

# CATTLE FINISHING RETURN

## S E R I E S

October 2011

### CATTLE FINISHING NET RETURNS

This article discusses recent trends in feeding cost of gain and cattle finishing profitability. Several sources of data were used to compute the cattle finishing net return series discussed below. Feeder and fed cattle prices were obtained from the seasonal cattle price spreadsheet updated monthly by Kevin Dhuyvetter. Average daily gain, feed conversion, days on feed, in weight, out weight, and feeding cost of gain were obtained from monthly issues of the *Focus on Feedlots* newsletter. Interest rates were obtained from the Kansas Federal Reserve Bank of Kansas City.

Figure 1 presents monthly steer finishing net returns from January 2000 to September 2011. It is important to note that net returns were computed using closeout months rather than placement months. Net return per head for all of 2010 was approximately \$52 compared to losses of \$105 and \$117 per head in 2008 and 2009. Net returns for January, February, March, and April of this year were approximately \$42, \$52, \$150, and \$171 per head, respectively. Losses in May, June, July, August, and September were approximately \$30, \$107, \$65, \$80, and \$70, respectively. As alluded to below, losses are expected for the rest of the year.

Figure 2 illustrates fed price and breakeven prices from January 2000 on. The breakeven prices starting in October 2011 are forecasted. The breakeven price for October is expected to range from \$122 to \$124 per cwt. At these breakeven prices, losses per head are expected

to range from \$25 to \$45. Breakeven prices are expected to remain above \$120 for next six months. Breakeven prices for November and December of 2011 are expected to range from \$124 to \$128. Breakeven prices for the first quarter of 2012 are expected to range from \$124 to \$127. The breakeven prices noted above would result in losses. However, it is important to note that the breakeven prices for late this year and early next year are highly dependent on the corn market, which has been highly volatile in the last few months. Breakeven prices for the second quarter of 2012 are close to projected fed cattle prices, so net returns are expected to be close to or slightly above breakeven for this quarter.

Correlation coefficients can be used to examine the relationship between net returns, feeding cost of gain, and the feeder to fed cattle price ratio. Correlation is a statistical measure of how variables move together and is bounded by -1.0 and 1.0. A value of -1.0 indicates two variables move together perfectly, but in opposite directions, while a value of 1.0 indicates two variables move up and down together proportionally. Values close to zero indicate two variables have little relationship to each other.

Net returns are significant and negatively correlated with feeding cost of gain ( $r = -0.243$ ). Figure 3 illustrates monthly feeding cost of gain from January 2000 to September 2011. Feeding cost of gain has increased from \$69 in October of last year to \$107 in September of this year. Feeding cost of gain from October to March is

expected to range from \$107 to \$110. Feeding cost of gain is sensitive to changes in feed conversions, corn prices, and alfalfa prices. Regression analysis was used to examine the relationship between feeding cost of gain and feed conversion, corn prices, and alfalfa prices. Results are as follows: each 0.10 increase in feed conversion increases feeding cost of gain by \$1.00 per cwt, each 0.10 per bushel increase in corn prices increases feeding cost of gain by \$1.12 per cwt, and each \$5 per ton increase in alfalfa prices increases feeding cost of gain by \$0.35 per cwt.

Net returns are also significant and negatively correlated with the feeder to fed cattle price ratio ( $r = -0.828$ ). The strong correlation between these variables reveals the importance of this price ratio to net returns. The feeder to fed cattle price ratio is illustrated in figure 4. The average price ratio since 2000 is 1.17. Of course, it is not possible to fully anticipate what fed cattle prices will be when purchasing feeder

