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Southern Utah Grass-Fed Beef Production Costs and Returns, 2016

Kynda Curtis, Professor and Extension Specialist, Department of Applied Economics *Trevor Knudsen*, Graduate Research Assistant, Department of Applied Economics

Introduction

Sample costs and returns to raise grass-fed beef cattle for direct-to-consumer sales on small- scale operations in Southern Utah are presented in this publication. This publication is intended to be a guide used to make production decisions, determine potential returns, and prepare business and marketing plans. The practices described are not the recommendations of Utah State University, but rather the production practices and materials considered typical as determined by 2016 producer survey results. Costs, materials, and practices are not applicable to all situations as management and production practices vary among ranchers in the region.

Ranch Description Ranch

The representative ranch consists of 5 acres of land leased annually at \$500/acre (Realtor.com, 2016). The ranch leases an additional 10 acres of improved pasture land for weaned calf grazing from April to December at \$200/head (Neibergs and Nelson, 2009).

Livestock

livestock inventory consists of 12 cows and one bull. The weaned calf crop is 10, of which 5 are steers and 5 are heifers (92% calving rate and 9% death loss). Fall calving (mid-October) is practiced on the ranch. Calves are weaned in the spring and are put on improved pasture in mid-April at approximately 450 pounds. Calves (8) are slaughtered and prepared for customers in late December at a final live weight of 950 pounds along with two cull breeding cows of 1,200 pounds each. Two

of the heifer calves are retained and placed with breeding stock.

Production Practices Feed

The forage base for the ranch consists of grazing on federal land/leased pasture for breeding livestock at \$25/month per animal or \$300/head annually (Neibergs and Nelson, 2009). Calves also graze on federal land/leased pasture in the winter months at a 25% calf to cow ratio. Weaned calves are fed on improved pasture from April to December at a rate of \$200/head. Alfalfa pasture provides an ADG of 2 pounds per calf (Ringwall, 2012). Salt and mineral supplements are provided during the year at \$250/ton.

Veterinary/Medical

Total annual veterinary costs for breeding and weaned livestock are \$35 per head (Neibergs and Nelson, 2009).

Marketing

Calves are marketed through direct market channels such as farmers' markets, CSA programs, and individual ranch websites. Cull animals are marketed through wholesale channels. Annual marketing costs including website development, market fees, and transportation costs are calculated at \$100 per animal sold.

Labor

Labor includes one owner/manager who is paid out of net returns to the operation.

Livestock Pricing

Livestock pricing for grass-fed beef sold through direct markets averaged \$550/cwt for a dressed steer or heifer (USDA-AMS, 2016). As dressed weight is 63% (iGrow, 2013) of live weight at slaughter, a dressed weight of 600 pounds was used to calculate the \$3.60/pound live animal price for calves (see Table 1). Grass-fed cull cows were valued at \$2,400 each or \$2.00/pound wholesale in 2016 (USDA-AMSb, 2016). Registered Angus bulls sold for \$3,500 on average in 2016 (RanchWorldAds, 2016). All livestock is sold live and any processing fees would need to be paid by the buyer or added to the costs provided.

Ranch Investments Cash Overhead

Cash overhead consists of various cash expenses paid out during the year. These costs include property taxes, interest, office expenses, liability and property insurance, accounting/legal costs, as well as investment/machinery repairs (see Table 2).

Property Taxes. Property taxes in Utah differ across counties. For the purposes of this publication, property taxes on buildings are calculated at 1 percent of the average asset value of the property. Property taxes on land should be taken into consideration, but are not included here.

Insurance. Insurance on ranch investments vary, depending on the assets included and the amount of coverage. Property insurance provides coverage for property loss at .666 percent of the average asset value. Liability and crop insurance covers accidents and crop loss on the 5-acre ranch at an annual cost of \$250.

Fuel and Lube. The fuel and lube for machinery and vehicles is estimated at \$2,000 annually for the 5-acre ranch.

Maintenance. Annual repairs on all ranch investments or capital recovery items that require maintenance are calculated at 2 percent of the average asset value for buildings, improvements, and equipment and 7 percent of the average asset value for machinery and vehicles.

Office & Travel. Office and travel costs are estimated at \$1,000 for an average year for the 5-acre ranch. These expenses include office supplies (\$200), telephone/internet service (\$600), and educational workshops (\$200).

Accounting & Legal. Annual accounting and legal costs are estimated at \$450 for an average year for the 5-acre ranch (Cook Martin Poulson, P.C., 2016).

