

Table 2. Pumping Costs and Data for Irrigation Wells, Northern Mountain Counties, 2007

INPUT DATA

DELIVERY PSI:		DEPTH CHARACTERISTICS:	
SPRINKLER...	0	STATIC.....	15
		DRAW DC.....	55
		TOTAL HEAD.....	70
		CASING.....	125
GALLONS PER MINUTE (GPM)	1500		
WORK HORSEPOWER.....	27		
EFFICIENCY FACTOR:			
ELECTRICITY.....	0.447		
NATURAL GAS.....	0.125		
BUTANE.....	0.186		
DIESEL.....	0.199		
FUEL COST PER UNIT:			
ELECTRICITY.....	9.00	CENTS/kwh	
NATURAL GAS.....	3.50	\$/MCF	
BUTANE.....	1.21	\$/GAL	
DIESEL.....	1.35	\$/GAL	

FUEL PUMPING COSTS:

ELECTRICAL WELL:	
COST PER HOUR.....\$	4.01
COST PER ACRE IN.....\$	1.21
NATURAL GAS WELL:	
COST PER HOUR.....\$	2.10
COST PER ACRE IN.....\$	0.63
BUTANE WELL:	
COST PER HOUR.....\$	4.81
COST PER ACRE IN.....\$	1.45
DIESEL WELL:	
COST PER HOUR.....\$	3.26
COST PER ACRE IN.....\$	0.98

TABLE 2a. Equipment summary for a 40 acre farm with above average management, Northern Mountain Counties, 2006.

EQUIPMENT	ANNUAL			VARIABLE COSTS				FIXED COSTS		
	HOURS OF USE	NUMBER	TOTAL FUEL AND LUBRICANT VALUE	FUEL, LUBE REPAIR PER HR	REPAIR PER HR	DEPRECIATION	TAXES	TOTAL PER HOUR		
TRACTOR 40 HP	30	1	1,600	126	3	4.19	0.11	63	14	2.55
RAKE 8FT	8	1	1,550		5		0.68	155	18	22.15
BALER, PTO 2-WIRE	21	1	1,500		8		0.39	385	44	20.73
LAND PLANE 14 FT.	6	1	0		0		0.00	0	0	0.00
DISC 12 FT	11	1	0		0		0.00	0	0	0.00
PLOW 3-BOTTOM (FLIP)	21	1	0		0		0.00	0	0	0.00
BROADCAST SEEDER	8	1	0		0		0.00	0	0	0.00
SWATHER	23	1	1,300	0	19	0.00	0.81	130	15	6.27
BORDER DISC 6-DISC	2	1	750		1		0.93	100	9	70.06
DRAG	8	1	200		0		0.00	13	1	1.83
			6,700	126	37			833	100	

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Table 3a. Livestock Production Parameters

NUMBER OF COWS	40
COWS PER BULL	19.5
NUMBER OF HORSES	2
REPLACEMENT RATE (%)	0.1
CALF DEATH LOSS (%)	0.03
YEARLING DEATH LOSS (%)	0.0125
COW DEATH LOSS (%)	0.01
BULL DEATH LOSS (%)	0
CALF CROP (%)	0.85
PRODUCTIVE LIFE OF BULLS	5
PERCENT SOLD AS YEARLINGS:	
HEIFERS	0
STEERS	0

Table 3b. Forage Sources for Livestock

	ACRES	AUMS/ ACRE	AUMS PROVIDED
ALFALFA	10	1	10
LEASED RANGELAND			289.0308
GRASS HAY	30	1	30
BALED HAY (TONS)		104.4123	261.0308
TOTAL	40		590.0615

