

The World's Largest Open Access Agricultural & Applied Economics Digital Library

# This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.

Help ensure our sustainability.

Give to AgEcon Search

AgEcon Search http://ageconsearch.umn.edu aesearch@umn.edu

Papers downloaded from **AgEcon Search** may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.

# Determining the Impacts of Cattle Origin and Ownership Characteristics on Feedlot Performance

Anna Stehle Oklahoma State University <u>anna.stehle@okstate.edu</u>

Derrell Peel Oklahoma State University <u>derrell.peel@okstate.edu</u>

Selected Paper prepared for presentation at the Southern Agricultural Economics Association's 2016 Annual Meeting, Mobile, Alabama, February 4-7 2017

#### Introduction

The beef production chain functions as a collective of distinct phases, starting with the cow-calf sector and finishing at the packer stage. Unlike poultry or pork production, which can occur in one location over a relatively short period, raising beef requires large acreage inputs and typically 18 to 22 months to produce a viable carcass (Ward 1997, NCBA 2009). These requirements have caused the cattle industry to become segmented into three principal phases: cow-calf, backgrounding/stocker and feedlot operations. Cow-calf producers concentrate on producing a calf crop for input into the beef supply chain. Next, stocker operators focus on adding weight and maturity to feeder cattle. Finally, feedlots concentrate on adding additional weight and finishing cattle to produce a carcass with acceptable yield and marbling characteristics. Finished cattle are then processed by beef packing firms for wholesale and retail distribution and consumer consumption.

In the United States, approximately 619,172 operations are dedicated to producing beef cattle (NCBA 2015). This estimate includes cow-calf, stocker and feedlot operations. The cattle industry is the highest grossing agricultural sector with \$88.25 billion in farm gate receipts in 2014 (NCBA 2015). Cow-calf producers form the broad base of the beef industry and operate throughout the country from Florida to Alaska. As cattle progress toward the feedlot and packer levels the number of operations narrows. Seventy feedlots in the U.S. have an operating capacity greater than 50,000 head and about 40% of fed cattle are marketed from feedlots with a capacity of at least 32,000 head (LMIC 2015, Jones and Edwards 2016). Nearly 80% of commercial beef produced in the US is grain-finished in feedlots; hence feedlots are an integral part of the beef production process (Mathews and Johnson 2013).

The broad cow-calf industry produces calf inputs that vary in quality. While the poultry, pork and dairy industries produce livestock from a narrow genetic base, genetics in the beef cattle industry are expansive due to diverse breeds and crossbreeding programs (Ward 1997). The wide range of genetics, production environments and herd management practices makes it difficult to accurately forecast feedlot performance and carcass grading. Furthermore, individual background information, including birth and weaning weights, genetic composition, vaccination history, weaning protocol and implant schedule, is often not transferred from the buyer to seller as cattle are marketed, often multiple times, through narrowing channels. An animal's background impacts feeding efficiency, carcass quality and potential for economic returns. For example, a study conducted by Oklahoma State University (OSU) found that calves treated for bovine rhinotracheitis virus more than twice produced carcasses that graded lower than calves that are never treated or treated only once. Performance translates to economic returns and compared to calves that were never treated, calves that were treated once, twice and more than three times returned \$40.64, \$58.53 and \$291.93 per head less, respectively (Fulton et. al 2002).

The objective of this research is to determine how background characteristics influence cattle performance in a commercial feedlot setting. Without a certified marketing program, background and quality information can be lost or misrepresented in the market, creating an asymmetrical relationship between buyer and seller, which causes negative market externalities. Using origin and ownership variables, pen-level observations are categorized and analyzed to determine how background variables impact feedlot performance and economic returns.

Perceiving Cattle Quality

The dissemination of information across stages in the beef cattle industry has been a notable research topic for years. Tracing individual animals through the supply chain maintains useful information for production and trade purposes but traceability systems are complex and include privacy and liability concerns (Hobbs 2004). The U.S. Department of Agriculture (USDA) attempted to establish a national traceability program in 2002 with the National Animal Identification System (NAIS) to organize animal disease outbreak responses and to verify food safety standards for animal product exports (USDA 2006). NAIS encouraged livestock producers to register their farm premises and track the movement of livestock for disease control. In April 2006, 235,000 <u>livestock</u> premises were registered and the USDA hoped to achieve full participation by 2009 (Loyd and Redding 2006). Cattle producers expressed resistance and only 18% of cattle operations registered themselves by 2008 (Greene 2010). The low participation rate of cattle producers caused the USDA to declare NAIS ineffective for disease control in the cattle industry (Greene 2010).

While producers may be wary of traceability programs, research has shown that quality verification programs are increasing in popularity and can provide opportunities to receive price premiums at market (Lalman and Mourer 2014). The Oklahoma Quality Beef Network (OQBN) is a certified preconditioning program that requires producers to castrate bull calves, dehorn, wean calves for at least 45 days prior to the OQBN auction to qualify for the Vac-45 program (Mourer 2016). In 2012, 7.3% of calves marketed in Oklahoma were enrolled in a value-added program (Mourer 2014). The benefits of preconditioning calves include stronger immune systems, higher stress tolerance and improved feed efficiency (Lalman and Mourer 2014). Research of the OQBN sales identified premiums ranging from \$3.94/cwt to \$14.33/cwt for

preconditioned calves. The research also found that feedlot managers valued preconditioned calves at a \$5.25/cwt premium (Ward and Lalman 2003).

Quality assurance programs are a proven method to retain and transfer background information from cow-calf producer to stocker or feedlot operator. Another method to maintain the integrity of background information is retaining ownership through the cow-calf to feedlot stage. Retained ownership expands marketing opportunities and establishes a connection to exchange background and feedlot performance information. Knowledge of genetic composition, vaccine history and origin is useful for determining finishing dates and sorting pens in the feedlot. Genetic composition influences feeding efficiency and development of external fat. For example, Black Angus cattle typically have higher average daily gain rates and fat thickness compared to Red Angus, Brangus and Polled Hereford breeds (Parish et al. 2014). Meanwhile, vaccine history and origin directly influence the health of a pen. Step et al. (2008) found that steers sourced from a sale barn were treated more often for bovine respiratory disease and experienced a high death loss rate compared to steers sourced directly from the country.

Previous research confirms the value of performance and management data yet often it is unclear how to utilize background information to improve commercial feedlot management. Thompson et al. (2014) assessed the value of individual, genetic molecular breeding values (MBV) to determine the optimal days on feed. The value of using average daily gain and marbling MBVs is estimated to be \$0.47 per head. The study results indicate that sorting cattle based on MBV traits can increase feedlot profitability (Thompson et al. 2014). In regards to vaccinations, Chymis et al. (2007) noted that asymmetric information <u>cancould</u> cause inefficient revaccination practices. Buyers are inclined to revaccinate cattle if the cost of vaccination is lower than the costs associated with sickness, treatments and death loss. Even though vaccination doses are relatively inexpensive, costs can accumulate quickly as the feedlot's volume of cattle increases. Accurate background information can eliminate revaccinations and allow feedlot managers to sort cattle according to health history and identify high-risk animals. Understanding the value of background information can assist producers and feedlot managers to distinguish cattle quality and optimize feeding plans.

# **Background Characteristics and Categorization**

The research utilizes data provided by a commercial feedlot in the U.S. Southern Plains region with an operating capacity of 50,000 head. For clarity, "Feedlot" will be used to distinguish the feedlot that provided data from the broader feedlot industry. Data was collected between January 2009 and December 2015 and includes pen-level observations with values averaged across all animals fed in each pen. Upon arrival, the pen is weighed and each animal receives a round of vaccinations, an implant and ID tag in the ear. The pens are not resorted during the feeding process. Pens containing Holsteins, heifer and steer mixes, cull cows and pens with missing data were removed from the raw data, leaving 4,648 useable observations of steers and heifers. The close out head count, number of animals marketed to the packer, totaled 519,985 head. In addition to feedlot performance data, each pen is assigned market price data with consideration of the current month, weight and gender of each pen. The purchase price is based on the feeder prices from the Combined Auction for Oklahoma Feeder Cattle USDA report and sale values are from the Negotiated Texas, Oklahoma, New Mexico report.

The Cost of Gain (COG) estimate, expressed as dollars per hundredweight gained, includes data co<u>verneern</u>ing the ration composition, dry matter intake (DMI), pounds gained, days on feed, head count, bunk fee and USDA market report data provided by the Livestock Marketing Information Center (LMIC). Ration data indicates that corn and dry distillers grains (DDG) are the two most common ingredients and their market prices are used as proxies to estimate COG. The grain prices for the COG estimate are concurrent with the cattle prices and feeding period, making it possible to use purchase and sale prices, along with COG, to calculate returns for each pen.

The origin and ownership class variables make this dataset unique. The Owner variable has three distinct classifications. Returning Customers retain pens in the feedlot at least four of the seven years captured in the dataset. Occasional Customers retained lots for three or fewer years and often only retain cattle once. The remaining lots are owned by the Feedlot. Origin is classified as Country, Sale Barn or Other. Country origin signals that the pen was sourced directly from one ranch and was not exposed to a sale barn setting. Sale Barn origin indicates the pen was marketed at an auction facility and was commingled with pens from various operations prior to arriving at the feedlot. Other is the smallest origin category and includes pens originating from wheat pasture, a growing yard or a backgrounding program.

Pen-level observations are useful to examine the variability of animal performance. Constraints of the pen-level observations include benchmarking the Feedlot with the broader feeding industry. The observations were converted to a monthly value by averaging together the pens that closed out each month. The monthly averages were weighted by close out head to account for variations in pen size. To benchmark, the Feedlot monthly averages were compared to the monthly averages published by the Kansas State University Focus on Feedlots (FOF)

An additional COG series was calculated holding feed prices constant. This "Set COG" emphasizes differences in COG due to feed to gain, days on feed, and other production values rather than changes in feed market values. These Set COG and Concurrent COG values are reported in Tables 2-8. The Concurrent COG is used to calculate returns.

program. Table 1 summarizes the means for steers and heifers from the Feedlot and FOF program.

With the exception of end weights for Feedlot-owned heifers, cattle from the FOF program weigh heavier. Feedlot-owned steers are fed nearly two weeks longer while heifers in both programs average the same length on feed. ADG and Feed-Gain rates are better for Feedlot-owned cattle than FOF lots, except for the heifer Feed-Gain ratio. The Feedlot experiences a higher rate of death loss compared to the pens reported in the FOF program. To test the strength of comparison, correlations between the monthly FOF and Feedlot data were calculated. The strongest correlations are cost of gain (0.95), final weight (0.61) and average daily gain (0.58). The weakest correlations include days on feed (0.18) and in-weight (0.31).

The pen-level observations in the dataset can be organized by placement weight to examine performance variations across weight classes and gender. Placement weight alters the impact of select performance variables on finishing profitability. For example, heavier cattle are impacted less by the Feed-Gain ratio and Cost of Gain since they are fed for relatively shorter periods (Langemeier, Schroeder and Mintert 1992). Descriptive tables organize the pens by placement weight, starting with <550 pounds and increasing in 50-pound increments to 950 pounds and above. The tables include means for purchase, in and sale weights, shrink, days on feed, average daily gain, feed-gain ratio, sick head days, death loss as well as the estimates for cost of gain and returns per head. Due to the variance of pen size the means are weighted by close out head. Table 2 provides the performance means for all Feedlot pens. Expected trends can be confirmed by the values across the weight categories. As placement weight increases, days on feed, sickness and death loss decline while ADG and Feed-Gain ratio increase. Cattle finishing research conducted by Langemeier, Schroeder and Mintert (1992) observed the same relationships between performance variables and weight categories.

Origin and ownership variables permit the data to be further disaggregated based on background characteristics. The sale barn is the largest origin source with only 33% of pens are sourced directly from the country. Of the country-sourced pens, 56% are customer cattle under retained ownership. When pens are separated by origin, distinct characteristics emerge for both steers and heifers. Averaged over all weight categories, country-sourced steers outperform Sale Barn steers in all performance measurements. Tables 3 and 4 display the trends for steers and heifers sourced from the country and sale barns. Steers sourced from the country are commonly placed 50 pounds heavier and finish at a heavier weight compared to lots from the sale barn. For heifers, pens from the country also outperform Sale Barn pens for all performance variables. Country heifers enter and exit the feedlot at heavier weights and are on feed for five fewer days than Sale Barn heifers. ADG and the Feed-Gain ratio values show that Country pens have a higher feeding efficiency. The sickness rate and death loss are also lower for country-sourced heifers. Origin has a significant impact on the outcomes of feedlot performance. The descriptive mean tables show that Country pens outperform Sale Barn pens. Cattle that are sourced from the country avoid additional transportation and experience less stress. Research of cattle handling has shown that longer transportation periods and mixing unfamiliar pens together increases stress. The higher stress not only negatively impacts feedlot performance but it can also cause a higher rate of undesirable dark meat in the carcass (Warriss 1990).

Ownership status highlights expected and unexpected trends concerning pen performance and customer selection. Tables 5 and 6 show steer and heifer means by ownership status. Customer steers and heifers entered and exited the feedlot at heavier weights compared to Feedlot-owned pens. Feedlot-owned steers exhibited lower sickness and death rates. Feed efficiency variables are split, customer steers show a slightly higher ADG and lower dynamic COG. Heifers owned by the Feedlot show higher feeding efficiency and lower sickness and death rates than customer heifers. Trends shown in the descriptive mean tables raise questions about the selection process for customer cattle and a customer's motivation to place cattle on feed.

Origin and ownership characteristics are closely related and often intersect. 61 percent of customer cattle are sourced directly from the country while 78 percent of feedlot-owned cattle are sourced from sale barns. To untangle the interactions between origin and ownership, the customer lots are separated by origin. Means for customer steers and heifers are listed in Tables 7 and 8. Customer steers sourced from the country outperform customer sale barn-sourced cattle in all feed efficiency and health variables. They also have a significantly better rate of return and lower COG. In contrast, customer Sale Barn steers have worse feedlot performance and returns than all sale barn sourced steers. This observation suggests that customers may purchase low quality cattle from the sale barn in order to fill a pen or feed lower quality animals and attempt to achieve some return in the market. The same trend holds true for heifers, with customer country-sourced pens performing better than customer Sale Barn pens. Customer sale barn heifers perform worse than all heifers sourced from the sale barn, which further suggests that customers purchase poor quality cattle from a sale barn to retain.

# **Model Results and Implications**

To understand the impact of background and performance variables, <u>several</u>-Mixed Linear Models (MLM) and an Ordered Logit Model (OLM) were developed with the data. The

reference base for all models is set as Owner = Feedlot, Origin = Sale Barn, Gender = Steers and the Close Out Month = September. The first MLM, Returns per Head, highlights the influence of background, close out month and performance on the level of return. Parameter estimates, expressed as dollars per head, are listed in Table 9. Ownership status and country origin have a significant impact on returns. Pens of returning customers earn an additional \$4.63 per head while occasional customers are discounted \$4.13 compared to pens owned by the Feedlot. Country pens receive a \$2.87 per head premium compared to pens sourced from a sale barn. Heifers receive a premium of \$18.03 over steers, a result that is confirmed by the descriptive mean returns of heifer and steer pens. As expected COG and Feeder price have a negative estimate since higher input prices reduce returns. The Live price estimate is highly significant and positive. Performance variables such as days on feed, in weight, sale weight and ADG have positive estimates. Positive performance estimates suggests that heavier animals receive higher returns. In-weight and sale weight have squared terms to correct for the non-linearity of animal weight, which eventually plateaus rather than continue in a linear fashion. The parameter estimate for ADG is fairly large due to the difficulty of increasing the rate of daily gain by an entire pound. The Feed-Gain ratio was not included in the model since factors of the ratio are already incorporated into other independent variables, therefore confounding the effect of a Feed-Gain estimate.

To evaluate feed efficiency, Average Daily Gain is set as a dependent variable for the second MLM regression. Table 10 lists the parameter estimates for ADG. The estimates for returning and occasional customers are significant. ADG increases by 0.02 lbs. for returning customer pens and by 0.01 lbs. for occasional customer pens compared to Feedlot-owned lots. Origin also has a significant influence on ADG. Compared to pens from a sale barn, Country

pens have a higher ADG and pens from Other sources have a lower ADG. Steers exhibit a higher ADG than heifers, a result that is confirmed in the descriptive mean tables. Estimates for the close out months show a slight seasonal pattern. With September as the base month, ADG is lower from February to June, nearly unchanged in the fall and slightly higher during the winter months. Days on feed, the Feed-Gain Ratio and Sick Head Days have significant, negative estimates. The relationship between these variables support feed efficiency expectations. Cattle with a higher rate of average daily gain can reach the finishing weight faster, require less DMI and are resistant to sickness.

For health evaluation, the rate of death loss was set as a MLM dependent variable. Table 11 lists the parameter estimates for death loss. Country origin is the only significant background characteristic. Pens sourced from the country experience a 0.27% lower death loss rate than sale barn pens. Previous research has shown that cattle shipped from a ranch directly to the feedlot experience lower stress and exposure to disease. Estimates for the customer pens indicate a lower death loss rate than firm-owned cattle, but the estimates are not statistically significant. The monthly estimates indicate a seasonal pattern with September serving as the base month. Death loss is lower during the winter months and increases substantially during the summer.

An Ordered Logit Model (OLM) was developed to analyze the maximum likelihood estimates of reaching a certain level of returns per head based on the background characteristics. The dependent variable, returns per head, for the OLM is not limited to a binary term, rather it is defined in eight, consecutive return categories. Figure 1 shows the distribution of returns by category. Origin, ownership, gender and close out month are class variables with the same base parameters as the MLM regressions. Feedlot performance and health measurements are included as continuous variables. Since the regression is set to descend the parameter estimate relationships are interpreted as either advancing towards or regressing from a higher, more satisfactory, return category. The highest possible return category is Returns/head = \$300.00 or greater. Sale Barn Origin is set as the base variable and the estimates for Country and Other sources are in relation to the base variable. Odds ratios, the exponential value of the maximum likelihood estimate, are used to interpret the results of the OLM and are listed in Table 12. Point estimates above 1 indicate a higher probability for returns to fall in a higher category, whereas estimates less than 1 decrease the chance for a better return. Customer cattle have better probabilities of higher returns than Feedlot owned pens. The odds for Returning Customers are 1.28:1, meaning that a pen of a Returning Customer is 1.28 times more likely to advance to a higher return level than a pen owned by the Feedlot. Odds between Occasional Customer and Feedlot-owned pens are nearly equal at 1.04:1 odds. The maximum likelihood estimate for Returning Customers is the only background variable that is significant. Heifers have a significantly better odds ratio for higher returns than steers. Closing out between April and August or in December gives the pen better return odds than pens closed out in September.

