Spring, Cave, Dry Lake and Delamar Valleys



Presentation for Peseau and Carter Testimony

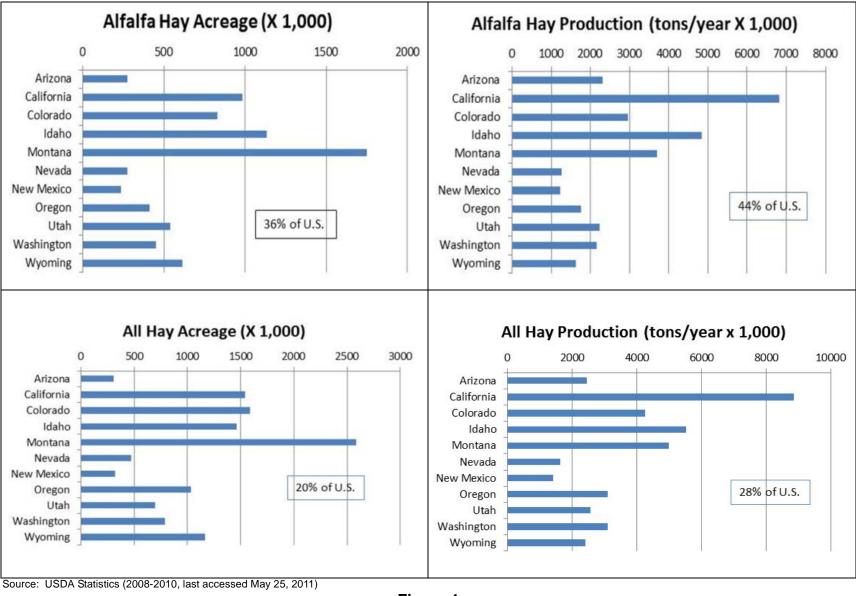
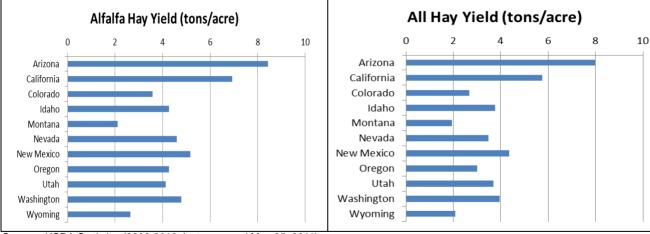
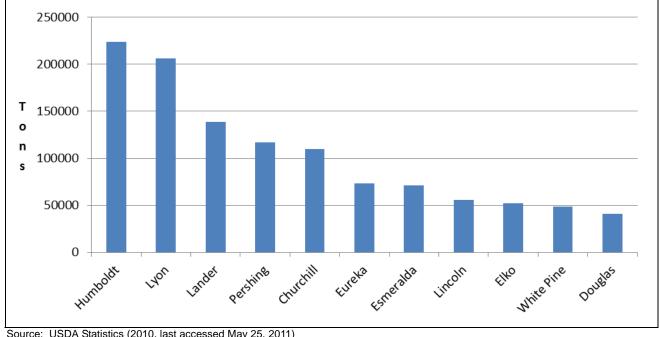


Figure 1
Annual Alfalfa Tonnage for the 11 Western State Group



Source: USDA Statistics (2008-2010, last accessed May 25, 2011)

Figure 2
Alfalfa Hay Yield



Source: USDA Statistics (2010, last accessed May 25, 2011)

Figure 7 2010 Nevada County Alfalfa Production

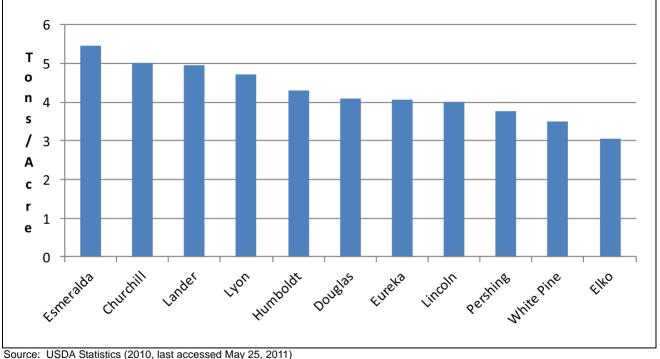
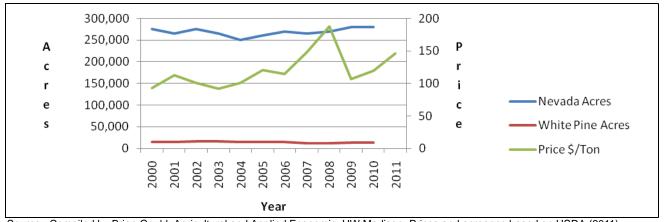
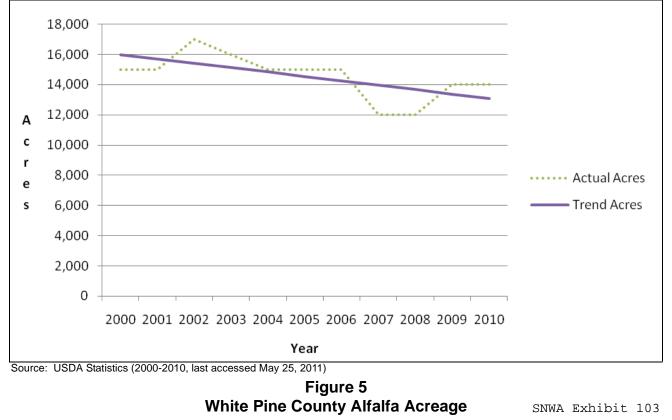