Table 3c. STOCK COUNT CHAF CALVES WERE BORN IN: MARCH

T21 SEASON	BULLS 1.4	REPLACEMENT COWS 1	HEIFERS 0.7	YEARLING STEERS 0.7	YEARLING HEIFERS 0.7	STEERS CALVES 0.5	HEIFER CALVES 0.5	TOTAL AUMs HORSES REQUIRED 1.25
JANUARY 2.051282		40				0	4	2 47.37
FEBUARY 2.051282		40				0	4	2 47.37
MARCH 2.051282		40	4					2 48.17
APRIL 2.051282		40	4					2 48.17
MAY 2.051282		40	4					2 48.17
JUNE 2.051282		40	4					2 48.17
JULY 2.051282		40	4					2 48.17
AUGUST 2.051282		40	4					2 48.17
SEPTEMB 2.051282		40	4			0		2 48.17
OCTOBER 2.051282		40				18	18	2 63.37
NOVEMBE 2.051282		40				0	4	2 47.37
DECEMBE 2.051282		40				0	4	2 47.37
								<u>590.06</u>

Table 3d. FORAGE BALANCE CHART

	TOTAL AUMs REQUIRED	ALFALFA	GRASS HAY	NATIVE ANGELAN	TOTAL AUMs SUPPLIED	HAY
JANUARY	47.37179	2	4.5	0.00	6.50	40.87
FEBRUAR	47.37179	2	4.5	0.00	6.50	40.87
MARCH	48.17179	0	6	0.00	6.00	42.17
APRIL	48.17179	0	6	0.00	6.00	42.17
MAY	48.17179	0	0	48.17	48.17	0.00
JUNE	48.17179	0	0	48.17	48.17	0.00
JULY	48.17179	0	0	48.17	48.17	0.00
AUGUST	48.17179	0	0	48.17	48.17	0.00
SEPTEMB	48.17179	0	0	48.17	48.17	0.00
OCTOBER	63.37179	2	0	48.17	50.17	13.20
NOVEMBE	47.37179	2	4.5	0.00	6.50	40.87
DECEMBE	47.37179	2	4.5	0.00	6.50	40.87
Total AUM	590.0615	10	30	289.03	329.03	261.03

TABLE 4. Alfalfa establishment, flood-irrigated, budgeted per acre costs and returns for a 40 acre farm with above average management, Northern Mountain Counties, 2007
Planting dates: August 1- September 1

ITEM	PRICE	QUANTITY	PURCHASED INPUTS		TOTAL			
<u>PURCHASED INPUTS</u>								
SEED	2.95	17.00 LBS	50.15		50.15			
NITROGEN (N)	0.29	0.00 LBS	0.00		0.00			
PHOSPHATE (P2O5)	0.20	0.00 LBS	0.00		0.00			
CANAL WATER		12.00 AC. IN.						
SUBTOTAL			50.15		50.15			
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	40 HP	0.31 HR		1.60	1.30	0.03	0.79	3.72
PLOW	40 HP	1.31 HR		6.75	5.49	0.15	3.34	15.72
DISC (1X)	40 HP	0.31 HR		1.60	1.30	0.03	0.79	3.72
BORDER DISC	40 HP	0.05 HR		0.26	0.21	0.05	3.63	4.15
DRILL	40 HP	0.41 HR		2.11	1.72	0.05	1.04	4.92
IRRIGATE (2X)		1.00 HR		5.15				5.15
SUBTOTAL		3.39 HR		17.46	10.01	0.32	9.59	37.38
<u>OVERHEAD EXPENSES</u>								
DOWNTIME		1.20 HR		6.18				6.18
EMPLOYEE BENEFITS				2.10				2.10
INSURANCE			0.35					0.35
SUPERVISION AND MANAGEMENT				8.32				8.32
SUBTOTAL		1.20 HR	0.35	16.60				16.95
TOTAL OPERATING EXPENSES		4.59 HR	50.50	34.06	10.01	0.32	9.59	104.47

TABLE 5. Alfalfa hay, flood-irrigated, budgeted per acre costs and returns for a 40 acre farm with above average management, Northern Mountain Counties, 2007
Harvest dates: June 10 - October 1

