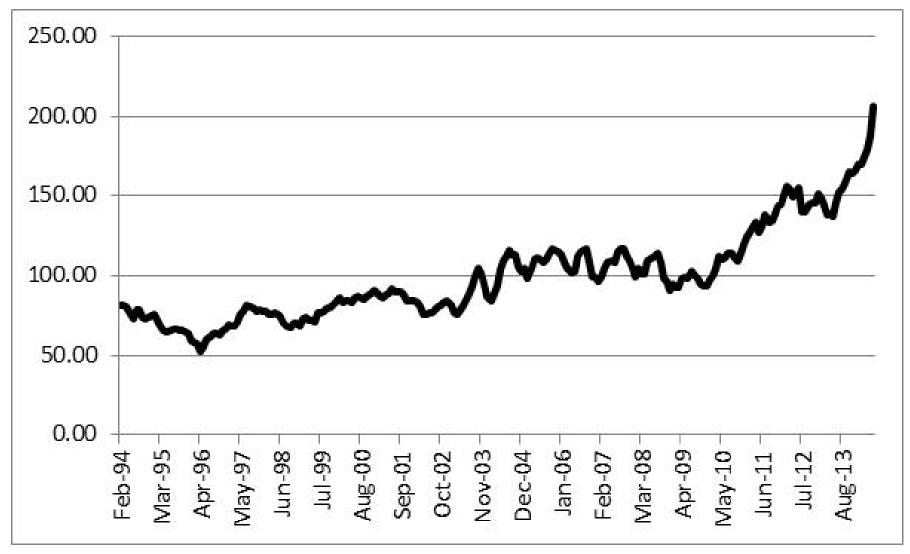
Cattle Market Update: August 2014

Kenny Burdine UK Agricultural Economics

Market Fundamentals

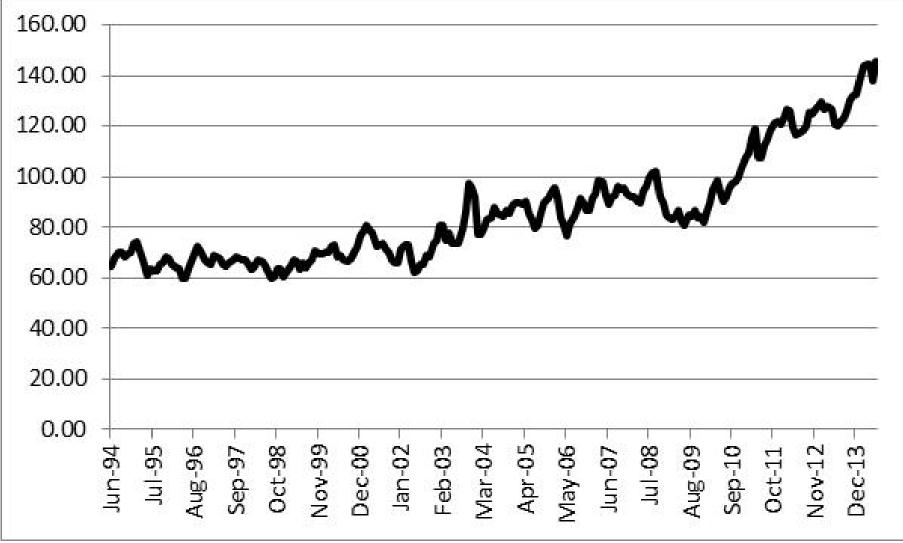
- Small cow-herd
 - Profit can't make it rain, competition for ground
 - Has expansion begun?
- Domestic demand has improved
 - Exports still very strong
- Calf / feeder markets still adjusting to feed prices \$2.50, \$3.50, \$7.50, \$5.00, \$3.50
- A lot of uncertainty / volatility

Nearby CME Feeder Cattle Futures (June 1994 - June 2014)