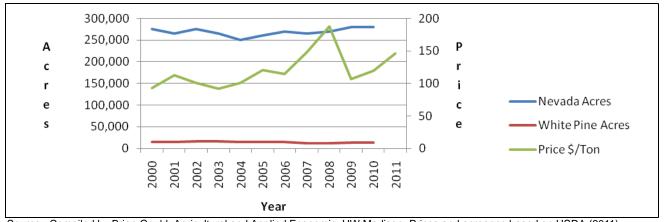
Figure 8 2010 Nevada County Alfalfa Yields



Source: Compiled by Brian Gould, Agricultural and Applied Economic, UW Madison, Prices and acreages based on USDA (2011), National Agricultural Statistics Services

Figure 9
Alfalfa Harvested and Price





Source: Compiled by Brian Gould, Agricultural and Applied Economic, UW Madison, Prices and acreages based on USDA (2011), National Agricultural Statistics Services

Figure 9
Alfalfa Harvested and Price



COOPERATIVE EXTENSION

Bringing the University to You

Fact Sheet 05-45

Humboldt County Alfalfa Hay Establishment, Production Costs and Returns, 2004

Kynda R. Curtis, Assistant Professor and Extension Specialist, Department of Resource Economics, College of Agriculture, Biotechnology and Natural Resources, University of Nevada, Reno
 Melinda Sandstrom, Research Assistant, Department of Animal Biotechnology, University of Nevada, Reno
 William W. Riggs, Eureka County Extension Educator, University of Nevada Cooperative Extension
 Brad Shultz, Humboldt County Extension Educator, University of Nevada Cooperative Extension



INTRODUCTION

Sample costs and returns to establish and produce alfalfa hay under center pivot irrigation in Humboldt County, Nevada, 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. Practices described are based on the production practices considered typical for this crop and region, but may not apply to every situation. A "Your Farm" column in Tables 1 & 2 is provided for your use.

ASSUMPTIONS

The following assumptions refer to Tables 1 through 4 and reflect the typical costs and returns

to establish and produce alfalfa hay stands under center pivot irrigation in Humboldt County, Nevada. The practices described are not the recommendations of the University of Nevada, Reno, but rather the production practices and materials considered typical of a well-managed farm in the region, as determined by a producer panel in November 2004. Costs, materials, and practices are not applicable to all situations, as establishment and cultural practices vary among growers within the region.

Farm. The representative farm consists of 640 acres of land, on which 500 acres is cultivated for alfalfa production and 140 acres are used for owner/employee housing, machine shop, roads,

Table 3: Investment Summary

Description	Purchase Price	Salvage Value	Useful Life (Yrs)	Annual Taxes	Annual Insurance	Annual Capital Recovery	Annual Repairs	Annual Fuel & Lube
-						-	-	
Buildings, Improvement	ts, and Equipment	t						
Shop (20X40) & Tools	\$38,000.00	\$3,800.00	25.00	\$209.00	\$139.19	\$1,368.00	\$418.00	
Irrigation System	\$480,000.00	\$48,000.00	25.00	\$2,640.00	\$1,758.24	\$17,280.00	\$5,280.00	
Owner House	\$120,000.00	\$12,000.00	50.00	\$660.00	\$439.56	\$2,160.00	\$1,320.00	
Employee House	\$30,000.00	\$3,000.00	25.00	\$165.00	\$109.89	\$1,080.00	\$330.00	
Implements	\$30,000.00	\$3,000.00	15.00	\$165.00	\$109.89	\$1,800.00	\$330.00	
Land	\$512,000.00	\$512,000.00	100.00	\$5,120.00	\$3,409.92	\$0.00	\$0.00	
Alfalfa Establishment	\$45,109.67		7.00			\$6,444.24		
Sub Total	\$1,255,109.67	\$581,800.00	NA	\$8,959.00	\$2,446.88	\$30,132.24	\$7,678.00	
Machinery and Vehicles	ì							
160 HP Tractor	\$101,000.00	\$10,100.00	15.00	\$555.50	\$369.96	\$6,060.00	\$1,111.00	\$4,444.00
80 HP Tractor w/loader	\$52,000.00	\$5,200.00	15.00	\$286.00	\$190.48	\$3,120.00	\$572.00	\$2,288.00
80 HP Tractor	\$52,000.00	\$5,200.00	15.00	\$286.00	\$190.48	\$3,120.00	\$572.00	\$2,288.00
Harrow Bed	\$56,000.00	\$5,600.00	15.00	\$308.00	\$205.13	\$3,360.00	\$616.00	\$2,464.00
Rotary Mower	\$60,000.00	\$6,000.00	15.00	\$330.00	\$219.78	\$3,600.00	\$660.00	\$2,640.00
Rakes	\$20,000.00	\$2,000.00	15.00	\$110.00	\$73.26	\$1,200.00	\$220.00	\$880.00
Baler (1 large or 2 small)	\$52,000.00	\$5,200.00	10.00	\$286.00	\$190.48	\$4,680.00	\$572.00	\$2,288.00
3/4 Ton Pickup (2)	\$72,000.00	\$7,200.00	4.00	\$396.00	\$263.74	\$16,200.00	\$792.00	\$3,168.00
4-Wheeler	\$6,000.00	\$600.00	5.00	\$33.00	\$21.98	\$1,080.00	\$66.00	\$264.00
Sub Total	\$471,000.00	\$46,500.00	NA	\$2,590.50	\$1,703.30	\$41,340.00	\$5,181.00	\$20,724.00
Total	\$1,726,109.67	\$628,300.00	NA	\$11,549.50	\$4,150.18	\$71,472.24	\$12,859.00	\$20,724.00

