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# **Beaver County Crop Production Costs and Returns, 2012**

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#### Introduction

Sample costs and returns to establish and produce alfalfa hay, barley, oats, and corn (grain or silage) under pivot irrigation in Beaver County, 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 of a well-managed farm in the region, as determined by producer survey results from 2012. Costs, materials, and practices are not applicable to all situations as management and cultural practices vary among growers within the region. The "Your Farm" column in all tables is provided for your use.

**Farm.** The representative farm consists of 400 acres of land on which 250 acres are cultivated for alfalfa production, 50 acres for barley production, 50 acres for oat production, and 50 acres for corn (grain or silage) production. The market value in 2012 was approximately \$5,000 per acre for agricultural land in Beaver County with water rights.

**Crop Pricing.** Five-year average pricing (2007-2011) for alfalfa hay is \$141.40/ton, barley is \$3.98/bu, corn (grain) \$5.12/bu, corn (silage) \$28.20/ton, and oats \$3.26/bu (UDAF, 2012).

**Owner Labor.** The owner is provided \$30,000 annually for the 400 acre farm, or \$75/acre.

**Hired Labor.** Hired labor is paid \$10/hr, \$10,000 annually for the 400 acre farm, or \$25/acre.

**Irrigation System.** Pivot irrigation system estimated at \$100,000 for each pivot (Valley Irrigation Company, March 2011).

**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.

**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 farm investments varies, 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 400 acre farm at an annual cost of \$3,000.

*Fuel and Lube*. The fuel and lube for machinery and vehicles is calculated at 8 percent of the average asset value.

*Investment Repairs.* Annual repairs on all farm 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 \$3,000 for an average year for the 400 acre farm. These expenses include office supplies, telephone service, Internet service, and travel expenses to educational seminars.

**Accounting & Legal.** Annual accounting and legal costs are estimated at \$3,000 for an average year for the 400 acre farm.

Capital Recovery. Capital recovery costs are the annual depreciation (opportunity cost) of all farm 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).

**Salvage Value.** Salvage value is 10 percent of the purchase price, which is an estimate of the remaining value of an investment at the end of its useful life. The

salvage value for land is the purchase price, as land does not normally depreciate.

## **Average Asset Value Computation**

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

### **Straight Line Depreciation Computation**

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

#### References

Painter, Kathleen. 2011. The Costs of Owning and Operating Farm Machinery in the Pacific Northwest 2011. A Pacific Northwest Publication #346. University of Idaho, Washington State University, and Oregon State University.

Utah Department of Agriculture and Food. 2012. 2012 Utah Agriculture Statistics and Utah Department of Agriculture and Food Annual Report.

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Table 1: Beaver County Alfalfa Hay Establishment Costs, 250 acres, 2012

·	-						Total	
			Price/Cost		Total	Co	st/Value	Your
	Total Units	Unit	Per Unit	C	cost/Value	Р	er Acre	Farm
OPERATING COSTS Insecticide	1.00	Annual	\$ 3,000.00	\$	3,000.00	\$	12.00	
Herbicide Fertilizer	1.00 1.00	Annual Annual	\$ 3,000.00 \$ 6,000.00	\$ \$	3,000.00 6,000.00	\$ \$	12.00 24.00	
Rodent Control	1.00	Annual	\$ 400.00	Ф \$	400.00	э \$	1.60	
Testing (Soil & Forage)	1.00	Annual	\$ 150.00	\$	150.00	э \$	0.60	
Irrigation	1.00	Annual	\$ 2,500.00	\$	2,500.00	\$	10.00	
Alfalfa Seed	1.00	Annual	\$ 2,500.00	Ф \$	3,500.00	э \$	14.00	
Labor	250.00	Arinual	\$ 3,300.00	\$	6,250.00	\$	25.00	
	250.00		•				75.00	
Operator Labor Fuel & Lube		Acre	="	\$	18,750.00	\$		
	1.00	Annual	\$ 10,167.85	\$	10,167.85	\$	40.67	
Maintenance	1.00	Annual	\$ 12,121.24	\$	12,121.24	\$	48.48	
Miscellaneous	250.00	Acre	\$ 5.00	\$	1,250.00	\$	5.00	
TOTAL OPERATING COST	S			\$	67,089.09	\$	268.36	
OWNERSHIP COSTS								
CASH OVERHEAD COSTS	•			•	4 075 00	•	7.50	
Liability/Crop Insurance				\$	1,875.00	\$	7.50	
Accounting & Legal				\$	1,875.00	\$	7.50	
Office & Travel	_			\$	1,875.00	\$	7.50	
Annual Investment Insurance	e			\$	1,920.19	\$	7.68	
Annual Investment Taxes				\$	426.25	\$	1.71	
TOTAL CASH OVERHEAD	COSTS			\$	7,971.44	\$	31.89	
NONCASH OVERHEAD CO		covery)		_				
Buildings, Improvements, &	Equipment			\$	9,881.25	\$	39.53	
Machinery & Vehicles				\$	28,255.45	\$	113.02	
TOTAL NONCASH OVERH	EAD COSTS			\$	38,136.70	\$	152.55	
					10.100.11			
TOTAL OWNERSHIP COST	IS			\$	46,108.14	\$	184.43	
TOTAL COSTS				\$	113,197.23	\$	452.79	
YEAR ONE INCOME								
Alfalfa Hay	2.50	Tons	\$ 141.40	\$	88,375.00	\$	353.50	
TOTAL GROSS INCOME		- · <del>-</del>		\$	88,375.00	\$	353.50	
TOTAL FOTABLISHES:	11.11.75.75.75.75.75.75.75.75.75.75.75.75.75.				04.000.00	_	00.00	
TOTAL ESTABLISHMENT	INVESTMENT			\$	24,822.23	\$	99.29	