Odds for market parameters follow expectations. Input costs, COG and feeder price, have odds that are less than 1, signaling that higher input prices lower the probability for a higher return. Live price has a 1.91:1 odds ratio. Performance variables that improve the odds of a higher return include days on feed, sale weight and most significantly, average daily gain. The greater odds for these variables suggest heavier cattle are more likely to produce better returns. A higher average daily gain combined with a longer feeding period results in heavier cattle and a probability of reaching a more favorable return category. In-weight, shrink, feed-gain and death loss lower the probability of reaching a higher return category. Therefore, returns are penalized for lighter placement cattle, pens that experience increased stress or transportation, pens with high DMI and pens with a high death loss rate. Except for in and sale weights, all performance parameters have significant maximum likelihood estimates.

## Conclusion

The descriptive mean category tables, MLM estimates and OLM results illustrate the impacts of a pen's background characteristics on feedlot performance and economic returns. This research confirms that more information about cattle background can help feedlots and producers retaining their own cattle to improve feedlot performance, efficiency and returns. Additional research recommendations include studying the motivations to retain cattle in the feedlot and using pen-level data to examine the variability of performance measurements. Further examination of the connections between background characteristics and feedlot performance would improve the expectations of feeding outcomes and improve feedlot management strategies.

### References

- Chymis, A.G., H.S. James, S. Konduru, V.L. Pierce and R.L. Larson. 2007. "Asymmetric Information in Cattle Auctions: The Problem of Revaccinations." *Agricultural Economics* 36: 79-88.
- Fulton, R.W., B.J. Cook, D.L. Step, A.W. Confer et al. 2002. "Evaluation of health status of calves and the impact on feedlot performance: assessment of a retained ownership program for postweaning calves." *The Canadian Journal of Veterinary Research* 66: 173-180.
- Greene, J.L. 2010. Animal Identification and Traceability: Overview and Issues. Washington DC: Congressional Research Service, R40832.
- Hobbs, J.E. 2004. "Information Asymmetry and the Role of Traceability Systems." Agribusiness 20(4): 397-415.
- Jones, K. and S. Edwards. 2016. *Cattle: Background*. Washington DC: U.S. Department of Agriculture, ESCS For. Agr. Econ, Rep. 22, August. http://www.ers.usda.gov/topics/animal-products/cattle-beef/background.aspx

- Lalman, D. and G. Mourer. 2014. "Effects of Preconditioning on Health, Performance and Prices of Weaned Calves." Dept. Animal Science. ANSI-3529, Oklahoma State University.
- Langemeier, M., T. Schroeder and J. Mintert. 1992. "Determinants of Cattle Finishing Profitability." *Southern Journal of Agricultural Economics* 24(2): 41-47.
- Livestock Marketing Information Center. 2015. "Current Situation and Analysis 3/1/2015". *Livestock Marketing Information Center*. in press. http://www.lmic.info/current\_situation\_and\_analysis/current-situation-and-analysis-312015.
- Loyd, E. and J. Redding. 2006. Johanns Releases National Animal Identification System Implementation Plan. Washington DC: U.S. Department of Agriculture, ESCS For. Arg. Econ. Rep. 0120.06, April.
- Mathews, K.H. and R.J Johnson. 2013. Alternative Beef Production Systems: Issues and Implications. Washington DC: U.S. Department of Agriculture, LDPM-218-01. http://www.ers.usda.gov/media/1071057/ldpm-218-01.pdf
- Mourer, G. 2014. "Oklahoma Quality Beef Network 2013 Summary Report". Dept. Ag Econ. Oklahoma State University. http://oqbn.okstate.edu/detailedsummary/Detailed%20Summary.pdf.
- Mourer, G. 2016. "Oklahoma Quality Beef Network FAQs". Dept. Ag Econ. Oklahoma Cooperative Extension Service, Oklahoma State University. in press.
- National Cattlemen's Beef Association. 2009. "Modern Beef Production." Cattlemen's Beef Board and National Cattlemen's Beef Association. in press.
- http://www.explorebeef.org/cmdocs/explorebeef/factsheet\_modernbeefproduction.pdf. National Cattlemen's Beef Association. 2015. "Beef Industry Statistics." In press.
- http://www.beefusa.org/beefindustrystatistics.aspx Parish, J.A., B.B. Karisch, R.C. Vann and D.G. Riley. 2014. "Effects of steer breed composition
- on feedlot performance and carcass traits." *Professional Animal Scientist* 30(1): 43-50.
- Step, D.L., C.R. Krehbiel, H.A. DePra, J.J. Cranston, R.W. Fulton, J.G. Kirkpatrick, D.R. Gill, M.E. Payton, M.A. Montelongo and A.W. Confer. 2008. "Effects of commingling beef calves from different sources and weaning protocols during a 42-day receiving period on performance and bovine respiratory disease." *Journal of Animal Science* Jun: 1-36.
- Thompson, N.M., E.A. DeVuyst, B.W. Brorsen and J.L. Lusk. 2014. "Value of Genetic Information for Management and Selection of Feedlot Cattle." *Journal of Agricultural* and Resource Economics 39(1): 139-155.

U.S. Department of Agriculture. 2015. Cattle Industry. ESCS For. Agr. Econ. ACH12-20, Washington DC, February.

https://www.agcensus.usda.gov/Publications/2012/Online\_Resources/Highlights/Cattle/Cattle\_Highlights.pdf

- Ward, C.E. 1997. "Vertical Integration Comparison: Beef, Pork, and Poultry." Paper presented at WAEA annual meeting, Reno NV, 13-16 July.
- Ward, C.E. and D.L. Lalman. 2003. "Price Premiums from a Certified Feeder Calf Preconditioning Program." Paper presented at NCR-134 Conference on Applied Commodity Price Analysis, Forecasting and Market Risk Management, St. Louis MO, 21-22, April.
- Warriss, P.D. 1990. "The handling of cattle pre-slaughter and its effects on carcass and meat quality." *Applied Animal Behaviour Science* 28: 171-186.

Variable	Unit	Ste	ers	Heife	ers
Variable	Unit	Feedlot	KSU	Feedlot	KSU
In-Weight	lbs.	724.93	804.08	722.03	735.18
Final Weight	lbs.	1342.53	1367.98	1254.99	1233
Days on Feed	days	167	154	151	151
Average Daily Gain	lbs.	3.77	3.62	3.61	3.24
Dry Matter Feed Conversion	lbs.	5.97	6.00	6.54	6.26
Death Loss	%	1.86	1.35	2.46	1.46
Cost of Gain	\$	99.59	93.87	112.08	98.91

Table 1. Feedlot and KSU Focus on Feedlots Mean Values, Jan. 2009 – Dec. 2015

Table 2. Means by	Weight C	ategory, A	ll Pens, Ja	<del>n. 2009</del>	Dec. 2015			Ξ	Ξ	<del>-(Weij</del>	<del>shted by Clo</del>	se Out Head)	Formatted: Top: 0.85", Bottom: 0.85"
Variable	<u>Units</u>	<u>&lt;550</u>	<u>550-600</u>	<u>600-650</u>	<u>650-700</u>	<del>700-750</del>	<u>750-800</u>	<u>800-850</u>	<u>850-900</u>	<u>900-950</u>	<u>950-</u>	<u>Overall</u>	
Purchase Weight	<del>lbs.</del>	<u>513.39</u>	<del>579.76</del>	<u>625.25</u>	<u>675.13</u>	<u>725.76</u>	<del>775.50</del>	<u>822.30</u>	<u>873.27</u>	<u>921.89</u>	<u>979.20</u>	<del>728.73</del>	
In Weight	lbs.	<u>494.84</u>	<u>556.17</u>	<u>601.66</u>	<u>650.86</u>	<u>701.92</u>	<u>751.62</u>	<u>800.43</u>	<u>849.06</u>	<u>895.19</u>	<u>943.51</u>	<del>704.99</del>	
<u>Shrink</u>	<u>%</u>	<u>-3.61</u>	<u>   4.07 </u>	<u>-3.78</u>	<u>-3.59</u>	<u> 3.29</u>	<u>-3.08</u>	<u>-2.66</u>	2.77	<u>-2.90</u>	<u>-3.63</u>	<u>3.33</u>	
Sale Weight	lbs.	<u>1147.45</u>	<u>1172.90</u>	<u>1203.30</u>	<u>1252.51</u>	<u>1301.86</u>	<u>1324.36</u>	<u>1352.30</u>	<u>1390.23</u>	<u>1434.23</u>	<u>1490.06</u>	<u>1290.65</u>	
Days on Feed	days	<u>213</u>	<u>189</u>	<u>179</u>	<u>170</u>	<u>161</u>	<u>151</u>	<u>143</u>	<u>137</u>	<u>131</u>	<u>129</u>	<u>161</u>	
<u>Avg. Daily Gain</u>	lbs./day	<u>3.07</u>	<u>3.27</u>	<u>3.37</u>	<u>3.55</u>	<u>3.71</u>	<u>3.80</u>	<u>3.85</u>	<u>3.97</u>	<u>4.11</u>	<u>4.25</u>	<del>3.66</del>	
Feed-Gain Ratio	<del>lbs.</del>	<u>5.85</u>	<u>5.90</u>	<u>5.93</u>	<u>5.92</u>	<u>5.95</u>	<u>6.04</u>	<u>6.12</u>	<u>6.19</u>	<u>6.20</u>	<u>6.42</u>	<u>6.00</u>	
Sick Head Days	<del>%</del>	<u>0.74</u>	<u>0.73</u>	<u>0.94</u>	<u>0.82</u>	<u>0.70</u>	<u>0.59</u>	<u>0.58</u>	<u>0.47</u>	<u>0.33</u>	<u>0.41</u>	<del>0.69</del>	
Death Loss	<del>%</del>	<u>2.54</u>	<u>2.56</u>	<u>2.47</u>	<del>2.16</del>	<del>1.89</del>	<u>1.58</u>	<u>1.27</u>	<u>1.10</u>	<del>0.88</del>	<u>0.82</u>	<del>1.84</del>	
Setter COG	<u>\$/ewt</u>	170165408	17017.1359	170154020	17014(0050)	17011.4283	<del>92.38</del>	<del>99.06</del>	<del>93.80</del>	<del>93.82</del>	1799633	1721.0331	
Return G	<u>\$/bd/:t</u>	<u>748.50</u>	<u> 78.55</u>	717.462	<u>766,099</u>	<u>75B.423</u>	<u>739.389</u>	<u>7231.4762</u>	<u>759.899</u>	<del>7<b>6.7</b>4</del>	<u>764.63</u>	7127.0332	
Rount	<del>§ánd</del> .	<u>-4<b>35</b>6</u>	- <u>58155</u>	-4 <b>509</b> 1	- <b>6<del>9.8</del>9</b>	- <del>3812</del> 4	- <b>3788</b> 9	<u>-2541.77</u> 2	- <b>5923</b> 4	-09724	<u>-6<b>57</b>72</u>	<u>-41,75.682</u>	
<u>Count</u>	<u>bend</u>	1 <u>3,86</u> 8	3 <u>5,43</u> 3	6 <u>5,092</u> 7	9 <u>3,98</u> 7	9 <u>8,412</u> 6	9 <u>17,228</u> 8	5 <u>8,56</u> 1	3 <u>6,777</u> 2	2 <u>1,92</u> 9	4 <u><b>,27</b></u> 3	5 <u>49698</u> 5	
	head	<u>13,768</u>	<u>35,243</u>	<u>65,927</u>	<u>93,007</u>	<u>99,466</u>	<u>91,248</u>	<u>58,561</u>	<u>36,772</u>	<u>21,749</u>	<u>4,243</u>	<u>519,985</u>	

Table 3. Origin Means by Weight Categories, Steers, Jan. 2009 Dec. 2015											-(Weighted by Close Out Head)			
Variable	<b>Units</b>	<del>&lt;550</del>	<del>550-600</del>	<del>600-650</del>	<del>650-700</del>	<del>700-750</del>	<del>750-800</del>	<del>800-850</del>	<del>850-900</del>	<del>900-950</del>	<del>950&lt;</del>	Overal		
Country Origin														
Purchase Weight	<del>lbs.</del>	<del>505.53</del>	<del>583.53</del>	<del>626.44</del>	<del>675.48</del>	727.50	<del>775.93</del>	<del>824.69</del>	<del>872.34</del>	<del>923.99</del>	<del>972.86</del>	<del>776.40</del>		
In Weight	<del>lbs.</del>	4 <del>92.66</del>	<del>566.17</del>	<del>610.67</del>	<del>660.13</del>	711.11	<del>761.49</del>	<del>810.08</del>	<del>854.84</del>	<del>903.83</del>	<del>938.54</del>	<del>759.97</del>		
Shrink	%	-2.51	<del>-2.99</del>	<del>-2.52</del>	-2.27	<del>-2.26</del>	<del>-1.86</del>	<del>-1.77</del>	-2.00	<del>-2.18</del>	<del>-3.52</del>	<del>2.18</del>		
Sale Weight	<del>lbs.</del>	<del>1269.04</del>	<del>1276.48</del>	<del>1282.99</del>	<del>1298.38</del>	<del>1341.70</del>	<del>1358.91</del>	<del>1374.68</del>	<del>1408.22</del>	<del>1459.21</del>	<del>1505.57</del>	1362.30		
Days on Feed	<del>days</del>	<del>235</del>	<del>201</del>	<del>189</del>	177	<del>166</del>	<del>152</del>	<del>1</del> 44	<del>137</del>	<del>130</del>	<del>129</del>	<del>156</del>		
Avg. Daily Gain	<del>lbs./day</del>	<del>3.32</del>	<del>3.55</del>	<del>3.56</del>	<del>3.62</del>	<del>3.81</del>	<del>3.94</del>	<del>3.93</del>	4.05	4.26	<del>4.39</del>	<u>3.89</u>		
Feed Gain Ratio	<del>lbs.</del>	<del>5.65</del>	<del>5.56</del>	<del>5.64</del>	<del>5.80</del>	<del>5.81</del>	<del>5.84</del>	<del>6.00</del>	<del>6.06</del>	<del>6.09</del>	<del>6.29</del>	<del>5.90</del>		
Sick Head Days	%-	1.08	<del>0.43</del>	<del>0.64</del>	<del>0.67</del>	0.52	<del>0.45</del>	<del>0.40</del>	<del>0.36</del>	0.30	0.32	<del>0.47</del>		
Death Loss	%-	3.08	<del>1.47</del>	<del>2.43</del>	<del>1.99</del>	<del>1.44</del>	1.20	<del>0.93</del>	<del>0.85</del>	<del>0.68</del>	<del>0.64</del>	<del>1.29</del>		
Set COG	<del>\$/cwt</del>	<del>69.78</del>	<del>68.06</del>	<del>69.01</del>	<del>70.94</del>	<del>70.73</del>	71.27	73.13	<del>73.40</del>	<del>73.54</del>	73.87	71.74		
Return	<del>\$/hd.</del>	<del>47.89</del>	-28.48	30.01	<del>71.69</del>	<del>-56.69</del>	-25.19	-31.74	41.05	22.12	<del>-66.36</del>	<del>-36.49</del>		
Count	pens	<del>25</del>	<del>34</del>	<del>70</del>	<del>97</del>	<del>158</del>	<del>180</del>	<del>153</del>	<del>124</del>	73	<del>32</del>	<del>946</del>		
	head	<del>1453</del>	<del>3211</del>	<del>7245</del>	<del>9875</del>	<del>17531</del>	<del>20112</del>	<del>18215</del>	<del>13965</del>	<del>8156</del>	<del>2748</del>	<del>102512</del>		
Sale Barn Origin														
Purchase Weight	<del>lbs.</del>	<del>505.19</del>	<del>581.21</del>	<del>624.94</del>	<del>677.82</del>	725.39	<del>775.93</del>	<del>820.67</del>	<del>874.84</del>	<del>920.30</del>	<del>971.76</del>	<del>748.33</del>		
In Weight	<del>lbs.</del>	4 <u>80.19</u>	<del>556.43</del>	<del>598.96</del>	<del>651.76</del>	<del>698.57</del>	<del>748.40</del>	<del>793.50</del>	<del>844.38</del>	<del>888.77</del>	<del>932.21</del>	721.04		
Shrink	<del>%</del>	<del>-4.95</del>	-4.26	<del>-4.16</del>	<del>-3.84</del>	-3.70	3.55	3.32	<del>-3.48</del>	<del>-3.43</del>	-4.05	<del>3.68</del>		
Sale Weight	<del>lbs.</del>	<del>1193.18</del>	<del>1233.09</del>	<del>1262.28</del>	<del>1296.85</del>	<del>1324.64</del>	<del>1345.47</del>	<del>1370.68</del>	<del>1392.08</del>	<del>1420.26</del>	<del>1460.20</del>	1332.2		
Days on Feed	<del>days</del>	<del>237</del>	<del>199</del>	<del>189</del>	<del>176</del>	<del>166</del>	<del>156</del>	<del>148</del>	<del>139</del>	<del>132</del>	<del>127</del>	<del>163</del>		
Avg. Daily Gain	<del>lbs./day</del>	<del>3.01</del>	<del>3.41</del>	<del>3.52</del>	<del>3.67</del>	<del>3.77</del>	<del>3.83</del>	<del>3.91</del>	<del>3.95</del>	<del>4.03</del>	<del>4.17</del>	<del>3.78</del>		
Feed-Gain Ratio	lbs.	<del>5.97</del>	<del>5.80</del>	<del>5.75</del>	<del>5.80</del>	<del>5.91</del>	<del>6.02</del>	<del>6.07</del>	<del>6.21</del>	<del>6.23</del>	<del>6.33</del>	<del>5.96</del>		
Sick Head Days	%-	<del>0.70</del>	<del>0.93</del>	<del>1.03</del>	<del>0.89</del>	<del>0.76</del>	<del>0.62</del>	0.53	<del>0.39</del>	<del>0.33</del>	0.70	<del>0.70</del>		
Death Loss	%-	2.32	4.18	<del>3.01</del>	2.54	2.25	<del>1.88</del>	<del>1.47</del>	1.25	<del>0.90</del>	<del>0.79</del>	2.08		

Set COG	<del>\$/cwt</del>	72.40	<del>70.03</del>	<del>69.16</del>	<del>69.67</del>	<del>70.75</del>	71.73	72.27	73.27	73.20	<del>72.86</del>	71.12
Return	<del>\$/hd.</del>	<del>-98.90</del>	87.24	<del>-48.88</del>	<del>-69.48</del>	<del>-58.47</del>	<del>-43.75</del>	-20.92	<del>-86.64</del>	-11.10	<del>-115.98</del>	-53.10
Count	pens	<del>29</del>	<del>47</del>	<del>146</del>	<del>353</del>	<del>434</del>	<del>380</del>	<del>216</del>	<del>144</del>	<del>98</del>	<del>11</del>	<del>1858</del>
-	head	<del>1431</del>	<del>4722</del>	<del>16271</del>	<del>46999</del>	<del>57597</del>	<del>48251</del>	<del>27842</del>	<del>17442</del>	<del>12194</del>	<del>584</del>	<del>233334</del>