Table 1: Humboldt County Alfalfa Hay Establishment Costs

			Price/Cost	Total	Total Cost/Value	Your
	Total Units	Unit	Per Unit	Cost/Value	Per Acre	Farm
OPERATING COSTS						
Rodent Control	500.00	Acre	\$5.50	\$2,750.00	\$5.50	
Insecticide	500.00	Acre	\$10.00	\$5,000.00		
Herbicide	500.00	Acre	\$15.00	\$7,500.00		
Fertilizer	500.00	Acre	\$55.00	\$27,500.00		
Irrigation	500.00	Acre	\$65.00	\$32,500.00		
Alfalfa Seed	18.00	Lbs/Acre	\$2.75	\$24,750.00		
Roundup	2.50	Quarts/Acre	\$11.25	\$14,062.50		
Hired Labor	1.50	Annual	\$24,000.00	\$36,000.00		
Operator Labor	1.00	Annual	\$24,000.00	\$24,000.00		
Accounting & Legal	1.00	Annual	\$2,000.00	\$2,000.00		
Fuel & Lube	1.25	Annual	\$20,724.00	\$25,905.00		
Maintenance	1.00	Annual	\$12,859.00	\$12,859.00	\$25.72	
Utilities	1.00	Annual	\$6,000.00	\$6,000.00	\$12.00	
Miscellaneous	500.00	Acre	\$5.00	\$2,500.00		
Interest Operating Capital	\$178,661.20	\$	0.065	\$5,806.49	\$11.61	
TOTAL OPERATING COST	S			\$229,132.99	\$458.27	
OWNERSHIP COSTS						
CASH OVERHEAD COSTS	}					
Liability Insurance				\$1,749.00	\$3.50	
Office & Travel				\$3,000.00		
Annual Investment Insurance	e			\$4,150.18	\$8.30	
Annual Investment Taxes				\$11,549.50		
TOTAL CASH OVERHEAD	COSTS			\$20,448.68	\$40.90	
TOTAL CASITOVERILAD	00313			Ψ20,440.00	φ40.90	
NONCASH OVERHEAD CO	OSTS (Capital F	Recovery)				
Buildings, Improvements, &	Equipment			\$23,688.00		
Machinery & Vehicles				\$41,340.00	\$82.68	
TOTAL NONCASH OVERH	FAD COSTS			\$65,028.00	\$130.06	
TOTAL NONCACTIONERT	LAD 00010			ψ00,020.00	ψ130.00	
TOTAL OWNERSHIP COS	TS			\$85,476.68	\$170.95	
TOTAL COCTO				\$24.4.COO.C7	¢c20.22	
TOTAL COSTS				\$314,609.67	\$629.22	
YEAR ONE INCOME						
Alfalfa Hay	5.50	Tons	\$98.00	\$269,500.00	\$539.00	
TOTAL GROSS INCOME				\$269,500.00	\$539.00	
TOTAL ESTABLISHMENT	INVESTMENT			\$45,109.67	\$90.22	
				ψ.ο, ιουιοι	700.22	

Table 2: Humboldt County Alfalfa Hay Production Costs and Returns

			Price/Cost	Total	Total Cost/Value	Your
GROSS INCOME	Total Units	Unit	Per Unit	Cost/Value	Per Acre	Farm
	5.50	Tons	00.902	\$269,500.00	\$530 OO	
Alfalfa Hay TOTAL GROSS INCOME	5.50	10115	\$98.00	\$269,500.00	\$539.00 \$539.00	
TOTAL GROSS INCOME				\$209,500.00	φυυθ.00	
OPERATING COSTS						
Rodent Control	500.00	Acre	\$5.50	\$2,750.00	\$5.50	
Insecticide	500.00	Acre	\$15.00	\$7,500.00	\$15.00	
Herbicide	500.00	Acre	\$22.00	\$11,000.00		
Fertilizer	500.00	Acre	\$55.00	\$27,500.00		
Irrigation	500.00	Acre	\$65.00	\$32,500.00		
Hired Labor	1.50	Annual	\$24,000.00	\$36,000.00		
Operator Labor	1.00	Annual	\$24,000.00	\$24,000.00	\$48.00	
Accounting & Legal	1.00	Annual	\$2,000.00	\$2,000.00	\$4.00	
Fuel & Lube	1.00	Annual	\$20,724.00	\$20,724.00	\$41.45	
Maintenance	1.00	Annual	\$12,859.00	\$12,859.00		
Utilities	1.00	Annual	\$6,000.00	\$6,000.00		
Miscellaneous	500.00	Acre	\$5.00	\$2,500.00		
		\$	0.065	\$4,818.66		
Interest Operating Capital	\$148,266.40	Φ	0.065	Ф4,010.00	φ9.0 4 ₋	
TOTAL OPERATING COSTS				\$190,151.66	\$380.30	
INCOME ABOVE OPERATING	COSTS			\$79,348.34	\$158.70	
OWNERSHIP COSTS CASH OVERHEAD COSTS						
Liability Insurance				\$1,749.00	\$3.50	
Office & Travel				\$3,000.00	\$6.00	
Annual Investment Insurance				\$4,150.18		
Annual Investment Taxes				\$11,549.50	\$23.10	
TOTAL CASH OVERHEAD CO	STS			\$20,448.68	\$40.90	
NONCASH OVERHEAD COST	S (Canital Reco	werv)				
Buildings, Improvements, & Equ	• •	very)		\$30,132.24	\$60.26	
Machinery & Vehicles	шрттетт			\$41,340.00	-	
Machinery & Vehicles				Ф41,340.00	φο2.00	
TOTAL NONCASH OVERHEA	D COSTS			\$71,472.24	\$142.94	
				·		
TOTAL OWNERSHIP COSTS				\$91,920.92	\$183.84	
TOTAL COSTS				\$282,072.58	\$564.15	
10.712 00010				Ψ202,012.00	ψουτ.10	
NET PROJECTED RETURNS				-\$12,572.58	-\$25.15	
					WA Exhibit	105