ITEM	PRICE	YIELD					TOTAL		
GROSS RETURNS									
ALFALFA HAY	140.00	1.75 TONS (STACKED)					245.00		
GRAZING	10.00	1.00 AUM					10.00		
TOTAL							255.00		
PURCHASED INPUTS									
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL	
NITROGEN (N)	0.29	0.00 LBS	0.00					0.00	
PHOSPHATE (P2O5)	0.20	55.00 LBS	11.00					11.00	
INSECTICIDE (CUSTOM)	0.00	0.00 ACRE	0.00					0.00	
WIRE	0.39	15.00 LBS	5.85					5.85	
ESTABLISHMENT: Principal		8.00 YEARS					13.06	13.06	
: Interest							4.65	4.65	
CANAL WATER		18.00 AC. IN.					7.00	7.00	
SUBTOTAL			16.85				24.71	41.56	
PREHARVEST OPERATIONS									
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS LABOR		FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
IRRIGATE (3X)		2.25 HR	11.59					11.59	
SUBTOTAL		2.25 HR	11.59					11.59	
HARVEST OPERATIONS									
MOWER (3X)	40 HP	1.35 HR		6.95	5.65	1.24	11.91	25.75	
BALER (5X)	40 HP	0.81 HR		4.17	3.39	0.40	18.86	26.82	
RAKE (3X)	40 HP	0.78 HR		4.02	3.27	0.62	19.26	27.17	
SUBTOTAL		2.94 HR		15.14	12.32	2.26	50.03	79.75	
OVERHEAD EXPENSES									
DOWNTIME		0.74 HR		3.79				3.79	
EMPLOYEE BENEFITS				3.21				3.21	
INSURANCE			0.53					0.53	
LAND TAXES							4.14	4.14	
SUPERVISION AND MANAGEMENT				21.57				21.57	
OTHER EXPENSES				73.79				73.79	
SUBTOTAL		0.74 HR		74.32	28.56		4.14	107.03	
TOTAL OPERATING EXPENSES		5.93 HR		91.17	55.29	12.32	2.26	78.88	239.92
NET OPERATING PROFIT								15.08	
INTEREST ON OPERATING CAPITAL	(9.64	@	0.08)			0.77	
INTEREST ON EQUIPMENT INVESTMENT								33.22	
RETURN TO LAND AND RISK								-18.91	

BUDGET SUMMARY

GROSS RETURN		255.00	
VARIABLE OPERATING EXPENSES	105.75		
RETURN OVER VARIABLE EXPENSES		149.25	(GROSS MARGIN)
FIXED EXPENSES	78.88		
NET FARM INCOME		70.37	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	55.29		
NET OPERATING PROFIT		15.08	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	33.99		
RETURN TO LAND AND RISK		-18.91	

TABLE 6. Permanent pasture establishment, flood-irrigated, budgeted per acre costs and returns for a 40 acre farm with above average management, Northern Mountain Counties, 2007.
Planting dates: May 15 - July 1

ITEM	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
<u>PURCHASED INPUTS</u>								
FESCUE SEED	2.85	17.00 LBS		48.45				48.45
NITROGEN	0.29	70.00 LBS		20.30				20.30
CANAL WATER		18.00 AC. IN.						
SUBTOTAL				68.75				68.75
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	40 HP	0.31 HR		1.60	1.30	0.03	0.79	3.72
PLOW	40 HP	1.31 HR		6.75	5.49	0.15	3.34	15.72
FERTILIZE	40 HP	0.05 HR		0.26	0.21	0.01	0.13	0.60
FLOAT	40 HP	0.32 HR		1.65	1.34	0.04	0.82	3.84
BORDER DISC	40 HP	0.00 HR		0.00	0.00	0.00	0.00	0.00
DRILL	40 HP	0.41 HR		2.11	1.72	0.05	1.04	4.92
IRRIGATE (3X)		2.25 HR		11.59				11.59
SUBTOTAL		4.65 HR		23.95	10.05	0.27	6.11	40.38
<u>OVERHEAD EXPENSES</u>								
DOWNTIME		0.60 HR		3.09				3.09
EMPLOYEE BENEFITS				5.99				5.99
INSURANCE			0.48					0.48
SUPERVISION AND MANAGEMENT				11.09				11.09
SUBTOTAL		0.60 HR	0.48	20.17				20.65
TOTAL OPERATING EXPENSES		5.25 HR	69.23	44.11	10.05	0.27	6.11	129.78