Table 4. Origin Means by Weight Categories, Heifers, Jan. 2009 Dec. 2015										-(Weighte	-(Weighted by Close Out Head)		
Variable (	<b>Units</b>	<del>&lt;550</del>	<del>550-600</del>	<del>600-650</del>	<del>650-700</del>	<del>700-750</del>	<del>750-800</del>	<del>800-850</del>	<del>850-900</del>	<del>900-950</del>	<del>950&lt;</del>	<del>Overall</del>	
Country Origin													
Purchase Weight	<del>lbs.</del>	<del>510.21</del>	<del>575.25</del>	<del>629.05</del>	<del>674.08</del>	<del>726.31</del>	<del>773.19</del>	<del>824.99</del>	<del>865.26</del>	<del>916.11</del>	<del>972.95</del>	<del>685.9</del> 4	
In Weight	<del>lbs.</del>	4 <del>95.10</del>	<del>555.41</del>	<del>612.83</del>	<del>658.69</del>	709.22	<del>754.30</del>	<del>810.43</del>	<del>836.65</del>	<del>890.67</del>	<del>925.62</del>	<del>668.67</del>	
Shrink	%-	-2.96	<del>-3.46</del>	2.58	2.28	-2.36	-2.44	<del>-1.76</del>	<del>-3.31</del>	2.78	<del>-4.86</del>	2.60	
Sale Weight	<del>lbs.</del>	<del>1118.48</del>	<del>1152.53</del>	<del>1174.02</del>	<del>1184.78</del>	<del>1216.95</del>	<del>1262.14</del>	$\frac{1271.10}{1271.10}$	<del>1342.17</del>	<del>1340.63</del>	<del>1415.37</del>	<del>1204.58</del>	
Days on Feed	<del>days</del>	<del>206</del>	<del>190</del>	<del>172</del>	<del>159</del>	<del>146</del>	<del>138</del>	<del>131</del>	<del>127</del>	<del>125</del>	<del>123</del>	<del>159</del>	
Avg. Daily Gain	<del>lbs./day</del>	<del>3.03</del>	<del>3.15</del>	<del>3.28</del>	<del>3.32</del>	<del>3.49</del>	<del>3.68</del>	<del>3.52</del>	<del>3.99</del>	<del>3.60</del>	<del>3.99</del>	<del>3.40</del>	
Feed Gain Ratio	lbs.	<del>5.77</del>	<del>5.86</del>	<del>6.00</del>	<del>6.06</del>	<del>6.14</del>	6.21	<del>6.39</del>	<del>6.66</del>	<del>8.97</del>	11.14	<del>6.10</del>	
Sick Head Days	<del>%</del>	<del>0.61</del>	<del>0.78</del>	<del>0.77</del>	<del>0.69</del>	0.72	0.73	<del>0.90</del>	<del>1.09</del>	<del>6.80</del>	<del>4.69</del>	<del>0.76</del>	
Death Loss	<del>%</del>	<del>1.91</del>	<del>1.76</del>	<del>1.53</del>	<del>0.94</del>	1.05	<del>0.99</del>	1.22	<del>1.64</del>	<del>11.11</del>	<del>12.61</del>	<del>1.32</del>	
Set COG	<del>\$/cwt</del>	<del>70.82</del>	71.11	<del>73.11</del>	<del>73.74</del>	74.31	<del>74.86</del>	<del>77.50</del>	<del>78.58</del>	<del>102.86</del>	<del>108.94</del>	<del>73.95</del>	
Return	<del>\$/hd.</del>	<del>-9.62</del>	<del>-14.62</del>	<del>-33.03</del>	33.89	<del>-13.70</del>	<del>-2.76</del>	20.18	<del>18.88</del>	<del>17.66</del>	<del>-116.68</del>	<del>-17.90</del>	
Count	<del>pens</del>	<del>64</del>	<del>60</del>	<del>101</del>	<del>97</del>	<del>110</del>	<del>80</del>	<del>65</del>	27	+	2	<del>607</del>	
	head	<del>5455</del>	<del>5177</del>	<del>9209</del>	<del>9124</del>	<del>10550</del>	7451	<del>4738</del>	<del>2231</del>	<del>40</del>	<del>68</del>	<del>54043</del>	
Sale Barn Origin													
Purchase Weight	<del>lbs.</del>	<del>519.18</del>	<del>580.16</del>	<del>624.07</del>	<del>670.64</del>	<del>724.21</del>	<del>774.64</del>	<del>819.62</del>	<del>872.47</del>	<del>925.57</del>	<del>975.67</del>	<del>663.23</del>	
In Weight	<del>lbs.</del>	4 <del>95.63</del>	<del>554.70</del>	<del>597.42</del>	<del>642.61</del>	<del>695.69</del>	744.72	<del>789.07</del>	<del>840.55</del>	<del>888.62</del>	<del>952.39</del>	<del>635.77</del>	
Shrink	<del>%</del>	4.54	4.39	4.27	4.18	<del>-3.93</del>	<del>-3.86</del>	3.73	<del>-3.66</del>	-4.00	2.39	4.17	
Sale Weight	<del>lbs.</del>	<del>1125.38</del>	<del>1148.60</del>	<del>1163.93</del>	<del>1180.47</del>	<del>1211.77</del>	<del>1239.15</del>	<del>1270.67</del>	<del>1316.86</del>	<del>1424.70</del>	<del>1498.56</del>	<del>1184.68</del>	
Days on Feed	<del>days</del>	<del>206</del>	<del>184</del>	<del>173</del>	<del>159</del>	<del>147</del>	<del>137</del>	<del>133</del>	<del>128</del>	<del>123</del>	<del>117</del>	<del>164</del>	
Avg. Daily Gain	lbs./day	<del>3.07</del>	3.22	<del>3.28</del>	<del>3.39</del>	<del>3.51</del>	<del>3.60</del>	<del>3.63</del>	<del>3.72</del>	4 <del>.39</del>	<del>4.69</del>	<del>3.37</del>	
Feed Gain Ratio	<del>lbs.</del>	<del>5.94</del>	<u>5.99</u>	<del>6.05</del>	<del>6.11</del>	<del>6.18</del>	<del>6.30</del>	<del>6.50</del>	<del>6.57</del>	<del>7.34</del>	<del>6.09</del>	<del>6.12</del>	
Sick Head Days	<del>%</del>	<del>0.80</del>	0.72	<del>1.03</del>	<del>0.79</del>	<del>0.68</del>	<del>0.61</del>	<del>1.19</del>	<del>1.74</del>	0.70	<del>0.84</del>	<del>0.84</del>	
Death Loss	<del>%</del>	<del>3.05</del>	<del>2.56</del>	<del>2.47</del>	<del>2.02</del>	<del>1.58</del>	<del>1.35</del>	<del>1.27</del>	<del>1.35</del>	<del>3.74</del>	0.00	<del>2.12</del>	
Set COG	<del>\$/cwt</del>	71.82	<del>71.88</del>	72.33	72.56	73.12	<del>73.96</del>	<del>76.10</del>	<del>76.52</del>	<del>83.59</del>	72.47	72.80	

Num         Data         S8         496         285         244         422         130         59         20         8         4         1423           -         head         4870         21685         32443         26174         12275         13601         5884         1428         223         88         118762           Table 3, Origin Means by Weight Categories, Steers, Jan. 2009         Dec. 2015	Dotum	<del>\$/hd.</del>	<u>-49.81</u>	-57.24	<del>-53.61</del>	<del>-68.11</del>	<del>-51.85</del>	-52.72	<u>3.59</u>	-52.11	<del>-53.76</del>	<del>232.95</del>	-53.97	
Image         4870         24685         32443         26174         12275         13601         5884         1428         223         88         148762           Table 3. Origin Means by Weight Categories. Steers. Jan. 2009 – Dec. 2015														
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Count													
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	- Table 3. Origin								5004	1420				-
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		•				<u>650-700</u>			800-850	<u>-</u> 850-900	900-950	<u>950&lt;</u>	Overall	-
In Weight       Ibs.       492.66       566.17       610.67       660.13       711.11       761.49       810.08       854.84       903.83       938.54       759.97       •         Shrink       %       -2.51       -2.99       -2.52       -2.27       -2.26       -1.86       -1.77       -2.00       -2.18       -3.52       2.18       •         Sale Weight       Ibs.       1269.04       1276.48       1282.99       1298.38       1341.70       1358.91       1374.68       1408.22       1459.21       1505.57       1362.36       •         Days on Feed       days       2.35       3.56       3.62       3.81       3.94       3.93       4.05       4.26       4.39       3.89       •         Feed-Gain Ratio       Ibs.       5.66       5.64       5.80       5.81       5.84       6.00       6.06       6.09       6.29       5.90       •         Sick Head Days       %       1.08       0.43       0.64       0.67       0.52       0.45       0.40       0.36       0.30       0.32       0.47       •         Concurrent COG       %cwt       96.91       104.86       97.31       108.44       120       93.13       7	Country Origin													•
Shrink       %       -2.51       -2.99       -2.52       -2.27       -2.26       -1.86       -1.77       -2.00       -2.18       -3.52       2.18       *         Sale Weight       Ibs.       1269.04       1276.48       1282.99       1298.38       1341.70       1358.91       1374.68       1408.22       1459.21       1505.57       1362.36       *         Days on Feed       days       235       201       189       177       166       152       144       137       130       129       156       *         Avg. Daily Gain       Ibs./day       3.32       2.55       3.56       3.62       3.81       3.94       3.93       4.05       4.26       4.39       3.89       *         Feed-Gain Ratio       Ibs.       5.65       5.64       5.80       5.81       5.84       6.00       6.06       6.09       6.29       5.90       *         Concurrent COG       \$\scirct       96.91       104.86       97.31       108.84       105.31       97.98       102.21       96.89       9.08       106.87       101.20       *         Concurrent COG       \$\scirct       96.78       68.06       69.01       70.73       71.27 <t< td=""><td>Purchase Weight</td><td><u>lbs.</u></td><td><u>505.53</u></td><td><u>583.53</u></td><td>626.44</td><td>675.48</td><td>727.50</td><td>775.93</td><td>824.69</td><td>872.34</td><td><u>923.99</u></td><td><u>972.86</u></td><td>776.40</td><td>•</td></t<>	Purchase Weight	<u>lbs.</u>	<u>505.53</u>	<u>583.53</u>	626.44	675.48	727.50	775.93	824.69	872.34	<u>923.99</u>	<u>972.86</u>	776.40	•
Imm         Imm <td>In Weight</td> <td><u>lbs.</u></td> <td>492.66</td> <td>566.17</td> <td><u>610.67</u></td> <td>660.13</td> <td>711.11</td> <td>761.49</td> <td>810.08</td> <td>854.84</td> <td><u>903.83</u></td> <td><u>938.54</u></td> <td>759.97</td> <td>•</td>	In Weight	<u>lbs.</u>	492.66	566.17	<u>610.67</u>	660.13	711.11	761.49	810.08	854.84	<u>903.83</u>	<u>938.54</u>	759.97	•
Internet	<u>Shrink</u>	<u>%</u>	-2.51	-2.99	-2.52	-2.27	-2.26	-1.86	-1.77	-2.00	-2.18	-3.52	<u>2.18</u>	•
Arg. Daily Gain         Ibs./day         3.32         3.55         3.56         3.62         3.81         3.94         3.93         4.05         4.26         4.39         3.89         •           Feed-Gain Ratio         Ibs.         5.55         5.56         5.64         5.80         5.81         5.84         6.00         6.06         6.09         6.29         5.90         •           Sick Head Days         %         1.08         0.43         0.64         0.67         0.52         0.45         0.40         0.36         0.30         0.32         0.47         •           Death Loss         %         3.08         1.47         2.43         1.99         1.44         1.20         0.93         0.85         0.68         0.64         1.29         •           Concurrent COG         \$/cwt         96.91         104.86         97.31         108.84         105.31         97.98         102.21         96.89         97.08         106.87         101.20         •           Set COG         \$/cwt         69.91         68.06         69.01         70.94         70.73         71.27         73.13         73.44         73.87         71.74         •           Count	Sale Weight	<u>lbs.</u>	1269.04	1276.48	<u>1282.99</u>	<u>1298.38</u>	<u>1341.70</u>	<u>1358.91</u>	1374.68	1408.22	1459.21	1505.57	1362.36	-
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Days on Feed	<u>days</u>	<u>235</u>	201	<u>189</u>	177	166	<u>152</u>	<u>144</u>	<u>137</u>	<u>130</u>	<u>129</u>	156	-
Sick Head Days         %         1.08         0.43         0.64         0.67         0.52         0.44         0.036         0.30         0.32         0.47         •           Sick Head Days         %         1.08         0.44         1.29         1.44         1.20         0.93         0.85         0.68         0.64         1.29         •           Death Loss         %         3.08         1.47         2.43         1.99         1.44         1.20         0.93         0.85         0.68         0.64         1.29         •           Concurrent COG         %/cwt         69.78         68.06         69.01         70.94         70.73         71.27         73.13         73.40         73.54         73.87         71.74         •           Return         \$/hd.         -47.89         -28.48         -30.01         -71.69         -56.69         -25.19         -31.74         -41.05         22.12         -66.36         -36.49         •           Count         pens         25         34         70         97         158         180         153         124         73         32         946         •           Sale Barn Origin	Avg. Daily Gain	<u>lbs./day</u>	<u>3.32</u>	<u>3.55</u>	3.56	<u>3.62</u>	<u>3.81</u>	<u>3.94</u>	<u>3.93</u>	4.05	4.26	4.39	<u>3.89</u>	•
Death Loss         %         3.08         1.47         2.43         1.99         1.44         1.20         0.93         0.85         0.68         0.64         1.29         •           Concurrent COG         %/cwt         96.91         104.86         97.31         108.84         105.31         97.98         102.21         96.89         97.08         106.64         1.29         •           Set COG         %/cwt         69.71         0.48.66         0.01         70.97         71.27         73.13         73.40         73.54         73.87         71.74         •           Return         %/hd.         -47.89         -28.48         -30.01         -71.69         -56.69         -25.19         -31.74         -41.05         22.12         -66.36         -36.49         •           Count         pens         25         34         70         97         158         180         153         124         73         32         946         •           Durchase Weight         lbs.         505.19         581.21         624.94         677.82         725.39         775.93         82.067         874.84         920.30         971.76         748.33         •           In Weight	Feed-Gain Ratio	<u>lbs.</u>	<u>5.65</u>	<u>5.56</u>	5.64	<u>5.80</u>	<u>5.81</u>	5.84	<u>6.00</u>	<u>6.06</u>	<u>6.09</u>	6.29	<u>5.90</u>	•
Concurrent COG       Scwt       96.91       104.86       97.31       108.84       105.31       97.98       102.21       96.89       97.08       106.87       101.20       •         Set COG       S/cwt       69.78       68.06       69.01       70.94       70.73       71.27       73.13       73.40       73.54       73.87       71.74       •         Return       \$/hd.       -47.89       -28.48       -30.01       -71.69       -56.69       -25.19       -31.74       -41.05       22.12       -66.36       -36.49       •         Count       pens       25       34       70       97       158       180       153       124       73       32       94.6       •         bead       1453       3211       7245       9875       17531       20112       18215       13965       8156       2748       102512       •         Purchase Weight       lbs.       505.19       581.21       624.94       677.82       725.39       775.93       820.67       874.84       920.30       971.76       748.33       •         In Weight       lbs.       480.19       556.43       598.96       651.76       698.57       748.40	Sick Head Days	<u>%</u>	1.08	<u>0.43</u>	0.64	<u>0.67</u>	0.52	<u>0.45</u>	0.40	<u>0.36</u>	<u>0.30</u>	<u>0.32</u>	0.47	•
Set COG         \$/cwt         69.78         68.06         69.01         70.94         70.73         71.27         73.13         73.40         73.54         73.87         71.74         •           Return         \$/hd.         -47.89         -28.48         -30.01         -71.69         -56.69         -25.19         -31.74         -41.05         22.12         -66.36         -36.49         •           Count         pens         25         34         70         97         158         180         153         124         73         32         946         •           Mead         1453         3211         7245         9875         17531         20112         18215         13965         8156         2748         100212         •           Sale Barn Origin	Death Loss	<u>%</u>	<u>3.08</u>	<u>1.47</u>	<u>2.43</u>	<u>1.99</u>	<u>1.44</u>	1.20	<u>0.93</u>	<u>0.85</u>	<u>0.68</u>	<u>0.64</u>	<u>1.29</u>	•
Berne         Strik         Other         Other <th< td=""><td>Concurrent COG</td><td><u>\$/cwt</u></td><td><u>96.91</u></td><td><u>104.86</u></td><td><u>97.31</u></td><td>108.84</td><td>105.31</td><td><u>97.98</u></td><td>102.21</td><td><u>96.89</u></td><td><u>97.08</u></td><td>106.87</td><td>101.20</td><td>•</td></th<>	Concurrent COG	<u>\$/cwt</u>	<u>96.91</u>	<u>104.86</u>	<u>97.31</u>	108.84	105.31	<u>97.98</u>	102.21	<u>96.89</u>	<u>97.08</u>	106.87	101.20	•
Count         pens         25         34         70         97         158         180         153         124         73         32         946         •           Count         pens         25         34         70         97         158         180         153         124         73         32         946         •           head         1453         3211         7245         9875         17531         20112         18215         13965         8156         2748         102512         •           Sale Barn Origin	Set COG	<u>\$/cwt</u>	<u>69.78</u>	<u>68.06</u>	<u>69.01</u>	70.94	<u>70.73</u>	71.27	73.13	73.40	73.54	73.87	71.74	•
bead         1453         3211         7245         9875         17531         20112         18215         13965         8156         2748         102512         •           Sale Barn Origin         •	Return	<u>\$/hd.</u>	<u>-47.89</u>	-28.48	-30.01	-71.69	<u>-56.69</u>	-25.19	<u>-31.74</u>	-41.05	22.12	<u>-66.36</u>	<u>-36.49</u>	•
Sale Barn Origin       Solar       Field       Solar       Field       Field <td><u>Count</u></td> <td>pens</td> <td><u>25</u></td> <td><u>34</u></td> <td><u>70</u></td> <td><u>97</u></td> <td><u>158</u></td> <td><u>180</u></td> <td><u>153</u></td> <td><u>124</u></td> <td><u>73</u></td> <td><u>32</u></td> <td><u>946</u></td> <td>•</td>	<u>Count</u>	pens	<u>25</u>	<u>34</u>	<u>70</u>	<u>97</u>	<u>158</u>	<u>180</u>	<u>153</u>	<u>124</u>	<u>73</u>	<u>32</u>	<u>946</u>	•
Date Data Data       Difference       Differenc		head	<u>1453</u>	<u>3211</u>	7245	<u>9875</u>	<u>17531</u>	20112	<u>18215</u>	<u>13965</u>	<u>8156</u>	<u>2748</u>	<u>102512</u>	*
In WeightIbs.480.19556.43598.96651.76698.57748.40793.50844.38888.77932.21721.04•Shrink%-4.95-4.26-4.16-3.84-3.70-3.55-3.32-3.48-3.43-4.053.68•Sale WeightIbs.1193.181233.091262.281296.851324.641345.471370.681392.081420.261460.201332.22•Days on Feeddays237199189176166156148139132127163•Avg. Daily GainIbs./day3.013.413.523.673.773.833.913.954.034.173.78•Feed-Gain RatioIbs.5.975.805.755.805.916.026.076.216.236.335.96•Sick Head Days%0.700.931.030.890.760.620.530.390.330.700.70•Death Loss%2.324.183.012.542.251.881.471.250.900.792.08•	<u>Sale Barn Origin</u>													•
Shrink       %       -4.95       -4.26       -4.16       -3.84       -3.70       -3.55       -3.32       -3.48       -3.43       -4.05       3.68       •         Sale Weight       lbs.       1193.18       1233.09       1262.28       1296.85       1324.64       1345.47       1370.68       1392.08       1420.26       1460.20       1332.22       •         Days on Feed       days       237       199       189       176       166       156       148       139       132       127       163       •         Avg. Daily Gain       lbs./day       3.01       3.41       3.52       3.67       3.77       3.83       3.91       3.95       4.03       4.17       3.78       •         Feed-Gain Ratio       lbs.       5.97       5.80       5.75       5.80       5.91       6.02       6.07       6.21       6.23       6.33       5.96       •         Sick Head Days       %       0.70       0.93       1.03       0.89       0.76       0.62       0.53       0.39       0.33       0.70       0.70       •         Death Loss       %       2.32       4.18       3.01       2.54       2.25       1.88       <	Purchase Weight	<u>lbs.</u>	<u>505.19</u>	<u>581.21</u>	<u>624.94</u>	<u>677.82</u>	725.39	775.93	820.67	<u>874.84</u>	<u>920.30</u>	<u>971.76</u>	748.33	•
Sale Weight         lbs.         1193.18         1233.09         1262.28         1296.85         1324.64         1345.47         1370.68         1392.08         1420.26         1460.20         1332.22         •           Days on Feed         days         237         199         189         176         166         156         148         139         132         127         163         •           Avg. Daily Gain         lbs./day         3.01         3.41         3.52         3.67         3.77         3.83         3.91         3.95         4.03         4.17         3.78         •           Feed-Gain Ratio         lbs.         5.97         5.80         5.75         5.80         5.91         6.02         6.07         6.21         6.23         6.33         5.96         •           Sick Head Days         %         0.70         0.93         1.03         0.89         0.76         0.62         0.53         0.39         0.33         0.70         0.70         •           Death Loss         %         2.32         4.18         3.01         2.54         2.25         1.88         1.47         1.25         0.90         0.79         2.08         •           Concur	In Weight	<u>lbs.</u>	480.19	<u>556.43</u>	<u>598.96</u>	<u>651.76</u>	<u>698.57</u>	748.40	<u>793.50</u>	<u>844.38</u>	<u>888.77</u>	<u>932.21</u>	721.04	•
Days on Feed         days         237         199         189         176         166         156         148         139         132         127         163         •           Avg. Daily Gain         lbs./day         3.01         3.41         3.52         3.67         3.77         3.83         3.91         3.95         4.03         4.17         3.78         •           Feed-Gain Ratio         lbs.         5.97         5.80         5.75         5.80         5.91         6.02         6.07         6.21         6.23         6.33         5.96         •           Sick Head Days         %         0.70         0.93         1.03         0.89         0.76         0.62         0.53         0.39         0.33         0.70         0.70         •           Death Loss         %         2.32         4.18         3.01         2.54         2.25         1.88         1.47         1.25         0.90         0.79         2.08         •           Concurrent COG         \$/cwt         98.00         109.70         104.89         100.95         98.68         95.59         92.70         93.09         94.47         89.67         97.78         • <td><u>Shrink</u></td> <td><u>%</u></td> <td>-4.95</td> <td>-4.26</td> <td><u>-4.16</u></td> <td><u>-3.84</u></td> <td><u>-3.70</u></td> <td><u>-3.55</u></td> <td>-3.32</td> <td>-3.48</td> <td><u>-3.43</u></td> <td>-4.05</td> <td>3.68</td> <td>•</td>	<u>Shrink</u>	<u>%</u>	-4.95	-4.26	<u>-4.16</u>	<u>-3.84</u>	<u>-3.70</u>	<u>-3.55</u>	-3.32	-3.48	<u>-3.43</u>	-4.05	3.68	•
Avg. Daily Gain         Ibs./day         3.01         3.41         3.52         3.67         3.77         3.83         3.91         3.95         4.03         4.17         3.78         •           Feed-Gain Ratio         Ibs.         5.97         5.80         5.75         5.80         5.91         6.02         6.07         6.21         6.23         6.33         5.96         •           Sick Head Days         %         0.70         0.93         1.03         0.89         0.76         0.62         0.53         0.39         0.33         0.70         0.70         •           Death Loss         %         2.32         4.18         3.01         2.54         2.25         1.88         1.47         1.25         0.90         0.79         2.08         •           Concurrent COG         %/cwt         98.00         109.70         104.89         100.95         98.68         95.59         92.70         93.09         94.47         89.67         97.78         •	Sale Weight	<u>lbs.</u>	<u>1193.18</u>	1233.09	1262.28	1296.85	1324.64	1345.47	1370.68	1392.08	1420.26	1460.20	1332.22	•
Feed-Gain Ratio         Ibs.         5.97         5.80         5.75         5.80         5.91         6.02         6.07         6.21         6.23         6.33         5.96         •           Sick Head Days         %         0.70         0.93         1.03         0.89         0.76         0.62         0.53         0.39         0.33         0.70         0.70         •           Death Loss         %         2.32         4.18         3.01         2.54         2.25         1.88         1.47         1.25         0.90         0.79         2.08         •           Concurrent COG         \$/cwt         98.00         109.70         104.89         100.95         98.68         95.59         92.70         93.09         94.47         89.67         97.78         •	Days on Feed	<u>days</u>	<u>237</u>	<u>199</u>	<u>189</u>	176	166	156	148	<u>139</u>	<u>132</u>	<u>127</u>	<u>163</u>	•
Sick Head Days         %         0.70         0.93         1.03         0.89         0.76         0.62         0.53         0.39         0.33         0.70         0.70         •           Death Loss         %         2.32         4.18         3.01         2.54         2.25         1.88         1.47         1.25         0.90         0.79         2.08         •           Concurrent COG         %/cwt         98.00         109.70         104.89         100.95         98.68         95.59         92.70         93.09         94.47         89.67         97.78         •	Avg. Daily Gain	<u>lbs./day</u>	<u>3.01</u>	<u>3.41</u>	<u>3.52</u>	<u>3.67</u>	<u>3.77</u>	<u>3.83</u>	<u>3.91</u>	<u>3.95</u>	4.03	4.17	<u>3.78</u>	•
Death Loss         %         2.32         4.18         3.01         2.54         2.25         1.88         1.47         1.25         0.90         0.79         2.08         •           Concurrent COG         \$/cwt         98.00         109.70         104.89         100.95         98.68         95.59         92.70         93.09         94.47         89.67         97.78         •	Feed-Gain Ratio	<u>lbs.</u>	<u>5.97</u>	<u>5.80</u>	<u>5.75</u>	<u>5.80</u>	<u>5.91</u>	6.02	6.07	6.21	<u>6.23</u>	<u>6.33</u>	<u>5.96</u>	+
<u>Concurrent COG \$/cwt 98.00 109.70 104.89 100.95 98.68 95.59 92.70 93.09 94.47 89.67 97.78</u>	Sick Head Days	<u>%</u>	<u>0.70</u>	<u>0.93</u>	1.03	0.89	<u>0.76</u>	0.62	<u>0.53</u>	<u>0.39</u>	<u>0.33</u>	0.70	0.70	+
	Death Loss	<u>%</u>	2.32	4.18	3.01	2.54	2.25	1.88	<u>1.47</u>	<u>1.25</u>	<u>0.90</u>	<u>0.79</u>	2.08	4
<u>Set COG</u> <u>\$/cwt</u> <u>72.40</u> <u>70.03</u> <u>69.16</u> <u>69.67</u> <u>70.75</u> <u>71.73</u> <u>72.27</u> <u>73.27</u> <u>73.20</u> <u>72.86</u> <u>71.12</u>	Concurrent COG	<u>\$/cwt</u>	<u>98.00</u>	<u>109.70</u>	<u>104.89</u>	100.95	<u>98.68</u>	<u>95.59</u>	<u>92.70</u>	<u>93.09</u>	<u>94.47</u>	<u>89.67</u>	<u>97.78</u>	•
	Set COG	<u>\$/cwt</u>	72.40	70.03	<u>69.16</u>	<u>69.67</u>	<u>70.75</u>	<u>71.73</u>	72.27	73.27	73.20	<u>72.86</u>	<u>71.12</u>	4