Table 1
Net Returns per Acre above Total Costs for Alfalfa Hay

Price	Yield Tons/Acre										
\$/ton	3	3.5	4	4.5	5	5.5	6				
\$85.00	(\$309.14)	(\$266.64)	(\$224.14)	(\$181.64)	(\$139.14)	(\$96.64)	(\$54.14)				
\$95.00	(\$279.14)	(\$231.64)	(\$184.14)	(\$136.64)	(\$89.14)	(\$41.64)	\$5.86				
\$105.00	(\$249.14)	(\$196.64)	(\$144.14)	(\$91.64)	(\$39.14)	\$13.36	\$65.86				
\$115.00	(\$219.14)	(\$161.64)	(\$104.14)	(\$46.64)	\$10.86	\$68.36	\$125.86				
\$125.00	(\$189.14)	(\$126.64)	(\$64.14)	(\$1.64)	\$60.86	\$123.36	\$185.86				
\$135.00	(\$159.14)	(\$91.64)	(\$24.14)	\$43.36	\$110.86	\$178.36	\$245.86				
\$145.00	(\$129.14)	(\$56.64)	\$15.86	\$88.36	\$160.86	\$233.36	\$305.86				
\$155.00	(\$99.14)	(\$21.64)	\$55.86	\$133.36	\$210.86	\$288.36	\$365.86				
\$165.00	(\$69.14)	\$13.36	\$95.86	\$178.36	\$260.86	\$343.36	\$425.86				
\$175.00	(\$39.14)	\$48.36	\$135.86	\$223.36	\$310.86	\$398.36	\$485.86				
\$185.00	(\$9.14)	\$83.36	\$175.86	\$268.36	\$360.86	\$453.36	\$545.86				
\$195.00	\$20.86	\$118.36	\$215.86	\$313.36	\$410.86	\$508.36	\$605.86				
\$205.00	\$50.86	\$153.36	\$255.86	\$358.36	\$460.86	\$563.36	\$665.86				

Source: Table matrix generated from the cost estimates in the UNR studies for alfalfa and cow-calf operations. SNWA Exhibit 103