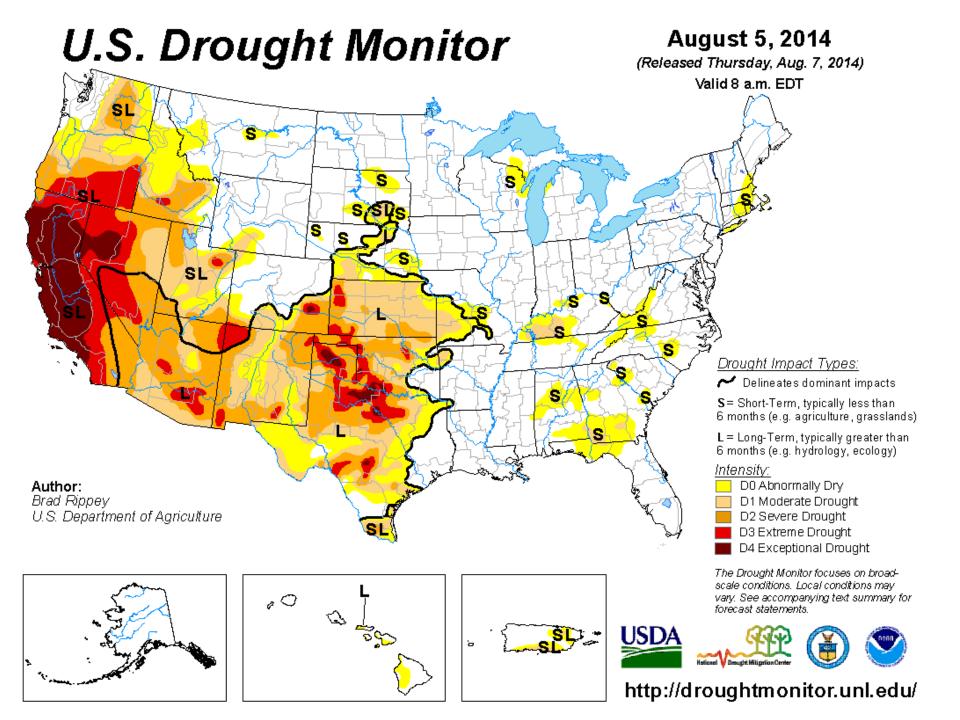


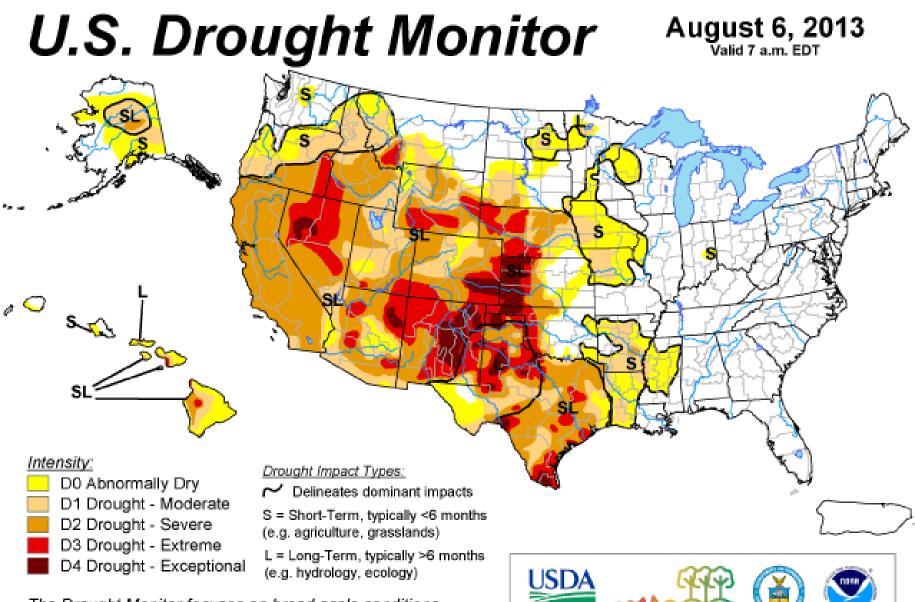
Source: CME© and LMIC

Nearby CME Live Cattle Futures (June 1994 - June 2014)



