





volorinary bervice/Drugs	$\psi J 0.00$	
Marketing	\$8.00	
Util./Machine Costs/Facility		
Repairs	\$124.57	D:~1-
Bull Cost	\$50.00	K1SK
Cow Replacement	\$71.00	
Miscellaneous/ Fixed Costs	\$180.09	
Total Variable Costs/cow	\$857.52	or no
<b>Income Over Total Costs</b>	\$6.47	or po
Costs of Operation	\$28 588 10	1 fi
	\$30,300.40 \$20,970.55	с сепс
Income of Operation	\$38,879.33	
Profit of Operation	\$291.15	





Variable Cost	
Variable Cost Eagdor weight (1b)	125
Feeder weight (10)	423
(1b)	\$1.65
(IU) Total Fooder Cost	\$701.25
Iotal l'ecuci Cost	\$701.23
Days post weaning	366
Total Feed Cost	\$805.00
Other Costs	\$134.82
Total Variable Costs	\$1,641.07
Carcass weight	
Expected slaughter weight (lb)	1029
Death loss	0.75%
Steers dressing percentage	61%
Carcass weight	623
Expected carcass price (\$/lb)	\$3.20
Gross Income	\$1,993.60
Profit per head	\$352.53
Total Variable Cost of	
Operation	\$23,719.59
Protfit of Operation	\$33,782.40
Net Profit	\$10,062.81

College of Agriculture, Food and Natural Resources University of Missouri

MU Extension Integrated STEM Internship Program

# Artificial Insemination

![](_page_0_Picture_19.jpeg)

Opportunity: Higher Value Calves

Risk: Higher upfront cost with potentially low conception rates

## Direct Marketing

Cattle	\$2.10
Proccessing	\$0.65
Marketing	\$1.53
Transportaion to	
Proccessing plant	\$0.03
Transportaion to Retail	\$0.35
Storage Costs	\$0.36
Total cost	\$5.02
Revenue	\$5.50
Net Profit	\$0.48
	\$70,320.1
Total Operation Costs	6
	\$77,044.0
Total Operations Revenue	0
Net Operation Profit	\$6,723.84

![](_page_0_Picture_26.jpeg)

Opportunity: Chance for much higher local price by cutting out the middle man

Risk: Market Uncertainty, death loss cuts profits heavily

\*Average Farm includes 45 cows, accounting for 90% conception rate for 41 calves, keeping 4 replacement heifers, feeding 37 head, accounting for .75% death loss, equaling 34 head to slaughter.