

PROFITABILITY AND SUSTAINABILITY OF COWS THROUGH GENOMICS

Farmers continue to find ways to run profitable farms with healthy herds, all through more sustainable practices. In this genomic study, our farms were able to prove how you can use tools — like CLARIFIDE® Plus — to do both.



Project Partners



Summary

Genomic testing

- 8 Edge & FSF farms participated
- Animals born in 2015 were genomically tested as heifers
- Goal: Understanding how predictions on heifers for Dairy Wellness Profit Index® (DWP\$®) relates to health, herd life and estimated lifetime profit and methane intensity of cows
- Dairy cattle methane production was estimated based on Energy Corrected Milk and expressed in Metric tons

8

FARMS

NEARLY
4,000

ANIMALS STUDIED

7

YEARS

HOW:

CLARIFIDE® Plus is the first genomic test in the U.S. that delivers information on all eight cow wellness traits including mastitis, lameness, etc. in one comprehensive offering. These genetic predictions are based on data from millions of health records within U.S. commercial herds.

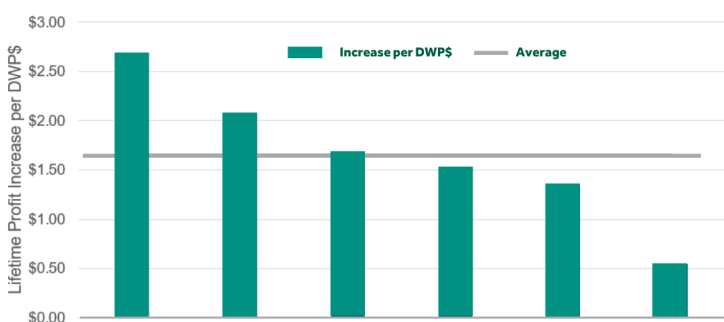


AVERAGE LIFETIME PROFIT ALL COWS BORN IN 2015



Lifetime Profit = production income over feed cost + calf sales + salvage value – heifer rearing costs – breeding costs – disease costs – genomic cost – other daily costs

LIFETIME PROFIT-RESPONSE TO INCREASING DWP\$®



AVG. \$1.65 MORE PROFIT FOR EVERY \$1.00 DWP\$® INCREASES

15.8 METRIC TONS OF METHANE REDUCED!



ON AVERAGE PER 1,000 COWS ANNUALLY

EQUIVALENT METRICS



85 cars removed from the roads per year (980,471 total miles driven)



17,130 trash bags of waste recycled instead of placed in a landfill



Equivalent Carbon sequestered by 468 acres of US forests per year