Source: CME© and LMIC





The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

http://droughtmonitor.unl.edu/

Released Thursday, August 8, 2013 Author: Brian Fuchs, National Drought Mitigation Center

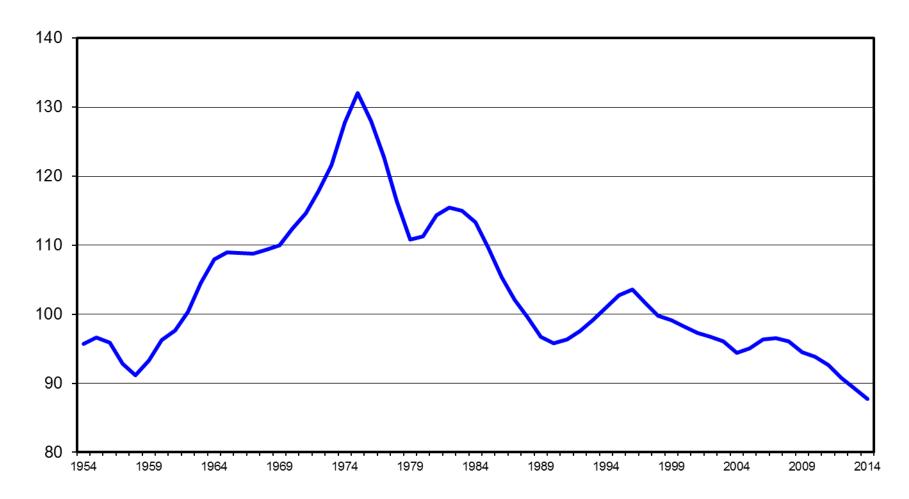
Drought Mitigation Certh

National

JANUARY 1 TOTAL CATTLE INVENTORY

U.S., Annual



