

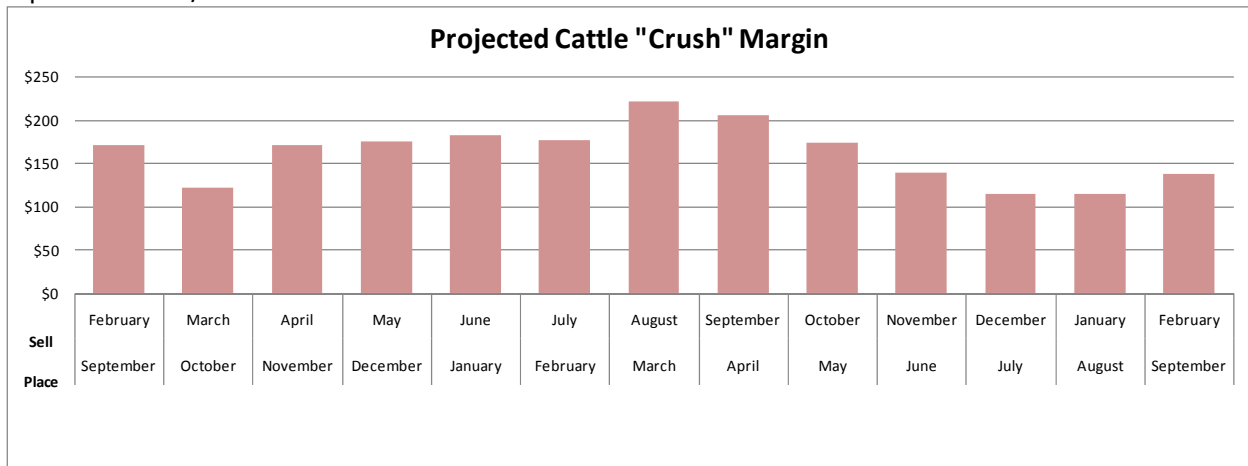
Feedlot Crush Margins

Two weeks ago, opportunities for locking in profitable margins at the feedlot level were discussed in this newsletter by Dr. Derrell Peel of Oklahoma State. While not everyone may be interested in feeding their own cattle in a feedlot, what happens at the feedlot level certainly will transfer back through the supply chain to the cow/calf producers that are the backbone of beef production in this state. The “crush” margin provides a quick snapshot of potential returns to the feedlot industry.

The “crush” margin is fairly easy to compute if the person has access to futures market prices for fed cattle, feeder cattle, and corn. Basis adjustments to the corn and fed cattle prices would also be made to account for regional differences in the cash market. The crush margin is calculated as the revenue earned from the fed cattle and subtracting the cost of feeder cattle and for 50 bushels of corn. The amount of corn needed will be variable depending on the starting and ending weight for the animals fed. In the example presented here, a 750 pound steer is fed until it weighs 1250 pounds. The nearby futures price was used for months that are not traded (month closest to when fed animal would be sold). Using today’s futures closing prices and adjusting for the basis, the crush margin for a steer placed in November in Texas and assumed to be fed for 5 months, the margin is:

$$(12.5 \times \$85.51) - (\$94.80 \times 7.5) - (50 \times \$3.74) = \$170.88/\text{head}$$

The profit projected for placing a steer in the feedlot in November and finished in March only accounts for the cost of the cattle and the corn. Feedlots have other costs not accounted for in this margin and total costs associated with feeding cattle can range from \$200 to \$250 per head in the Southern Plains that the margin must cover. One major drawback of using the crush margin is that it reflects the futures market’s current view of anticipated supply and demand conditions. If demand were suddenly to pick up, the projected margin would change. As with any risk management tool, make sure all factors of production are locked in (fed cattle and corn price). The graph below indicates that given the current market situation, it will still be sometime before profitability returns to the feedlot and incentives to expand the cow/calf sector.