Table 2: Beaver County Alfalfa Hay Production Costs and Returns, 250 acres, 2012

Table 2: Beaver County Al	ialia Hay Prod	luction C	osts and Kett	ırn	s, 250 acres	, 20	12 Total	
			Price/Cost		Total	Со	st/Value	Your
	Total Units	Unit	Per Unit	C	Cost/Value	Р	er Acre	Farm
GROSS INCOME								
	4.50	Tons	\$ 141.40	φ	150 075 00	\$	636.30	
Alfalfa Hay	4.50	10115	\$ 141.40	Ф	159,075.00	Ф	030.30	
TOTAL GROSS INCOME				\$	159,075.00	\$	636.30	
0DED 4 TIMO 000 TO								
OPERATING COSTS	4.00	A	<b>#</b> 0.000.00	Φ	0.000.00	Φ	40.00	
Insecticide	1.00	Annual	\$ 3,000.00	\$	3,000.00	\$		
Herbicide	1.00	Annual	\$ 3,000.00	\$	3,000.00	\$		
Fertilizer	1.00	Annual	\$ 6,000.00	\$	6,000.00	\$	24.00	
Rodent Control	1.00	Annual	\$ 400.00	\$	400.00	\$	1.60	
Testing (Soil & Forage)	1.00	Annual	\$ 150.00	\$	150.00	\$	0.60	
Irrigation	1.00	Annual	\$ 2,500.00	\$	2,500.00	\$	10.00	
Labor	250.00	Acre	\$ 25.00	\$	6,250.00	\$	25.00	
Operator Labor	250.00	Acre	\$ 75.00	\$	18,750.00	\$	75.00	
Fuel & Lube	1.00	Annual	\$10,167.85	\$	10,167.85	\$	40.67	
Maintenance	1.00	Annual	\$12,121.24	\$	12,121.24	\$	48.48	
Miscellaneous	250.00	Acre	\$ 5.00	\$	1,250.00	\$	5.00	
				_				
TOTAL OPERATING COSTS				\$	63,589.09	\$	254.36	
INCOME ABOVE OPERATIN	G COSTS			\$	95,485.91	\$	381.94	
OWNERSHIP COSTS								
CASH OVERHEAD COSTS								
Liability/Crop Insurance				\$	1,875.00	\$	7 50	
Accounting & Legal				\$	1,875.00	\$		
Office & Travel				\$	1,875.00	\$		
Annual Investment Insurance				\$	1,920.19	\$	7.68	
				Ф \$	426.25			
Annual Investment Taxes				Ф	420.25	\$	1.71	
TOTAL CASH OVERHEAD C	OSTS			\$	7,971.44	\$	31.89	
NONO A OLI OLIERUE A R. COO	770 (0 11 1 5	,						
NONCASH OVERHEAD COS		covery)		_	440.55	_	=0	
Buildings, Improvements, & E	quipment			\$	14,018.29		56.07	
Machinery & Vehicles				\$	28,255.45	\$	113.02	
TOTAL NONCASH OVERHEA	AD COSTS			\$	42,273.73	\$	169.09	
					·			
TOTAL OWNERSHIP COSTS				\$	50,245.18	\$	200.98	
TOTAL COSTS				\$	113,834.27	\$	455.34	
TOTAL COSTS				φ	113,034.21	φ	400.04	
NET PROJECTED RETURNS	<u> </u>			\$	45,240.73	\$	180.96	