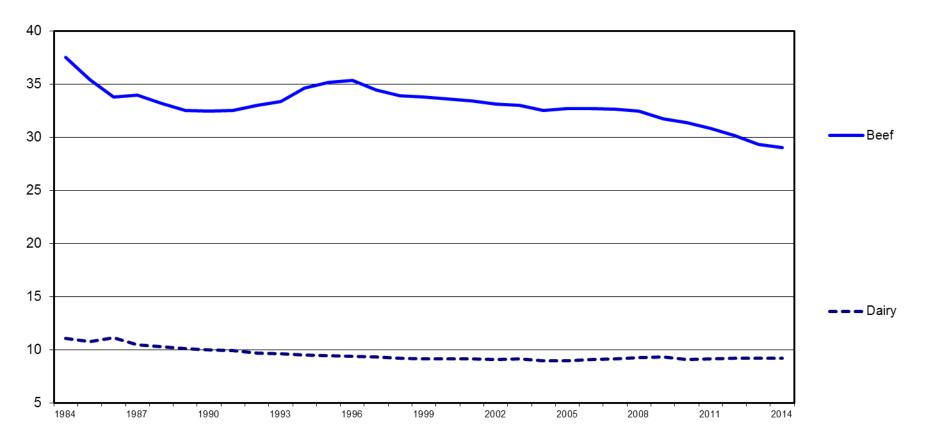


Livestock Marketing Information Center Data Source: USDA/NASS

JANUARY 1 COW INVENTORY

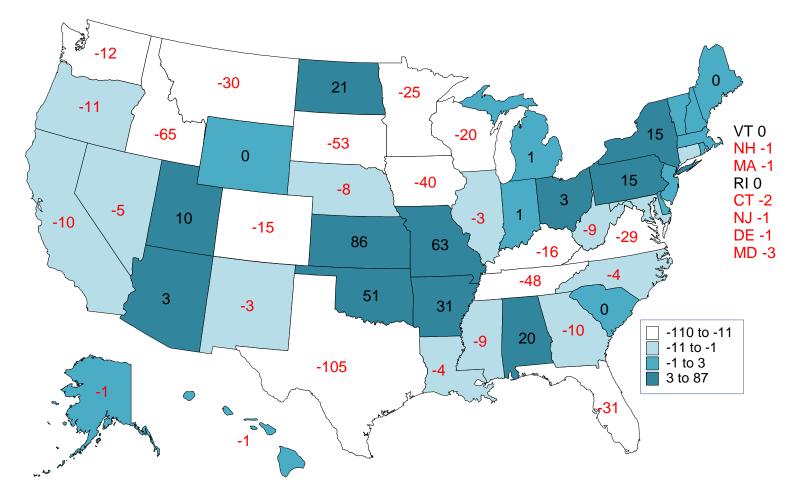
U.S., Annual

Mil. Head



Livestock Marketing Information Center Data Source: USDA/NASS

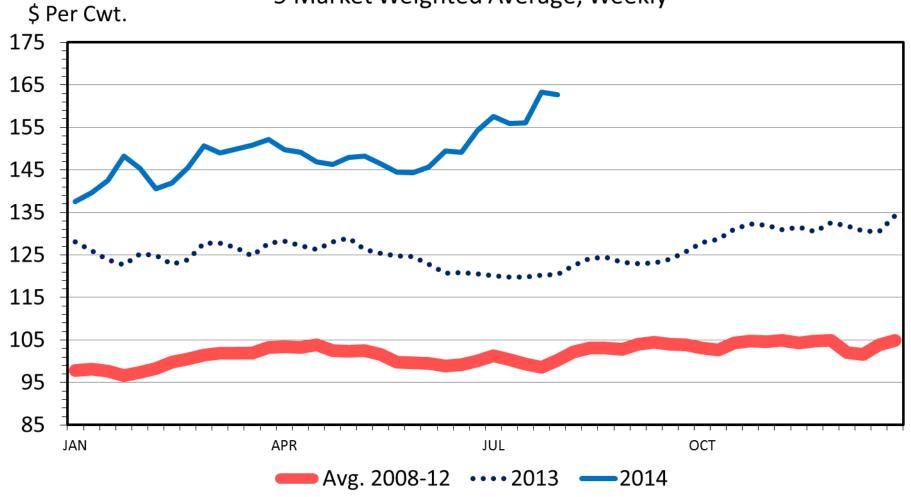
CHANGE IN BEEF COWS NUMBERS JANUARY 1, 2013 TO JANUARY 2014 (1000 Head)



