Drought D3 Extreme Drought D4 Exceptional Drought The Drought Monitor focuses on broadscale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

http://droughtmonitor.unl.edu/

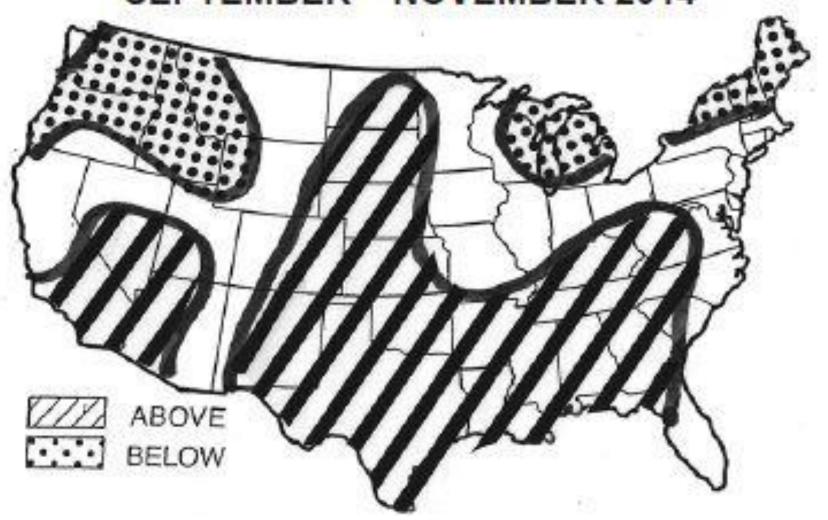
U.S. Pasture and Range Condition Index



2014 Regional U.S. Pasture and Range Condition Index



PRECIPITATION OUTLOOK SEPTEMBER - NOVEMBER 2014



TEMPERATURE OUTLOOK SEPTEMBER - NOVEMBER 2014



U.S. Economy	(+)
Domestic Beef Demand	(+)
Export Beef Demand	(+)
Exchange & Interest Rates	(?)
Energy Prices	(?)
Cattle Inventory Numbers	(+)
Pounds of Beef Production	(+)
Substitute Meats	(-)
Cost of Production-Cow/Calf	(+)
Cost of Production-Feedlot	(+)
Weather	(?)
Outliers (food safety, terrorists, war)	(?)



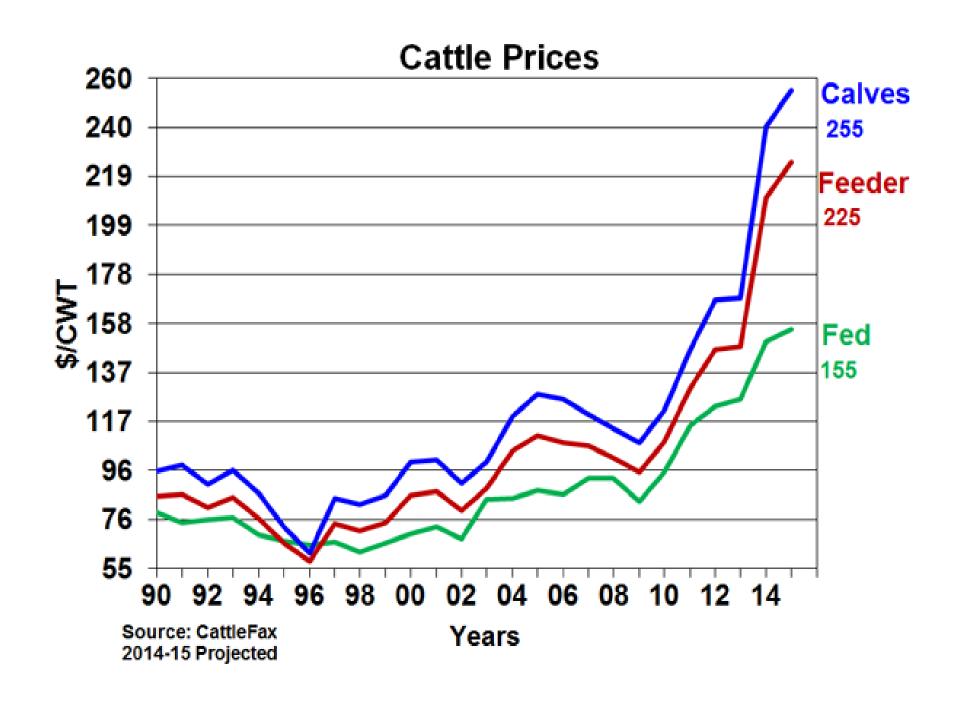
STUFF HAPPENS HERE

Summary

Table 1. U.S. Net Beef Supply, Billion Pounds, 2010-2015*.

ltem	2010	2011	2012	2013	2014*	2015*
Dom. Beef Production	26.3	26.2	25.9	25.7	24.3	23.6
Beef & Veal Imports	2.3	2.1	2.2	2.3	2.7	2.5
Beef & Veal Exports	2.3	2.8	2.5	2.6	2.6	2.7
Net Beef Supply	26.3	25.5	25.7	25.4	24.4	23.5
Percent Change	Base	-3.2%	-2.4%	-3.5%	-7.3%	-10.8%

^{*}Estimated USDA data, September 17, 2014.



USDA Cattle Market Price Projections, 2014 and 2015

	2014	2014	2015	2015	Midpoint	Midpoint
ltem	Range	Midpoint	Range	Midpoint	\$ Change	% Change
	(\$/cwt)	(\$/cwt)	(\$/cwt)	(\$/cwt)	(\$/cwt)	(%)
Choice steers ,						
5-area Direct, \$/cwt	\$151-\$154	\$152.50	\$149-\$163	\$156.00	\$3.50	2.3%
Feeder steers,						
Ok City, \$/cwt	\$198-\$201	\$199.50	\$208-\$220	\$214.00	\$14.50	7.3%
Cutter Cows,						
National L.E., \$/cwt	\$100-\$103	\$101.50	\$103-\$115	\$109.00	\$7.50	7.4%

Thanks For Your Attention!

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