2012-2013 Kansas State University

AG PROFITABILITY CONFERENCE

January 31, 2013

Blue Valley
Telecommunications
1559 Pony Express Hwy
Home City, KS



Beef & Cattle Market Outlook

Glynn Tonsor

Dept. of Agricultural Economics

Kansas State University

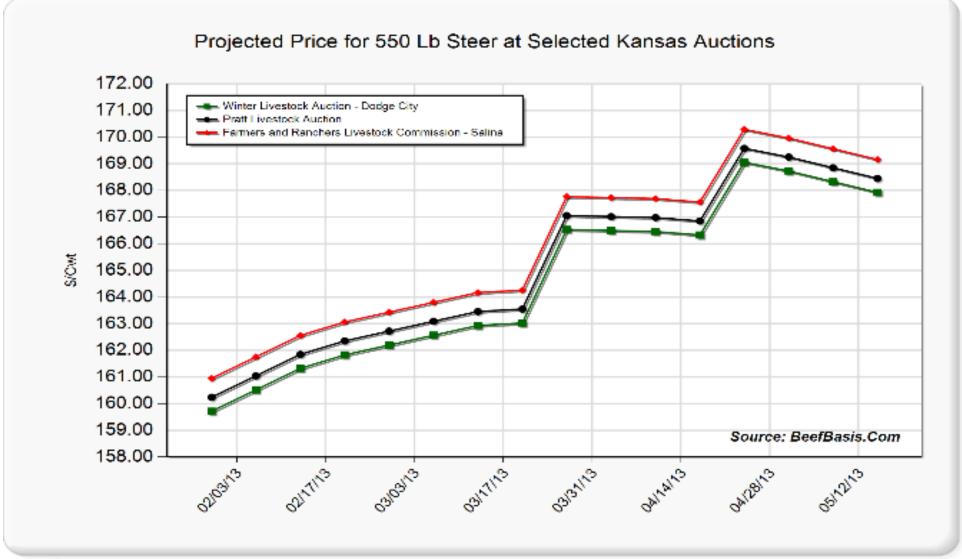
Kansas State University Department of Agricultural Economics



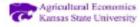
Economic Outlook Overview: Cow-Calf Sector

- 2012 was a historical year for both calf price levels and variability...
 - National vs. regional drought magnified market impact compared to 2011
- 2013 market will reflect:
 - tight supplies, water & forage prospects, expansion possibilities, and updating meat demand signals... oh my....
- Feb. 1, Cattle Inventory Report (pre-release expectations):
 - Calf Crop: 97.9% [97.4%-98.8%]
 - Beef Replacement Heifers: 99.6% [92.1%-103.0%]
 - Don't misinterpret +% if the report contains them...
- Further widening between top 1/3 and bottom 1/3 of producers?
 - Cost management drives majority of differences in returns and likely is even more critical in period of drought response Read This:
 - http://www.agmanager.info/livestock/budgets/production/beef/Cowcalf_EnterpriseAnalysis(Nov2012).pdf

As of: 1/30/13'

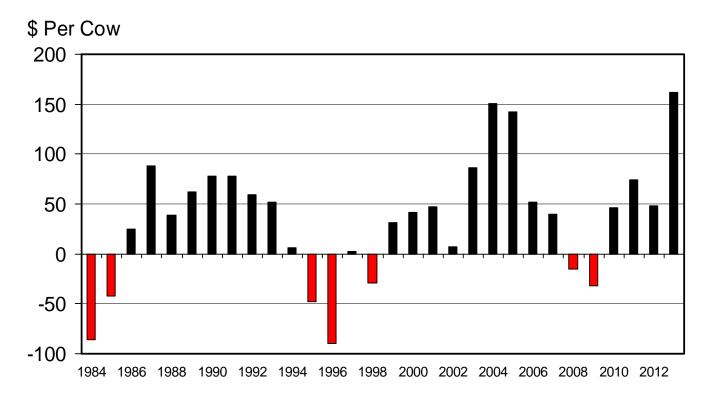






ESTIMATED AVERAGE COW CALF RETURNS

Returns Over Cash Cost (Includes Pasture Rent), Annual



C-P-66 12/18/12

Livestock Marketing Information Center



US RANGE AND PASTURE CONDITION

Percent Poor and Very Poor, Weekly

10/28/12 Percent 65 60 55 Avg. 50 45 10 40 35 30 25 20 15 Jul Sep May

Livestock Marketing Information Center

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

Beef Cows in states with 40% Poor to Very Poor Last year Cows % of Total 48.31% 10/23/11 14862 46.11% 10/30/11 14185 This Year 70.50% 10/21/12 21009