Livestock Marketing Information Center Data Source: USDA-NASS

SLAUGHTER STEER PRICES

5 Market Weighted Average, Weekly

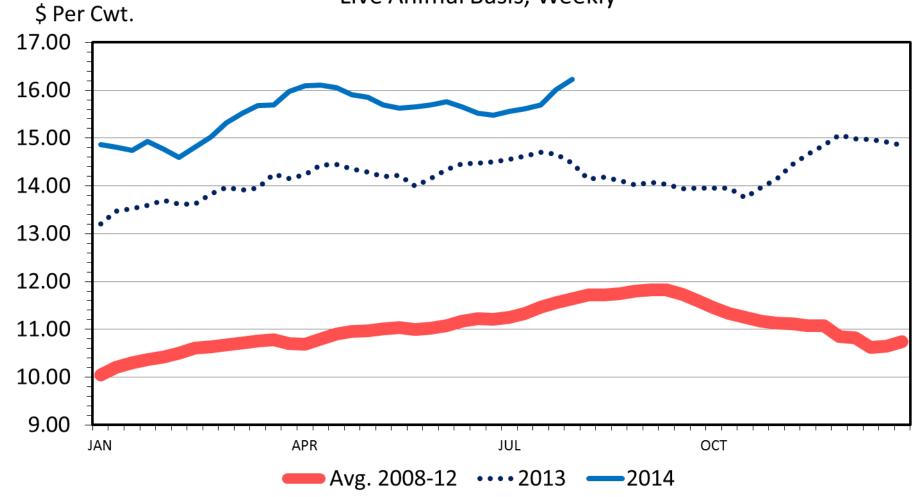


Data Source: USDA-AMS

Livestock Marketing Information Center

STEER HIDE AND OFFAL VALUE

Live Animal Basis, Weekly

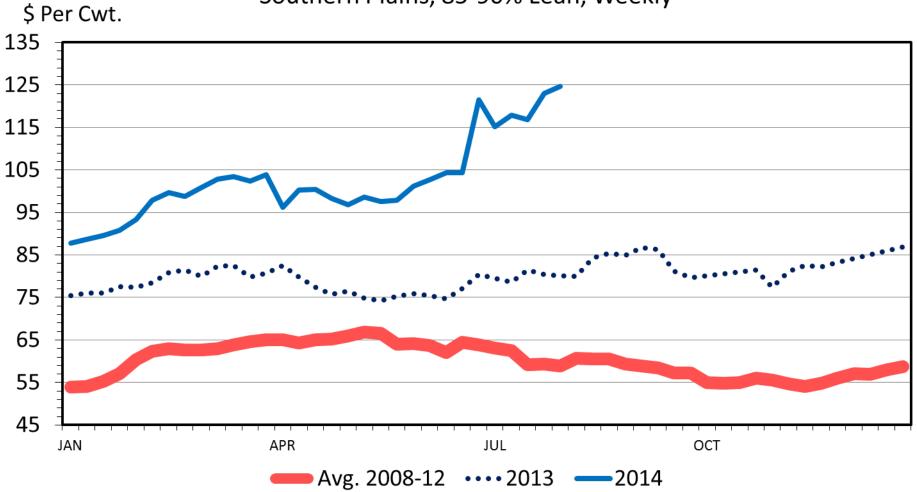


Livestock Marketing Information Center

Data Source: USDA/NASS

SLAUGHTER COW PRICES

Southern Plains, 85-90% Lean, Weekly

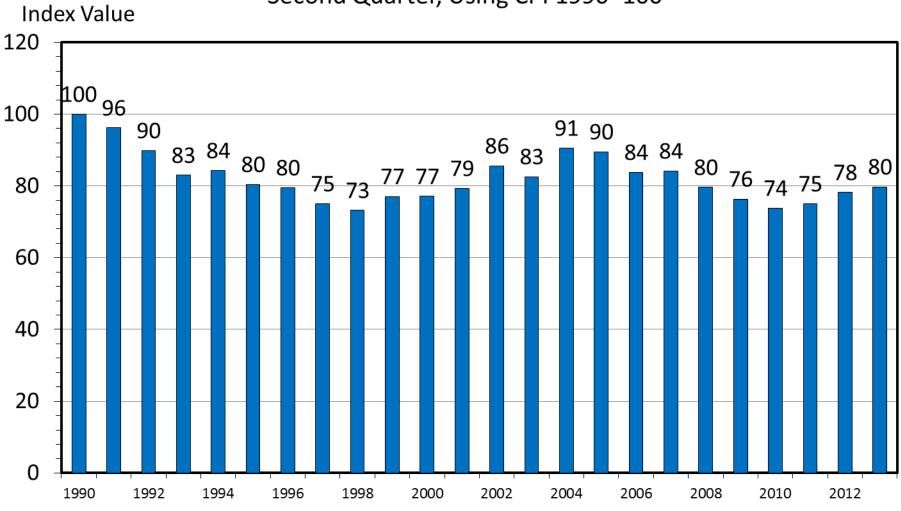


Livestock Marketing Information Center

Data Source: USDA/NASS

RETAIL ALL FRESH BEEF DEMAND INDEX

Second Quarter, Using CPI 1990=100



Data Source: USDA-NASS

Livestock Marketing Information Center

Values Greater than 100 = Expansion; Values Less than 100 = Contraction

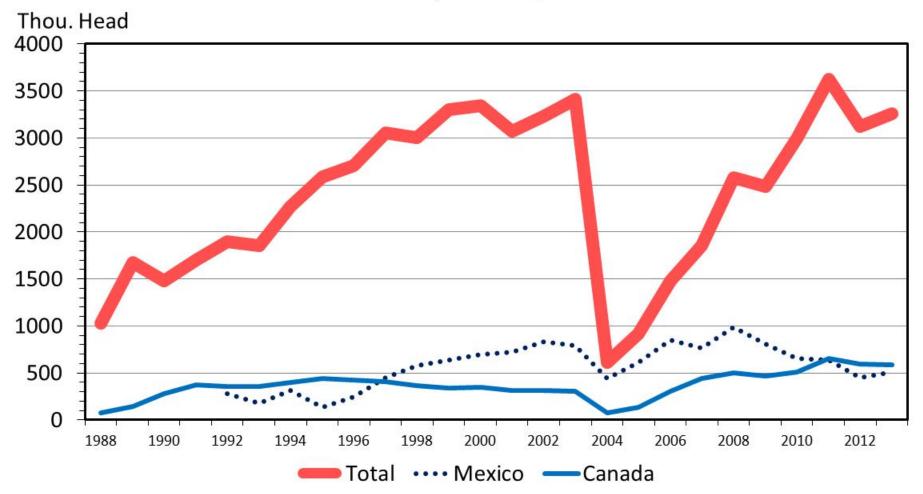
Restaurant Performance Index

Source: National Restaurant Association