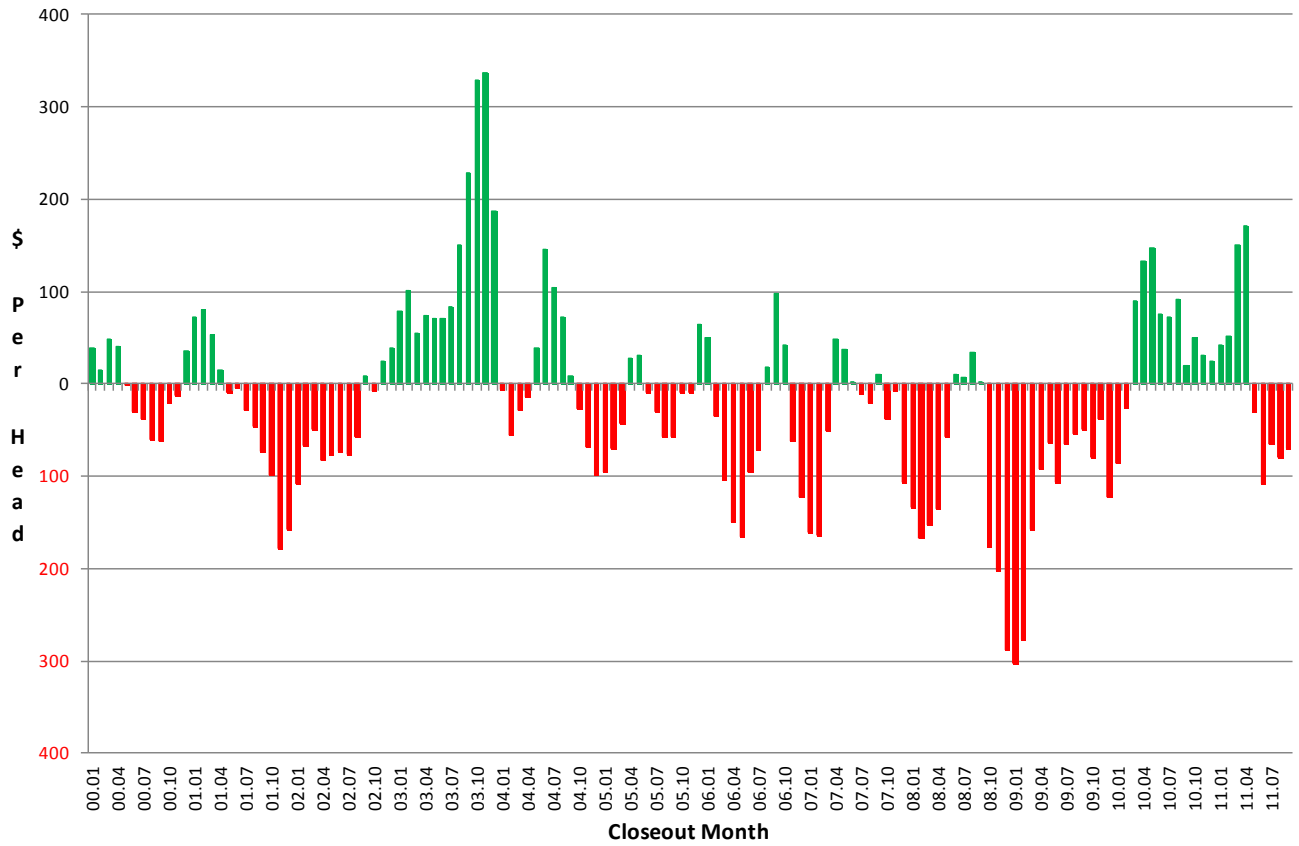
cattle. Large deviations from the mean price ratio indicate periods for which expected and actual fed cattle prices were quite different. The closeout months with ratios below 1.00 exhibited cattle net returns averaging \$178 per head while the closeout months with ratios above 1.40 exhibited cattle finishing losses averaging \$163 per head. The feeder to fed cattle price ratio in September was 1.10. The feeder to fed cattle ratio for fourth quarter closeouts is expected to range from 1.09 to 1.18.

This article discussed recent trends in feeding cost of gain and cattle finishing net returns. Net return information for beef cow and backgrounding operations is available on the Kansas Farm Management Association web site ([www.agmanager.info/kfma](http://www.agmanager.info/kfma)).