10/31/10': 19.9% of Cows

21009

70.50%

2006-2011

2012

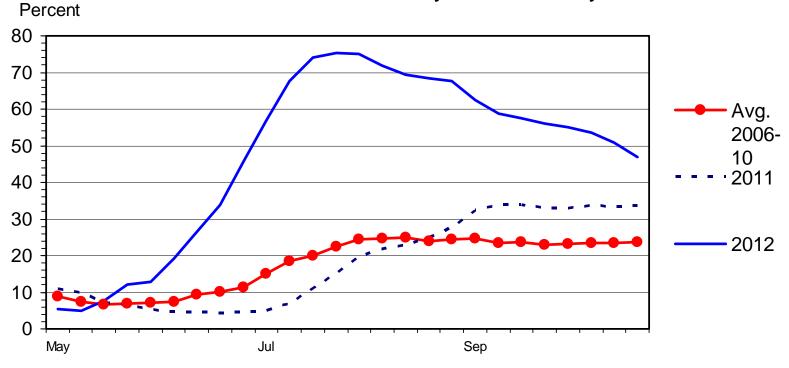
G-NP-30 10/31/12



IL, IN, IA, MI, MN, MO, OH, & WI 14.5% of Cows (2012)

CORNBELT REGION ___ RANGE AND PASTURE CONDITION

Percent Poor and Very Poor, Weekly



G-NP-34 10/31/12

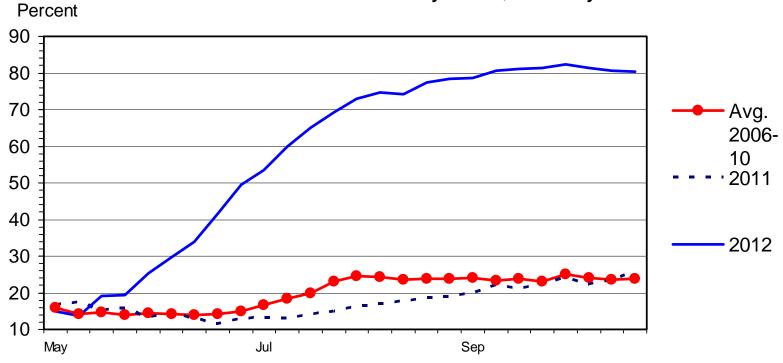
Livestock Marketing Information Center



CO, KS, MT, NE, ND, SD, & WY 29.2% of Cows (2012)

GREAT PLAINS REGION ___ RANGE AND PASTURE CONDITION

Percent Poor and Very Poor, Weekly



G-NP-32 10/31/12

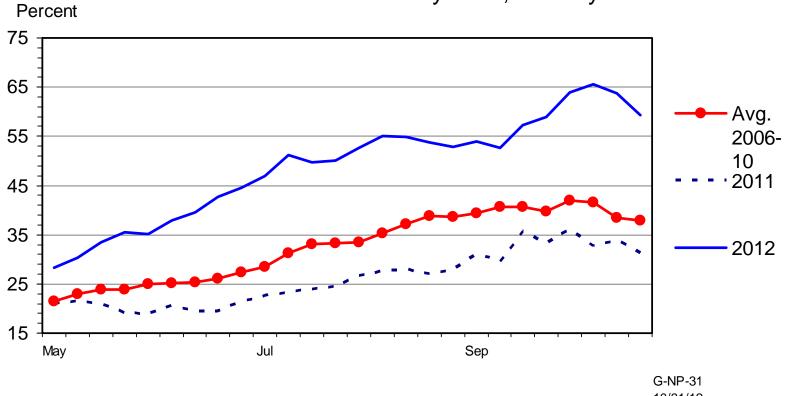
Livestock Marketing Information Center



AZ, CA, ID, NV, NM, OR, UT, & WA 10.2% of Cows (2012)

WESTERN REGION RANGE AND PASTURE CONDITION

Percent Poor and Very Poor, Weekly



10/31/12

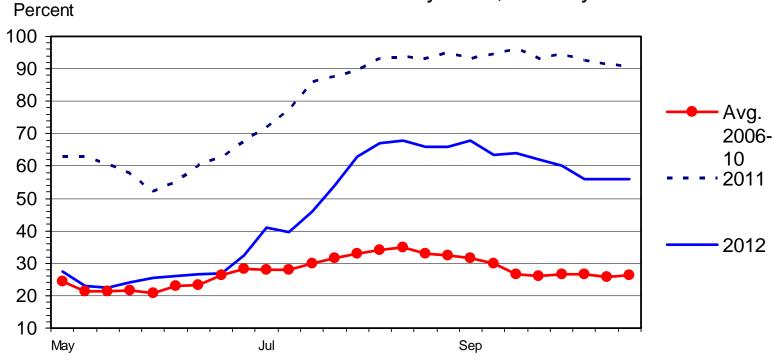
Livestock Marketing Information Center



OK & TX 20.4% of Cows (2012)