TABLE 7. Permanent pasture, flood-irrigated, budgeted per acre costs and returns for a 40 acre farm with above with above average management, Northern Mountain Counties, 2007.
Harvest dates: Year Round

ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS								
PASTURE	12.00	9.00 AUMS						108.00
TOTAL							108.00	
PURCHASED INPUTS								
	PRICE	QUANTITY	PURCHASED				FIXED	TOTAL
PHOSPHATE	0.20	34	INPUTS				COST	
NITROGEN	0.29	70.00 LBS	6.80					6.80
ESTABLISHMENT: Principal		20.00 YEARS	20.30				6.49	6.49
: Interest							6.41	6.41
CANAL WATER		24.00 AC. IN.					7.00	7.00
SUBTOTAL			27.10				19.90	47.00
PREHARVEST OPERATIONS								
	POWER	ACCOMPLISHMENT	PURCHASED	FUEL			FIXED	TOTAL
	UNIT	RATE	INPUTS	& LUBE	REPAIRS		COST	
FERTILIZE	40HP	0.05		0.26	0.21	0.01	0.13	0.60
IRRIGATE (3X)		5.00 HR		25.75				25.75
CLEAN DITCHES CUSTOM			5.00					5.00
SUBTOTAL			5.00 HR	5.00	26.01	0.21	0.13	31.35
OVERHEAD EXPENSES								
DOWNTIME		0.00 HR		0.00				0.00
EMPLOYEE BENEFITS				3.12				3.12
INSURANCE			0.52					0.52
LAND TAXES								4.14
SUPERVISION AND MANAGEMENT				10.06				10.06
OTHER EXPENSES			73.79					73.79
SUBTOTAL			0.00 HR	74.31	13.18		4.14	91.63
TOTAL OPERATING EXPENSES			5.00 HR	106.41	39.19	0.21	0.01	24.17
NET OPERATING PROFIT								-61.98
INTEREST ON OPERATING CAPITAL	(47.00	@	0.08)
INTEREST ON EQUIPMENT INVESTMENT								2.40
								0.00
RETURN TO LAND AND RISK								-64.38

BUDGET SUMMARY

GROSS RETURN		108.00	
VARIABLE OPERATING EXPENSES	106.62		
RETURN OVER VARIABLE EXPENSES		1.38	(GROSS MARGIN)
FIXED EXPENSES	24.17		
NET FARM INCOME		-22.80	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	39.19		
NET OPERATING PROFIT		-61.98	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	2.40		
RETURN TO LAND AND RISK		-64.38	

TABLE 8. Grass hay establishment, flood irrigated, budgeted per acre costs and returns for a 40 acre farm, with above average management, Northern Mountain Counties, 2007.
Planting dates: May 15 - July 1

