



**NEWS / BEEF PRODUCTION** 

# The Cowboy Math of Mature Cow Size and Calf Revenue Generated



(NDSU)

By MARK Z. JOHNSON June 19, 2024









I recently attended the 2024 Beef Improvement Federation meetings in Knoxville, TN. Interesting topics covered by an excellent panel of speakers from which I pull some information together for this week's topic. Did you know?

- The U.S. cow herd has been steadily increasing in mature weight for several decades. Excess mature weight of cows has several downsides. The focus of this article is its impact on profitability in commercial cow-calf operations.
- For each 100 head of 1,000-pound cows you could run in your cow-calf operation, the same forage base (and feed input cost) would sustain 71 head of 1,400-pound cows.
- For each 100-pound increase in mature weight, cows average approximately 10 more pounds of calf weaning weight produced.

# The Cowboy Math

For the sake of this article, some assumptions are necessary, these are:

- the 1,000-pound cows will wean calves weighing 450 pounds
- a value of \$3.00/pound for calf weaning weight
- a 90% calf crop weaned for both groups of cows

Therefore, the 100 head of 1,000-pound cows will wean 40,500 pounds of calf pay weight with a total value of \$121,500. For example: (100 cows x 90% x 450 pounds x \$3 per pound)

The 71 head of 1,400-pound cows will wean 64 calves weighing 490 pounds for a total of 31,360 pounds of calf pay weight with a total value of \$94,080. (71 cows x 90% rounded up to 64 calves) x 490 (assuming an extra 10 pounds of weaning eight per 100 pounds of mature cow weight) x \$3 per pound.

# **Bottomline**

Yes, the Cowboy Math tells us the same forage base and feed cost could result in \$27,420 more revenue generated annually. No, the 490 pound (heavier) weaned calves will not be worth as much per pound as the 450-pound calves. Taking that into account would exaggerate the difference in revenue generated to the advantage of the more moderate size cows.

This fall at weaning I encourage producers to weigh your cows and your calves. Those measurements can help to determine if excess mature cow weight is robbing profit potential from your operation.

#### **References:**

Beef Improvement Federation Symposium. Cow Longevity: Economics & Genetic Solutions. Dr. Bob Weaber. June 11, 2024

Beef Improvement Federation Symposium. The Full Picture of Cow Efficiency. Dr. David Lalman. June 11, 2024

### **TAGS**

Beef - General cow-calf rancher Beef Cattle



# Beefing Up Tomorrow: Next-Gen Strategies

Explore next-gen livestock insights in exclusive whitepapers from experts on topics like farm succession planning, investment strategies, and more.

**DISCOVER NOW** 

#### LATEST NEWS

**INDUSTRY**