SOUTHERN PLAINS REGION RANGE AND PASTURE CONDITION

Percent Poor and Very Poor, Weekly



G-NP-33 10/31/12

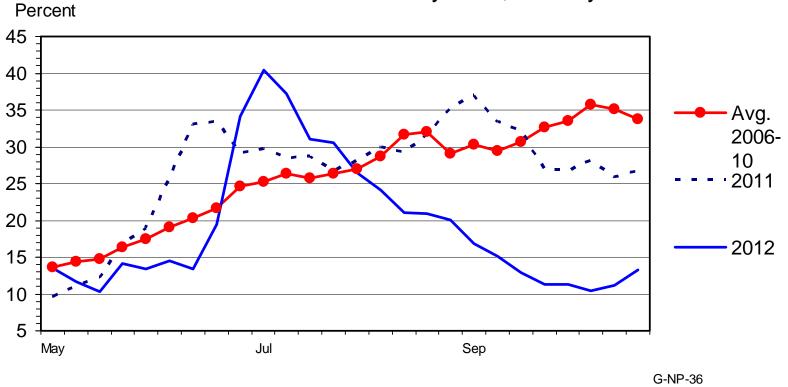
Livestock Marketing Information Center



AL, AR, FL, GA, KY, LA, MS, NC, SC, TN, VA, & WV 24.5% of Cows (2012)

SOUTHEAST REGION RANGE AND PASTURE CONDITION

Percent Poor and Very Poor, Weekly



G-NP-36 10/31/12

Livestock Marketing Information Center



US ALL HAY STOCKS

December 1

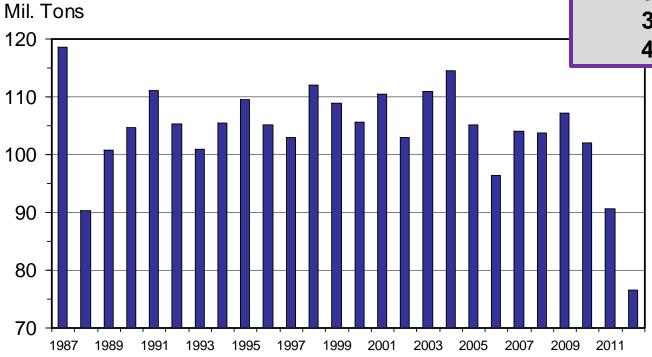
Dec. 1 US Stocks: Smallest since 1957

Dec. 1 KS Stocks:

3.0 mil tons (12')

3.9 mil tons (11')

4.5 mil tons (10')



G-NP-22 01/11/13

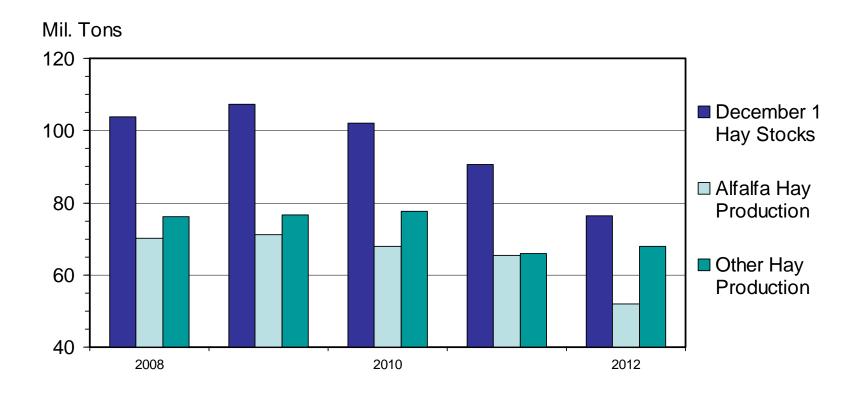
Livestock Marketing Information Center

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



US HAY STOCKS AND PRODUCTION

Crop Year



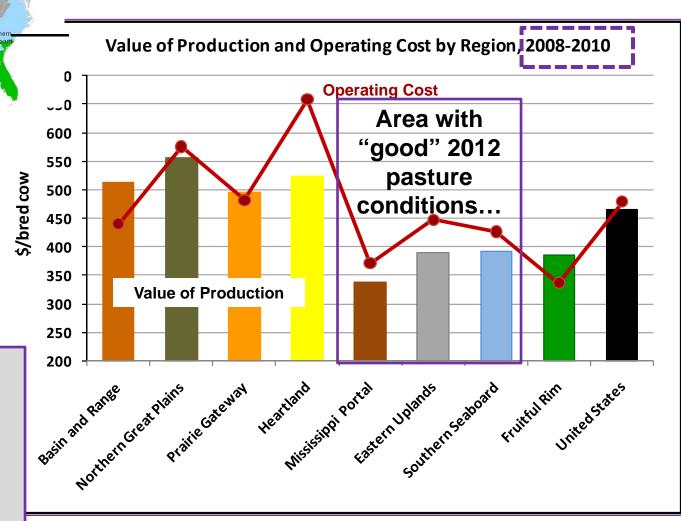
Livestock Marketing Information Center

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

01/11/13



Do some regions have an economic advantage for expansion?