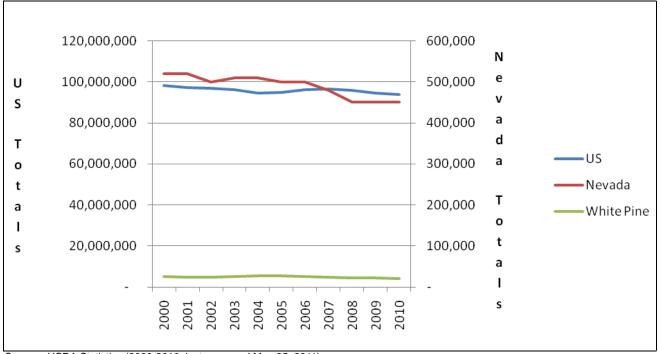
Table 2 **Dairy Long-Term Projections**

Item	Units	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Milk Production and Marketin	gs												
Number of cows	Thousand	9,201	9,115	9,130	9,095	9,070	9,045	9,025	9,005	8,990	8,970	8,955	8,940
Milk per cow	Pounds	20,576	21,160	21,425	21,780	22,180	22,600	22,990	23,425	23,735	24,105	24,480	24,950
Milk production	Bil. lbs.	189.3	192.8	195.6	198.1	201.2	204.4	207.5	210.9	213.4	216.2	219.2	223.1
Farm use	Bil. lbs.	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	8.0	8.0	0.8
Marketings	Bil. lbs.	188.3	191.9	194.6	197.1	200.2	203.5	206.6	210.0	212.5	215.4	218.4	222.3
Supply and Use, Milkfat Basis	}												
Beginning commercial stocks	Bil. lbs.	10.1	11.3	10.1	10.6	10.9	11.1	11.1	10.9	10.5	10.0	9.6	9.3
Marketings	Bil. lbs.	188.3	191.9	194.6	197.1	200.2	203.5	206.6	210.0	212.5	215.4	218.4	222.3
Imports	Bil. lbs.	5.6	4.6	4.1	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.1	5.2
Commercial supply	Bil. lbs.	204.0	207.8	208.9	212.0	215.5	219.1	222.3	225.6	227.8	230.3	233.1	236.8
Domestic commercial use ^a	Bil. lbs.	187.3	189.7	192.1	194.9	197.6	200.4	203.3	206.6	208.8	211.1	213.7	216.9
Commercial exports	Bil. lbs.	4.5	7.7	6.2	6.2	6.8	7.6	8.1	8.5	9.0	9.6	10.1	10.8
Ending commercial stocks	Bil. lbs.	11.3	10.1	10.6	10.9	11.1	11.1	10.9	10.5	10.0	9.6	9.3	9.1
Total utilization	Bil. lbs.	203.1	207.5	208.9	212.0	215.5	219.1	222.3	225.6	227.8	230.3	233.1	236.8
CCT net removals ^b	Bil. lbs.	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Supply and Use, Skim Solids	Basis												
Beginning commercial stocks	Bil. lbs.	10.9	11.3	11.8	11.5	11.1	10.9	10.7	10.6	10.5	10.5	10.5	10.6
Marketings	Bil. lbs.	188.3	191.9	194.6	197.1	200.2	203.5	206.6	210.0	212.5	215.4	218.4	222.3
Imports	Bil. lbs.	5.5	5.1	4.9	5.1	5.3	5.5	5.7	5.9	6.1	6.4	6.6	6.9
Commercial supply	Bil. lbs.	204.7	208.2	211.3	213.7	216.6	219.9	223.0	226.5	229.1	232.3	235.5	239.8
Domestic commercial use ^a	Bil. lbs.	168.6	167.0	170.3	172.5	174.8	177.5	180.3	183.3	185.5	188.0	190.5	193.8
Commercial exports	Bil. lbs.	22.4	29.8	29.5	30.1	30.9	31.7	32.1	32.7	33.1	33.8	34.4	35.3
Ending commercial stocks	Bil. lbs.	11.3	11.8	11.5	11.1	10.9	10.7	10.6	10.5	10.5	10.5	10.6	10.7
Total utilization	Bil. lbs.	202.3	208.6	211.3	213.7	216.6	219.9	223.0	226.5	229.1	232.3	235.5	239.8
CCT net removals ^b	Bil. lbs.	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prices													
All milk	\$/cwt	12.83	16.35	16.40	16.95	17.10	17.30	17.45	17.70	17.90	18.20	18.50	18.70
Dairy projections were completed in I													

CCC is the Commodity Credit Corporation, U.S. Department of Agriculture.

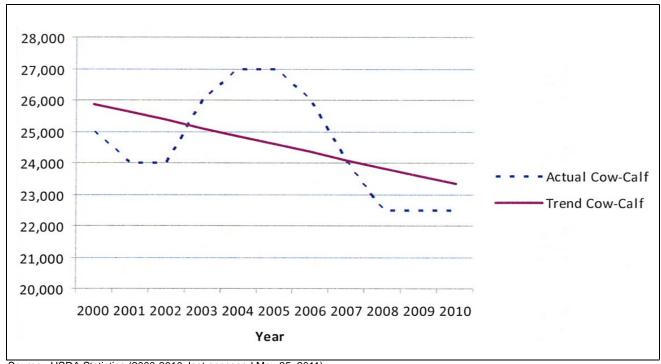
Totals may not add due to rounding.

^aDomestic commercial use is adjusted for the Barter Program.
^bIncludes products exported under the Dairy Export Incentive Program.



Source: USDA Statistics (2000-2010, last accessed May 25, 2011)

Figure 10
Cow Calf Inventory



Source: USDA Statistics (2000-2010, last accessed May 25, 2011).

Table 1: White Pine County 500 Cow-Calf Production Costs and Returns

	Weight Per	Unit of		Price/Cost		Value/Cost	Your
Description	Animal		Total Units	Per Unit	Total Value	Per Head	Ranch
Description	Allillai	Weasure	Total Offics	rei Oilit	i Otal Value	rei neau	Nancii
GROSS INCOME							
Cull Cows	1100.00	lbs	90.00	\$0.48	\$47,520.00	\$95.04	
Cull Bulls	1600.00	lbs	6.00	\$0.65	\$6,240.00		
Yearling Replacements	0.00	lbs	0.00	\$0.80	\$0.00		
Heifer Calves	425.00	lbs	217.00	\$1.20	\$110,670.00		
Steer Calves	450.00	lbs	216.00	\$1.28	\$124,416.00	\$248.83	
TOTAL INCOME				· · · · · · · · · · · · · · · · · · ·	\$288,846.00	\$577.69	
					•		
OPERATING COSTS							
Aftermath Grazing		Head	500.00	\$12.00	\$6,000.00	\$12.00	
Grain		Ton	8.50	\$120.00	\$1,020.00		
Alfalfa Hay		Ton	1400.00	\$70.00	\$98,000.00	\$196.00	
Federal Grazing (BLM)		AUM	3179.00	\$1.43			
Horse (Shoeing, Vet, Feed,	etc.)	Head	15.00	\$360.00			
Veterinary/Medical	•	Head	500.00	\$9.00	\$4,500.00		
Marketing (Brand, Video, Co	ommission)	Head	529.00	\$9.33			
Checkoff	,	Head	529.00	\$1.00		\$1.06	
Salt & Minerals		Head	500.00	\$5.50		\$5.50	
Hired Labor		Annual	1.50	\$18,000.00			
Operator Labor		Monthly	12.00	\$2,000.00			
Accounting & Legal Fees		\$	1.00	\$3,000.00			
Maintenance (Buildings, Ve	hicles, etc.)	\$	1.00	\$16,507.00			
Fuel & Lube	, ,	\$		\$15,224.00			
Utilities		\$	1.00	\$2,100.00			
Miscellaneous		Head	500.00	\$6.00		\$6.00	
Interest Operating Capital		\$	\$170,081.82	•		\$11.06	
TOTAL OPERATING COST	TS	•	+ -,		\$218,129.94	\$436.26	
						·	
INCOME ABOVE OPERAT	ING COSTS				\$70,716.06	\$141.43	
014/15/2011/20050							
OWNERSHIP COSTS	(! = .= \ .						
Capital Recovery (Deprecia		Φ.	4.00	\$7.540.50	Ф 7 Б 40 00	#45.00	
Buildings, Improvements	s, & Equipment	\$	1.00	\$7,540.50			
Machinery & Vehicles		\$		\$16,423.50		·	
Purchased Livestock (Bu	ulis & Horses)	\$	1.00	\$15,312.50	\$15,312.50	\$30.63	
Cash Overhead:		Φ.	4.00	04 7 40 00	04 7 40 00	#0.50	
Liability Insurance		\$	1.00			\$3.50	
Office & Travel	-41-	\$	1.00	. ,		\$6.00	
Interest on Retained Live		\$	1.00		•	\$1.84	
Annual Investment Insura		\$	1.00			\$3.13	
Annual Investment Taxes		\$	1.00	\$2,351.05	\$2,351.05	\$4.70	
TOTAL OWNERSHIP COS	515				\$48,861.73	\$97.72	
TOTAL COSTS					\$266,991.67	\$533.98	
					,	,,,,,,,,	
NET PROJECTED RETUR	NS				\$21,854.33	\$43.71	