**Table 3: Alfalfa Production Investment Summary** 

Description	Purchase Price	Percentage Use	Purchase Price	Useful Life (Yrs)	Sa	alvage Value		nual Capital Recovery	ln	Annual surance	Annual Taxes	Annual Repairs	An	nual Fuel & Lube
Buildings, Improvements, and	Equipment													
Land	\$ 2,000,000.00	62.5%	\$ 1,250,000.00	150.00	\$	1,250,000.00	\$	-	\$	-	TBD	\$ -	\$	-
Machine Shop (50x100)	\$ 60,000.00	62.5%	\$ 37,500.00	40.00	\$	3,750.00	\$	843.75	\$	137.36	\$ 206.25	\$ 412.50	\$	-
Hay Barn (50x100)	\$ 40,000.00	100%	\$ 40,000.00	40.00	\$	4,000.00	\$	900.00	\$	146.52	\$ 220.00	\$ 440.00	\$	-
Irrigation System (Pivot) (2)	\$ 200,000.00	100%	\$ 200,000.00	25.00	\$	20,000.00	\$	7,200.00	\$	732.60	\$ -	\$ 2,200.00	\$	-
Implements	\$ 25,000.00	62.5%	\$ 15,625.00	15.00	\$	1,562.50	\$	937.50	\$	57.23	\$ -	\$ 171.88	\$	-
Alfalfa Establishment	\$ 24,822.23	100%	\$ 24,822.23	6.00	\$	-	\$	4,137.04	\$	-	\$ -	\$ -	\$	-
Sub Total Pre-Establishment	\$ 2,325,000.00	,	\$ 1,543,125.00		\$	1,279,312.50	\$	9,881.25	\$	1,073.72	\$ 426.25	\$ 3,224.38	\$	_
Sub Total Post-Establishment	\$ 2,349,822.23		\$ 1,567,947.23		\$	1,279,312.50	•	,	\$	1,073.72	426.25	3,224.38		-
Machinery and Vehicles														
145 HP Tractor (used)	\$ 59,000.00	62.5%	\$ 36,875.00	10.00	\$	3,687.50	\$	3,318.75	\$	135.07	\$ -	\$ 1,419.69	\$	1,622.50
125 HP Tractor (used)	\$ 46,500.00	62.5%	\$ 29,062.50	10.00	\$	2,906.25	\$	2,615.63	\$	106.46	\$ -	\$ 1,118.91	\$	1,278.75
85 HP Tractor (used)	\$ 26,000.00	62.5%	\$ 16,250.00	10.00	\$	1,625.00	\$	1,462.50	\$	59.52	\$ -	\$ 625.63	\$	715.00
(2) 3/4 Ton Pickup	\$ 80,000.00	62.5%	\$ 50,000.00	6.00	\$	5,000.00	\$	7,500.00	\$	183.15	\$ -	\$ 1,925.00	\$	2,200.00
Sw ather (used)	\$ 45,000.00	83%	\$ 37,350.00	7.00	\$	3,735.00	\$	4,802.14	\$	136.81	\$ -	\$ 1,437.98	\$	1,643.40
Baler	\$ 35,000.00	83%	\$ 29,050.00	7.00	\$	2,905.00	\$	3,735.00	\$	106.41	\$ -	\$ 1,118.43	\$	1,278.20
Rakes	\$ 20,000.00	100%	\$ 20,000.00	7.00	\$	2,000.00	\$	2,571.43	\$	73.26		\$ 770.00	\$	880.00
(2) 4-Wheeler	\$ 20,000.00	62.5%	\$ 12,500.00	5.00	\$	1,250.00	\$	2,250.00	\$	45.79	\$ -	\$ 481.25	\$	550.00
Sub Total		:	\$ 231,087.50		\$	23,108.75	\$	28,255.45	\$	846.47	\$ -	\$ 8,896.87	\$	10,167.85
Total		;	\$ 1,799,034.73		\$	1,302,421.25	\$	42,273.73	\$	1,920.19	\$ 426.25	\$ 12,121.24	\$	10,167.85