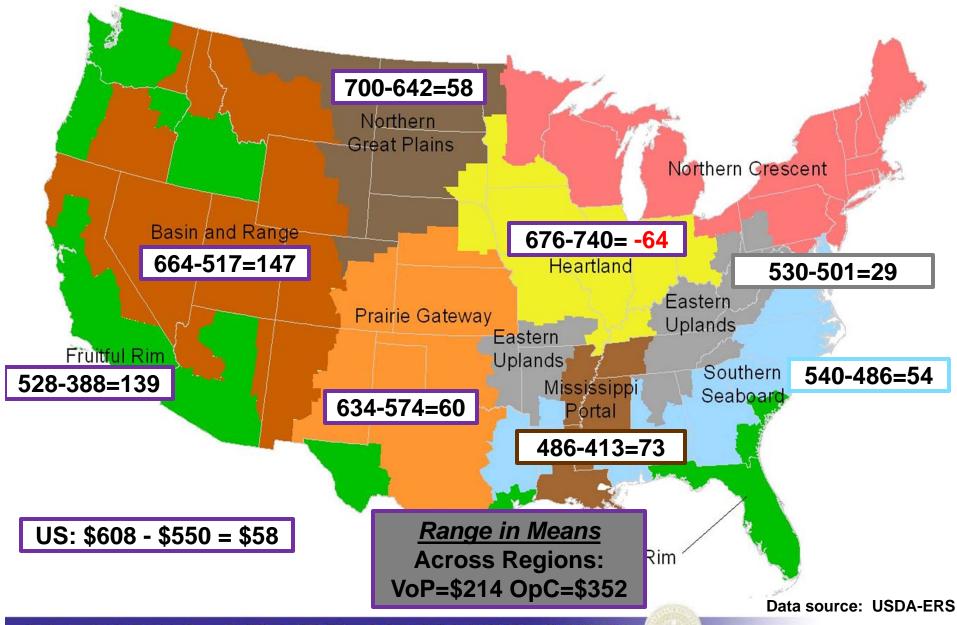


Herds > 20 cows

Operating Costs = 37% (MP) to 52% (NGP) of Total Costs

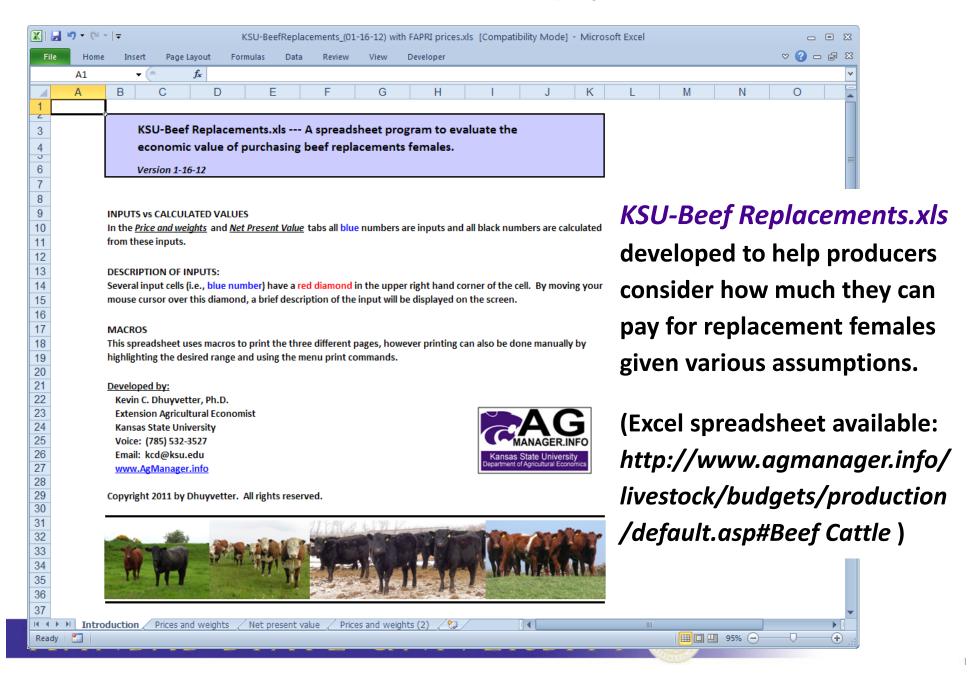
Data source: USDA-ERS

ERS 2011 (\$/cow): Value of Production LESS Operating Costs



KANSAS STATE UNIVERSITYhttp://www.ers.usda.gov/Data/CostsAndRet urns/testpick.htm#recent

Build herd -- How much can I pay for a heifer/cow?



