# SEE A DIFFERENCE IN YOUR HERD AND YOUR BUTTOMINE





# IMPLANTS HAVE A \$3 BILLION TOTAL VALUE TO THE BEEF INDUSTRY PER YEAR.2\*

\$74/steer value added from implant for non-confined steers.3\*\* \$132/steer value added from implant for confined steers.4<sup>t</sup>

THE USE OF IMPLANTS ENABLES PRODUCERS TO COST EFFECTIVELY IMPROVE ANIMAL GROWTH RATES, FEED EFFICIENCIES AND LEAN MUSCLE MASS.

**Implanting cattle increases** their rate of gain

& improves feed efficiency

Regardless of cattle weight or feedlot capacity, about 90% of feedlot heifers and steers were implanted at least once according to the 2013 NAHMS feedlot study.1



## **MECHANISMS OF ACTION:**

There are three main types of implants utilized:7

- ESTROGENIC

(estrogenic and androgenic compounds)

### With more than **400 STUDIES** on record and over

**50 YEARS** 

in commercial use, implants have been proven to be safe for the food chain.



#### **SAFETY:**

There is no required withdrawal period before harvest of implanted cattle. Beef from implanted cattle has very low levels of estrogenic activity compared to many other common foods.8

FOOD	<b>ESTROGENIC ACTIVITY</b> nanograms per 3 oz. serving of food
Beef from non-implanted cattle	1.2
Beef from implanted cattle	1.9
Potatoes	225
Soy milk	11,250,000

#### **SUSTAINABILITY:**

As greater amounts of protein are needed to feed a growing population, technologies that increase lean tissue production will become increasingly important.

If U.S. beef farmers and ranchers did not use productivity-enhancing technologies to produce the same amount of beef currently available, they would.9

- NEED 10 MILLION MORE CATTLE IN THE U.S. BEEF HERD.
- NEED 81 MILLION MORE TONS OF FEED ANNUALLY.
- PRODUCE 18 MILLION MORE METRIC TONS OF CO<sub>2</sub> EQUIVALENTS.

<sup>1</sup>Assumes 110 lbs live weight gain x \$1.20/lb = \$132 of additional value.

<sup>1</sup>Based upon 2021 public search for beef cattle implants in pubmed.gov resulting in 415 results

1Aphis.usda.gov."The use of growth-promoting implants in U.S. feedlots." 2013. Available: https://www.aphis.usda.gov/animal\_health/nahms/feedlot/downloads/feedlot2011/Feed11\_is\_Implant\_1.pdf. Accessed: Jan. 23, 2021 2"Livestock Slaughter January 23." USDA. National Agricultural Statistics Service.

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\*Preston, R. 1997. "Rationale for the safety of implants." In: Symposium: Impact of implants on performance and carcass value of beef cattle. Oklahoma Agricultural Experiment Station P-957. pp. 199-203.