**Table 4: Beaver County Barley Production Costs and Returns, 50 acres, 2012** 

Table 4. Deaver County	Darrey 110dde	tion Costs	anu	ixctui iis,	50	acres, 2012	•	Total	
			Р	rice/Cost		Total	Co	st/Value	Your
	Total Units	Unit		Per bu.	С	ost/Value		er Acre	Farm
GROSS INCOME									
Barley	90.00	Bushels	\$	3.98	\$	17,910.00	\$	358.20	
•									
TOTAL GROSS INCOME					\$	17,910.00	\$	358.20	
OPERATING COSTS									
Herbicide	50.00	Acre	\$	10.00	\$	500.00	\$	10.00	
Fertilizer	50.00	Acre	\$	100.00	\$	5,000.00	\$	100.00	
Custom Combine	50.00	Acre	\$	40.00	\$	2,000.00	\$	40.00	
Seed	50.00	Acre	\$	24.00	\$	1,200.00	\$	24.00	
Irrigation	1.00	Annual	\$	500.00	\$	500.00	\$	10.00	
Labor	50.00	Acre	\$	25.00	\$	1,250.00	\$	25.00	
Operator Labor	50.00	Acre	\$	75.00	\$	3,750.00	\$	75.00	
Fuel & Lube	1.00	Annual	\$	1,273.25	\$	1,273.25	\$	25.47	
Maintenance	1.00	Annual	\$	1,780.97	\$	1,780.97	\$	35.62	
Miscellaneous	50.00	Acre	\$	5.00	\$	250.00	\$	5.00	
			·		·		·	•	
TOTAL OPERATING COS	TS				\$	17,504.22	\$	350.08	
INCOME ABOVE OPERA	TING COSTS				\$	405.78	\$	8.12	
OWNERSHIP COSTS									
CASH OVERHEAD COST	S								
Liability/Crop Insurance					\$	375.00	\$	7.50	
Accounting & Legal					\$	375.00	\$	7.50	
Office & Travel					\$	375.00	\$	7.50	
Annual Investment Insuran	ice				\$	328.07	\$	6.56	
Annual Investment Taxes					\$	41.25	\$	0.83	
TOTAL CASH OVERHEAD	O COSTS				\$	1,494.32	\$	29.89	
NONCASH OVERHEAD C	COSTS (Capital F	Recovery)							
Buildings, Improvements,	& Equipment				\$	2,156.25	\$	43.13	
Machinery & Vehicles					\$	3,429.38	\$	68.59	
•									
TOTAL NONCASH OVERI	HEAD COSTS				\$	5,585.63	\$	111.71	
TOTAL OWNERSHIP COS	STS				\$	7,079.94	\$	141.60	
						·			
TOTAL COSTS					\$	24,584.16	\$	491.68	
					_	,	•		
NET PROJECTED RETUR	NS				\$	(6,674.16)	\$	(133.48)	
-						<u> </u>			

**Table 5: Barley Production Investment Summary** 

	ь	urchase	Percentage	Purchase	Useful Life			Annual	Annual	Annual	Annual	۸.	nual Fuel
Description		Price	Use	Price	(Yrs)	Sa	Ivage Value	Capital Recovery	surance	Annuai Taxes	epairs		Muai Fuei
					<u> </u>								
Buildings, Improvements, and Equipment													
Land	\$2,	000,000.00	12.5%	\$ 250,000.00	150.00	\$	250,000.00	\$ -	\$ -	TBD	\$ -	\$	-
Shop (50x100) & Tools	\$	60,000.00	12.5%	\$ 7,500.00	40.00	\$	750.00	\$ 168.75	\$ 27.47	\$ 41.25	\$ 82.50	\$	-
Implements	\$	25,000.00	12.5%	\$ 3,125.00	15.00	\$	312.50	\$ 187.50	\$ 11.45	\$ -	\$ 34.38	\$	-
Irrigation System (Pivot) (.5)	\$	50,000.00	100%	\$ 50,000.00	25.00	\$	5,000.00	\$ 1,800.00	\$ 183.15	\$ -	\$ 550.00	\$	-
Sub Total				\$ 310,625.00	NA	\$	256,062.50	\$ 2,156.25	\$ 222.07	\$ 41.25	\$ 666.88	\$	-
Machinery and Vehicles													
145 HP Tractor (used)	\$	59,000.00	12.5%	\$ 7,375.00	10.00	\$	737.50	\$ 663.75	\$ 27.01	\$ -	\$ 283.94	\$	324.50
125 HP Tractor (used)	\$	46,500.00	12.5%	\$ 5,812.50	10.00	\$	581.25	\$ 523.13	\$ 21.29	\$ -	\$ 223.78	\$	255.75
85 HP Tractor (used)	\$	26,000.00	12.5%	\$ 3,250.00	10.00	\$	325.00	\$ 292.50	\$ 11.90	\$ -	\$ 125.13	\$	143.00
(2) 3/4 Ton Pickup	\$	80,000.00	12.5%	\$ 10,000.00	6.00	\$	1,000.00	\$ 1,500.00	\$ 36.63	\$ -	\$ 385.00	\$	440.00
(2) 4-Wheeler	\$	20,000.00	12.5%	\$ 2,500.00	5.00	\$	250.00	\$ 450.00	\$ 9.16	\$ -	\$ 96.25	\$	110.00
Sub Total				\$ 28,937.50	NA	\$	2,893.75	\$ 3,429.38	\$ 106.00	\$ -	\$ 1,114.09	\$	1,273.25
Total				\$ 339,562.50	NA	\$	258,956.25	\$ 5,585.63	\$ 328.07	\$ 41.25	\$ 1,780.97	\$	1,273.25