	Formatted	
	Formatted Table	
2	Formatted Table	
<u>-</u> /) ∢⁄	Formatted	
<u>}</u> / <u>)</u> ≁ <u>1</u>	Formatted	
<u>+</u> 	Formatted	 [
•	Formatted	 [
<u> </u>	Formatted	 [
•	Formatted	 
<u>6</u> 🗸	Formatted	<u>(</u>
•	Formatted	(
•	Formatted	
*	Formatted	<u>(</u>
•	Formatted	<u></u>
•	Formatted	(
	Formatted	
•	Formatted	<u>[</u>
*	Formatted	
<u>2</u> •	Formatted	
•	Formatted	
*	Formatted	
•	Formatted	<u> </u>
<u>2</u> •		[
•	Formatted	
	Formatted	
•	Formatted	
4	Formatted	
4	Formatted	
•	Formatted	
10	Formatted	
19		

													,
Return	<u>\$/hd.</u>	<u>-98.90</u>	<u>-87.24</u>	<u>-48.88</u>	<u>-69.48</u>	<u>-58.47</u>	-43.75	<u>-20.92</u>	<u>-86.64</u>	<u>-11.10</u>	<u>-115.98</u>	<u>-53.10</u>	•
Count	pens	<u>29</u>	<u>47</u>	<u>146</u>	<u>353</u>	<u>434</u>	<u>380</u>	<u>216</u>	<u>144</u>	<u>98</u>	<u>11</u>	<u>1858</u>	•
_	head	<u>1431</u>	<u>4722</u>	<u>16271</u>	<u>46999</u>	<u>57597</u>	<u>48251</u>	<u>27842</u>	<u>17442</u>	<u>12194</u>	<u>584</u>	<u>233334</u>	_
Table 4. Origin	Means by	Weight	Categorie	s, Heifers	, Jan. 200	9 – Dec. 2	2015			<u>(Weighte</u>	d by Close	<u>Out Head)</u>	_
Variable	<u>Units</u>	<u>&lt;550</u>	<u>550-600</u>	<u>600-650</u>	<u>650-700</u>	<u>700-750</u>	<u>750-800</u>	800-850	<u>850-900</u>	<u>900-950</u>	<u>950&lt;</u>	<u>Overall</u>	
<u>Country Origin</u>													•
Purchase Weight	<u>lbs.</u>	510.21	<u>575.25</u>	629.05	674.08	726.31	773.19	824.99	865.26	916.11	<u>972.95</u>	<u>685.94</u>	•
In Weight	<u>lbs.</u>	495.10	<u>555.41</u>	612.83	<u>658.69</u>	709.22	754.30	<u>810.43</u>	836.65	890.67	<u>925.62</u>	668.67	•
<u>Shrink</u>	<u>%</u>	<u>-2.96</u>	<u>-3.46</u>	-2.58	-2.28	-2.36	-2.44	-1.76	<u>-3.31</u>	-2.78	-4.86	2.60	•
Sale Weight	<u>lbs.</u>	<u>1118.48</u>	<u>1152.53</u>	<u>1174.02</u>	<u>1184.78</u>	<u>1216.95</u>	<u>1262.14</u>	<u>1271.10</u>	1342.17	<u>1340.63</u>	<u>1415.37</u>	1204.58	•
Days on Feed	<u>days</u>	<u>206</u>	<u>190</u>	172	<u>159</u>	<u>146</u>	<u>138</u>	<u>131</u>	127	<u>125</u>	<u>123</u>	<u>159</u>	•
Avg. Daily Gain	<u>lbs./day</u>	<u>3.03</u>	<u>3.15</u>	3.28	<u>3.32</u>	<u>3.49</u>	3.68	<u>3.52</u>	<u>3.99</u>	<u>3.60</u>	<u>3.99</u>	<u>3.40</u>	•
Feed-Gain Ratio	<u>lbs.</u>	<u>5.77</u>	<u>5.86</u>	6.00	<u>6.06</u>	<u>6.14</u>	<u>6.21</u>	<u>6.39</u>	<u>6.66</u>	<u>8.97</u>	<u>11.14</u>	<u>6.10</u>	•
Sick Head Days	<u>%</u>	0.61	<u>0.78</u>	0.77	<u>0.69</u>	0.72	<u>0.73</u>	<u>0.90</u>	<u>1.09</u>	<u>6.80</u>	4.69	<u>0.76</u>	-
Death Loss	<u>%</u>	<u>1.91</u>	<u>1.76</u>	<u>1.53</u>	<u>0.94</u>	1.05	<u>0.99</u>	1.22	<u>1.64</u>	<u>11.11</u>	12.61	<u>1.32</u>	•
Concurrent COG	<u>\$/cwt</u>	<u>107.43</u>	<u>103.86</u>	108.88	106.56	103.67	<u>93.44</u>	<u>107.84</u>	<u>108.45</u>	166.92	178.67	104.74	•
Set COG	<u>\$/cwt</u>	70.82	<u>71.11</u>	<u>73.11</u>	<u>73.74</u>	<u>74.31</u>	<u>74.86</u>	77.50	<u>78.58</u>	102.86	<u>108.94</u>	<u>73.95</u>	•
<u>Return</u>	<u>\$/hd.</u>	<u>-9.62</u>	-14.62	-33.03	<u>-33.89</u>	-13.70	-2.76	-20.18	18.88	17.66	<u>-116.68</u>	-17.90	•
<u>Count</u>	pens	<u>64</u>	<u>60</u>	<u>101</u>	<u>97</u>	<u>110</u>	<u>80</u>	<u>65</u>	<u>27</u>	<u>1</u>	<u>2</u>	<u>607</u>	•
	head	<u>5455</u>	<u>5177</u>	<u>9209</u>	<u>9124</u>	<u>10550</u>	<u>7451</u>	<u>4738</u>	2231	<u>40</u>	<u>68</u>	<u>54043</u>	*
<u>Sale Barn Origin</u>													
Purchase Weight	<u>lbs.</u>	<u>519.18</u>	<u>580.16</u>	624.07	<u>670.64</u>	724.21	774.64	<u>819.62</u>	<u>872.47</u>	<u>925.57</u>	<u>975.67</u>	<u>663.23</u>	•
In Weight	<u>lbs.</u>	495.63	<u>554.70</u>	<u>597.42</u>	642.61	<u>695.69</u>	744.72	789.07	<u>840.55</u>	888.62	<u>952.39</u>	<u>635.77</u>	•
<u>Shrink</u>	<u>%</u>	-4.54	-4.39	-4.27	-4.18	-3.93	-3.86	-3.73	-3.66	-4.00	-2.39	4.17	•
Sale Weight	<u>lbs.</u>	<u>1125.38</u>	<u>1148.60</u>	<u>1163.93</u>	1180.47	<u>1211.77</u>	<u>1239.15</u>	1270.67	1316.86	<u>1424.70</u>	<u>1498.56</u>	<u>1184.68</u>	•
Days on Feed	<u>days</u>	206	184	<u>173</u>	<u>159</u>	<u>147</u>	137	<u>133</u>	<u>128</u>	123	<u>117</u>	164	+
<u>Avg. Daily Gain</u>	<u>lbs./day</u>	<u>3.07</u>	<u>3.22</u>	<u>3.28</u>	<u>3.39</u>	<u>3.51</u>	<u>3.60</u>	<u>3.63</u>	<u>3.72</u>	<u>4.39</u>	4.69	<u>3.37</u>	+
Feed-Gain Ratio	<u>lbs.</u>	<u>5.94</u>	<u>5.99</u>	<u>6.05</u>	<u>6.11</u>	<u>6.18</u>	<u>6.30</u>	<u>6.50</u>	<u>6.57</u>	7.34	<u>6.09</u>	<u>6.12</u>	•
Sick Head Days	<u>%</u>	0.80	<u>0.72</u>	1.03	<u>0.79</u>	<u>0.68</u>	0.61	<u>1.19</u>	1.74	0.70	0.84	<u>0.84</u>	-
Death Loss	<u>%</u>	<u>3.05</u>	2.56	2.47	2.02	<u>1.58</u>	<u>1.35</u>	1.27	<u>1.35</u>	<u>3.74</u>	0.00	2.12	4-
Concurrent COG	<u>\$/cwt</u>	108.33	108.00	105.00	106.89	103.17	102.82	106.80	<u>118.18</u>	120.11	108.26	105.94	4
Set COG	<u>\$/cwt</u>	71.82	71.88	72.33	72.56	73.12	73.96	76.10	76.52	83.59	72.47	72.80	•
													20

/	Formatted	(
/	Formatted	[
/	Formatted	[
/	Formatted	
/	Formatted Table	 [
/,	Formatted	
Ι,	Formatted	(
Ι,	Formatted	
/	Formatted	 [
 	Formatted	
/	Formatted	
	Formatted	
/	Formatted	
_	Formatted	
_	Formatted	
_	Formatted	
	Formatted	
-	Formatted	