US BEEF AND VEAL EXPORTS

Animal Equivalents, Annual



Livestock Marketing Information Center Data Source: USDA/NASS

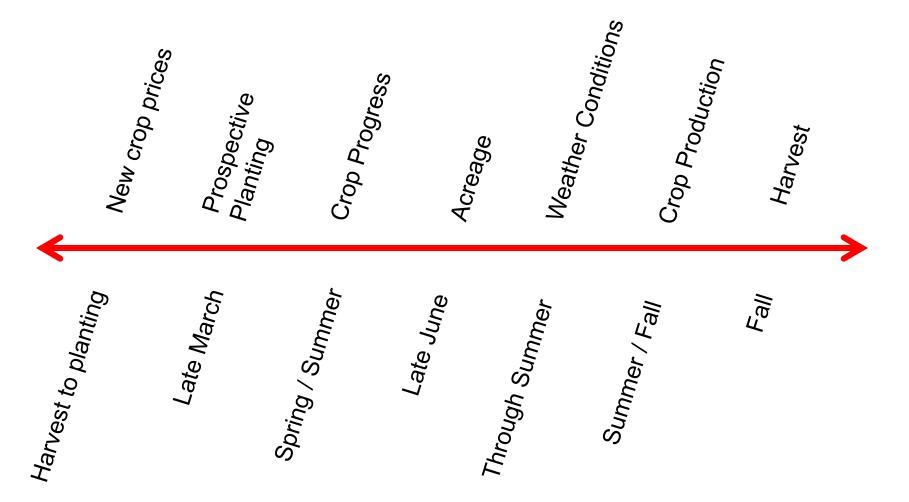
The Last Three Corn Crops

- 2012 Corn crop that kept getting smaller
 13 B bushels becomes 10.8 B bushels
 Corn price jumps nearly \$3 during season
- 2013 Corn crop that kept getting bigger
 - Very inverted corn market
 - Old crop vs. new crop
- 2014 following a large crop with another large crop – first estimate noon today
 - Market has taken nearly \$1.50 off expected harvest time price

Corn Impacts on Feeder Cattle Markets

- Corn price inversely related to price slides
 Value of pounds added
- Corn price effect smaller at high corn prices
 - Substitution affect
- Greater price impact on calves in fall
 More corn needed to finish
- Less impact on calves in spring – Who is bidding on calves when?