**Table 6: Beaver County Oats Production Costs and Returns, 50 acres, 2012** 

Table 0. Deaver County	Oats 1 Toduction	on Costs a	ilu i	ctullis, 50	ac	105, 2012		Total	
			Р	rice/Cost		Total	Co	st/Value	Your
	Total Units	Unit		Per bu.	С	ost/Value	Р	er Acre	Farm
GROSS INCOME									
Oats	125.00	Bushel	\$	3.26	\$	20,375.00	\$	407.50	
TOTAL GROSS INCOME					\$	20,375.00	\$	407.50	
OPERATING COSTS									
Herbicide	50.00	Acre	\$	10.00	\$	500.00	\$	10.00	
Fertilizer	50.00	Acre	\$	100.00	\$	5,000.00	\$	100.00	
Seed	50.00	Acre	\$	241.00	\$	12,050.00	\$	241.00	
Irrigation	1.00	Annual	\$	500.00	\$	500.00	\$	10.00	
Labor	50.00	Acre	\$	25.00	\$	1,250.00	\$	25.00	
Operator Labor	50.00	Acre	\$	75.00	\$	3,750.00	\$	75.00	
Fuel & Lube	1.00	Annual	\$	2,425.25	\$	2,425.25	\$	48.51	
Maintenance	1.00	Annual	\$	2,788.97	\$	2,788.97	\$	55.78	
Miscellaneous	50.00	Acre	\$	5.00	\$	250.00	\$	5.00	
TOTAL OPERATING COST	S				\$	28,514.22	\$	570.28	
INCOME ABOVE OPERAT					\$	(8,139.22)	\$	(162.78)	
						(0,1001)	<u> </u>	(10=110)	
OWNERSHIP COSTS									
CASH OVERHEAD COSTS	3								
Liability/Crop Insurance					\$	375.00	\$	7.50	
Accounting & Legal					\$	375.00	\$	7.50	
Office & Travel					\$	375.00	\$	7.50	
Annual Investment Insurance	e				\$	380.81	\$	7.62	
Annual Investment Taxes					\$	41.25	\$	0.83	
TOTAL CASH OVERHEAD	COSTS				\$	1,547.06	\$	30.94	
					Ψ	.,0 11 100	Ψ	00.01	
NONCASH OVERHEAD CO	OSTS (Capital R	Recovery)							
Buildings, Improvements, &		,			\$	2,156.25	\$	43.13	
Machinery & Vehicles					\$	5,280.80	\$	105.62	
					•	-,	•		
TOTAL NONCASH OVERH	IEAD COSTS				\$	7,437.05	\$	148.74	
TOTAL OWNERSHIP COS	TS				\$	8,984.12	\$	179.68	
					Ψ	0,001.12	Ψ		
TOTAL COSTS					\$	37,498.34	\$	749.97	
NET PROJECTED RETUR	NS				\$	(17,123.34)	\$	(342.47)	
					Ψ	(,.20.04)	<u> </u>	()	