<u>Return</u> Count	<u>\$/hd.</u> pens	<u>-49.81</u> <u>58</u>	<u>-57.24</u> <u>196</u>	<u>-53.61</u> 285	<u>-68.11</u> 241	<u>-51.85</u> <u>122</u>	<u>-52.72</u> 130	<u>3.59</u> <u>59</u>	<u>-52.11</u> 20	<u>-53.76</u> <u>8</u>	<u>232.95</u> <u>4</u>	<u>-53.97</u> + 1123 +
Count	head	4870	21685	32443	26174	12275	13691	<u>58</u> 84	1428	<u>223</u>		<u>118762</u>
Table 5. Owners											ed by Close	
Variable	<u>Units</u>	<u>&lt;550</u>	550-600	600-650	650-700	700-750	750-800	800-850	850-900	900-950	<u>950&lt;</u>	Overall •
Customer Owners	<u>hip</u>											
Purchase Weight	<u>lbs.</u>	<u>508.71</u>	<u>574.96</u>	<u>624.32</u>	<u>677.34</u>	727.41	777.61	823.69	<u>869.85</u>	925.03	<u>993.29</u>	<u>768.76</u>
In Weight	<u>lbs.</u>	489.82	552.88	604.37	<u>657.63</u>	711.65	760.64	809.45	<u>848.71</u>	907.01	<u>959.91</u>	750.68
<u>Shrink</u>	<u>%</u>	-3.71	-3.84	-3.21	-2.91	-2.17	-2.17	-1.73	-2.43	-1.95	-3.34	2.44
Sale Weight	<u>lbs.</u>	1231.52	1274.07	1276.56	1295.11	1343.57	1364.92	<u>1379.19</u>	1409.09	1437.83	1487.12	1357.83
Days on Feed	<u>days</u>	<u>240</u>	<u>213</u>	<u>198</u>	<u>182</u>	<u>164</u>	<u>153</u>	144	<u>140</u>	<u>132</u>	<u>132</u>	<u>161</u>
<u>Avg. Daily Gain</u>	<u>lbs./day</u>	3.10	<u>3.40</u>	<u>3.42</u>	<u>3.53</u>	<u>3.86</u>	<u>3.96</u>	<u>3.97</u>	4.01	4.02	4.00	3.82
Feed-Gain Ratio	<u>lbs.</u>	<u>5.96</u>	<u>5.84</u>	<u>6.01</u>	<u>6.10</u>	<u>5.90</u>	<u>5.95</u>	6.03	6.18	6.18	<u>6.44</u>	6.03
Sick Head Days	<u>%</u>	0.82	0.81	1.07	<u>1.15</u>	0.72	0.60	0.50	0.51	0.30	<u>0.33</u>	0.66
Death Loss	<u>%</u>	2.71	<u>3.13</u>	<u>3.44</u>	<u>3.36</u>	2.10	1.77	1.30	1.27	0.75	0.65	<u>1.90</u>
Concurrent COG	<u>\$/cwt</u>	<u>99.13</u>	<u>105.79</u>	<u>101.19</u>	<u>98.17</u>	<u>98.12</u>	<u>92.82</u>	<u>89.48</u>	86.14	89.62	86.68	<u>93.66</u>
Set COG	<u>\$/cwt</u>	72.87	70.86	72.87	73.62	71.57	71.99	73.36	74.18	74.68	75.24	72.93
<u>Return</u>	<u>\$/hd.</u>	-74.02	-60.37	-61.11	-71.19	-61.77	-16.56	16.00	-1.04	<u>6.83</u>	-69.01	-28.40
Count	pens	<u>53</u>	<u>33</u>	<u>62</u>	<u>81</u>	<u>124</u>	142	<u>120</u>	<u>83</u>	<u>61</u>	<u>38</u>	<u>797</u>
	head	<u>2842</u>	<u>2064</u>	<u>4031</u>	<u>5035</u>	<u>9736</u>	12362	10429	<u>6451</u>	<u>4863</u>	<u>2186</u>	<u>59999</u>
<u>Firm Ownership</u>												
Purchase Weight	<u>lbs.</u>	<u>491.39</u>	<u>584.37</u>	<u>625.53</u>	<u>677.43</u>	725.70	<u>775.54</u>	<u>821.91</u>	<u>874.88</u>	<u>920.93</u>	<u>963.38</u>	756.12
In Weight	<u>lbs.</u>	481.06	562.94	602.11	<u>652.86</u>	700.41	750.74	<u>798.06</u>	<u>850.45</u>	<u>891.83</u>	<u>924.88</u>	731.24
<u>Shrink</u>	<u>%</u>	-2.07	-3.68	-3.74	-3.62	-3.49	-3.20	-2.90	-2.79	-3.16	-3.99	<u>3.33</u>
Sale Weight	<u>lbs.</u>	<u>1275.26</u>	1244.45	1267.04	1297.23	1326.22	<u>1345.69</u>	1370.16	<u>1395.05</u>	1433.52	<u>1495.71</u>	<u>1338.45</u>
Days on Feed	<u>days</u>	<u>218</u>	<u>195</u>	<u>188</u>	<u>176</u>	<u>166</u>	<u>155</u>	<u>147</u>	<u>137</u>	<u>131</u>	<u>126</u>	<u>160</u>
<u>Avg. Daily Gain</u>	<u>lbs./day</u>	3.65	<u>3.49</u>	<u>3.55</u>	<u>3.67</u>	<u>3.77</u>	3.84	<u>3.90</u>	<u>3.98</u>	4.13	4.52	3.81
Feed-Gain Ratio	<u>lbs.</u>	<u>4.96</u>	5.65	<u>5.67</u>	<u>5.77</u>	<u>5.88</u>	<u>5.97</u>	6.04	<u>6.13</u>	<u>6.18</u>	<u>6.25</u>	5.92
Sick Head Days	<u>%</u>	1.57	<u>0.70</u>	0.87	0.82	0.70	<u>0.56</u>	0.47	0.34	0.31	<u>0.33</u>	0.62
Death Loss	<u>%</u>	<u>3.73</u>	<u>3.01</u>	2.70	2.35	2.04	1.67	1.25	1.01	<u>0.85</u>	0.62	<u>1.81</u>
Concurrent COG	<u>\$/cwt</u>	102.32	108.15	103.12	102.69	100.58	<u>97.35</u>	<u>98.85</u>	<u>97.90</u>	<u>97.23</u>	<u>113.74</u>	100.07
Set COG	<u>\$/cwt</u>	<u>61.55</u>	<u>68.63</u>	<u>68.59</u>	<u>69.55</u>	70.62	71.60	72.44	73.18	73.11	72.80	71.07
												21

Formatted: Tab stops: Not at 3" + 6"
Formatted: None, Space Before: 0 pt, Don't keep with next, Don't keep lines together
Formatted: Tab stops: Not at 3" + 6"
Formatted: Tab stops: Not at 3" + 6"
Formatted: Tab stops: Not at 3" + 6"
Formatted Table

Return	\$/hd.	-69.97	-68.31	-37.75	-70.60	-58.29	-45.70	-39.91	-82.63	-2.30	-65.01	-53.46
Count	pens	<u>-05.57</u> <u>2</u>	<u>-00.51</u>	<u>156</u>	<u>-70.00</u> <u>372</u>	<u>-38.27</u> <u>481</u>	<u>429</u>	<u>-35.51</u> <u>260</u>	<u>-02.05</u> <u>195</u>	<u>-2.30</u> <u>122</u>	<u>-05.01</u> <u>13</u>	2081 •
count	head	<u>205</u>	6053	<u>19725</u>	<u>52129</u>	66630	<u>57023</u>	<u>200</u> 36861	<u>175</u> 26394	<u>122</u> 16617	<u>1901</u>	<u>283539</u>
Table 6. Owners								<u>50001</u>	20374		ed by Close	
Variable	Units	<550	550-600	600-650	650-700	700-750	750-800	800-850	850-900	900-950	950<	Overall
Customer Owners												
Purchase Weight	lbs.	506.14	576.94	626.33	672.59	727.86	774.31	824.67	872.19	924.13	974.48	<u>686.72</u> 🗸
In Weight	lbs.	487.24	554.67	607.61	651.88	708.46	757.60	808.72	850.19	888.93	940.72	667.38 🗸
Shrink	<u>%</u>	-3.73	-3.87	-3.00	-3.08	-2.67	-2.16	-1.94	-2.51	-3.81	-3.47	<u>2.91</u> •/
Sale Weight	<u>lbs.</u>	<u>1127.34</u>	<u>1153.75</u>	1169.28	<u>1180.36</u>	<u>1221.93</u>	<u>1247.70</u>	<u>1276.73</u>	<u>1309.44</u>	<u>1411.92</u>	1462.30	<u>1203.39</u>
Days on Feed	<u>days</u>	215	<u>191</u>	<u>176</u>	<u>162</u>	<u>148</u>	<u>139</u>	<u>131</u>	<u>126</u>	<u>123</u>	<u>119</u>	<u>162</u> •/
Avg. Daily Gain	<u>lbs./day</u>	<u>2.99</u>	<u>3.15</u>	<u>3.20</u>	<u>3.28</u>	<u>3.47</u>	<u>3.54</u>	<u>3.59</u>	<u>3.63</u>	4.27	<u>4.39</u>	<u>3.34</u> •⁄
Feed-Gain Ratio	<u>lbs.</u>	<u>5.97</u>	<u>5.95</u>	<u>6.09</u>	6.25	<u>6.30</u>	<u>6.37</u>	<u>6.40</u>	<u>6.72</u>	<u>7.59</u>	<u>8.29</u>	<u>6.24</u> •
Sick Head Days	<u>%</u>	<u>0.76</u>	<u>1.12</u>	<u>1.29</u>	1.24	<u>1.11</u>	<u>0.97</u>	<u>1.19</u>	<u>2.57</u>	<u>1.63</u>	2.52	<u>1.19</u> •
Death Loss	<u>%</u>	<u>2.77</u>	2.25	<u>2.42</u>	2.37	<u>1.75</u>	1.65	<u>1.55</u>	<u>2.37</u>	4.86	5.50	<u>2.15</u> •
Concurrent COG	<u>\$/cwt</u>	104.64	106.61	105.96	104.92	<u>98.87</u>	100.97	103.92	<u>115.83</u>	127.23	138.95	<u>104.27</u> •
Set COG	<u>\$/cwt</u>	72.76	71.89	73.83	74.98	75.76	76.90	77.44	80.01	86.52	88.37	<u>75.21</u> •
<u>Return</u>	<u>\$/hd.</u>	<u>-3.82</u>	-38.21	-22.96	-52.89	<u>-11.17</u>	<u>-6.60</u>	<u>-11.54</u>	<u>23.73</u>	-42.90	<u>80.55</u>	<u>-20.57</u> •
<u>Count</u>	pens	<u>68</u>	<u>61</u>	<u>97</u>	<u>115</u>	<u>106</u>	<u>80</u>	<u>69</u>	<u>33</u>	<u>9</u>	<u>6</u>	<u>644</u> •
	head	<u>4490</u>	<u>4245</u>	<u>7098</u>	8117	<u>7450</u>	<u>5892</u>	4007	<u>1819</u>	<u>263</u>	<u>156</u>	<u>43537</u> •
<u>Firm Ownership</u>												*
Purchase Weight	<u>lbs.</u>	<u>521.46</u>	<u>579.50</u>	<u>624.98</u>	<u>671.13</u>	723.99	774.14	<u>820.96</u>	<u>864.62</u>			<u>666.02</u> •
In Weight	<u>lbs.</u>	<u>503.06</u>	<u>554.95</u>	<u>599.90</u>	<u>645.57</u>	<u>699.19</u>	<u>745.59</u>	<u>794.94</u>	<u>831.71</u>			<u>640.68</u> •
<u>Shrink</u>	<u>%</u>	-3.52	-4.23	-4.02	-3.81	<u>-3.43</u>	-3.68	-3.17	-3.82			<u>3.85</u> •
Sale Weight	<u>lbs.</u>	<u>1119.39</u>	<u>1148.40</u>	<u>1165.91</u>	<u>1181.82</u>	1210.22	1245.11	1264.77	<u>1341.98</u>			<u>1186.96</u>
Days on Feed	<u>days</u>	<u>199</u>	<u>184</u>	<u>172</u>	<u>158</u>	<u>146</u>	<u>137</u>	<u>132</u>	<u>128</u>			<u>162</u> •
<u>Avg. Daily Gain</u>	lbs./day	<u>3.10</u>	3.22	<u>3.30</u>	<u>3.40</u>	<u>3.51</u>	<u>3.64</u>	<u>3.56</u>	4.00			<u>3.39</u> •
Feed-Gain Ratio	<u>lbs.</u>	<u>5.76</u>	<u>5.96</u>	<u>6.04</u>	<u>6.05</u>	<u>6.10</u>	<u>6.25</u>	<u>6.48</u>	<u>6.56</u>			<u>6.08</u> •
<u>Sick Head Days</u>	<u>%</u>	<u>0.65</u>	<u>0.66</u>	<u>0.90</u>	0.62	<u>0.54</u>	<u>0.54</u>	<u>0.93</u>	0.23			<u>0.69</u> •
Death Loss	<u>%</u>	2.26	<u>2.45</u>	<u>2.24</u>	<u>1.53</u>	<u>1.18</u>	<u>1.08</u>	<u>1.18</u>	0.70			<u>1.78</u> •
Concurrent COG	<u>\$/cwt</u>	<u>111.30</u>	<u>107.48</u>	106.30	107.25	<u>105.80</u>	<u>99.84</u>	<u>111.06</u>	110.74			<u>106.43</u> •
Set COG	<u>\$/cwt</u>	<u>70.29</u>	<u>71.71</u>	<u>72.36</u>	<u>72.27</u>	<u>72.74</u>	<u>73.79</u>	76.55	76.60			<u>72.64</u> •

Formatted Table	
Formatted	
Formatted Table	
Formatted	 [

1	Table 7. Means by	Weight Cate	egories, Cus	stomer Stee	ers					_	<u>(Weighted</u>	l by Close Out Hea	<u>d)</u> [F	ormatted: Tab stops: Not at 3" + 6"	
ļ													F	ormatted Table	
													_		
1	Return	<u>\$/hd.</u>	<u>-57.42</u>	-51.88	-56.59	<u>-61.55</u>	<u>-46.46</u>	-46.54	-13.34	-21.35		<u>-51.53</u> <		ormatted: Tab stops: Not at 3" + 6"	
	Count	pens	<u>58</u>	<u>198</u>	<u>294</u>	230	<u>131</u>	137	<u>62</u>	<u>16</u>		<u>1126</u>		formatted: Tab stops: Not at 3" + 6"	$\longrightarrow$
		head	<u>6231</u>	22881	<u>35073</u>	27726	15650	15970	7264	2108		<u>132903</u> •	<u> </u>	formatted: Tab stops: Not at 3" + 6"	$\longrightarrow$
I															

												,	//
Variable	<u>Units</u>	<u>&lt;550</u>	<u>550-600</u>	<u>600-650</u>	<u>650-700</u>	<u>700-750</u>	<u>750-800</u>	<u>800-850</u>	<u>850-900</u>	<u>900-950</u>	<u>950&lt;</u>	Overall	///
Customer, Country	<u>Origin</u>											•//	//
Purchase Weight	<u>lbs.</u>	<u>507.85</u>	<u>575.69</u>	624.24	<u>678.85</u>	729.64	777.05	824.16	868.86	<u>924.55</u>	<u>983.51</u>	<u>776.32</u> //	/ / \-
In Weight	<u>lbs.</u>	494.57	<u>553.46</u>	<u>610.77</u>	662.02	715.73	765.03	814.35	856.32	912.60	<u>955.65</u>	763.19	//[
<u>Shrink</u>	<u>%</u>	-2.58	<u>-3.88</u>	-2.18	-2.47	<u>-1.91</u>	-1.54	<u>-1.19</u>	<u>-1.44</u>	-1.30	-2.81	<u>1.78</u>	با//ل
Sale Weight	<u>lbs.</u>	1268.01	1297.82	1302.86	1308.75	<u>1361.10</u>	<u>1373.43</u>	<u>1384.71</u>	<u>1415.34</u>	<u>1449.10</u>	<u>1501.35</u>	1374.08	/ /
Days on Feed	<u>days</u>	<u>238</u>	<u>211</u>	<u>193</u>	<u>178</u>	<u>164</u>	<u>151</u>	<u>144</u>	<u>139</u>	<u>131</u>	<u>133</u>	<u>157</u> •	/ /ī
Avg. Daily Gain	<u>lbs./day</u>	<u>3.26</u>	<u>3.55</u>	<u>3.60</u>	<u>3.66</u>	<u>3.95</u>	4.03	<u>3.97</u>	4.03	4.09	4.10	<u>3.92</u> ◀/	/ /
Feed-Gain Ratio	<u>lbs.</u>	<u>5.77</u>	<u>5.68</u>	<u>5.71</u>	<u>5.89</u>	<u>5.79</u>	<u>5.79</u>	<u>5.99</u>	<u>6.07</u>	<u>6.08</u>	<u>6.35</u>	<u>5.90</u>	//
Sick Head Days	<u>%</u>	1.00	<u>0.45</u>	<u>0.94</u>	<u>0.95</u>	0.52	<u>0.43</u>	0.36	0.41	0.28	<u>0.31</u>	<u>0.50</u>	
Death Loss	<u>%</u>	2.97	1.92	3.15	2.30	<u>1.44</u>	1.21	<u>0.96</u>	0.92	0.60	0.63	<u>1.36</u>	
Concurrent COG	<u>\$/cwt</u>	<u>96.02</u>	<u>111.66</u>	<u>96.17</u>	<u>103.32</u>	100.31	<u>89.03</u>	<u>89.76</u>	<u>87.57</u>	<u>86.99</u>	<u>87.57</u>	<u>93.03</u> •/	
Set COG	<u>\$/cwt</u>	71.14	<u>69.03</u>	<u>69.99</u>	71.62	70.55	<u>70.90</u>	73.46	<u>74.19</u>	74.55	75.33	<u>72.06</u>	
<u>Return</u>	<u>\$/hd.</u>	-44.26	<u>-69.30</u>	-27.27	-53.64	<u>-59.17</u>	<u>29.50</u>	22.88	<u>24.73</u>	<u>43.97</u>	-76.33	<u>-3.85</u> •	/ / I
<u>Count</u>	pens	<u>23</u>	<u>16</u>	<u>32</u>	<u>45</u>	<u>78</u>	<u>100</u>	<u>84</u>	<u>54</u>	<u>38</u>	<u>22</u>	<u>492</u> •	
	<u>head</u>	<u>1248</u>	<u>1085</u>	<u>2118</u>	<u>2847</u>	<u>6753</u>	<u>9256</u>	<u>7531</u>	<u>3918</u>	<u>3263</u>	<u>1231</u>	<u>39250</u>	
Customer, Sale Bar	<u>n Origin</u>											/	
Purchase Weight	<u>lbs.</u>	<u>505.19</u>	<u>575.62</u>	<u>625.43</u>	<u>673.55</u>	<u>721.25</u>	<u>780.83</u>	<u>819.97</u>	<u>870.38</u>	<u>920.36</u>	<u>994.12</u>	<u>737.67</u>	
In Weight	<u>lbs.</u>	<u>480.19</u>	<u>552.38</u>	<u>597.63</u>	<u>649.33</u>	<u>696.99</u>	<u>745.74</u>	<u>789.92</u>	832.07	<u>888.16</u>	<u>944.52</u>	<u>707.87</u>	<u> </u>
<u>Shrink</u>	<u>%</u>	<u>-4.95</u>	<u>-4.02</u>	<u>-4.45</u>	<u>-3.59</u>	<u>-3.37</u>	<u>-4.48</u>	<u>-3.67</u>	<u>-4.41</u>	<u>-3.49</u>	<u>-4.97</u>	<u>4.07</u>	
Sale Weight	<u>lbs.</u>	<u>1193.18</u>	1237.61	<u>1244.41</u>	1274.57	1294.27	<u>1343.06</u>	<u>1355.13</u>	1408.38	1427.40	1492.84	<u>1316.75</u>	
Days on Feed	<u>days</u>	<u>237</u>	<u>214</u>	<u>198</u>	<u>186</u>	<u>167</u>	<u>158</u>	<u>145</u>	<u>143</u>	<u>131</u>	<u>126</u>	<u>171</u>	_[
<u>Avg. Daily Gain</u>	<u>lbs./day</u>	<u>3.01</u>	<u>3.20</u>	<u>3.28</u>	<u>3.38</u>	<u>3.59</u>	<u>3.79</u>	<u>3.91</u>	<u>4.07</u>	<u>4.14</u>	<u>4.34</u>	<u>3.65</u> +	
Feed-Gain Ratio	<u>lbs.</u>	<u>5.97</u>	<u>6.07</u>	<u>6.22</u>	<u>6.38</u>	<u>6.27</u>	<u>6.41</u>	<u>6.24</u>	<u>6.33</u>	<u>6.22</u>	<u>6.44</u>	<u>6.27</u> +	
Sick Head Days	<u>%</u>	<u>0.70</u>	<u>1.23</u>	<u>1.32</u>	<u>1.48</u>	<u>1.42</u>	<u>1.21</u>	<u>1.00</u>	<u>0.70</u>	<u>0.39</u>	<u>1.44</u>	<u>1.10</u>	
Death Loss	<u>%</u>	<u>2.32</u>	<u>4.99</u>	<u>3.95</u>	<u>4.97</u>	<u>4.08</u>	<u>3.49</u>	<u>2.43</u>	<u>1.87</u>	<u>1.09</u>	<u>1.32</u>	<u>3.25</u>	5
Concurrent COG	<u>\$/cwt</u>	<u>98.00</u>	<u>99.92</u>	<u>104.00</u>	<u>92.34</u>	<u>96.20</u>	<u>104.58</u>	<u>92.36</u>	<u>83.83</u>	<u>104.76</u>	<u>110.07</u>	<u>96.59</u>	
Set COG	<u>\$/cwt</u>	<u>72.40</u>	<u>73.43</u>	<u>74.25</u>	<u>76.22</u>	<u>74.91</u>	<u>74.72</u>	<u>73.72</u>	<u>73.39</u>	<u>73.06</u>	<u>72.19</u>	<u>74.18</u>	
Return	<u>\$/hd.</u>	<u>-98.90</u>	<u>-27.31</u>	-125.65	<u>-78.30</u>	<u>-83.52</u>	<u>-145.38</u>	<u>-10.33</u>	<u>-45.86</u>	<u>-79.82</u>	-162.74	<u>-80.70</u>	(
Count	pens	<u>29</u>	<u>15</u>	<u>28</u>	<u>35</u>	<u>37</u>	<u>35</u>	<u>31</u>	27	<u>14</u>	8	<u>259</u>	
	head	<u>1431</u>	<u>857</u>	<u>1673</u>	<u>2026</u>	<u>2386</u>	<u>2687</u>	<u>2380</u>	<u>2277</u>	<u>893</u>	<u>200</u>	<u>16810</u>	