COOPERATIVE EXTENSION

Bringing the University to You

Fact Sheet 05-42

White Pine County Cow-Calf Production Costs & Returns, 2004

Kynda R. Curtis, Assistant Professor and Extension Specialist, Department of Resource Economics, College of Agriculture, Biotechnology and Natural Resources, University of Nevada, Reno
 David T. Sceirine, Undergraduate Student, Department of Resource Economics, University of Nevada, Reno
 William W. Riggs, Eureka County Extension Educator, University of Nevada Cooperative Extension
 Robert Wilson, White Pine County Extension Educator, University of Nevada Cooperative Extension



INTRODUCTION

Sample costs and returns to raise beef cattle in White Pine County, Nevada, 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. Practices described are based on the production practices considered typical for a beef cattle cow-calf operation in this region, but may not apply to every operation. A "Your Ranch" column in Table 1 is provided for your use.

ASSUMPTIONS

The following assumptions refer to Tables 1 through 3 and reflect the typical costs and returns associated with beef cattle production in White

Pine County, Nevada. The practices described are not the recommendations of the University of Nevada, Reno, but rather the production practices and materials considered typical of a well-managed beef cattle operation in the region as determined by a producer panel conducted in November of 2004. Costs, materials, and practices are not applicable to every operation, as production practices vary among ranchers within the region.

Ranch Description

Livestock. The livestock inventory consists of 500 cows, 25 bulls, and 15 horses. Four replacement bulls are purchased annually, with a useful life of 4 years. Cow replacement is 20%,

Table 1: White Pine County 500 Cow-Calf Production Costs and Returns

	W : 1 / B			D: 10 1			v
.	Weight Per	Unit of	Tatal Halta	Price/Cost	T-1-1 V-1	Value/Cost	Your
Description	Animal	Measure	Total Units	Per Unit	Total Value	Per Head	Ranch
GROSS INCOME							
Cull Cows	1100.00	lbs	90.00	\$0.48	\$47,520.00	¢05.04	
Cull Bulls	1600.00	lbs	6.00	\$0.46 \$0.65	\$6,240.00	\$90.0 4	
		lbs	0.00	\$0.80	\$0.00	φ12.40 ¢0.00	
Yearling Replacements	0.00						
Heifer Calves	425.00	lbs	217.00	\$1.20 \$1.20	\$110,670.00	\$248.83	
Steer Calves TOTAL INCOME	450.00	lbs	216.00	\$1.28	\$124,416.00		
TOTAL INCOME					\$288,846.00	\$577.69	
OPERATING COSTS							
Aftermath Grazing		Head	500.00	\$12.00	\$6,000.00	\$12.00	
Grain		Ton	8.50	\$120.00	\$1,020.00	ψ12.00 \$2.04	
Alfalfa Hay		Ton	1400.00	\$70.00	\$98,000.00		
Federal Grazing (BLM)		AUM	3179.00	\$1.43	\$4,545.36	φ190.00	
Horse (Shoeing, Vet, Feed	oto)	Head	15.00	\$360.00		ψ9.09 ¢ 10.90	
Veterinary/Medical	, etc.)	Head	500.00	\$9.00	\$4,500.00	φ10.00	
Marketing (Brand, Video, C	'ammission)	Head	529.00			φ9.00 Φ11 EE	
Checkoff	ommission)	Head		\$1.00	\$529.00	φ11.33 Φ1.06	
Salt & Minerals		Head	529.00 500.00	\$1.00 \$5.50			
Hired Labor		Annual		\$18,000.00	\$20,250.00		
Operator Labor		Monthly	12.00	\$2,000.00		φ46.00 ¢c.00	
Accounting & Legal Fees	-h:-l4- \	\$	1.00	\$3,000.00	\$3,000.00	\$6.00	
Maintenance (Buildings, Ve	enicies, etc.)	\$		\$16,507.00			
Fuel & Lube		\$ \$		\$15,224.00			
Utilities		•	1.00		\$2,100.00		
Miscellaneous		Head	500.00	\$6.00	\$3,000.00	\$6.00	
Interest Operating Capital	TO.	\$	\$170,081.82	0.065	\$5,527.66	\$11.06	
TOTAL OPERATING COS	013				\$218,129.94	\$436.26	
INCOME ABOVE OPERAT	TING COSTS				\$70,716.06	\$141.43	
INCOME ABOVE OF ERA	11140 00313				\$70,710.00	ψ141.43	
OWNERSHIP COSTS							
Capital Recovery (Deprecia	ation).						
Buildings, Improvement	,	\$	1.00	\$7,540.50	\$7,540.00	\$15.08	
Machinery & Vehicles	o, a Equipinion	\$		\$16,423.50			
Purchased Livestock (B	ulls & Horses)	\$		\$15,312.50		\$30.63	
Cash Overhead:	uno a 1 101000j	Ψ	1.00	ψ10,012.00	ψ10,012.00	Ψ00.00	
Liability Insurance		\$	1 00	\$1,749.00	\$1,749.00	\$3.50	
Office & Travel		\$	1.00		\$3,000.00		
Interest on Retained Live	estock	\$	1.00		\$919.88		
Annual Investment Insur		\$	1.00		\$1,565.80	\$3.13	
Annual Investment Taxe		\$	1.00		\$2,351.05	\$4.70	
TOTAL OWNERSHIP COS		Ψ	1.00	Ψ2,331.03	\$48,861.73	\$97.72	
TOTAL OTHEROTHI COC	<u>.</u>				ψ-10,001.73	ψ31.12	
TOTAL COSTS					\$266,991.67	\$533.98	
101AL 00010					Ψ200,331.07	Ψ333.30	
NET PROJECTED RETUR	RNS				\$21,854.33	\$43.71	
I KOOLOILD KLIOK					Ψ= 1,00 1 .00	Ψ-τυ Ι	