**Table 7: Oats Production Investment Summary** 

		_						Annual			_			
Description	F	Purchase Price	Percentage Use	Purchase Price	Useful Life (Yrs)	9:	alvage Value		Capital ecovery		Annual surance	Annual Taxes	Annual Repairs	nnual Fuel & Lube
Description		FIICE	036	FIICE	(113)	36	iivage value	- 11	ecovery	1113	Surance	Iaxes	 e pail 5	 <u> </u>
Buildings, Improvements, and Equipment														
Land	\$2	,000,000.00	12.5%	\$ 250,000.00	150.00	\$	250,000.00	\$	-	\$	-	TBD	\$ -	\$ -
Shop (50X100) & Tools	\$	60,000.00	12.5%	\$ 7,500.00	40.00	\$	750.00	\$	168.75	\$	27.47	\$ 41.25	\$ 82.50	\$ -
Implements	\$	25,000.00	12.5%	\$ 3,125.00	15.00	\$	312.50	\$	187.50	\$	11.45	\$ -	\$ 34.38	\$ -
Irrigation System (Pivot) (.5)	\$	50,000.00	100%	\$ 50,000.00	25.00	\$	5,000.00	\$	1,800.00	\$	183.15	\$ -	\$ 550.00	\$ -
Sub Total				\$ 310,625.00	NA	\$	256,062.50	\$	2,156.25	\$	222.07	\$ 41.25	\$ 666.88	\$ 
Machinery and Vehicles														
145 HP Tractor (used)	\$	59,000.00	12.5%	\$ 7,375.00	10.00	\$	737.50	\$	663.75	\$	27.01	\$ -	\$ 283.94	\$ 324.50
125 HP Tractor (used)	\$	46,500.00	12.5%	\$ 5,812.50	10.00	\$	581.25	\$	523.13	\$	21.29	\$ -	\$ 223.78	\$ 255.75
85 HP Tractor (used)	\$	26,000.00	12.5%	\$ 3,250.00	10.00	\$	325.00	\$	292.50	\$	11.90	\$ -	\$ 125.13	\$ 143.00
(2) 3/4 Ton Pickup	\$	80,000.00	12.5%	\$ 10,000.00	6.00	\$	1,000.00	\$	1,500.00	\$	36.63	\$ -	\$ 385.00	\$ 440.00
(2) 4-Wheeler	\$	20,000.00	12.5%	\$ 2,500.00	5.00	\$	250.00	\$	450.00	\$	9.16	\$ -	\$ 96.25	\$ 110.00
Sw ather (used)	\$	45,000.00	18%	\$ 8,100.00	7.00	\$	810.00	\$	1,041.43	\$	29.67	\$ -	\$ 567.00	\$ 648.00
Baler (used)	\$	35,000.00	18%	\$ 6,300.00	7.00	\$	630.00	\$	810.00	\$	23.08	\$ -	\$ 441.00	\$ 504.00
Sub Total				\$ 43,337.50	NA	\$	4,333.75	\$	5,280.80	\$	158.75	\$ -	\$ 2,122.09	\$ 2,425.25
Total				\$ 353,962.50	NA	\$	260,396.25	\$	7,437.05	\$	380.81	\$ 41.25	\$ 2,788.97	\$ 2,425.25

Table 8: Beaver County Corn (Grain) Production Costs and Returns, 50 acres, 2012

Table 6. Beaver Coun	ity com (Gram) i	Toduction	11 00	sis and Re	···	1113, 50 acr	C13, <b>2</b>	Total	
			Р	rice/Cost		Total	Total Cost/Value Per Acre  0.00 \$ 819.20  0.00 \$ 50.00 0.00 \$ 100.00 0.00 \$ 100.00 0.00 \$ 25.00 0.00 \$ 75.00 0.00 \$ 25.47 0.97 \$ 35.62 0.00 \$ 50.00 0.00 \$ 75.00	Your	
	Total Units	Unit		Per bu.	С	ost/Value		Farm	
GROSS INCOME									
Corn Grain	160.00	Bushel	\$	5.12	\$	40,960.00	\$	819.20	
					·	,	·		
TOTAL GROSS INCOM	E				\$	40,960.00	\$	819.20	
OPERATING COSTS									
Herbicide	50.00	Acre	\$	50.00	\$	2,500.00	\$	50.00	
Fertilizer	50.00	Acre	\$	100.00	\$	5,000.00			
Seed	50.00	Acre	\$	90.00	\$	4,500.00			
Irrigation	1.00	Annual	\$	500.00	\$	500.00			
Labor	50.00	Arindai	\$	25.00	\$				
Operator Labor	50.00	Acre	\$	75.00	\$				
Custom Combine	50.00	Acre	\$	40.00	\$				
Fuel & Lube	1.00	Annual	э \$	1,273.25	φ \$				
Maintenance	1.00	Annual	э \$	1,780.97	φ \$	1,780.97			
Miscellaneous	50.00	Acre	\$	5.00	\$	250.00	Ф	5.00	
TOTAL OPERATING CO	OSTS				\$	22,804.22	\$	456.08	
INCOME ABOVE OPER	RATING COSTS				\$	18,155.78	\$	363.12	
OWNERSHIP COSTS									
CASH OVERHEAD CO									
Liability/Crop Insurance					\$	375.00			
Accounting & Legal					\$	375.00			
Office & Travel					\$	375.00	\$	7.50	
Annual Investment Insur	rance				\$	328.07		6.56	
Annual Investment Taxe	<del>2</del> S				\$	41.25	\$	0.83	
TOTAL CASH OVERHE	AD COSTS				\$	1,494.32	\$	29.89	
NONOAGULOVERUS	2 000T0 (0 ) 5								
NONCASH OVERHEAD	, .	(ecovery)			•	0.450.05	Φ	40.40	
Buildings, Improvements	s, & Equipment				\$	2,156.25			
Machinery & Vehicles					\$	3,429.38	\$	68.59	
TOTAL NONCASH OVE	ERHEAD COSTS				\$	5,585.63	\$	111.71	
TOTAL OWNEDGLID O					<b>ተ</b>	7 070 04	¢	144.00	
TOTAL OWNERSHIP C	0010				\$	7,079.94	Ф	141.60	
TOTAL COSTS					\$	29,884.16	\$	597.68	
NET PROJECTED RET	LIRNS				¢	11,075.84	<b>¢</b>	221 52	
THE T I NOULCELED KEI	011110				Ψ	11,073.04	Ψ	££ 1.J£	