	Formatted Table	
/	Formatted	
	Formatted	
<u>11 / / /</u>	Formatted	)
•	Formatted	
<u>2</u> ///	Formatted	
<u>9</u>	Formatted	
<u>)8</u> //	Formatted	
• / /	Formatted	
•///	Formatted	
•	Formatted	
	Formatted	
3	Formatted	
5	Formatted	
<u>5</u> •//	Formatted	
• / /	Formatted	
Q	Formatted	
7	Formatted	
7	Formatted	)
•	Formatted	
<u>15</u>	Formatted	
•	Formatted	)
	Formatted	)
	Formatted	
-	Formatted	)
)	Formatted	
3	Formatted	
<u>0</u>	Formatted	)
	Formatted	
<u>0</u>	Formatted	
	Formatted	
1		

Variable	<b>Units</b>	<del>&lt;550</del>	<del>550-600</del>	<del>600-650</del>	<del>650-700</del>	<del>700-750</del>	<del>750-800</del>	<del>800-850</del>	<del>850-900</del>	<del>900-950</del>	<del>950&lt;</del>	<del>Overall</del>
<del>Customer Owners</del>	<del>hip</del>											
Purchase Weight	<del>lbs.</del>	<del>508.71</del>	<del>574.96</del>	<del>624.32</del>	<del>677.34</del>	<del>727.41</del>	777.61	<del>823.69</del>	<del>869.85</del>	<del>925.03</del>	<del>993.29</del>	<del>768.76</del>
In Weight	<del>lbs.</del>	4 <del>89.82</del>	<del>552.88</del>	<del>604.37</del>	<del>657.63</del>	<del>711.65</del>	<del>760.64</del>	<del>809.45</del>	<del>848.71</del>	<del>907.01</del>	<del>959.91</del>	<del>750.68</del>
Shrink	<del>%</del>	3.71	3.84	-3.21	-2.91	2.17	-2.17	<del>-1.73</del>	-2.43	<del>-1.95</del>	3.34	<del>2.44</del>
Sale Weight	<del>lbs.</del>	<del>1231.52</del>	<del>1274.07</del>	<del>1276.56</del>	<del>1295.11</del>	<del>1343.57</del>	<del>1364.92</del>	<del>1379.19</del>	<del>1409.09</del>	<del>1437.83</del>	<del>1487.12</del>	<del>1357.83</del>
Days on Feed	<del>days</del>	<del>240</del>	<del>213</del>	<del>198</del>	<del>182</del>	<del>164</del>	<del>153</del>	<del>144</del>	<del>140</del>	<del>132</del>	<del>132</del>	<del>161</del>
Avg. Daily Gain	<del>lbs./day</del>	<del>3.10</del>	<del>3.40</del>	<del>3.42</del>	<del>3.53</del>	<del>3.86</del>	<del>3.96</del>	<del>3.97</del>	4.01	4.02	4.00	<u>3.82</u>
Feed Gain Ratio	<del>lbs.</del>	<del>5.96</del>	<del>5.84</del>	<del>6.01</del>	<del>6.10</del>	<del>5.90</del>	<del>5.95</del>	<del>6.03</del>	<del>6.18</del>	<del>6.18</del>	<del>6.44</del>	<del>6.03</del>
Sick Head Days	<del>%</del>	<del>0.82</del>	<del>0.81</del>	1.07	<del>1.15</del>	0.72	<del>0.60</del>	<del>0.50</del>	<del>0.51</del>	<del>0.30</del>	<del>0.33</del>	<del>0.66</del>
Death Loss	<del>%</del>	<del>2.71</del>	<del>3.13</del>	<del>3.44</del>	<del>3.36</del>	<del>2.10</del>	<del>1.77</del>	<del>1.30</del>	<del>1.27</del>	<del>0.75</del>	<del>0.65</del>	<del>1.90</del>
Set COG	<del>\$/ewt</del>	72.87	<del>70.86</del>	72.87	<del>73.62</del>	71.57	<del>71.99</del>	<del>73.36</del>	<del>74.18</del>	<del>74.68</del>	75.24	<del>72.93</del>
Return	<del>\$/hd.</del>	-74.02	<del>-60.37</del>	<del>-61.11</del>	<del>-71.19</del>	<del>-61.77</del>	<del>-16.56</del>	<del>16.00</del>	-1.04	<del>6.83</del>	<del>-69.01</del>	<del>-28.40</del>
Count	<del>pens</del>	<del>53</del>	<del>33</del>	<del>62</del>	<del>81</del>	<del>124</del>	<del>142</del>	<del>120</del>	<del>83</del>	<del>61</del>	<del>38</del>	<del>797</del>
	head	<del>2842</del>	<del>2064</del>	4031	<del>5035</del>	<del>9736</del>	<del>12362</del>	<del>10429</del>	<del>6451</del>	4 <del>863</del>	<del>2186</del>	<del>59999</del>
Firm Ownership												
Purchase Weight	<del>lbs.</del>	4 <u>91.39</u>	<del>584.37</del>	<del>625.53</del>	<del>677.43</del>	725.70	775.54	<u>821.91</u>	<del>874.88</del>	<del>920.93</del>	<del>963.38</del>	756.12
In Weight	<del>lbs.</del>	481.06	<del>562.94</del>	602.11	<del>652.86</del>	700.41	<del>750.74</del>	<del>798.06</del>	<del>850.45</del>	<del>891.83</del>	<del>924.88</del>	731.24
Shrink	<del>%</del>	-2.07	<del>-3.68</del>	3.74	<del>-3.62</del>	3.49	3.20	-2.90	2.79	-3.16	3.99	3.33
Sale Weight	<del>lbs.</del>	<del>1275.26</del>	<del>1244.45</del>	<del>1267.04</del>	<del>1297.23</del>	<del>1326.22</del>	<del>1345.69</del>	<del>1370.16</del>	<del>1395.05</del>	<del>1433.52</del>	<del>1495.71</del>	<del>1338.4</del>
Days on Feed	<del>days</del>	<del>218</del>	<del>195</del>	<del>188</del>	<del>176</del>	<del>166</del>	<del>155</del>	<del>147</del>	<del>137</del>	<del>131</del>	<del>126</del>	<del>160</del>
Avg. Daily Gain	lbs./day	<del>3.65</del>	<del>3.49</del>	3.55	<del>3.67</del>	<del>3.77</del>	<del>3.84</del>	<del>3.90</del>	<del>3.98</del>	4.13	4 <del>.52</del>	<del>3.81</del>
Feed Gain Ratio	<del>lbs.</del>	4 <del>.96</del>	<del>5.65</del>	<del>5.67</del>	<del>5.77</del>	<del>5.88</del>	<del>5.97</del>	6.04	<del>6.13</del>	<del>6.18</del>	<del>6.25</del>	<u>5.92</u>
Sick Head Days	<del>%</del>	<del>1.57</del>	0.70	0.87	0.82	0.70	<del>0.56</del>	0.47	<del>0.34</del>	0.31	<del>0.33</del>	0.62
Death Loss	<del>%</del>	<del>3.73</del>	<del>3.01</del>	2.70	<del>2.35</del>	2.04	<del>1.67</del>	<del>1.25</del>	<del>1.01</del>	0.85	<del>0.62</del>	<del>1.81</del>
Set COG	<del>\$/cwt</del>	<del>61.55</del>	<del>68.63</del>	<del>68.59</del>	<del>69.55</del>	<del>70.62</del>	71.60	72.44	<del>73.18</del>	73.11	72.80	71.07
Return	<del>\$/hd.</del>	<del>-69.97</del>	<del>-68.31</del>	<del>- 37.75</del>	<del>-70.60</del>	<u>-58.29</u>	<del>-45.70</del>	<del>- 39.91</del>	82.63	-2.30	<del>-65.01</del>	-53.46
Count	<del>pens</del>	2	<del>51</del>	<del>156</del>	<del>372</del>	<del>481</del>	4 <del>29</del>	<del>260</del>	<del>195</del>	<del>122</del>	<del>13</del>	<del>2081</del>
	head	205	<del>6053</del>	<del>19725</del>	<del>52129</del>	<del>66630</del>	<del>57023</del>	<del>36861</del>	<del>26394</del>	<del>16617</del>	<del>1901</del>	283539

Variable	<b>Units</b>	<del>&lt;550</del>	<del>550-600</del>	<del>600-650</del>	<del>650-700</del>	<del>700-750</del>	<del>750-800</del>	<del>800-850</del>	<del>850-900</del>	<del>900-950</del>	<del>950&lt;</del>	Overall
Customer Owners	hip											
Purchase Weight	<del>lbs.</del>	<del>506.14</del>	<del>576.94</del>	<del>626.33</del>	<del>672.59</del>	<del>727.86</del>	774.31	<del>824.67</del>	<del>872.19</del>	<del>924.13</del>	<del>974.48</del>	<del>686.72</del>
In Weight	<del>lbs.</del>	487.24	<del>554.67</del>	<del>607.61</del>	<del>651.88</del>	<del>708.46</del>	<del>757.60</del>	<del>808.72</del>	<del>850.19</del>	<del>888.93</del>	<del>940.72</del>	<del>667.38</del>
Shrink	<del>%</del>	-3.73	3.87	-3.00	-3.08	-2.67	-2.16	<del>-1.94</del>	-2.51	3.81	-3.47	<del>2.91</del>
Sale Weight	<del>lbs.</del>	<del>1127.34</del>	<del>1153.75</del>	<del>1169.28</del>	<del>1180.36</del>	<del>1221.93</del>	<del>1247.70</del>	<del>1276.73</del>	<del>1309.44</del>	<del>1411.92</del>	<del>1462.30</del>	<del>1203.39</del>
Days on Feed	<del>days</del>	<del>215</del>	<del>191</del>	<del>176</del>	<del>162</del>	<del>148</del>	<del>139</del>	<del>131</del>	<del>126</del>	<del>123</del>	<del>119</del>	<del>162</del>
Avg. Daily Gain	<del>lbs./day</del>	<del>2.99</del>	<del>3.15</del>	<del>3.20</del>	<del>3.28</del>	<del>3.47</del>	<del>3.54</del>	<del>3.59</del>	<del>3.63</del>	<del>4.27</del>	<del>4.39</del>	<del>3.34</del>
Feed Gain Ratio	<del>lbs.</del>	<del>5.97</del>	<u>5.95</u>	<del>6.09</del>	6.25	<del>6.30</del>	<del>6.37</del>	<del>6.40</del>	<del>6.72</del>	7.59	<del>8.29</del>	<del>6.24</del>
Sick Head Days	<del>%</del>	<del>0.76</del>	<del>1.12</del>	<del>1.29</del>	<del>1.24</del>	<del>1.11</del>	<del>0.97</del>	<del>1.19</del>	2.57	<del>1.63</del>	2.52	<del>1.19</del>
Death Loss	<del>%</del>	2.77	2.25	2.42	<del>2.37</del>	<del>1.75</del>	<del>1.65</del>	<del>1.55</del>	2.37	<del>4.86</del>	<del>5.50</del>	2.15
Set COG	<del>\$/cwt</del>	72.76	<del>71.89</del>	<del>73.83</del>	<del>74.98</del>	<del>75.76</del>	<del>76.90</del>	77.44	<del>80.01</del>	<del>86.52</del>	<del>88.37</del>	75.21
Return	<del>\$/hd.</del>	3.82	38.21	22.96	<u>-52.89</u>	-11.17	<del>-6.60</del>	-11.54	<del>23.73</del>	<u>-42.90</u>	<del>80.55</del>	-20.57
Count	<del>pens</del>	<del>68</del>	<del>61</del>	<del>97</del>	<del>115</del>	<del>106</del>	<del>80</del>	<del>69</del>	<del>33</del>	9	6	<del>6</del> 44
	head	<del>4490</del>	<u>4245</u>	<del>7098</del>	<del>8117</del>	<del>7450</del>	<del>5892</del>	4007	<del>1819</del>	<del>263</del>	<del>156</del>	4 <del>3537</del>
<del>Firm Ownership</del>												
Purchase Weight	<del>lbs.</del>	<del>521.46</del>	<del>579.50</del>	<del>624.98</del>	<del>671.13</del>	<del>723.99</del>	774.14	<del>820.96</del>	<del>864.62</del>			<del>666.02</del>
In Weight	<del>lbs.</del>	<del>503.06</del>	<del>554.95</del>	<del>599.90</del>	<del>645.57</del>	<del>699.19</del>	<del>745.59</del>	<del>794.94</del>	<del>831.71</del>			<del>640.68</del>
Shrink	<del>%</del>	3.52	4.23	4.02	3.81	<del>-3.43</del>	<del>-3.68</del>	3.17	3.82			<del>3.85</del>
Sale Weight	<del>lbs.</del>	<del>1119.39</del>	<del>1148.40</del>	<del>1165.91</del>	<del>1181.82</del>	<del>1210.22</del>	<del>1245.11</del>	<del>1264.77</del>	<del>1341.98</del>			<del>1186.96</del>
Days on Feed	<del>days</del>	<del>199</del>	<del>184</del>	<del>172</del>	<del>158</del>	<del>146</del>	<del>137</del>	<del>132</del>	<del>128</del>			<del>162</del>
Avg. Daily Gain	lbs./day	<del>3.10</del>	3.22	<del>3.30</del>	<del>3.40</del>	<del>3.51</del>	<del>3.64</del>	<del>3.56</del>	4.00			<del>3.39</del>
Feed Gain Ratio	<del>lbs.</del>	<del>5.76</del>	<del>5.96</del>	<del>6.04</del>	<del>6.05</del>	<del>6.10</del>	<del>6.25</del>	<del>6.48</del>	<del>6.56</del>			<del>6.08</del>
Sick Head Days	<del>%</del>	<del>0.65</del>	<del>0.66</del>	<del>0.90</del>	<del>0.62</del>	<del>0.54</del>	<del>0.54</del>	<del>0.93</del>	0.23			<del>0.69</del>
Death Loss	<del>%</del>	<del>2.26</del>	<del>2.45</del>	<del>2.24</del>	<del>1.53</del>	<del>1.18</del>	<del>1.08</del>	<del>1.18</del>	<del>0.70</del>			<del>1.78</del>
Set COG	<del>\$/cwt</del>	70.29	71.71	72.36	72.27	72.74	<del>73.79</del>	<del>76.55</del>	<del>76.60</del>			<del>72.64</del>
Return	<del>\$/hd.</del>	<del>-57.42</del>	<del>-51.88</del>	- <u>56.59</u>	<del>-61.55</del>	<del>-46.46</del>	<del>-46.54</del>	<del>-13.34</del>	-21.35			-51.53
Count	pens	<del>58</del>	<del>198</del>	<del>294</del>	<del>230</del>	<del>131</del>	<del>137</del>	<del>62</del>	<del>16</del>			<del>1126</del>
-	head	<del>6231</del>	<del>22881</del>	<del>35073</del>	<del>27726</del>	<del>15650</del>	<del>15970</del>	<del>7264</del>	<del>2108</del>	-	-	<del>132903</del>

