

CONVERSION from Cow/Calf Only to Cow/Calf with Grass-Finish Beef – per Cow/Year, Hawaii County

POSITIVE EFFECTS of CONVERSION (per cow/year):

Added Returns:

1. Grass-finish weaned calf sales: 100 carcasses @ 648 lbs/300 cows = 216 lbs/cow @ \$1.90/lb

Reduced Costs:

1. Veterinary costs (200 cows+10 bulls): \$10/head/year=> \$2,100/year=> \$2,100/300 cows => \$7/cow/year
2. Mineral costs (200 cows+10 bulls): \$34.66/head/year=> \$7,279/year=> \$7,279/300 cows => \$24.26/cow/year
3. Water costs (200 cows+10 bulls): 12gal/d/hd=> 919.8Tgal @ \$1.20=> \$1,104/year=> \$1,104/300 cows=> \$3.68/cow/year
4. Bull costs: 10 bulls @ \$1,500=> \$15,000/6 years = \$2,500/year=> \$2,500/300 cows=> \$8.33/cow/year
5. Opportunity interest on bulls: \$2,500/year @ 7% interest=> \$175/year => \$175/300 cows=> \$0.58/cow/year

NEGATIVE EFFECTS of CONVERSION (per cow/year):

Reduced Returns:

1. Farm-gate weaned calf sales: 375-125= 250 calves @ 400 lbs/300 cows = 3.3 cwt/cow @ \$94.40/cwt

Increased Costs:

1. Veterinary costs, 1st cohort: \$15/hd/18 mos.=> \$1,500/1.5yrs=> \$1,000/year=> \$1,000/300 cows=> \$3.33/cow/year
2. Mineral costs, 1st cohort: \$51.99/hd/18 mos.=> \$5,199/1.5yrs=> \$3,466/year=> \$3,466/300 cows=> \$11.55/cow/year
3. Water costs, 1st cohort: 12gal/d/hd=>438Tgal @ \$1.20=> \$526/year=> \$526/300 cows=> \$1.75/cow/year
4. Veterinary costs, 2nd cohort: \$15/hd/18 mos.=> \$1,500/1.5yrs=> \$1,000/year=> \$1,000/300 cows=> \$3.33/cow/year
5. Mineral costs, 2nd cohort: \$51.99/hd/18 mos.=> \$5,199/1.5yrs=> \$3,466/year=> \$3,466/300 cows=> \$11.55/cow/year
6. Water costs, 2nd cohort: 12gal/d/hd=>438Tgal @ \$1.20=> \$526/year=> \$526/300 cows=> \$1.75/cow/year
7. Management costs: 10hrs/year @ \$50=> \$500/300 cows => \$1.67/cow/year



CONVERSION from Cow/Calf Only to Cow/Calf with Grass-Finish Beef – Total/Year, Hawaii County

POSITIVE EFFECTS of CONVERSION (total/year):

Added Returns:

1. Grass-finish weaned calf sales: 100 carcasses @ 648 lbs=> 64,800 lbs @ \$1.90/lb

Reduced Costs:

1. Veterinary costs (200 cows+10 bulls): \$10/head/year * 210 head => \$2,100/year
2. Mineral costs (200 cows+10 bulls): \$34.66/head/year * 210 head => \$7,279/year
3. Water costs (200 cows+10 bulls): 12gal * 365days * 210 head=> 919.8Tgal @ \$1.20=> \$1,104/year or \$5.26/head
4. Bull costs: 10 bulls @ \$1,500=> \$15,000/6 years = \$2,500/year or \$250/head
5. Opportunity interest on bulls: \$2,500/year @ 7% interest=> \$175/year or \$17.50/head

NEGATIVE EFFECTS of CONVERSION (total/year):

Reduced Returns:

1. Farm-gate weaned calf sales: 375-125= 250 calves @ 400 lbs=> 1,000 cwt @ \$94.40/cwt

Increased Costs:

1. Veterinary costs, 1st cohort: \$15/hd/18 mos.=> \$1,500/1.5yrs=> \$1,000/year or \$10/head
2. Mineral costs, 1st cohort: \$51.99/hd/18 mos.=> \$5,199/1.5yrs=> \$3,466/year or \$34.66/head
3. Water costs, 1st cohort: 12gal/d/hd=>438Tgal @ \$1.20=> \$526/year or \$5.26/head
4. Veterinary costs, 2nd cohort: \$15/hd/18 mos.=> \$1,500/1.5yrs=> \$1,000/year or \$10/head
5. Mineral costs, 2nd cohort: \$51.99/hd/18 mos.=> \$5,199/1.5yrs=> \$3,466/year or \$34.66/head
6. Water costs, 2nd cohort: 12gal/d/hd=>438Tgal @ \$1.20=> \$526/year or \$5.26/head
7. Management costs: 10hrs/year @ \$50=> \$500/year