Crop Information Timeline

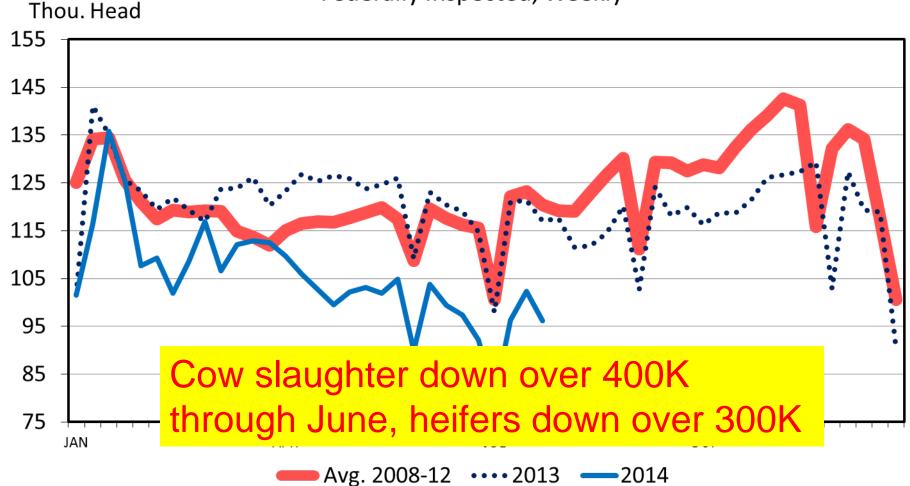


Some Thoughts on Expansion

- Profit can't make it rain
 - Consider 2004-2006
 - Is there pent up expansion desire?
- Competition from other land uses
 - Reverse conversion?
 - Do we have the farmer / land base to do it?
- It's more than heifer retention
 - Culling patterns
 - Impact on speed of expansion

TOTAL COW SLAUGHTER

Federally Inspected, Weekly



Livestock Marketing Information Center Data Source: USDA/NASS

Some Thoughts on Expansion

- Breeding stock is a long-term Capital Investment
 - Likely 8-12 years
- Current only matters so much
 - Danger with single annual budget approach
 - Expectations get bid into female values
 - Risk impacts desired returns
- Volatility equals risk

Hypothetical Cash Flow per

Now	Year 1	Year 2	Year 3	Year 4	Year 5
(\$2,200)	\$300	\$275	\$220	\$200	\$175
	Year 6	Year 7	Year 8	Year 9	Year 10
	\$150	\$125	\$100	\$75	\$900

Now: Purchase or development costs

- Yrs. 1-9: calf sales expenses
- Yr 10: (Calf sales expenses) + cull value

Assumptions of the Analysis

- Total fixed and variable costs
 \$550, \$650, \$750, \$850, \$950
- Bred heifer expected to have 10 productive years
 - 85% weaning rate
- Bred heifer costs
 - -\$1,750, \$2,000, \$2,250, \$2,500, \$2,750
- Calf prices start roughly at today's levels
 - (1) flat prices, (2) 20% steady decrease, and (3) 40% steady decrease over the next 10 years

Return for Bred Heifers Steady Price Scenario

Total Costs per Cow

Bred Heifer Cost	\$550	\$650	\$750	\$850	\$950
\$1,750	25%	19%	12%	6%	_
\$2,000	21%	15%	10%	3%	-
\$2,250	18%	13%	7%	2%	-
\$2,500	15%	11%	6%	-	_
\$2,750	13%	9%	4%	-	_
Assumptions: 10 yea	ar useful li	ife; 85% c	combined	calving/w	eaning

<u>Assumptions</u>: 10 year useful life; 85% combined calving/weaning rate; 550 lb steer/heifer and \$2.15/lb combined price, \$1000 cull value.