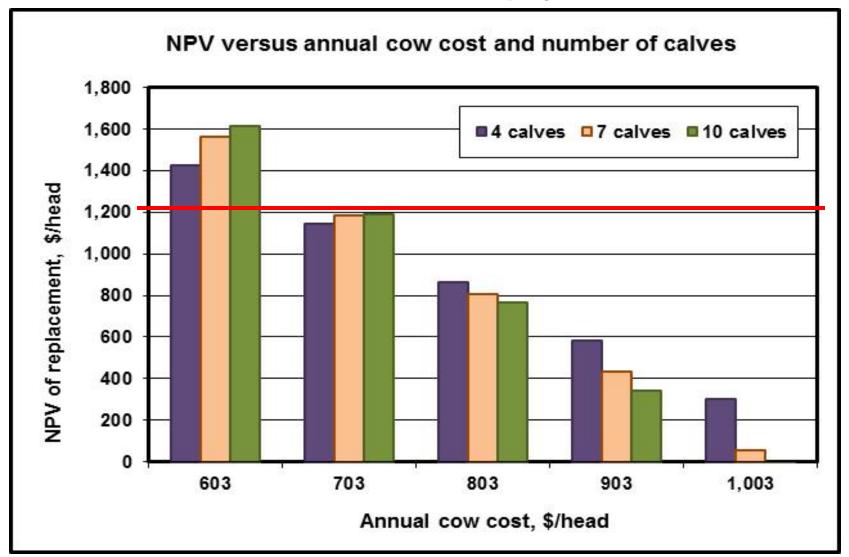
Build herd -- How much can I pay for a heifer/cow? Average cow costs of middle 1/3 = \$803

Input Assumptions			Print Information
Number of replacements purchased	100	Percent marketable calves (1 - death loss)	97.0%
Year of purchase	2013	Annual cow death loss	0.5%
First year for calf sales	2014	Annual cull rate	15.0%
Cull cow weight, lbs/hd	1,250		
Annual cow costs, \$/year	\$803	Annual inflation rate on costs	1.0%
Price scenario to use (1-3) (GTT Adj LMIC)	1	Annual increase in average weaning weight	0.0%
Weaning weight scenario to use (1-3)	1	Discount rate (interest rate)	6.5%

Net Present Value Analysis

	Cows at			Prices,	\$/cwt	Calf	Cull In	come		Cost	Net	Discount	
Year	воу*	Calf	Calf wt	Calf	Cull	Income	Annual	Age	Cost	Adj.	Income	factor	NPV**
2014	100.0	1	542	\$170.48	\$70.00	\$896	\$131.25	\$739	\$811	\$0	\$217	0.9390	\$898
2015	84.5	2	552	\$164.88	\$70.00	\$746	\$110.91	\$625	\$692	\$0	\$165	0.8817	\$899
2016	71.4	3	562	\$159.28	\$70.00	\$620	\$93.72	\$528	\$591	\$0	\$123	0.8278	\$887
2017	60.3	4	567	\$153.98	\$70.00	\$511	\$79.19	\$446	\$504	\$0	\$86	0.7773	\$864
2018	51.0	5	572	\$153.68	\$70.00	\$435	\$66.92	\$377	\$430	\$0	\$71	0.7299	\$844
2019	43.1	6	572	\$153.68	\$70.00	\$367	\$56.54	\$319	\$367	\$0	\$57	0.6853	\$826
2020	36.4	7	567	\$153.98	\$70.00	\$308	\$47.78	\$269	\$313	\$0	\$43	0.6435	\$809
2021	30.8	8	565	\$154.10	\$70.00	\$260	\$40.37	\$227	\$267	\$0	\$33	0.6042	\$793
2022	26.0	9	562	\$154.28	\$70.00	\$219	\$34.12	\$192	\$228	\$0	\$24	0.5674	\$778
2023	22.0	10	559	\$154.46	\$70.00	\$184	\$28.83	\$162	\$195	\$0	\$18	0.5327	\$765
* BOY = B	eginning of y	/ear	562	\$157.28	\$70.00				** N	et present	value if replac	ement is sold	in this year

Build herd -- How much can I pay for a heifer/cow?