Interest on Retained Livestock. Annual costs of retaining breeding livestock are calculated at 5% of the animal's sales value. Pasture-fed breeding heifers in 2016 were valued at \$2,400 each wholesale (USDA-AMS, 2016b). Two of the ten heifers are replaced annually and bulls every 5 years.

Capital Recovery

Capital recovery costs are the annual depreciation (opportunity cost) of all ranch investments. Capital recovery costs are calculated using straight line depreciation. All equipment listed is new unless otherwise noted. For used machinery, the price is calculated as one-half of the new purchase price and useful life is two-thirds that of new machinery (Painter, 2011). The pasture feeding equipment required, as well as costs and useful life, were taken from Neibergs and Nelson (2009).

Salvage Value

Salvage value is 10 percent of the purchase price for equipment and machinery, which is an estimate of the remaining value of an investment at the end of its useful life. The salvage value for bulls is one-half the purchase price.

Average Asset Value Computation

$$(\frac{\text{Purchase Price} + \text{Salvage Value}}{2})$$

Straight Line Depreciation Computation

$$(\frac{\text{Purchase Price - Salvage Value}}{\text{Useful Life}})$$

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Table 1. Southern Utah Grass-Fed Beef Production Costs and Returns, 10 Head

Pasture/Range Pasture/Range Land Lease Pature/Range Land Lease Pature/Range Land Lease Pature/Range Land Lease Pature/Range Land Marketing Land Marketing Land Maintenance Land Lube Latilities Miscellaneous MICOME ABOVE OPERATION DWNERSHIP COSTS Capital Recovery (Depreciation Buildings, Improvements, Machinery & Vehicles Purchased Livestock (But Cash Overhead: Liability Insurance Office & Travel Accounting & Legal Fees Interest on Retained Lives	1200.00 1500.00 950.00 950.00	Pounds Pounds Pounds	2.00 0.00 3.00 5.00	\$ \$ \$	2.00 - 2.90 2.90	\$ \$ \$	4,800.00 - 8,265.00 13,775.00		2,400.00 - 2,755.00 2,755.00
GROSS INCOME Cull Cows Cull Bulls Heifer Calves Steer Calves FOTAL INCOME DPERATING COSTS Improved Pasture Pasture/Range Land Lease Pasture/Range Land Lease Patterinary/Medical Marketing Salt & Minerals Maintenance Fuel & Lube Jtilities Miscellaneous FOTAL OPERATING COSTS CAPITAL OPERATING CO	1200.00 1500.00 950.00 950.00 April to December: Weaned Calves Breeding Livestock	Pounds Pounds Pounds Pounds Head	2.00 0.00 3.00	\$ \$ \$	2.00 - 2.90	\$ \$ \$	4,800.00 - 8,265.00	\$ \$ \$	2,400.00 - 2,755.00
Cull Cows Cull Bulls Heifer Calves Steer Calves FOTAL INCOME PERATING COSTS Improved Pasture Pasture/Range Pastur	1500.00 950.00 950.00 April to December: Weaned Calves Breeding Livestock	Pounds Pounds Pounds Head	0.00 3.00	\$	- 2.90	\$ \$ \$	- 8,265.00	\$ \$	2,755.00
Cull Cows Cull Bulls Heifer Calves Steer Calves FOTAL INCOME PERATING COSTS Improved Pasture Pasture/Range Pastur	1500.00 950.00 950.00 April to December: Weaned Calves Breeding Livestock	Pounds Pounds Pounds Head	0.00 3.00	\$	- 2.90	\$ \$ \$	- 8,265.00	\$ \$	2,755.00
Cull Bulls Heifer Calves Steer Calves FOTAL INCOME DPERATING COSTS Improved Pasture Pasture/Range Land Lease Peterinary/Medical Marketing Salt & Minerals Maintenance Fuel & Lube Utilities Miscellaneous FOTAL OPERATING COSTS COME ABOVE OPERATING DWNERSHIP COSTS Capital Recovery (Depreciative Buildings, Improvements, Machinery & Vehicles Purchased Livestock (Butter) Cash Overhead: Liability Insurance Office & Travel Accounting & Legal Fees Interest on Retained Lives	1500.00 950.00 950.00 April to December: Weaned Calves Breeding Livestock	Pounds Pounds Pounds Head	0.00 3.00	\$	- 2.90	\$ \$ \$	- 8,265.00	\$ \$	2,755.00
Heifer Calves Steer Calves FOTAL INCOME PARTING COSTS Improved Pasture Pasture/Range	950.00 950.00 April to December: Weaned Calves Breeding Livestock	Pounds Pounds Head	3.00	\$	2.90	\$		\$	