Return for Bred Heifers Moderate Price Drop Scenario

Total Costs per Cow

Bred Heifer Cost	\$550	\$650	\$750	\$850	\$950
\$1,750	19%	12%	4%	-	-
\$2,000	15%	9%	2%	-	-
\$2,250	13%	7%	-	-	-
\$2,500	10%	5%	-	-	-
\$2,750	8%	3%	-	-	_

<u>Assumptions</u>: 10 year useful life; 85% combined calving/weaning rate; 550 lb steer/heifer, start at \$2.15/lb combined price and decline to \$1.72 by year 10. \$800 cull value.

Return for Bred Heifers Large Price Drop Scenario

Total Costs per Cow

Bred Heifer Cost	\$550	\$650	\$750	\$850	\$950
\$1,750	12%	2%	_	_	_
\$2,000	8%	_	_	_	_
\$2,250	5%	-	-	-	-
\$2,500	3%	-	-	-	-
\$2,750	1%	-	-	-	-

<u>Assumptions</u>: 10 year useful life; 85% combined calving/weaning rate; 550 lb steer/heifer, start at \$2.15/lb combined price and decline to \$1.29 by year 10, \$600 cull value.

Breeding Stock Investment

• Bred heifer prices much like land values

assume continued current profit levels

- What are producer expectations for price over next several years?
- For upper end of bred heifer price range...
 - Both continued high price levels and very low costs structure need
- How have the last few years impacted required returns?
- Keeping mature cows vs. purchasing heifers

Thoughts for Summer Backgrounders

- Market has forgiven many mistakes this year
- Price early I would stay the course
- Unpriced protect what you have made thus far
- Don't get greedy
 - Years like this often followed by severe underpricing

Thoughts on Winter Backgrounding

- Board was on a roll through Wednesday, calf basis super strong
- Feeder futures now inverted, expect calf basis to weaken
- Spring 2015 futures suggesting 8wts in mid-\$190's, 7wts upper \$160's – low \$170's

– March / April board around \$205

- We usually take gross margins \$350-450
 Put 5wt steers in \$215 \$235 range
- Re-evaluate at weaning / placement

	sitivity of evenue mir		
		850# feeder prie	
	\$185	\$195	\$205
\$215	\$390	\$475	\$560
220# calf b	\$335	\$420	\$505
\$ 235	\$280	\$365	\$450

What do I expect for winter margins?

Winter Backgrounding Budget est.

Sales	# units	unit	price / unit	total
Feeder	851.5	lbs	\$1.95	\$1,660.43
Expenses				
Stocker Calf	550	lbs	\$2.25	\$1,237.50
Нау	1407	lbs	\$0.04	\$56.28
Hulls / Gluten	1,407	lbs	\$0.10	\$140.70
Feed 2	0	lbs	\$0.04	\$0.00
Mineral	0.25	lbs / day	\$0.40	\$13.40
Vet / Med	1	head	\$25.00	\$25.00
Commision	1	head	\$15.00	\$15.00
Hauling	1	head	\$12.00	\$12.00
Other	1	head	\$5.00	\$5.00
Interest	6%	rate		\$32.44
Death loss	2%			\$25.26
Total Expenses				\$1,562.58
Return to Land, Ca		\$98		

A few things to remember...

- A \$1 movement in futures is worth about \$1.50 on calves
- Think through cost differences owned calves vs. purchased
- Sometimes you make your money on the buy...
 - Budgets based on 550# @ \$2.25
 - Each nickel is worth \$27.50
- Manage downside sale price risk
 - 10% increase in feed costs (\$20) WINTER
 - 10% decrease in sale price (**\$166.00**)

My Predictions

- I expect cow numbers to grow slightly during 2014
 - Delay is less relevant this time culling
 - Likely expand quicker in early stages
 - Slower growth after cow-herd stabalizes
- Prices more sensitive with tight supplies
 - Fed cattle prices peak in 2015
 - Prices decrease fall-over-fall in 2015 for calves and feeders

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