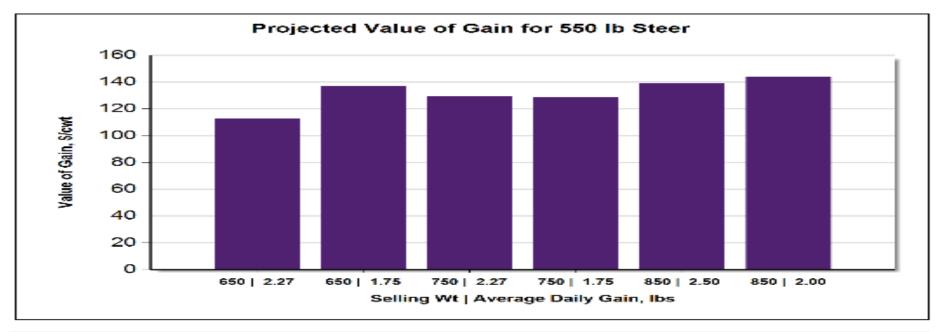


Total costs of bottom, middle, and top 1/3 operations (07'-11' KFMA): \$961/cow, \$803/cow, and \$697/cow

Economic Outlook Overview: Stockers

- Historically high Values of Gain (VOG)
 - But also historically high Costs of Gain (COG)...
- Of course, not everyone has their typical feedstuffs/resources to engage this fall/winter
 - → VOG = ↑ rewards for sound management
 - COG = → pain of hiccups or poor management
 - Many producers feeding something new...
 - Is there a widening gap between returns of stocker operations?





Projected Value of Gain								
Begining Weight, Ibs	Ending Weight, Ibs	Date	Weight Gain, lbs/hd	ADG, Ibs	Value of Gain, \$/cwt			
550	650	03/15/2013	100	2.27	\$112.85			
550	650	03/28/2013	100	1.75	\$136.90			
550	750	04/28/2013	200	2.27	\$129.05			
550	750	05/24/2013	200	1.75	\$128.49			
550	850	05/30/2013	300	2.50	\$139.04			
550	850	06/29/2013	300	2.00	\$143.69			

Note: Projections dervied for the Salina, KS market using BeefBasis.com Related information is available at: BeefBasis.com







http://www.agmanager.info/livestock/marketing/graphs/cattle/prices/VOG.asp http://www.beefbasis.com/ForecastingTools/ValueofGain/tabid/1132/Default.aspx

Economic Outlook Overview: Feedlots

- Excess capacity concerns remain & are growing...
 - Drought & Mexican feeder supplies:
 - mitigated this initially / magnifying it now and going forward ...
- Closeouts have been at historically high losses...
 - 12 month rolling avg. thru Nov. 12' -\$126.23
- Watch response to shrinking available supplies...



Historical and Projected Kansas Feedlot Net Returns (as of 1/3/13')

(http://www.agmanager.info/livestock/marketing/outlook/newsletters/FinishingReturns/default.asp)

November 12': -\$177.66/steer

Table 1. Projected Values for Finishing Steers in Kansas Feedyards*

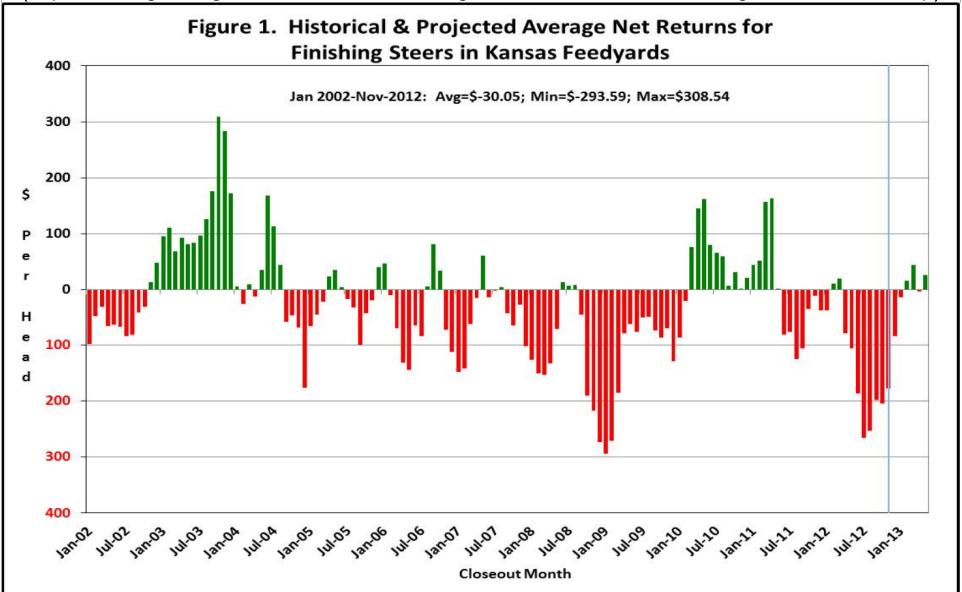
Closeout Mo-Yr	Net Return	FCOG**	Fed Price	Feeder Price	Breakeven FCOG**	Breakeven Fed Price	Breakeven Feeder Price
Dec-12	-83.77	116.22	125.13	139.75	101.55	131.33	129.02
Jan-13	-13.90	120.85	131.74	138.41	118.38	132.76	136.67
Feb-13	15.72	121.45	135.87	140.87	124.27	134.74	142.77
Mar-13	44.59	117.87	137.11	142.68	125.53	133.85	148.36
Apr-13	-2.84	115.47	133.82	144.85	114.98	134.03	144.48
May-13	26.66	113.10	135.92	147.04	117.51	133.98	150.49