FOTAL INCOME DPERATING COSTS Improved Pasture Pasture/Range Pasture/Ran	950.00 950.00 April to December: Weaned Calves Breeding Livestock	Pounds Pounds Head	3.00	\$		\$		\$	
PERATING COSTS Improved Pasture Pasture/Range Pasture/Rang	April to December: Weaned Calves Breeding Livestock	Head						\$	2,755.00
DPERATING COSTS Improved Pasture Pasture/Range Pasture/Ran	Breeding Livestock					•			
mproved Pasture Pasture/Range Pasture/Range Land Lease Paterinary/Medical Marketing Balt & Minerals Maintenance Fuel & Lube Utilities Miscellaneous MACOME ABOVE OPERATION DWNERSHIP COSTS Capital Recovery (Depreciative Buildings, Improvements, Machinery & Vehicles Purchased Livestock (Butter) Cash Overhead: Liability Insurance Office & Travel Accounting & Legal Fees Interest on Retained Lives	Breeding Livestock					\$	26,840.00	\$	2,684.00
mproved Pasture Pasture/Range Pasture/Range Land Lease Paterinary/Medical Marketing Balt & Minerals Maintenance Fuel & Lube Utilities Miscellaneous MACOME ABOVE OPERATION DWNERSHIP COSTS Capital Recovery (Depreciative Buildings, Improvements, Machinery & Vehicles Purchased Livestock (Butter) Cash Overhead: Liability Insurance Office & Travel Accounting & Legal Fees Interest on Retained Lives	Breeding Livestock								
Pasture/Range Pasture/Range Pasture/Range Land Lease Peterinary/Medical Marketing Salt & Minerals Maintenance Fuel & Lube Utilities Miscellaneous FOTAL OPERATING COSTS CAPITAL RECOVERY (Depreciation Buildings, Improvements, Machinery & Vehicles Purchased Livestock (Buildings of the Cost of t	Breeding Livestock		10.00	\$	200.00	\$	2,000.00	\$	200.00
Pasture/Range Land Lease Jeterinary/Medical Marketing Salt & Minerals Maintenance Fuel & Lube Jtilities Miscellaneous FOTAL OPERATING COSTS CAPITAL RECOVERY (Depreciation Buildings, Improvements, Machinery & Vehicles Purchased Livestock (Bu Cash Overhead: Liability Insurance Office & Travel Accounting & Legal Fees Interest on Retained Lives		Heau	13.00		300.00	\$	3,900.00	\$	390.00
Land Lease /eterinary/Medical Marketing Salt & Minerals Maintenance Fuel & Lube Utilities Miscellaneous FOTAL OPERATING COSTS NCOME ABOVE OPERATING DWNERSHIP COSTS Capital Recovery (Depreciation Buildings, Improvements, Machinery & Vehicles Purchased Livestock (But Cash Overhead: Liability Insurance Office & Travel Accounting & Legal Fees Interest on Retained Lives		Head	10.00		125.00	\$	1,250.00	\$	125.00
Veterinary/Medical Marketing Salt & Minerals Maintenance Fuel & Lube Utilities Miscellaneous FOTAL OPERATING COSTS NCOME ABOVE OPERATING DWNERSHIP COSTS Capital Recovery (Depreciation Buildings, Improvements, Machinery & Vehicles Purchased Livestock (Butter) Cash Overhead: Liability Insurance Office & Travel Accounting & Legal Fees Interest on Retained Lives		Acre	5.00		500.00	\$	2,500.00	\$	250.00
Marketing Salt & Minerals Maintenance Fuel & Lube Utilities Miscellaneous FOTAL OPERATING COSTS NCOME ABOVE OPERATING DWNERSHIP COSTS Capital Recovery (Depreciation Buildings, Improvements, Machinery & Vehicles Purchased Livestock (Bu Cash Overhead: Liability Insurance Office & Travel Accounting & Legal Fees Interest on Retained Lives		Head	23.00		35.00	\$	805.00	\$	80.50
Salt & Minerals Maintenance Fuel & Lube Utilities Miscellaneous FOTAL OPERATING COSTS COME ABOVE OPERATION DWNERSHIP COSTS Capital Recovery (Depreciative Buildings, Improvements, Machinery & Vehicles Purchased Livestock (But Cash Overhead: Liability Insurance Office & Travel Accounting & Legal Fees Interest on Retained Lives		Head	10.00		100.00	\$	1,000.00	\$	100.00
Maintenance Fuel & Lube Utilities Miscellaneous FOTAL OPERATING COSTS NCOME ABOVE OPERATION DWNERSHIP COSTS Capital Recovery (Depreciative Buildings, Improvements, Machinery & Vehicles Purchased Livestock (Butten Cash Overhead: Liability Insurance Office & Travel Accounting & Legal Fees Interest on Retained Lives		Ton	1.00		250.00	\$	250.00	\$	25.00
