

## CONVERSION from Commercial Mineral Mix to Individual Free-Choice Mineral Supplementation – Per Cow/Year, Kauai County

### POSITIVE EFFECTS of CONVERSION (per cow/year):

#### Added Returns:

#### Reduced Costs:

1. Commercial mineral mix: \$31.89/head/year
2. Mineral labor: 104 hrs/year @ \$20/hr=> \$2,080/500 cows=> \$4.16/cow/year
3. Other expenses: \$750/year=> \$750/500 cows=> \$1.50/cow/year

### NEGATIVE EFFECTS of CONVERSION (per cow/year):

#### Reduced Returns:

#### Increased Costs:

1. Free-choice mineral mix: \$13.10/cow/year
2. Mineral labor: 156 hrs/year @ \$20/hr=> \$3,120/500 cows=> \$6.24/cow/year
3. Other expenses: \$1,000/year=> \$1,000/500 cows=> \$2.00/cow/year
4. Mineral bunks: 1 bunk/100 cows=> 5 bunks @ \$1,000/bunk=> \$5,000/10 years=> \$500/year=> \$500/500 cows => \$1.00/cow/year
5. Opportunity interest (mineral bunks): \$2,500 average investment @ 7% interest=> \$175/year=> \$175/500 cows=> \$0.35/cow/year
6. Added management: 10 hrs/year @ \$50/hr=> \$500/500 cows=> \$1.00/cow/year



## CONVERSION from Commercial Mineral Mix to Individual Free-Choice Mineral Supplementation – Total/Year, Kauai County

### POSITIVE EFFECTS of CONVERSION (total per year):

#### Added Returns:

#### Reduced Costs:

1. Commercial mineral mix:  $\$31.89/\text{head}/\text{year} * 500 \text{ head} \Rightarrow \$15,945/\text{year}$
2. Mineral labor:  $104 \text{ hrs}/\text{year} @ \$20/\text{hr} \Rightarrow \$2,080/\text{year}$
3. Other expenses:  $\$750/\text{year} \Rightarrow \$750/\text{year}$

### NEGATIVE EFFECTS of CONVERSION (total per year):

#### Reduced Returns:

#### Increased Costs:

1. Free-choice mineral mix:  $\$13.10/\text{cow}/\text{year} * 500 \text{ head} \Rightarrow \$6,550/\text{year}$
2. Mineral labor:  $156 \text{ hrs}/\text{year} @ \$20/\text{hr} \Rightarrow \$3,120/\text{year}$
3. Other expenses:  $\$1,000/\text{year} \Rightarrow \$1,000/\text{year}$
4. Mineral bunks:  $1 \text{ bunk}/100 \text{ cows} \Rightarrow 5 \text{ bunks} @ \$1,000/\text{bunk} \Rightarrow \$5,000/10 \text{ years} \Rightarrow \$500/\text{year}$
5. Opportunity interest (mineral bunks):  $\$2,500 \text{ average investment} @ 7\% \text{ interest} \Rightarrow \$175/\text{year}$
6. Added management:  $10 \text{ hrs}/\text{year} @ \$50/\text{hr} \Rightarrow \$500/\text{year}$