Representative Barometer for Trends in Profitability



Historical and Projected Kansas Feedlot Net Returns as of 1/3/13')

(http://www.agmanager.info/livestock/marketing/outlook/newsletters/FinishingReturns/default.asp)



Quarterly Forecasts (LMIC:01/29/13)

		% Chg.	Average	% Chg.	Comm'l	% Chg.
Year	Comm'I	from	Dressed	from	Beef	from
Quarter	Slaughter	Year Ago	Weight	Year Ago	Production	Year Ago
2012						
1	8,027	-3.5	782.7	1.5%	6,283	-2.0
II	8,311	-3.8	779.1	2.6%	6,475	-1.3
Ш	8,332	-4.6	790.3	2.5%	6,584	-2.3
IV	8,281	-1.4	793.5	2.6%	6,571	1.2
Year	32,950	-3.3	786.4	2.3%	25,912	-1.1
2013						
I	7,740	-3.6	787.6	0.6%	6,096	-3.0
II	7,894	-5.0	779.6	0.1%	6,154	-5.0
Ш	7,956	-4.5	796.0	0.7%	6,333	-3.8
IV	7,705	-7.0	798.4	0.6%	6,152	-6.4
Year	31,295	-5.0	790.4	0.5%	24,735	-4.5
2014						
I	7,223	-6.7	796.1	1.1%	5,750	-5.7
II	7,428	-5.9	786.3	0.9%	5,841	-5.1
Ш	7,515	-5.5	804.8	1.1%	6,048	-4.5
IV	7,289	-5.4	806.4	1.0%	5,878	-4.5
Year	29,455	-5.9	798.4	1.0%	23,517	-4.9

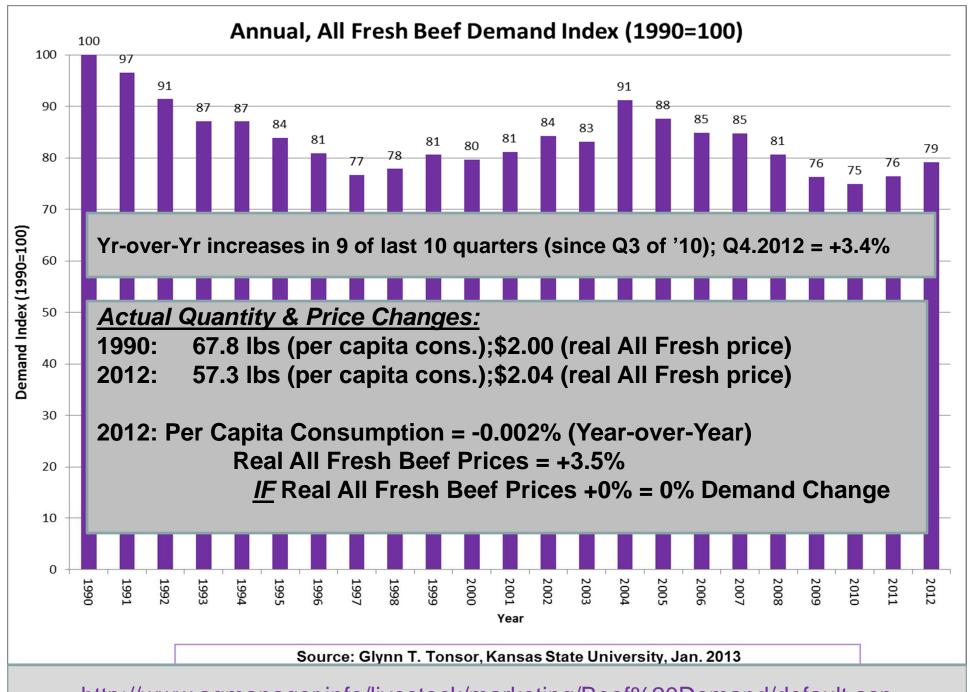
Quarterly Forecasts (LMIC:01/29/13)