NCOME ABOVE OPERATING COSTS NCOME ABOVE OPERATING COSTS Capital Recovery (Depreciation Buildings, Improvements, Machinery & Vehicles Purchased Livestock (But Cash Overhead: Liability Insurance Office & Travel Accounting & Legal Fees Interest on Retained Lives		Annual	1.00		954.25	\$	954.25	\$	95.43
NCOME ABOVE OPERATING COSTS NCOME ABOVE OPERATING COSTS Capital Recovery (Depreciation Buildings, Improvements, Machinery & Vehicles Purchased Livestock (But Cash Overhead: Liability Insurance Office & Travel Accounting & Legal Fees Interest on Retained Lives		Annual	1.00		2,000.00	\$	2,000.00	\$	200.00
NCOME ABOVE OPERATING NCOME ABOVE OPERATING DWNERSHIP COSTS Capital Recovery (Depreciation Buildings, Improvements, Machinery & Vehicles Purchased Livestock (Buth Cash Overhead: Liability Insurance Office & Travel Accounting & Legal Fees Interest on Retained Lives		Annual	1.00		500.00	\$	500.00	\$	50.00
NCOME ABOVE OPERATION DWNERSHIP COSTS Capital Recovery (Depreciation Buildings, Improvements, Machinery & Vehicles Purchased Livestock (Buth Cash Overhead: Liability Insurance Office & Travel Accounting & Legal Fees Interest on Retained Lives		Head	23.00		5.00	\$	115.00	\$	11.50
NCOME ABOVE OPERATION DWNERSHIP COSTS Capital Recovery (Depreciation Buildings, Improvements, Machinery & Vehicles Purchased Livestock (Buth Cash Overhead: Liability Insurance Office & Travel Accounting & Legal Fees Interest on Retained Lives	·s					\$	15,274.25	\$	1,527.43
DWNERSHIP COSTS Capital Recovery (Depreciation Buildings, Improvements, Machinery & Vehicles Purchased Livestock (Butter Cash Overhead: Liability Insurance Office & Travel Accounting & Legal Fees Interest on Retained Lives	-					•		•	, , , , , , , , , , , , , , , , , , , ,
Capital Recovery (Depreciation Buildings, Improvements, Machinery & Vehicles Purchased Livestock (Butter Cash Overhead: Liability Insurance Office & Travel Accounting & Legal Fees Interest on Retained Lives	NG COSTS					\$	11,565.75	\$	1,156.58
Capital Recovery (Depreciation Buildings, Improvements, Machinery & Vehicles Purchased Livestock (Butter Cash Overhead: Liability Insurance Office & Travel Accounting & Legal Fees Interest on Retained Lives									
Buildings, Improvements, Machinery & Vehicles Purchased Livestock (Bu Cash Overhead: Liability Insurance Office & Travel Accounting & Legal Fees Interest on Retained Lives									
Machinery & Vehicles Purchased Livestock (Bu Cash Overhead: Liability Insurance Office & Travel Accounting & Legal Fees Interest on Retained Lives	·	Annual	1.00						
Purchased Livestock (Bu Cash Overhead: Liability Insurance Office & Travel Accounting & Legal Fees Interest on Retained Lives	Buildings, Improvements, & Equipment			-	780.00	\$	780.00	\$	78.00
Cash Overhead: Liability Insurance Office & Travel Accounting & Legal Fees Interest on Retained Lives		Annual	1.00		2,055.00	\$	2,055.00	\$	205.50
Liability Insurance Office & Travel Accounting & Legal Fees Interest on Retained Lives	ılls)	Annual	1.00	\$	350.00	\$	350.00	\$	35.00
Office & Travel Accounting & Legal Fees Interest on Retained Lives									
Accounting & Legal Fees Interest on Retained Lives		Annual	1.00		250.00	\$	250.00	\$	25.00
Interest on Retained Lives		Annual			1,000.00	\$	1,000.00	\$	100.00
		Annual Annual	1.00		450.00	\$	450.00	\$	45.00
Annual Invastment Incurrer	Interest on Retained Livestock				1,200.00	\$	1,200.00	\$	120.00
Annual Investment Insurar	Annual	1.00		120.88	\$	120.88	\$	12.09	
Annual Investment Taxes		Annual	1.00	\$	-	\$	-	\$	-
TOTAL OWNERSHIP COST	rs					\$	6,205.88	\$	620.59
TOTAL COSTS						\$	21,480.13	\$	2,148.01
NET PROJECTED RETURNS						\$	5,359.87	¢	535.99