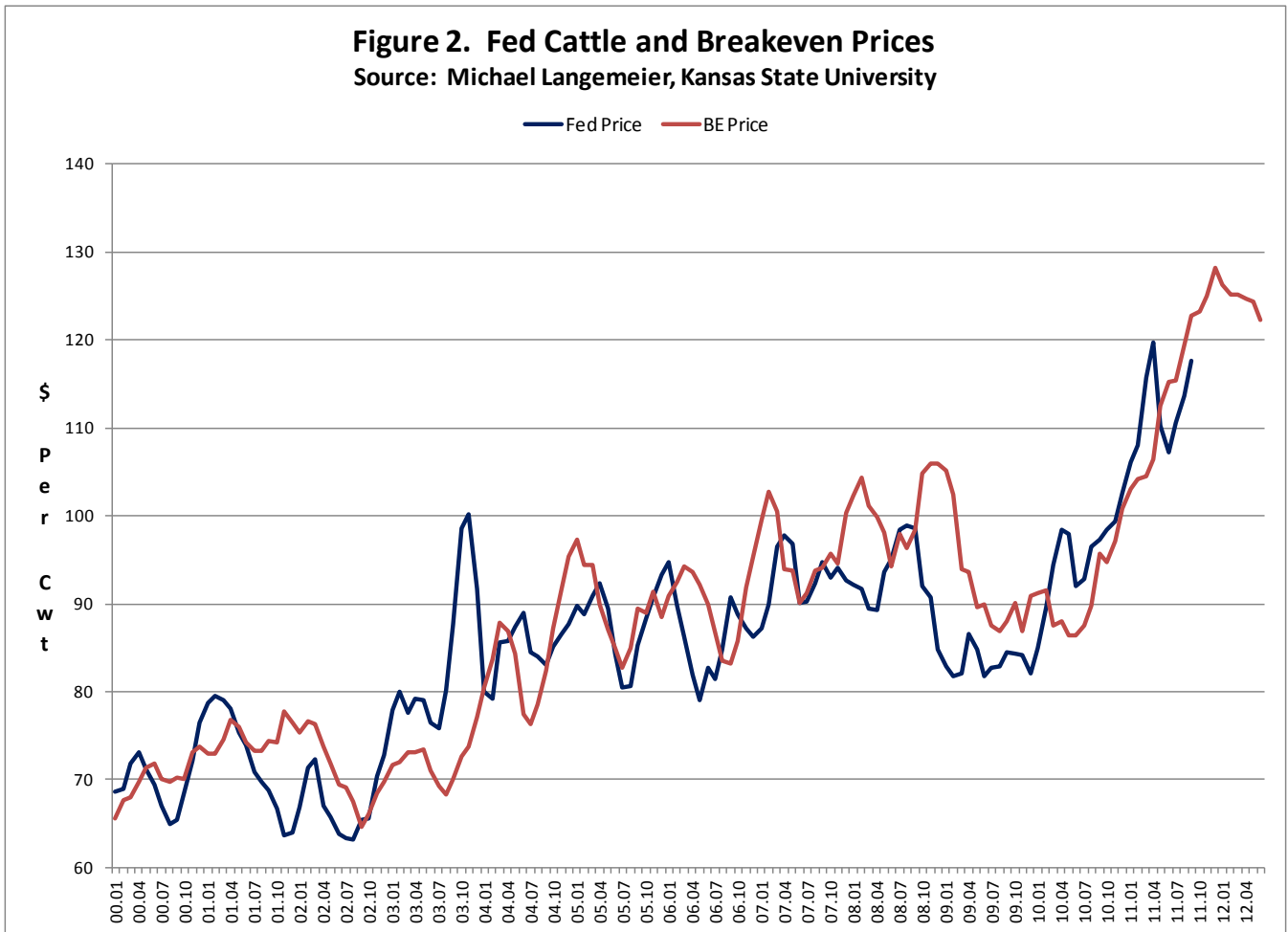
*Michael Langemeier, Professor  
Department of Agricultural Economics  
Kansas State University*

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**Figure 1. Historical Net Returns for Finishing Steers**  
Source: Michael Langemeier, Kansas State University