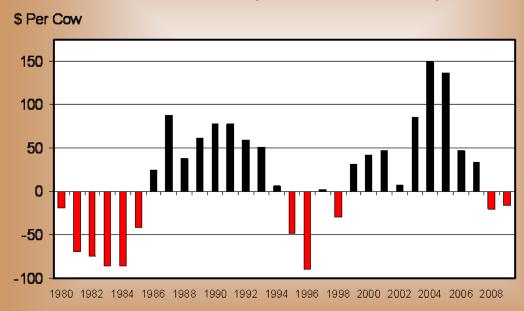
Table 3
Net Returns per Cow above Cost for a Cow-Calf Operation

Calf Price	Alfalfa Cost \$/Ton								
\$/cwt	\$85	\$100	\$115	\$130	\$145	\$160	\$175	\$190	\$205
\$110	(\$82.36)	(\$124.36)	(\$166.36)	(\$208.36)	(\$250.36)	(\$292.36)	(\$334.36)	(\$376.36)	(\$418.36)
\$115	(\$52.56)	(\$94.56)	(\$136.56)	(\$178.56)	(\$220.56)	(\$262.56)	(\$304.56)	(\$346.56)	(\$388.56)
\$120	(\$22.76)	(\$64.76)	(\$106.76)	(\$148.76)	(\$190.76)	(\$232.76)	(\$274.76)	(\$316.76)	(\$358.76)
\$125	\$7.04	(\$34.96)	(\$76.96)	(\$118.96)	(\$160.96)	(\$202.96)	(\$244.96)	(\$286.96)	(\$328.96)
\$130	\$36.85	(\$5.15)	(\$47.15)	(\$89.15)	(\$131.15)	(\$173.15)	(\$215.15)	(\$257.15)	(\$299.15)
\$135	\$66.65	24.65	(\$17.35)	(\$59.35)	(\$101.35)	(\$143.35)	(\$185.35)	(\$227.35)	(\$269.35)
\$140	\$96.45	\$54.45	\$12.45	(\$29.55)	(\$71.55)	(\$113.55)	(\$155.55)	(\$197.55)	(\$239.55)
\$145	\$126.25	\$84.25	\$42.25	\$0.25	(\$41.75)	(\$83.75)	(\$125.75)	(\$167.75)	(\$209.75)

Source: Table matrix generated from the cost estimates in the UNR studies for alfalfa and cow-calf operations.

ESTIMATED AVERAGE COW CALF RETURNS

Returns Over Cash Cost (Includes Pasture Rent), Annual



Source: Livestock Marketing Information Center *Chart of the Week*; http://www.lmic.info/memberspublic/pubframes.html date accessed: May, 2008.