**Table 9: Corn Production Investment Summary** 

Description	F	Purchase Price	Percentage Use	Purchase Price	Useful Life (Yrs)	Sa	ılvage Value	Annual Capital ecovery	Annual surance	Annual Taxes	Annual Repairs	nnual Fuel & Lube
Buildings, Improvements, and Equipment												
Land	\$2	,000,000.00	12.5%	\$ 250,000.00	150.00	\$	250,000.00	\$ -	\$ _	TBD	\$ _	\$ _
Shop (50X100) & Tools	\$	60,000.00	12.5%	7,500.00	40.00	\$	750.00	\$ 168.75	\$ 27.47	\$ 41.25	\$ 82.50	\$ _
Implements	\$	25,000.00	12.5%	3,125.00	15.00	\$	312.50	\$ 187.50	\$ 11.45	\$ -	\$ 34.38	\$ -
Irrigation System (Pivot)(.5)	\$	50,000.00	100%	\$ 50,000.00	25.00	\$	5,000.00	\$ 1,800.00	\$ 183.15	\$ -	\$ 550.00	\$ -
Sub Total				\$ 310,625.00	NA	\$	256,062.50	\$ 2,156.25	\$ 222.07	\$ 41.25	\$ 666.88	\$ -
Machinery and Vehicles												
145 HP Tractor (used)	\$	59,000.00	12.5%	\$ 7,375.00	10.00	\$	737.50	\$ 663.75	\$ 27.01	\$ -	\$ 283.94	\$ 324.50
125 HP Tractor (used)	\$	46,500.00	12.5%	\$ 5,812.50	10.00	\$	581.25	\$ 523.13	\$ 21.29	\$ -	\$ 223.78	\$ 255.75
85 HP Tractor (used)	\$	26,000.00	12.5%	\$ 3,250.00	10.00	\$	325.00	\$ 292.50	\$ 11.90	\$ -	\$ 125.13	\$ 143.00
(2) 3/4 Ton Pickup	\$	80,000.00	12.5%	\$ 10,000.00	6.00	\$	1,000.00	\$ 1,500.00	\$ 36.63	\$ -	\$ 385.00	\$ 440.00
(2) 4-Wheeler	\$	20,000.00	12.5%	\$ 2,500.00	5.00	\$	250.00	\$ 450.00	\$ 9.16	\$ -	\$ 96.25	\$ 110.00
Sub Total				\$ 28,937.50	41.00	\$	2,893.75	\$ 3,429.38	\$ 106.00	\$ -	\$ 1,114.09	\$ 1,273.25
Total				\$ 339,562.50	NA	\$	258,956.25	\$ 5,585.63	\$ 328.07	\$ 41.25	\$ 1,780.97	\$ 1,273.25

Table 10: Beaver County Corn (Silage) Production Costs and Returns, 50 acres, 2012

