Feedlot Performance and Carcass Traits for Southeast or Midwest Calves

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Tri-County Steer Carcass Futurity (TCSCF)

- 1982 35 lowa consignors 106 steers
- What is the most profitable steer in the feedlot?
- Ten member board has oversight of cattle fed at 10 different feedlots
- Each year identify problems facing cowcalf producers that they can help solve









Materials & Methods

- N=47,526 steer and heifer calves from 19 states
- Consigned to the Iowa Tri-County Steer Carcass Futurity (TCSCF) from 2002–09
- 19 states represented
 - 7 Midwest states (n=16,371) from IL, IN, IA, KS, MO, NE, OK
 - 12 Southeast states (n=31,155) from AL, AR, FL, GA, KY, LA, MS, NC, SC, TN, VA, WV
- Minimum 28 day preconditioning period prior to feedlot delivery







Materials & Methods

- Cattle were fed at 18 different feedlots
 - Fed a common dietary energy level
 - Administered similar implant and health protocols
- Depending on distance hauled, vaccinated, weighed, implanted and body condition scored within 4 days of arrival
- Weighed on test after 28 to 35 days on feed
- Disposition scored 3 or 4 times
- Average Daily Gain (ADG)
- determined from initial weight (within 4 days of arrival) to harvest weight
- · Feed to Gain (F:G)
- determined using the Cornell Net Carbohydrate Model









Materials & Methods

- Consignors submitted birth dates, breed of sire and breed of dam information
- Delivery value of calf determined by USDA AMS reporter in home state
- · Feedlots recorded health treatments
- All death losses were posted by a veterinarian
- Cattle were harvested when visually evaluated to have 1 cm of external fat cover
- · USDA and detailed carcass measures recorded







Materials & Methods

 Lot CAB® acceptance rates was based on the "new" CAB® requirements

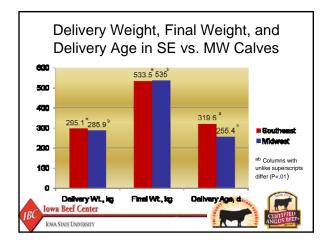


Iowa Beef Center

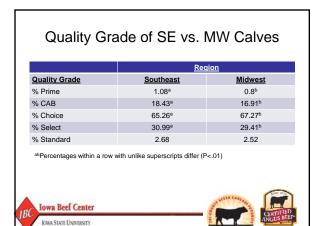
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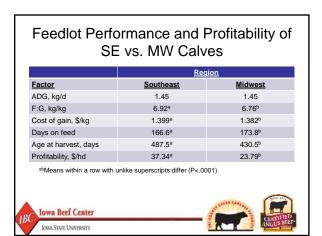






Morbidity, Mortality, and Treatment Cost of SE vs. MW Calves Southeast Midwest Number of times treated 0.23a 0.35b 15.81ª 22.11b Mortality Rate. % 1.35a 1.81b Treatment Cost, \$/hd 5.53a 8.49b ^{ab}Values within a row with unlike superscripts differ (P<.0001)









Conclusions

- Southeastern vs. Midwestern calves:
 - Were older and heavier at delivery
 - Had fewer health problems
 - Had similar ADG
 - Had higher CAB® acceptance rate
 - Were more profitable