Table 4
Net Returns per acre above Cost for a Joint Alfalfa/Cow-Calf Operation for Alfalfa Yield of 3.5 Tons/Acre

Calf Price	Alfalfa Price \$/Ton									
\$/cwt	\$85	\$100	\$115	\$130	\$145	\$160	\$175	\$190	\$205	
\$110	(\$276.17)	(\$265.67)	(\$255.17)	(\$244.67)	(\$234.17)	(\$223.67)	(\$213.17)	(\$202.67)	(\$192.17)	
\$115	(\$246.37)	(\$235.87)	(\$225.37)	(\$214.87)	(\$204.37)	(\$193.87)	(\$183.37)	(\$172.87)	(\$162.37)	
\$120	(\$216.57)	(\$206.07)	(\$195.57)	(\$185.07)	(\$174.57)	(\$164.07)	(\$153.57)	(\$143.07)	(\$132.57)	
\$125	(\$186.76)	(\$176.26)	(\$165.75)	(\$155.26)	(\$144.76)	(\$134.26)	(\$123.76)	(\$113.26)	(\$102.76)	
\$130	(\$156.96)	(\$146.46)	(\$135.96)	(\$125.46)	(\$114.96)	(\$104.46)	(\$93.96)	(\$83.46)	(\$72.96)	
\$135	(\$127.16)	(\$116.66)	(\$106.16)	(\$95.66)	(\$85.16)	(\$74.66)	(\$64.16)	(\$53.66)	(\$43.16)	
\$140	(\$97.36)	(\$86.86)	(\$76.36)	(\$65.86)	(\$55.36)	(\$44.86)	(\$34.36)	(\$23.86)	(\$13.36)	
\$145	(\$67.55)	(\$57.05)	(\$46.55)	(\$36.05)	(\$25.55)	(\$15.05)	(\$4.55)	\$5.95	\$16.45	

Source: Table matrix generated from the cost estimates in the UNR studies for alfalfa and cow-calf operations.

Table 5
Net Returns per acre above Cost for a Joint Alfalfa/Cow-Calf Operation for Alfalfa Yield of 4.5 Tons/Acre

Calf Price	Alfalfa Price \$/Ton								
\$/cwt	\$85	\$100	\$115	\$130	\$145	\$160	\$175	\$190	\$205
\$110	(\$191.17)	(\$165.67)	(\$140.17)	(\$114.67)	(\$89.17)	(\$63.67)	(\$38.17)	(\$12.67)	\$12.83
\$115	(\$161.37)	(\$135.87)	(\$110.37)	(\$84.87)	(\$59.37)	(\$33.87)	(\$8.37)	\$17.13	\$42.63
\$120	(\$131.57)	(\$106.07)	(\$80.57)	(\$55.07)	(\$29.57)	(\$4.07)	\$21.43	\$46.93	\$72.43
\$125	(\$101.76)	(\$76.26)	(\$50.76)	(\$25.26)	\$0.24	\$25.74	\$51.24	\$76.74	\$102.24
\$130	(\$71.96)	(\$46.46)	(\$20.96)	\$4.54	\$30.04	\$55.54	\$81.04	\$106.54	\$132.04
\$135	(\$42.16)	(\$16.66)	\$8.84	\$34.34	\$59.84	\$85.34	\$110.84	\$136.34	\$161.84
\$140	(\$12.36)	\$13.14	\$38.64	\$64.14	\$89.64	\$115.14	\$140.64	\$166.14	\$191.64
\$145	\$17.45	\$42.95	\$68.45	\$93.95	\$119.45	\$144.95	\$170.45	\$195.95	\$221.45

Source: Table matrix generated from the cost estimates in the UNR studies for alfalfa and cow-calf operations. SNWA Exhibit 103

Table 6
Net Returns per acre above Cost for a Joint Alfalfa/Cow-Calf Operation for Alfalfa Yield of 5.5 Tons/Acre

Calf Price	Alfalfa Price \$/Ton								
\$/cwt	\$85	\$100	\$115	\$130	\$145	\$160	\$175	\$190	\$205
\$110	(\$106.17)	(\$65.67)	(\$25.17)	\$15.33	\$55.83	\$96.33	\$136.83	\$177.33	\$217.83
\$115	(\$76.37)	(\$35.87)	\$4.63	\$45.13	\$85.63	\$126.13	\$166.63	\$207.13	\$247.63
\$120	(\$46.57)	(\$6.07)	\$34.43	\$74.93	\$115.43	\$155.93	\$196.43	\$236.93	\$277.43
\$125	(\$16.76)	\$23.74	\$64.24	\$104.74	\$145.24	\$185.74	\$226.24	\$266.74	\$307.24
\$130	\$13.04	\$53.54	\$94.04	\$134.54	\$175.04	\$215.54	\$256.04	\$296.54	\$337.04
\$135	\$42.84	\$83.34	\$123.84	\$164.34	\$204.84	\$245.34	\$285.84	\$326.34	\$366.84
\$140	\$72.64	\$113.14	\$153.64	\$194.14	\$234.64	\$275.14	\$315.64	\$356.14	\$396.64
\$145	\$102.45	\$142.95	\$183.45	\$223.95	\$264.45	\$304.95	\$345.45	\$385.95	\$426.45

Source: Table matrix generated from the cost estimates in the UNR studies for alfalfa and cow-calf operations.

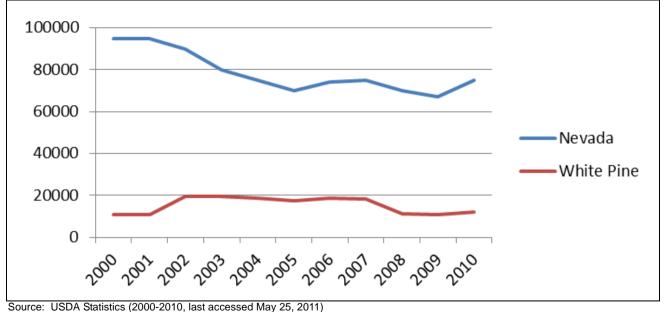


Figure 12 Sheep Inventory 2000-2010, Nevada and White Pine County