<del>Variable</del>	<b>Units</b>	<del>&lt;550</del>	<del>550-600</del>	<del>600-650</del>	<del>650-700</del>	<del>700-750</del>	<del>750-800</del>	<del>800-850</del>	<del>850-900</del>	<del>900-950</del>	<del>950&lt;</del>	<del>Overall</del>	
Customer, Country	- Origin												-
Purchase Weight	lbs.	<del>507.85</del>	<del>575.69</del>	<del>624.24</del>	<del>678.85</del>	<del>729.64</del>	<del>777.05</del>	<del>824.16</del>	<del>868.86</del>	<del>924.55</del>	<del>983.51</del>	<del>776.32</del>	
In Weight	<del>lbs.</del>	<del>494.57</del>	<del>553.46</del>	<del>610.77</del>	<del>662.02</del>	<del>715.73</del>	<del>765.03</del>	<del>814.35</del>	<del>856.32</del>	<del>912.60</del>	<del>955.65</del>	<del>763.19</del>	
Shrink	<del>%</del>	<del>-2.58</del>	3.88	2.18	-2.47	<del>-1.91</del>	<del>-1.54</del>	<del>-1.19</del>	-1.44	-1.30	2.81	<del>1.78</del>	
Sale Weight	<del>lbs.</del>	<del>1268.01</del>	<del>1297.82</del>	<del>1302.86</del>	<del>1308.75</del>	<del>1361.10</del>	<del>1373.43</del>	<del>1384.71</del>	<del>1415.34</del>	<del>1449.10</del>	<del>1501.35</del>	<del>1374.08</del>	
Days on Feed	<del>days</del>	<del>238</del>	<del>211</del>	<del>193</del>	<del>178</del>	<del>164</del>	<del>151</del>	<del>1</del> 44	<del>139</del>	<del>131</del>	<del>133</del>	<del>157</del>	
Avg. Daily Gain	lbs./day	<del>3.26</del>	<del>3.55</del>	<del>3.60</del>	<del>3.66</del>	<del>3.95</del>	<del>4.03</del>	<del>3.97</del>	4.03	<del>4.09</del>	<del>4.10</del>	<del>3.92</del>	
Feed Gain Ratio	lbs.	<del>5.77</del>	<del>5.68</del>	<del>5.71</del>	<del>5.89</del>	<del>5.79</del>	<del>5.79</del>	<del>5.99</del>	<del>6.07</del>	<del>6.08</del>	<del>6.35</del>	<del>5.90</del>	
Sick Head Days	<del>%</del>	<del>1.00</del>	<del>0.45</del>	<del>0.94</del>	<del>0.95</del>	<del>0.52</del>	<del>0.43</del>	<del>0.36</del>	<del>0.41</del>	<del>0.28</del>	<del>0.31</del>	<del>0.50</del>	
Death Loss	<del>%</del>	<del>2.97</del>	<del>1.92</del>	<del>3.15</del>	<del>2.30</del>	<del>1.44</del>	<del>1.21</del>	<del>0.96</del>	<del>0.92</del>	<del>0.60</del>	<del>0.63</del>	<del>1.36</del>	
Set COG	<del>\$/cwt</del>	71.14	<del>69.03</del>	<del>69.99</del>	71.62	<del>70.55</del>	<del>70.90</del>	<del>73.46</del>	<del>74.19</del>	74.55	75.33	<del>72.06</del>	
Return	<del>\$/hd.</del>	44.26	<del>-69.30</del>	-27.27	<del>-53.64</del>	<del>-59.17</del>	<del>29.50</del>	<del>22.88</del>	<del>24.73</del>	4 <del>3.97</del>	<del>-76.33</del>	<del>-3.85</del>	
Count	pens	23	<del>16</del>	<del>32</del>	4 <del>5</del>	<del>78</del>	100	<del>84</del>	<del>5</del> 4	<del>38</del>	22	4 <del>92</del>	
	head	<del>1248</del>	<del>1085</del>	<del>2118</del>	<del>2847</del>	<del>6753</del>	<del>9256</del>	<del>7531</del>	<del>3918</del>	<del>3263</del>	<del>1231</del>	<del>39250</del>	
Customer, Sale Bar	<del>m Origin</del>												
Purchase Weight	<del>lbs.</del>	<del>505.19</del>	<del>575.62</del>	<del>625.43</del>	<del>673.55</del>	721.25	<del>780.83</del>	<del>819.97</del>	<del>870.38</del>	<del>920.36</del>	<del>994.12</del>	<del>737.67</del>	
In Weight	lbs.	<del>480.19</del>	<del>552.38</del>	<del>597.63</del>	<del>649.33</del>	<del>696.99</del>	<del>745.74</del>	<del>789.92</del>	<del>832.07</del>	<del>888.16</del>	<del>944.52</del>	<del>707.87</del>	
Shrink	%-	<del>-4.95</del>	-4.02	<del>-4.45</del>	<del>-3.59</del>	<del>-3.37</del>	<del>-4.48</del>	<del>-3.67</del>	-4.41	<del>-3.49</del>	<del>-4.97</del>	<del>4.07</del>	
Sale Weight	lbs.	<del>1193.18</del>	<del>1237.61</del>	<del>1244.41</del>	<del>1274.57</del>	<del>1294.27</del>	<del>1343.06</del>	<del>1355.13</del>	<del>1408.38</del>	<del>1427.40</del>	<del>1492.84</del>	<del>1316.75</del>	
Days on Feed	<del>days</del>	<del>237</del>	<del>214</del>	<del>198</del>	<del>186</del>	<del>167</del>	<del>158</del>	<del>145</del>	<del>143</del>	<del>131</del>	<del>126</del>	<del>171</del>	
Avg. Daily Gain	<del>lbs./day</del>	3.01	<del>3.20</del>	<del>3.28</del>	<del>3.38</del>	<del>3.59</del>	<del>3.79</del>	<del>3.91</del>	4.07	4.14	4 <del>.34</del>	<del>3.65</del>	
Feed-Gain Ratio	<del>lbs.</del>	<del>5.97</del>	<del>6.07</del>	6.22	<del>6.38</del>	<del>6.27</del>	<del>6.41</del>	<del>6.24</del>	<del>6.33</del>	<del>6.22</del>	<del>6.44</del>	<del>6.27</del>	
Sick Head Days	<del>%</del>	<del>0.70</del>	<del>1.23</del>	<del>1.32</del>	<del>1.48</del>	<del>1.42</del>	1.21	1.00	<del>0.70</del>	<del>0.39</del>	<del>1.44</del>	<del>1.10</del>	
Death Loss	%	2.32	<del>4.99</del>	<del>3.95</del>	<del>4.97</del>	4.08	<del>3.49</del>	<del>2.43</del>	<del>1.87</del>	<del>1.09</del>	<del>1.32</del>	<del>3.25</del>	
Set COG	<del>\$/cwt</del>	<del>72.40</del>	<del>73.43</del>	74.25	<del>76.22</del>	<del>74.91</del>	74.72	<del>73.72</del>	<del>73.39</del>	<del>73.06</del>	<del>72.19</del>	<del>74.18</del>	
Return	<del>\$/hd.</del>	<del>-98.90</del>	-27.31	<del>-125.65</del>	<del>-78.30</del>	<del>-83.52</del>	<del>-145.38</del>	-10.33	<del>-45.86</del>	<del>-79.82</del>	<del>-162.74</del>	<del>-80.70</del>	
Count	<del>pens</del>	<del>29</del>	<del>15</del>	<del>28</del>	<del>35</del>	<del>37</del>	<del>35</del>	<del>31</del>	<del>27</del>	<del>14</del>	8	<del>259</del>	
-	head	<del>1431</del>	<del>857</del>	<del>1673</del>	<del>2026</del>	<del>2386</del>	<del>2687</del>	<del>2380</del>	<del>2277</del>	<del>893</del>	<del>200</del>	<del>16810</del>	Formatted: Tab stops: Not at
e 8. Means by Wei	ght Categori	ies, Custon	ner Heifers							<u>(Weigh</u>	ted by Close	<u>e Out Head)</u>	Formatted Table
able U	vnits <	<550 55	60-600 60	0-650 65	50-700 70	00-750 75	50-800 80	0-850 85	50-900 90	00-950	950<	Overall	Formatted: Tab stops: Not at

matted Table

<u>Country Origin</u>												
Purchase Weight	<u>lbs.</u>	<u>500.79</u>	<u>577.77</u>	<u>627.85</u>	<u>674.79</u>	728.59	772.58	824.27	<u>866.76</u>	<u>916.11</u>	<u>972.95</u>	<u>692.61</u>
In Weight	<u>lbs.</u>	483.23	<u>556.97</u>	<u>610.73</u>	<u>658.18</u>	713.46	760.58	<u>810.99</u>	845.46	890.67	925.62	<u>676.54</u>
<u>Shrink</u>	<u>%</u>	-3.49	-3.61	-2.74	-2.46	-2.09	-1.56	-1.61	-2.45	-2.78	-4.86	<u>2.42</u>
Sale Weight	<u>lbs.</u>	1134.22	<u>1169.76</u>	<u>1191.09</u>	1194.52	<u>1231.00</u>	1258.21	<u>1273.88</u>	<u>1317.28</u>	1340.63	1415.37	<u>1216.62</u>
Days on Feed	<u>days</u>	<u>217</u>	<u>193</u>	<u>176</u>	<u>159</u>	<u>147</u>	<u>139</u>	<u>130</u>	<u>126</u>	<u>125</u>	<u>123</u>	<u>160</u>
Avg. Daily Gain	<u>lbs./day</u>	<u>3.01</u>	<u>3.18</u>	<u>3.31</u>	<u>3.37</u>	<u>3.52</u>	<u>3.59</u>	<u>3.56</u>	<u>3.73</u>	<u>3.60</u>	<u>3.99</u>	<u>3.41</u>
Feed-Gain Ratio	<u>lbs.</u>	<u>5.92</u>	<u>5.89</u>	<u>5.99</u>	6.06	6.22	6.20	6.35	6.87	8.97	<u>11.14</u>	6.15
Sick Head Days	<u>%</u>	0.72	<u>1.14</u>	<u>1.19</u>	1.01	<u>0.90</u>	<u>0.73</u>	<u>1.10</u>	2.54	6.80	4.69	1.04
Death Loss	<u>%</u>	<u>2.32</u>	2.26	<u>1.91</u>	<u>1.28</u>	<u>1.26</u>	<u>1.12</u>	<u>1.20</u>	<u>3.55</u>	<u>11.11</u>	<u>12.61</u>	<u>1.64</u>
Concurrent COG	<u>\$/cwt</u>	102.02	100.96	101.24	<u>96.69</u>	<u>95.23</u>	<u>98.63</u>	102.72	110.43	166.92	178.67	<u>99.67</u>
Set COG	<u>\$/cwt</u>	72.34	71.44	72.84	<u>73.58</u>	<u>75.53</u>	<u>75.75</u>	77.31	<u>81.96</u>	<u>102.86</u>	<u>108.94</u>	74.68
<u>Return</u>	<u>\$/hd.</u>	<u>12.92</u>	<u>11.36</u>	-2.44	<u>0.45</u>	19.67	<u>11.43</u>	-11.27	22.36	17.66	-116.68	<u>6.46</u>
<u>Count</u>	pens	<u>33</u>	<u>35</u>	<u>61</u>	<u>64</u>	<u>70</u>	<u>51</u>	<u>50</u>	<u>17</u>	<u>1</u>	<u>2</u>	<u>384</u>
	head	<u>2219</u>	<u>2357</u>	<u>4504</u>	<u>4696</u>	<u>5459</u>	3701	<u>3045</u>	<u>864</u>	<u>40</u>	<u>68</u>	<u>26953</u>
<u>Sale Barn Origin</u>												
Purchase Weight	<u>lbs.</u>	<u>509.05</u>	<u>575.90</u>	<u>623.54</u>	<u>670.14</u>	725.40	<u>778.07</u>	<u>821.82</u>	<u>880.31</u>	<u>925.57</u>	<u>975.67</u>	<u>669.29</u>
In Weight	<u>lbs.</u>	486.27	<u>551.79</u>	601.47	<u>641.13</u>	692.86	745.98	788.00	848.85	888.62	<u>952.39</u>	<u>641.76</u>
<u>Shrink</u>	<u>%</u>	-4.47	-4.19	<u>-3.53</u>	-4.33	-4.47	-4.13	-4.11	-3.57	-4.00	-2.39	4.13
Sale Weight	<u>lbs.</u>	<u>1117.55</u>	<u>1133.76</u>	<u>1133.54</u>	1162.56	<u>1199.10</u>	<u>1240.59</u>	<u>1295.31</u>	<u>1321.44</u>	<u>1424.70</u>	<u>1498.56</u>	<u>1180.61</u>
Days on Feed	<u>days</u>	<u>215</u>	<u>188</u>	<u>175</u>	<u>164</u>	<u>152</u>	<u>138</u>	<u>133</u>	<u>127</u>	<u>123</u>	<u>117</u>	<u>168</u>
<u>Avg. Daily Gain</u>	<u>lbs./day</u>	<u>2.94</u>	<u>3.10</u>	<u>3.04</u>	<u>3.18</u>	<u>3.33</u>	<u>3.59</u>	<u>3.80</u>	<u>3.71</u>	<u>4.39</u>	4.69	<u>3.26</u>
Feed-Gain Ratio	<u>lbs.</u>	<u>6.05</u>	<u>6.03</u>	<u>6.18</u>	<u>6.56</u>	<u>6.55</u>	<u>6.56</u>	<u>6.53</u>	<u>6.54</u>	7.34	<u>6.09</u>	<u>6.36</u>
Sick Head Days	<u>%</u>	<u>0.82</u>	<u>1.08</u>	<u>1.48</u>	<u>1.71</u>	<u>1.52</u>	<u>1.60</u>	<u>1.82</u>	<u>3.25</u>	<u>0.70</u>	<u>0.84</u>	<u>1.49</u>
Death Loss	<u>%</u>	<u>3.14</u>	<u>2.25</u>	<u>3.24</u>	<u>4.37</u>	<u>3.07</u>	<u>3.05</u>	<u>2.28</u>	<u>1.51</u>	<u>3.74</u>	0.00	<u>3.15</u>
Concurrent COG	<u>\$/cwt</u>	<u>104.89</u>	<u>113.66</u>	<u>112.77</u>	<u>119.21</u>	<u>109.38</u>	100.61	<u>93.97</u>	<u>119.14</u>	<u>120.11</u>	108.26	<u>110.85</u>
Set COG	<u>\$/cwt</u>	73.26	72.46	74.36	<u>77.15</u>	76.47	<u>75.94</u>	<u>75.75</u>	76.12	<u>83.59</u>	72.47	<u>75.26</u>
Return	<u>\$/hd.</u>	0.22	-100.09	-60.22	-133.90	-98.68	-42.70	32.94	<u>-9.60</u>	-53.76	232.95	<u>-66.50</u>
Count	pens	<u>33</u>	<u>26</u>	<u>35</u>	<u>45</u>	<u>32</u>	<u>23</u>	<u>16</u>	<u>14</u>	<u>8</u>	<u>4</u>	<u>236</u>
	head	<u>2015</u>	<u>1888</u>	<u>2526</u>	<u>3016</u>	<u>1835</u>	<u>1602</u>	<u>694</u>	<u>687</u>	<u>223</u>	<u>88</u>	<u>14574</u>
	W 110	, ·	C (	TT 'C						(117	internation of	
Table 8. Means by	Cable 8. Means by Weight Categories, Customer Heifers       -											

