

CONVERSION from NO Mineral Supplementation to Commercial Mineral Mix Supplementation – Per Cow/Year, Hawaii County

POSITIVE EFFECTS of CONVERSION (per cow/year):

Added Returns:

1. Calf sales: 40 additional weaned calves per year @ 6 mos., 400#=> 160 cwt/200 cows=> 0.80 cwt/cow/year @ \$135/cwt=> \$108/cow/year

Reduced Costs:

1. Veterinary costs: total \$6,015 reduced by 10% or \$602/year=> \$602/200 head=> \$3.01/cow/year
2. Transportation and marketing of cull females: 17 head/year @ \$740/year=> \$740/200 cows=> \$3.70/cow/year

NEGATIVE EFFECTS of CONVERSION (per cow/year):

Reduced Returns:

1. Cull female sales: 17 cull females per year=> 17 head/200 cows=> 0.085 head/cow/year @ \$704/head=> \$59.84/cow/year

Increased Costs:

1. Commercial mineral mix: \$31.89/cow/year
2. Mineral labor: 42 hrs/year @ \$20/hr=> \$840/200 cows=> \$4.20/cow/year
3. Other expenses: \$300/year=> \$300/200 cows=> \$1.50/cow/year
4. Mineral bunks: 1 bunk/100 cows => 2 bunks @ \$500/bunk=> \$1,000/10 years=> \$100/year=> \$100/200 cows => \$0.50/cow/year
5. Opportunity interest (mineral bunks): \$500 average investment @ 7% interest=> \$35/year=> \$35/200 cows=> \$0.18/cow/year
6. Added management: 5 hrs/year @ \$50/hr = \$250/200 cows=> \$1.25/cow/year
7. Transportation and marketing of added calves: 40 head/year @ \$536/year=> \$536/200 cows=> \$2.68/cow/year



CONVERSION from NO Mineral Supplementation to Commercial Mineral Mix Supplementation – Total/Year, Hawaii County

POSITIVE EFFECTS of CONVERSION (total per year):

Added Returns:

1. Calf sales: $\$108/\text{cow}/\text{year} * 200 \text{ head} \Rightarrow \$21,600/\text{year}$

Reduced Costs:

1. Veterinary costs: $\$3.01/\text{cow}/\text{year} * 200 \text{ head} \Rightarrow \$602/\text{year}$
2. Transportation and marketing of cull females: $\$3.70/\text{cow}/\text{year} * 200 \text{ head} \Rightarrow \$740/\text{year}$

NEGATIVE EFFECTS of CONVERSION (total per year):

Reduced Returns:

1. Cull female sales: $\$59.84/\text{cow}/\text{year} * 200 \text{ head} \Rightarrow \$11,968/\text{year}$

Increased Costs:

1. Commercial mineral mix: $\$31.89/\text{cow}/\text{year} * 200 \text{ head} \Rightarrow \$6,378/\text{year}$
2. Mineral labor: $\$4.20/\text{cow}/\text{year} * 200 \text{ head} \Rightarrow \$840/\text{year}$
3. Other expenses: $\$1.50/\text{cow}/\text{year} * 200 \text{ head} \Rightarrow \$300/\text{year}$
4. Mineral bunks: $\$0.50/\text{cow}/\text{year} * 200 \text{ head} \Rightarrow \$100/\text{year}$
5. Opportunity interest (mineral bunks): $\$0.18/\text{cow}/\text{year} * 200 \text{ head} \Rightarrow \$36/\text{year}$
6. Added management: $\$1.25/\text{cow}/\text{year} * 200 \text{ head} \Rightarrow \$250/\text{year}$
7. Transportation and marketing of added calves: $\$2.68/\text{cow}/\text{year} * 200 \text{ head} \Rightarrow \$536/\text{year}$