	Live Sltr.	% Chg.	Feeder St	eer Price
Year	Steer Price	from	Southern Plains	
Quarter	5-Mkt Avg	Year Ago	7-800#	5-600#
2012				
1	125.29	13.8	154.25	182.41
II	120.91	7.2	152.65	178.65
III	119.69	4.9	141.82	150.57
IV	125.54	2.9	146.50	161.42
Year	122.86	7.1	148.81	168.26
2013				
1	127-129	2.2	146-149	164-168
II	128-131	7.1	146-151	165-17′
III	126-130	6.9	148-154	164-173
IV	128-133	4.0	149-156	163-170
Year	127-131	5.0	148-152	164-170
2014				
1	132-138	5.5	154-162	175-184
II	134-141	6.2	157-167	178-190
III	132-140	6.3	158-169	174-187
IV	134-143	6.1	156-168	171-18
Year	134-140	6.2	158-165	177-184

Economic Outlook Overview: Beef Demand

- Meat prices rising w/i basket of purchases...
 - "bacon shortage" discussions are exaggerations;
 record retail meat prices in 2013 are not...
 - as prices increase, public will require more quality...
 - Quality and value are in the eye of the beholder...
 - = debates on various technologies likely will intensify within industries, with customers, and with consumers...





http://www.agmanager.info/livestock/marketing/Beef%20Demand/default.asp

Industry Size Going Forward ...

- The U.S. beef cow industry has been downsizing for a long time...
 - Even if national herd expands, the number of operations will likely continue to decline...

 Alignment with those "in it for the long haul" is increasingly important



USDA's longer-term projections (as of Feb. 2012) ...

http://www.ers.usda.gov/Publications/OCE121/

U.S. beef cow inventory:

- 29.8 million in 2012
- 34.5 million in 2021 (+/- 1997 levels) / was 39.3 million in 1982
 - Beef Production (billion lbs): 25.4 (1997), 26.2 (2011)
 - More beef per cow will continue = less throughput in # head...

Domestic per capita red meat & poultry consumption:

- 221 lbs in 04-07 (Beef=65.7 lbs; Pork=50.4 lbs; Poultry=103.8 lbs)
- 198 lbs in 2013 (Beef=51.3 lbs; Pork=46.3 lbs; Poultry=98.5 lbs)
- 213 lbs in 2021 (Beef=58.7 lbs; Pork=47.2 lbs; Poultry=105.8 lbs)
 - These lower per capita volumes will be purchased with more consumer requests and hence requirements for industry-wide investment (& collaboration) in beef quality ...



Hot Topic Things To Converse Over

MCOOL: Aggregate economic loss is apparent

Animal Welfare: 1 of several "social concerns"

 Animal ID & Traceability: How far behind is the U.S. globally?



Big Picture Points to Ponder

- Complex relationship & views on technology:
 - Feed 9 billion, "control" prices, and do so in an "acceptable" manner is the story...
- Many things are elevating uncertainty...
 - Ben Franklin: "In this world nothing can be said to be certain, except death and taxes."
 - How much does today's uncertainty change a "\$100/hd expansion" rule of thumb???
 - How much does this impact a feedyard or packing plant's willingness to wait for better margins???



What To Do?

- In a period of increasingly updated & changing information: <u>utilize available resources</u>
 - Decision aides, these events, regularly updated online pieces...
- I encourage you to:
 - 1. "Look in the mirror" do you know your comparative advantage?
 - 2. Recognize this "isn't your father's world" anymore and manage accordingly...
 - 3. "Think globally, manage locally, and stay informed"

More information available at:



This presentation is available in PDF format at:

http://www.agmanager.info/about/contributors/individual/tonsor.asp

Glynn T. Tonsor
Associate Professor
Dept. of Agricultural Economics
Kansas State University
gtt@agecon.ksu.edu



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K-State Decision Aides: **Cattle Price Oriented**

(http://www.agmanager.info/Tools/default.asp)

- Expectations on Future Cash Prices
 - http://www.beefbasis.com/
- Examine Feeder Cattle Risk Management Alternatives
 - "K-State Feeder Cattle Risk Management Tool"
- Project Premium/Discount of Calf/Steer Attributes
 - "K-State Feeder Cattle Price Analyzer"
- Stocker Breakeven Selling/Purchasing Prices
 - "Cattle Breakeven Selling and Purchase Prices"



Other K-State Decision Aides

(http://www.agmanager.info/Tools/default.asp)

- NPV of Beef Replacements
 - "KSU-Beef Replacements"
- Beef Cow Lease Agreements
 - "KSU-CowLease"
- Determining Flint Hills Pasture Rents
 - "KSU-Graze.xls"



webinars



Beef-Cattle Economics





Beef-Cattle Economics webinar series

Series of quarterly webinars on beef-cattle markets and other industry-related issues.

2013 schedule (all webinars begin at 1:30 CST)

February 14

May 14

August 13

November 5

For details about specific topics and registering for webinars see additional information on AgManager.info AND http://www.meatingplace.com/Industry/Webinars

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