<b>Variable</b>	Units	<del>&lt;550</del>	<del>550-600</del>	<del>600-650</del>	<del>650-700</del>	<del>700-750</del>	<del>750-800</del>	<del>800-850</del>	<del>850-900</del>	<del>900-950</del>	<del>950&lt;</del>	<del>Overall</del>
Country Origin												
Purchase Weight	<del>lbs.</del>	<del>500.79</del>	<del>577.77</del>	<del>627.85</del>	<del>674.79</del>	<del>728.59</del>	<del>772.58</del>	<del>824.27</del>	<del>866.76</del>	<del>916.11</del>	<del>972.95</del>	<del>692.61</del>
In Weight	<del>lbs.</del>	<del>483.23</del>	<del>556.97</del>	<del>610.73</del>	<del>658.18</del>	<del>713.46</del>	<del>760.58</del>	<del>810.99</del>	<del>845.46</del>	<del>890.67</del>	<del>925.62</del>	<del>676.54</del>
Shrink	<del>%</del>	<del>-3.49</del>	<del>-3.61</del>	-2.74	<del>-2.46</del>	-2.09	<del>-1.56</del>	<del>-1.61</del>	<del>-2.45</del>	<del>-2.78</del>	<del>-4.86</del>	<del>2.42</del>
Sale Weight	<del>lbs.</del>	<del>1134.22</del>	<del>1169.76</del>	<del>1191.09</del>	<del>1194.52</del>	<del>1231.00</del>	<del>1258.21</del>	<del>1273.88</del>	<del>1317.28</del>	<del>1340.63</del>	<del>1415.37</del>	<del>1216.62</del>
Days on Feed	<del>days</del>	217	<del>193</del>	<del>176</del>	<del>159</del>	<del>147</del>	<del>139</del>	<del>130</del>	<del>126</del>	<del>125</del>	<del>123</del>	<del>-160</del>
Avg. Daily Gain	<del>lbs./day</del>	<del>3.01</del>	<del>3.18</del>	<del>3.31</del>	<del>3.37</del>	<del>3.52</del>	<del>3.59</del>	<del>3.56</del>	<del>3.73</del>	<del>3.60</del>	<u>3.99</u>	<del>3.41</del>
Feed Gain Ratio	<del>lbs.</del>	<u>5.92</u>	<u>5.89</u>	<u>5.99</u>	<del>6.06</del>	<u>6.22</u>	<del>6.20</del>	<del>6.35</del>	<del>6.87</del>	<u>8.97</u>	<del>11.14</del>	<del>6.15</del>
Sick Head Days	<del>%</del>	0.72	<del>1.14</del>	<del>1.19</del>	<del>1.01</del>	<del>0.90</del>	<del>0.73</del>	<del>1.10</del>	<del>2.54</del>	<del>6.80</del>	4. <del>69</del>	<del>1.04</del>
Death Loss	<del>%</del>	2.32	2.26	<del>1.91</del>	<del>1.28</del>	<del>1.26</del>	<del>1.12</del>	<del>1.20</del>	<del>3.55</del>	<del>11.11</del>	<del>12.61</del>	<del>1.64</del>
Set COG	<del>\$/ewt</del>	72.34	<del>71.44</del>	72.84	<del>73.58</del>	<del>75.53</del>	<del>75.75</del>	<del>77.31</del>	<del>81.96</del>	<del>102.86</del>	<del>108.94</del>	<del>74.68</del>
Return	<del>\$/hd.</del>	<del>12.92</del>	<del>11.36</del>	-2.44	<del>0.45</del>	<del>19.67</del>	<del>11.43</del>	-11.27	<del>22.36</del>	<del>17.66</del>	<del>-116.68</del>	<del>6.46</del>
Count	pens	<del>33</del>	<del>35</del>	<del>61</del>	<del>64</del>	<del>70</del>	<del>51</del>	<del>50</del>	<del>17</del>	<del>1</del>	2	<del>384</del>
	head	<del>2219</del>	<del>2357</del>	<del>4504</del>	<del>4696</del>	<del>5459</del>	<del>3701</del>	<del>3045</del>	<del>864</del>	<del>40</del>	<del>68</del>	<del>26953</del>
<del>Sale Barn Origin</del>												
Purchase Weight	lbs.	<del>509.05</del>	<del>575.90</del>	<del>623.54</del>	<del>670.14</del>	725.40	778.07	<u>821.82</u>	<del>880.31</del>	<del>925.57</del>	<del>975.67</del>	<del>669.29</del>
In Weight	lbs.	4 <del>86.27</del>	<del>551.79</del>	<del>601.47</del>	<del>641.13</del>	<del>692.86</del>	<del>745.98</del>	<del>788.00</del>	<del>848.85</del>	<del>888.62</del>	<del>952.39</del>	<del>641.76</del>
Shrink	<del>%</del>	4.47	<u>-4.19</u>	-3.53	<del>-4.33</del>	4.47	4.13	4.11	-3.57	-4.00	<u>-2.39</u>	4.13
Sale Weight	lbs.	<del>1117.55</del>	<del>1133.76</del>	<del>1133.54</del>	<del>1162.56</del>	<del>1199.10</del>	<del>1240.59</del>	<del>1295.31</del>	<del>1321.44</del>	<del>1424.70</del>	<del>1498.56</del>	<del>1180.61</del>
Days on Feed	<del>days</del>	<del>215</del>	<del>188</del>	<del>175</del>	<del>164</del>	<del>152</del>	<del>138</del>	<del>133</del>	<del>127</del>	<del>123</del>	<del>117</del>	<del>168</del>
Avg. Daily Gain	lbs./day	<del>2.94</del>	<del>3.10</del>	<del>3.04</del>	<del>3.18</del>	<del>3.33</del>	<del>3.59</del>	<del>3.80</del>	<del>3.71</del>	<del>4.39</del>	<del>4.69</del>	<del>3.26</del>
Feed-Gain Ratio	lbs.	<del>6.05</del>	<del>6.03</del>	<del>6.18</del>	<del>6.56</del>	<del>6.55</del>	<del>6.56</del>	<del>6.53</del>	<del>6.54</del>	7.34	<del>6.09</del>	<del>6.36</del>
Sick Head Days	<del>%</del>	0.82	1.08	<del>1.48</del>	<del>1.71</del>	<del>1.52</del>	<del>1.60</del>	<del>1.82</del>	<del>3.25</del>	<del>0.70</del>	<del>0.84</del>	<del>1.49</del>
Death Loss	<del>%</del>	<del>3.14</del>	2.25	<del>3.24</del>	<del>4.37</del>	<del>3.07</del>	<del>3.05</del>	2.28	<del>1.51</del>	<del>3.74</del>	0.00	<del>3.15</del>
Set COG	<del>\$/ewt</del>	<del>73.26</del>	<del>72.46</del>	<del>74.36</del>	77.15	<del>76.47</del>	<del>75.94</del>	<del>75.75</del>	<del>76.12</del>	<del>83.59</del>	72.47	<del>75.26</del>
Return	<del>\$/hd.</del>	0.22	-100.09	-60.22	<del>-133.90</del>	<del>-98.68</del>	<u>-42.70</u>	<del>32.94</del>	<del>-9.60</del>	<del>-53.76</del>	<del>232.95</del>	<del>-66.50</del>
Count	<del>pens</del>	<del>33</del>	<del>26</del>	<del>35</del>	4 <del>5</del>	<del>32</del>	23	<del>16</del>	14	8	4	<del>236</del>
-	head	<del>2015</del>	<del>1888</del>	<del>2526</del>	<del>3016</del>	<del>1835</del>	<del>1602</del>	<del>694</del>	<del>687</del>	223	<del>88</del>	<del>14574</del>

Parameter	Estimate	Standard Error
Intercept	-782.08***	108.19
Returning Customer	4.63**	2.06
Occasional Customer	-4.13*	2.38
Country Origin	2.87**	1.28
Other Origin	7.18	4.47
Heifers	18.03***	1.93
Close Out Month		
January	-1.62	2.28
February	1.29	2.53
March	-6.30**	2.77
April	5.06*	2.89
May	3.66	3.06
June	5.91**	2.54
July	10.94***	2.22
August	6.47***	2.42
October	0.41	2.63
November	5.84**	2.52
December	5.06*	2.91
Performance		
Cost of Gain	-5.45***	0.02
Feeder Price	-7.50***	0.03
Live Price	12.84***	0.05
Days on Feed	2.10***	0.25
In Weight	0.57***	0.13
In Weight Squared	-3.1E-04***	0.00
Sale Weight	0.18	0.14
Sale Weight Squared	-1.5E-04***	0.00
Shrink	-10.94***	0.36
Death Loss	-3.32***	0.27
Average Daily Gain	64.77***	11.13

Table 9. Returns per Head, Mixed Linear Model Parameter Estimates

Significance at 1% \*\*\*, 5% \*\*, 10% \*

Parameter estimates weighted by head count at close out

Intercept $6.5236^{***}$ $0.2163$ Returning Customer $0.0509^{***}$ $0.00981$ Occasional Customer $0.0614^{***}$ $0.01404$ Country Origin $0.0251^{***}$ $0.00872$ Other Origin $-0.1425^{***}$ $0.02798$ Heifer $-0.2615^{***}$ $0.011$ Close Out Month $0.907^{***}$ $0.0153$ January $0.0907^{***}$ $0.0153$ February $-0.0299^{**}$ $0.0159$ March $-0.0958^{***}$ $0.0162$ April $-0.1347^{***}$ $0.0154$ May $-0.1125^{***}$ $0.0151$ June $-0.0456^{***}$ $0.0141$ July $0.0025$ $0.0128$ August $0.0032$ $0.0141$ October $0.0234$ $0.0143$ December $0.1124^{***}$ $0.0152$ Feedlot Performance $Days$ on Feed $-2.14E-7^{***}$ $0.0004$ In Weight $0.0045^{***}$ $0.0186$ Feed-Gain Ratio $-0.6328^{***}$ $0.0106$ Sick Head Days $-0.0045^{***}$ $0.0026$	Parameter	Estimate	Standard Error
Occasional Customer $0.0614^{***}$ $0.01404$ Country Origin $0.0251^{***}$ $0.00872$ Other Origin $-0.1425^{***}$ $0.02798$ Heifer $-0.2615^{***}$ $0.011$ Close Out Month $-0.2615^{***}$ $0.011$ January $0.0907^{***}$ $0.0153$ February $-0.0299^{*}$ $0.0159$ March $-0.0958^{***}$ $0.0162$ April $-0.1347^{***}$ $0.0154$ May $-0.1125^{***}$ $0.0151$ June $-0.0456^{***}$ $0.0141$ July $0.0025$ $0.0128$ August $0.0032$ $0.0141$ October $0.0234$ $0.0143$ December $0.0124^{***}$ $0.0152$ Feedlot Performance $V$ $V$ Days on Feed $-0.0055^{***}$ $0.0004$ In Weight $0.0016^{***}$ $0.0006$ Shrink $0.0482^{***}$ $0.0023$ Feed-Gain Ratio $-0.6328^{***}$ $0.0186$ Feed-Gain Ratio Squared $0.0208^{***}$ $0.0010$	Intercept	6.5236***	0.2163
Country Origin $0.0251^{***}$ $0.00872$ Other Origin $-0.1425^{***}$ $0.02798$ Heifer $-0.2615^{***}$ $0.011$ Close Out Month $-0.2615^{***}$ $0.011$ January $0.0907^{***}$ $0.0153$ February $-0.0299^{*}$ $0.0159$ March $-0.0958^{***}$ $0.0162$ April $-0.1347^{***}$ $0.0154$ May $-0.1125^{***}$ $0.0151$ June $-0.0456^{***}$ $0.0141$ July $0.0025$ $0.0128$ August $0.0032$ $0.0141$ October $0.0234$ $0.0143$ December $0.0121^{***}$ $0.0143$ December $0.0125^{***}$ $0.0004$ In Weight $0.0016^{***}$ $0.0004$ In Weight Squared $-2.14E.7^{***}$ $0.0000$ Shrink $0.0482^{***}$ $0.0023$ Feed-Gain Ratio $-0.6328^{***}$ $0.0186$	Returning Customer	0.0509***	0.00981
Other Origin-0.1425***0.02798Heifer-0.2615***0.011Close Out Month	Occasional Customer	0.0614***	0.01404
Heifer-0.2615***0.011Close Out Month	Country Origin	0.0251***	0.00872
Close Out Month       0.0907***       0.0153         January       0.0299*       0.0159         March       -0.0958***       0.0162         April       -0.1347***       0.0154         May       -0.1125***       0.0151         June       -0.0456***       0.0141         July       0.0025       0.0128         August       0.0032       0.0141         October       0.0234       0.0143         December       0.1124***       0.0152         Feedlot Performance       U       U         Days on Feed       -0.0055***       0.0004         In Weight       0.00482***       0.0003         Shrink       0.0482***       0.0023         Feed-Gain Ratio       -0.6328***       0.0186	Other Origin	-0.1425***	0.02798
January0.0907***0.0153January-0.0299*0.0159March-0.0958***0.0162April-0.1347***0.0154May-0.1125***0.0151June-0.0456***0.0141July0.00250.0128August0.00320.0141October0.0621***0.0143December0.1124***0.0152Feedlot PerformanceUDays on Feed-0.0055***0.0004In Weight0.00482***0.0000Shrink0.0482***0.0023Feed-Gain Ratio-0.6328***0.0010	Heifer	-0.2615***	0.011
February-0.0299*0.0159March-0.0958***0.0162April-0.1347***0.0154May-0.1125***0.0151June-0.0456***0.0141July0.00250.0128August0.00320.0141October0.02340.0143December0.0621***0.0143December0.0128***0.0004In Weight0.0016***0.0004In Weight Squared-2.14E-7***0.0000Shrink0.0482***0.0023Feed-Gain Ratio-0.6328***0.0010	Close Out Month		
March-0.0958***0.0162April-0.1347***0.0154May-0.1125***0.0151June-0.0456***0.0141July0.00250.0128August0.00320.0141October0.02340.0143November0.0621***0.0143December0.1124***0.0152Feedlot PerformanceUUDays on Feed-0.0055***0.0004In Weight0.0046***0.0000Shrink0.0482***0.0023Feed-Gain Ratio-0.6328***0.0186Feed-Gain Ratio Squared0.0208***0.0010	January	0.0907***	0.0153
April-0.1347***0.0154May-0.1125***0.0151June-0.0456***0.0141July0.00250.0128August0.00320.0141October0.02340.0148November0.0621***0.0143December0.1124***0.0152Feedlot PerformanceUUDays on Feed-0.0055***0.0004In Weight0.0016***0.0000Shrink0.0482***0.0023Feed-Gain Ratio-0.6328***0.01186Feed-Gain Ratio Squared0.0208***0.0010	February	-0.0299*	0.0159
Nay-0.1125***0.0151June-0.0456***0.0141July0.00250.0128August0.00320.0141October0.02340.0148November0.0621***0.0143December0.1124***0.0152Feedlot PerformanceUUDays on Feed-0.0055***0.0004In Weight0.0016***0.0004In Weight Squared-2.14E-7***0.0000Shrink0.0482***0.0023Feed-Gain Ratio-0.6328***0.0116	March	-0.0958***	0.0162
June-0.0456***0.0141July0.00250.0128August0.00320.0141October0.02340.0148November0.0621***0.0143December0.1124***0.0152Feedlot Performance00Days on Feed-0.0055***0.0004In Weight0.0016***0.0000Shrink0.0482***0.0023Feed-Gain Ratio-0.6328***0.0186Feed-Gain Ratio Squared0.0208***0.0010	April	-0.1347***	0.0154
July0.00250.0128August0.00320.0141October0.02340.0148November0.0621***0.0143December0.1124***0.0152Feedlot PerformanceUUDays on Feed-0.0055***0.0004In Weight0.0016***0.0004In Weight Squared-2.14E-7***0.0000Shrink0.0482***0.0023Feed-Gain Ratio-0.6328***0.0186Feed-Gain Ratio Squared0.0208***0.0010	May	-0.1125***	0.0151
August0.00320.0141October0.02340.0148November0.0621***0.0143December0.1124***0.0152Feedlot Performance000055***0.0004In Weight0.0016***0.00040.0004In Weight Squared-2.14E-7***0.0000Shrink0.0482***0.0023Feed-Gain Ratio-0.6328***0.0186Feed-Gain Ratio Squared0.0208***0.0010	June	-0.0456***	0.0141
October         0.0234         0.0148           November         0.0621***         0.0143           December         0.1124***         0.0152           Feedlot Performance         0         0           Days on Feed         -0.0055***         0.0004           In Weight         0.0016***         0.0004           In Weight Squared         -2.14E-7***         0.0000           Shrink         0.0482***         0.0023           Feed-Gain Ratio         -0.6328***         0.0186           Feed-Gain Ratio Squared         0.0208***         0.0010	July	0.0025	0.0128
November         0.0621***         0.0143           December         0.1124***         0.0152           Feedlot Performance         -0.0055***         0.0004           Days on Feed         -0.0016***         0.0004           In Weight         0.0016***         0.0000           Shrink         0.0482***         0.0023           Feed-Gain Ratio         -0.6328***         0.0186           Feed-Gain Ratio Squared         0.0208***         0.0010	August	0.0032	0.0141
December         0.1124***         0.0152           Feedlot Performance         -0.0055***         0.0004           Days on Feed         -0.0016***         0.0004           In Weight         0.0016***         0.0000           In Weight Squared         -2.14E-7***         0.0000           Shrink         0.0482***         0.0023           Feed-Gain Ratio         -0.6328***         0.0186           Feed-Gain Ratio Squared         0.0208***         0.0010	October	0.0234	0.0148
Feedlot Performance         0.0055***         0.0004           Days on Feed         -0.0055***         0.0004           In Weight         0.0016***         0.0004           In Weight Squared         -2.14E-7***         0.0000           Shrink         0.0482***         0.0023           Feed-Gain Ratio         -0.6328***         0.0186           Feed-Gain Ratio Squared         0.0208***         0.0010	November	0.0621***	0.0143
Days on Feed-0.0055***0.0004In Weight0.0016***0.0004In Weight Squared-2.14E-7***0.0000Shrink0.0482***0.0023Feed-Gain Ratio-0.6328***0.0186Feed-Gain Ratio Squared0.0208***0.0010	December	0.1124***	0.0152
In Weight         0.0016***         0.0004           In Weight Squared         -2.14E-7***         0.0000           Shrink         0.0482***         0.0023           Feed-Gain Ratio         -0.6328***         0.0186           Feed-Gain Ratio Squared         0.0208***         0.0010	Feedlot Performance		
In Weight Squared       -2.14E-7***       0.0000         Shrink       0.0482***       0.0023         Feed-Gain Ratio       -0.6328***       0.0186         Feed-Gain Ratio Squared       0.0208***       0.0010	Days on Feed	-0.0055***	0.0004
Shrink         0.0482***         0.0023           Feed-Gain Ratio         -0.6328***         0.0186           Feed-Gain Ratio Squared         0.0208***         0.0010	In Weight	0.0016***	0.0004
Feed-Gain Ratio-0.6328***0.0186Feed-Gain Ratio Squared0.0208***0.0010	In Weight Squared	-2.14E-7***	0.0000
Feed-Gain Ratio Squared0.0208***0.0010		0.0482***	0.0023
	Feed-Gain Ratio	-0.6328***	0.0186
Sick Head Days -0.0045* 0.0026	Feed-Gain Ratio Squared	0.0208***	0.0010
,	Sick Head Days	-0.0045*	0.0026

Table 10. Average Daily Gain, Mixed Linear Model Parameter Estimates

Significance at 1% \*\*\*, 5% \*\*, 10% \*

Parameter estimates weighted by head count at close out

Table 11. Death Loss, Mixed Linear Model Parameter Estimates

Parameter	Estimate	Standard Error
Intercept	-14.1496***	1.5326
Returning Customer	-0.0690	0.0598
Occasional Customer	-0.1062	0.0805
Country Origin	-0.2684***	0.0477
Other Origin	-0.0946	0.1310
Heifer	-1.1767***	0.0753
Close Out Month		
January	-0.5514***	0.0779
February	-0.7313***	0.0981
March	-0.7328***	0.1056
April	0.1491	0.1149
May	0.3293***	0.1253
June	0.5237***	0.0911
July	0.3254***	0.0764
August	0.0639	0.0781
October	-0.0450	0.0796
November	-0.3362***	0.0790
December	-0.4486***	0.0821
Feedlot Performance		
Days on Feed	-0.0078***	0.0025
In Weight	-0.0268***	0.0027
In Weight Squared	7.086E-6***	0.0000
Shrink	-0.2353***	0.0141
Feed-Gain Ratio	5.0043***	0.1521
Feed-Gain Ratio Squared	-0.1198***	0.0085
Average Daily Gain	2.1099***	0.0876
Sick Head Days	0.7317***	0.0235

Significance at 1% \*\*\*, 5% \*\*, 10% \*

Parameter estimates weighted by head count at close out

Table 12. Returns per Head Ordered Logit, Odds Ratio Estimates	Table 12. Returns	per Head Or	rdered Logit,	Odds Ratio	Estimates
--	-------------------	-------------	---------------	------------	-----------

Parameters	Point		Confidence
	Estimate	Limits	
Country vs. Sale Barn Origin	1.03	0.86	1.24
Other vs. Sale Barn Origin	1.01	0.63	1.62
Returning Customer vs. Firm Ownership	1.28	1.05	1.56
Occasional Customer vs. Firm Ownership	1.04	0.81	1.34
Heifers vs. Steers	1.76	1.35	2.31
Close Out Month, x vs. September			
January	0.70	0.51	0.98
February	0.74	0.52	1.06
March	0.70	0.49	1.01
April	1.07	0.75	1.53
May	1.00	0.71	1.42
June	1.11	0.78	1.57
July	1.46	1.06	2.00
August	1.20	0.86	1.69
October	0.99	0.70	1.40
November	0.97	0.68	1.39
December	1.16	0.82	1.66
Market Parameters			
Cost of Gain	0.76	0.75	0.77
Feeder Price	0.68	0.67	0.69
Live Price	1.91	1.86	1.96
Feedlot Performance			
Days on Feed	1.04	1.01	1.07
In Weight	0.99	0.98	1.01
Sale Weight	1.01	0.99	1.03
Shrink	0.56	0.54	0.59
Average Daily Gain	3.31	0.96	11.42
Feed-Gain Ratio	0.60	0.40	0.90
Death Loss	0.81	0.78	0.84