Source: CME Group, LMIC

The wet conditions locally that have prevented hay being harvested are slowing down crop harvest further north. Wet weather is also putting a damper on calf demand by those producers who stocker cattle on winter wheat pasture. It's not too late for these producers to source cattle for grazing, but the longer the wet weather persists, the question then becomes what those producers do with wheat that has already been planted: either graze it out or harvest it for wheat. Progress in harvesting soybeans has now passed corn progress. There has been some discussion this week on if producers will let the corn still in the fields dry naturally prior to harvesting or use propane to dry the corn (which has increased in price of late). There will be some yield loss associated with letting the corn dry in the fields, but this will still be one of the largest corn crops on record. In other news, this week it was announced 26,000 dairy cows were accepted into the latest Cooperatives Working Together (CWT) dairy herd buyout, much lower than expected.

Contracts for corn as well fed and feeder cattle were lower this week. Weather concerns have built a premium into the corn market for the time being given uncertainties with regards to the size of the crop. A stronger dollar and lower crude oil futures pushed corn contracts down this week. Although live cattle trade was higher again this week, fed futures weren't able to turn this into a rally with consumer spending falling last month and renewed strength in the dollar making our beef exports more expensive to foreign consumers. Lower corn futures were unable to provide support for feeder contracts with lower fed prices and economic concerns.

Cash fed cattle trade took place on Wednesday and Thursday this week with prices continuing upwards. Live prices were \$86 up to \$88 (mainly in Texas). Dressed prices ranged \$132 to \$139 in Kansas. Choice boxed beef prices pushed above \$140 for the week (the first time in a month above this threshold). Select prices were at \$136 for the week.

In Louisiana, cull cows and bulls sold mostly steady as did feeder steers and heifers with some weight groups seeing firmer prices.

Table 1. Louisiana Auction Prices for the Week Ending October 30, 2009

| Weight | Steers | Heifers | Slaughter Classes | |
|---------|-----------|----------------------|---------------------------|---------|
| 200-250 | \$120-125 | \$105-115 | Breakers | \$40-49 |
| 250-300 | \$98-134 | N/A | Boners | \$36-47 |
| 300-350 | \$95-133 | \$78-95 | Lean | \$30-43 |
| 350-400 | \$96-125 | \$78-103 | | |
| 400-450 | \$90-113 | \$77-100 | Bulls, YG 1-2, <1,500 lbs | \$49-53 |
| 450-500 | \$80-111 | \$74-89 | Bulls, YG 1-2, >1,500 lbs | \$50-58 |
| 500-550 | \$80-102 | \$70-94 | | |
| 550-600 | \$78-89 | \$70-82 | | |
| 600-650 | \$74-90 | \$67-84 ¹ | | |
| 650-700 | \$75-85 | \$67-84 ¹ | | |

Note: All prices are in \$/cwt, steers and heifers are Medium and Large 1-2

Price ranges may reflect higher prices received in northern areas of the state in the middle of the week

¹Represents the price was reported in hundred pound increments as opposed to fifty pound increment.

Source: USDA AMS

Table 2. Louisiana Auction Prices for the Week Ending October 23, 2009

| Weight | Steers | Heifers | Slaughter Classes | |
|---------|------------------------|------------------------|---------------------------|------------|
| 200-250 | \$120-135 ¹ | \$103-115 ¹ | Breakers | \$40-47.50 |
| 250-300 | \$120-135 ¹ | \$103-115 ¹ | Boners | \$37-47 |
| 300-350 | \$93-133 | \$80-110 | Lean | \$31-42 |
| 350-400 | \$91-123 | \$76-106 | | |
| 400-450 | \$88-116 | \$74-105 | Bulls, YG 1-2, <1,500 lbs | \$42.50-52 |
| 450-500 | \$80-108 | \$70-96 | Bulls, YG 1-2, >1,500 lbs | \$50-57.50 |
| 500-550 | \$82-102 | \$70-93 | | |
| 550-600 | \$76-94 | \$70-89 | | |
| 600-650 | \$78-88 | \$68-83 ¹ | | |
| 650-700 | \$76-86 | \$68-83 ¹ | | |

Note: All prices are in \$/cwt, steers and heifers are Medium and Large 1-2

Price ranges may reflect higher prices received in northern areas of the state in the middle of the week

¹ Represents the price was reported in hundred pound increments as opposed to fifty pound increment.