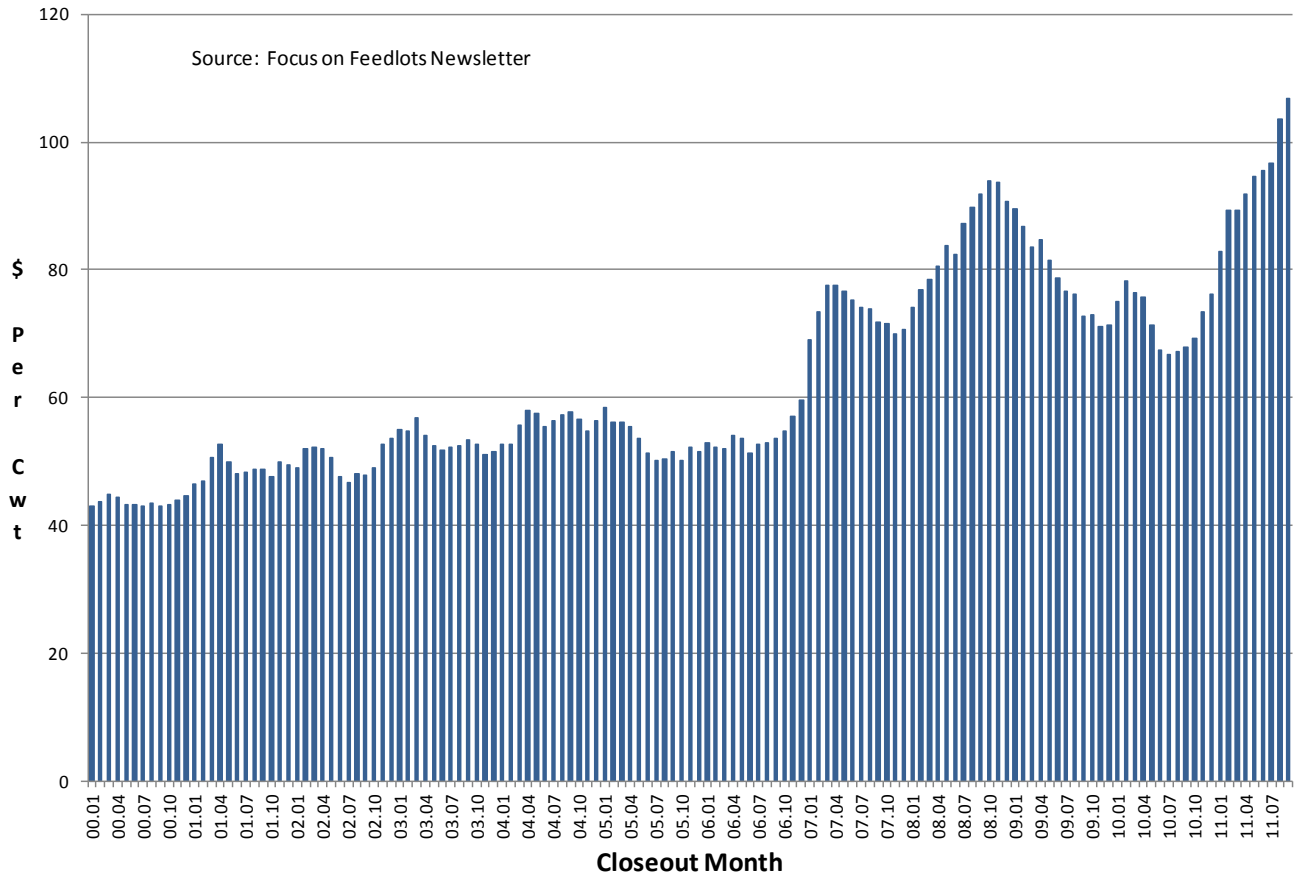


**Figure 2. Fed Cattle and Breakeven Prices**  
Source: Michael Langemeier, Kansas State University

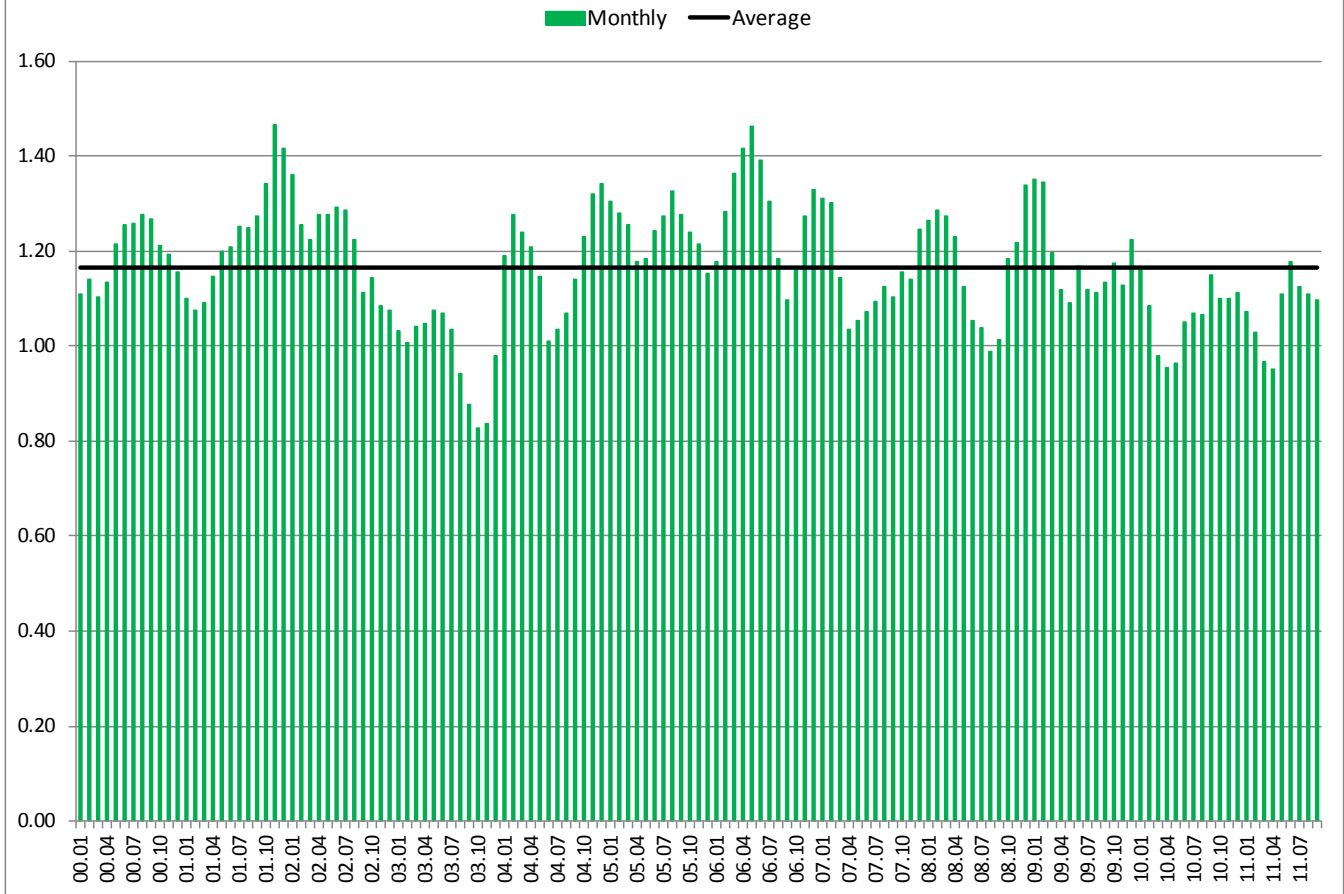


**Figure 3. Feeding Cost of Gain for Steers**

Source: Focus on Feedlots Newsletter



**Figure 4. Ratio of Feeder Prices to Fed Cattle Prices**



The Cattle Finishing Returns Series is distributed monthly to provide information to farm decision makers. Further information can be found on the Extension Agricultural Economics website: [www.agmanager.info](http://www.agmanager.info).



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