Table 2. Ranch Investment Summary

	Purchase	Livestock	Revised Purchase	Useful Life	Salvage	Annual Capital	Annual	Annual	Annual	
Description	Price	Share (%)	Price	(yrs)	Value	Recovery Insurar		Taxes	Repairs	
Buildings, Improvements, & E	auipment									
Portable Fencing	\$ 2,500.00	100%	\$ 2,500.00	15	\$ 250.00	\$ 150.00	\$ 9.16	\$ -	\$ 27.50	
Portable Corrals/Chutes	\$ 6,000.00	100%	\$ 6,000.00	15	\$ 600.00	\$ 360.00	\$ 21.98	\$ -	\$ 66.00	
Watering Facilities	\$ 2,000.00	100%	\$ 2,000.00	10	\$ 200.00	\$ 180.00	\$ 7.33	\$ -	\$ 22.00	
Tools/Equipment	\$ 1,000.00	100%	\$ 1,000.00	10	\$ 100.00	\$ 90.00	\$ 3.66	\$ -	\$ 11.00	
Sub Total	\$ 11,500.00	NA	\$ 11,500.00	NA	\$ 1,150.00	\$ 780.00	\$ 42.12	\$ -	\$ 126.50	
Machinery & Vehicles										
Case Skip Loader (used)	\$ 20,000.00	10%	\$ 2,000.00	10	\$ 200.00	\$ 180.00	\$ 7.33	\$ -	\$ 77.00	
3/4 Ton Pickup	\$ 40,000.00	10%	\$ 4,000.00	8	\$ 400.00	\$ 450.00	\$ 14.65	\$ -	\$ 154.00	
Livestock Trailer (used)	\$ 10,000.00	100%	\$ 10,000.00	10	\$ 1,000.00	\$ 900.00	\$ 36.63	\$ -	\$ 385.00	
Flatbed Trailer (used)	\$ 5,000.00	100%	\$ 5,000.00	10	\$ 500.00	\$ 450.00	\$ 18.32	\$ -	\$ 192.50	
4-Wheeler (used)	\$ 5,000.00	10%	\$ 500.00	6	\$ 50.00	\$ 75.00	\$ 1.83	\$ -	\$ 19.25	
Sub Total	\$ 80,000.00	NA	\$ 21,500.00	NA	\$ 2,150.00	\$2,055.00	\$ 78.75	\$ -	\$ 827.75	
Purchased Livestock										
Bulls (1)	\$ 3,500.00	100%	\$ 3,500.00	5	\$ 1,750.00	\$ 350.00	\$ -	\$ -	\$ -	
Sub Total	\$ 3,500.00	NA	\$ 3,500.00	NA	\$ 1,750.00	\$ 350.00	\$ -	\$ -	\$ -	
Total	\$ 95,000.00	NA		NA	\$ 5,050.00	\$3,185.00	\$ 120.88	\$ -	\$ 954.25	
Retained Livestock (interest	only)									
Heifers (10)	\$ 24,000.00	100%	\$ 24,000.00	NA	\$ 24,000.00	\$ 1,200.00	\$ -	\$ -	\$ -	
Total	\$ 24,000.00				\$ -	\$ 1,200.00	\$ -	\$ -	\$ -	

Table 3. Total Ranch Income and Net Returns by Sales Price

Pri	ce Per							
Pound (Live		Total Ranch		In	come Per	Total Ranch		
We	eight)		Income	H	ead Sold	Ne	et Returns	
\$	2.00	\$	20,000.00	\$	2,000.00	\$	(1,480.13)	
\$	2.20	\$	21,520.00	\$	2,152.00	\$	39.87	
\$	2.40	\$	23,040.00	\$	2,304.00	\$	1,559.87	
\$	2.60	\$	24,560.00	\$	2,456.00	\$	3,079.87	
\$	2.80	\$	26,080.00	\$	2,608.00	\$	4,599.87	
\$	3.00	\$	27,600.00	\$	2,760.00	\$	6,119.87	
\$	3.20	\$	29,120.00	\$	2,912.00	\$	7,639.87	
\$	3.40	\$	30,640.00	\$	3,064.00	\$	9,159.87	
\$	3.60	\$	32,160.00	\$	3,216.00	\$	10,679.87	
\$	3.80	\$	33,680.00	\$	3,368.00	\$	12,199.87	
\$	4.00	\$	35,200.00	\$	3,520.00	\$	13,719.87	