Source: USDA AMS

Table 3. Futures Prices

| Month | Live Cattle | Change* | Feeder Cattle | Change* | Corn | Change* |
|-------|-------------|---------|---------------|---------|---------|---------|
| Oct | \$ 81.65 | -4.70 | | | | |
| Nov | | | \$ 94.80 | -0.67 | | |
| Dec | \$ 85.68 | -1.73 | | | 366 | -31 3/4 |
| Jan | | | \$ 95.08 | -0.72 | | |
| Feb | \$ 86.85 | -0.90 | | | | |
| Mar | | | \$ 95.60 | -1.08 | 379 1/4 | -30 |
| Apr | \$ 88.65 | -0.82 | \$ 96.40 | -1.00 | | |
| May | | | \$ 97.25 | -0.75 | 388 1/4 | -29 1/4 |
| Jun | \$ 85.28 | -1.13 | | | | |
| Jul | | | | | 396 1/2 | -28 1/4 |
| Aug | \$ 85.13 | -1.25 | \$ 98.45 | -0.85 | | |
| Sept | | | \$ 98.90 | -0.30 | 403 3/4 | -23 |
| Oct | \$ 87.70 | -1.70 | \$ 99.00 | N/A | | |

Source: DTN

* Change is from the previous Friday's close

Table 4. State and National Market Information

| Commodity | This Week | Last Week | Last Year |
|--|------------|------------|------------|
| 5 – Area Fed Steer Price | | | |
| Live | \$ 86.84 | \$ 84.59 | \$ 91.19 |
| Dressed | \$ 133.86 | \$ 131.62 | \$ 140.34 |
| Oklahoma City Feeder Cattle Prices | | | |
| 5-5.5 cwt Med and Large #1 | \$ 107.04 | \$ 108.25 | \$ 109.65 |
| 7.5-8 cwt Med and Large #1 | \$ 95.16 | \$ 94.70 | \$ 96.76 |
| Boxed Beef Cutout Values (weekly average) | | | |
| 600-900 lb Choice cutout | \$ 141.15 | \$ 137.68 | \$ 142.06 |
| 600-900 lb Select cutout | \$ 135.79 | \$ 133.15 | \$ 135.51 |
| Georgia Dock Broilers | \$ 81.74 | \$ 81.95 | \$ 87.02 |
| Georgia B/S Breasts | \$ 124.00 | \$ 124.50 | \$ 113.00 |
| Georgia Leg Quarters | \$ 37.50 | \$ 37.50 | \$ 47.50 |
| Meat production (million lbs) | | | |
| Beef | 518.9 | 515.5 | 503.1 |
| Pork | 463.9 | 470.3 | 479 |
| Slaughter (1,000 head) | | | |
| Cattle | 651 | 646 | 638 |
| Hogs | 2,294 | 2,323 | 2,386 |
| Broilers/Fryers | 167,531 | 168,057 | 160,691 |
| Average Dressed Weight | | | |
| Cattle | 800 | 801 | 791 |
| Hogs | 202 | 202 | 201 |
| | 10/24/2009 | 10/17/2009 | 10/26/2008 |
| Poultry Placements (in thousands)¹ | | | |
| LA Broiler Egg Sets | 2,917 | 3,379 | 2,740 |
| US Broiler Egg Sets | 187,586 | 186,756 | 191,280 |
| LA Broiler Chick Placements | 2,361 | 3,113 | 3,078 |
| US Broiler Chick Placements | 150,844 | 159,962 | 154,412 |

Source: USDA Agricultural Marketing Service, USDA National Agricultural Statistics Service and Livestock Marketing Information Center

¹Note the placements numbers are lagged by one week prior to publishing.