Table 10: Beaver Count	y Corn (Silage)	Production	on C	osts and K	eti	irns, 50 ac	res,	2012 Total	
	Total Units	Unit		rice/Cost Per bu.	С	Total ost/Value		ost/Value Per Acre	Your Farm
									_
GROSS INCOME Corn Silage	25.00	Tons	\$	28.20	\$	35,250.00	\$	705.00	
Com Chage	20.00	10110	Ψ	20.20	Ψ	00,200.00	Ψ	700.00	
TOTAL GROSS INCOME					\$	35,250.00	\$	705.00	
OPERATING COSTS									
Herbicide	50.00	Acre	\$	50.00	\$	2,500.00	\$	50.00	
Fertilizer	50.00	Acre	\$	100.00	\$	5,000.00	\$	100.00	
Seed	50.00	Acre	\$	90.00	\$	4,500.00	\$	90.00	
Irrigation	1.00	Annual	\$	500.00	\$	500.00	\$	10.00	
Labor	50.00	Acre	\$	25.00	\$	1,250.00	\$	25.00	
Operator Labor	50.00	Acre	\$	75.00	\$	3,750.00	\$	75.00	
Fuel & Lube	1.00	Annual	\$	1,273.25	\$	1,273.25	\$	25.47	
Maintenance	1.00	Annual	\$	4,180.97	\$	4,180.97	\$	83.62	
Miscellaneous	50.00	Acre	\$	5.00	\$	250.00	\$	5.00	
TOTAL OPERATING COS	TS				\$	23,204.22	\$	464.08	
INCOME ABOVE OPERA						12,045.78	\$	240.92	
OWNERSHIP COSTS						,			
CASH OVERHEAD COST	S								
Liability/Crop Insurance					\$	375.00	\$	7.50	
Accounting & Legal					\$	375.00	\$	7.50	
Office & Travel					\$	375.00	\$	7.50	
Annual Investment Insuran	ce				\$	727.67	\$	14.55	
Annual Investment Taxes					\$	933.44	\$	18.67	
TOTAL CASH OVERHEAD	D COSTS				\$	2,786.10	\$	55.72	
·						,			
NONCASH OVERHEAD C		decovery)							
Buildings, Improvements, 8	& Equipment				\$	4,556.25	\$	91.13	
Machinery & Vehicles					\$	3,429.38	\$	68.59	
TOTAL NONCASH OVERI	HEAD COSTS				\$	7,985.63	\$	159.71	
TOTAL OWNERSHIP COS	eTe				Φ	10,771.73	\$	215.43	
TOTAL OWNERSHIP COS	710				Φ	10,771.73	ψ	213.43	
TOTAL COSTS					\$	33,975.95	\$	679.52	
NET PROJECTED RETUR	NS				\$	1,274.05	\$	25.48	

**Table 11: Corn Silage Production Investment Summary** 

									Annual					
Decariation	ъ.	ırchase Price	Percentage Use	Purchase	Useful Life	٥.	duana Valua		Capital	-	Annual	Annual	Annual	 nual Fuel
Description	Pl	irchase Price	Use	Price	(Yrs)	58	alvage Value	K	ecovery	ins	surance	Taxes	 Repairs	 & Lube
Buildings, Improvements, and Equipment														
Land	\$	2,000,000.00	12.5%	\$ 250,000.00	150.00	\$	250,000.00	\$	-	\$	-	TBD	\$ -	\$ -
Shop (50X100) & Tools	\$	60,000.00	12.5%	\$ 7,500.00	40.00	\$	750.00	\$	168.75	\$	27.47	\$ 41.25	\$ 82.50	\$ -
Implements	\$	25,000.00	12.5%	\$ 3,125.00	15.00	\$	312.50	\$	187.50	\$	11.45	\$ 17.19	\$ 34.38	\$ -
Irrigation System (Pivot)(.5)	\$	50,000.00	100%	\$ 50,000.00	25.00	\$	5,000.00	\$	1,800.00	\$	183.15	\$ 275.00	\$ 550.00	\$ -
Silage Pit (60x200x12)	\$	120,000.00	100%	\$ 120,000.00	50.00	\$	-	\$	2,400.00	\$	399.60	\$ 600.00	\$ 2,400.00	\$ -
Sub Total				\$ 430,625.00	NA	\$	256,062.50	\$	4,556.25	\$	621.67	\$ 933.44	\$ 3,066.88	\$ -
Machinery and Vehicles														
145 HP Tractor (used)	\$	59,000.00	12.5%	\$ 7,375.00	10.00	\$	737.50	\$	663.75	\$	27.01	\$ -	\$ 283.94	\$ 324.50
125 HP Tractor (used)	\$	46,500.00	12.5%	\$ 5,812.50	10.00	\$	581.25	\$	523.13	\$	21.29	\$ -	\$ 223.78	\$ 255.75
85 HP Tractor (used)	\$	26,000.00	12.5%	\$ 3,250.00	10.00	\$	325.00	\$	292.50	\$	11.90	\$ -	\$ 125.13	\$ 143.00
(2) 3/4 Ton Pickup	\$	80,000.00	12.5%	\$ 10,000.00	6.00	\$	1,000.00	\$	1,500.00	\$	36.63	\$ -	\$ 385.00	\$ 440.00
(2) 4-Wheeler	\$	20,000.00	12.5%	\$ 2,500.00	5.00	\$	250.00	\$	450.00	\$	9.16	\$ -	\$ 96.25	\$ 110.00
Sub Total				\$ 28,937.50	NA	\$	2,893.75	\$	3,429.38	\$	106.00	\$ -	\$ 1,114.09	\$ 1,273.25
Total				\$ 459,562.50	NA	\$	258,956.25	\$	7,985.63	\$	727.67	\$ 933.44	\$ 4,180.97	\$ 1,273.25