ITEM	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
<u>PURCHASED INPUTS</u>								
GRASS HAY SEED	0.43	15.00 LBS	6.45					6.45
NITROGEN (N)	0.29	70.00 LBS	20.30					20.30
PHOSPHATE (P205)	0.20	35.00 LBS	7.00					7.00
CANAL WATER (MAINTENANCE)		18.00 AC. IN.						0.00
SUBTOTAL			33.75					33.75
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & OIL	REPAIRS	FIXED COST	TOTAL
PLOW	40 HP	1.31 HR		6.75	5.49	0.15	3.34	15.72
DISC (2X)	40 HP	0.62 HR		3.19	2.60	0.07	1.58	7.44
FERTILIZE	40 HP	0.05 HR		0.26	0.21	0.01	0.13	0.60
DRAG	40 HP	0.32 HR		1.65	1.34	0.04	1.40	4.43
BROADCAST SEEDER	40 HP	0.05 HR		0.26	0.21	0.01	0.13	0.60
IRRIGATE (3X)		2.25 HR		11.59				11.59
SUBTOTAL		4.60 HR		23.69	9.84	0.27	6.57	40.37
<u>OVERHEAD EXPENSES</u>								
DOWNTIME		1.81 HR		9.30				9.30
EMPLOYEE BENEFITS				2.84				2.84
INSURANCE			0.47					0.47
LAND TAXES							4.14	4.14
SUPERVISION AND MANAGEMENT				78.67				78.67
OTHER EXPENSES			73.79					73.79
SUBTOTAL		1.81 HR	74.26	90.81			4.14	169.22
TOTAL OPERATING EXPENSES		6.41 HR	108.01	114.50	9.84	0.27	10.72	243.34

TABLE 9. Grass hay, flood-irrigated, budgeted per acre costs and returns for a 40 acre farm with above average management, Northern Mountain Counties, 2007.
Harvest dates: August 15 - September 30

ITEM	PRICE	YIELD						TOTAL	
GROSS RETURNS									
GRASS HAY	130.00	1.20 TONS (IN FIELD)						156.00	
GRAZING	10.00	1.00 AUM						10.00	
TOTAL								166.00	
PURCHASED INPUTS									
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL	
SEED	0.40	70.00 LBS	28.00					28.00	
PHOSPHATE	0.20	35.00 LBS	7.00					7.00	
NITROGEN	0.29	70.00 ACRE	20.30					20.30	
WIRE	0.39	10.28 LBS	4.01					4.01	
CANAL WATER		30.00 AC. IN.					25.00	25.00	
SUBTOTAL			59.31				25.00	84.31	
PREHARVEST OPERATIONS									
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
FERTILIZE	40HP	0.05		0.26	0.13	0.13	0.13	0.64	
IRRIGATE (5X)		3.75 HR		19.31	0.00	0.00	0.00	19.31	
CLEAN DITCHES	CUSTOM		5.00	0.00	0.00	0.00	0.00	5.00	
SUBTOTAL		3.80 HR	5.00	19.57	0.13	0.13	0.13	24.95	
HARVEST OPERATIONS									
SWATHER (2X)	40 HP	0.32 HR		1.65	0.00	0.26	2.01	3.91	
BALER (2X)	40 HP	0.42 HR		2.16	1.76	0.21	9.78	13.91	
SUBTOTAL		0.74 HR		3.81	1.76	0.47	11.78	17.82	
OVERHEAD EXPENSES									
DOWNTIME		0.37 HR		1.91				1.91	
EMPLOYEE BENEFITS				2.81				2.81	
INSURANCE			0.47					0.47	
LAND TAXES								4.14	
SUPERVISION AND MANAGEMENT				17.57				17.57	
OTHER EXPENSES			73.79					73.79	
SUBTOTAL		0.37 HR	74.26	22.28				4.14	
TOTAL OPERATING EXPENSES		4.91 HR	138.57	45.66	1.89	0.59	41.06	227.76	
NET OPERATING PROFIT								-61.76	
INTEREST ON OPERATING CAPITAL	(29.90	@	0.08)	2.39
INTEREST ON EQUIPMENT INVESTMENT								12.01	
RETURN TO LAND AND RISK								-76.17	

BUDGET SUMMARY

GROSS RETURN		166.00	
VARIABLE OPERATING EXPENSES	141.05		
RETURN OVER VARIABLE EXPENSES		24.95	(GROSS MARGIN)
FIXED EXPENSES	41.06		
NET FARM INCOME		-16.10	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	45.66		
NET OPERATING PROFIT		-61.76	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	14.41		
RETURN TO LAND AND RISK		-76.17	

Table 10. Livestock Enterprise, cost and returns for a 40 acre farm with livestock as the primary enterprise, with above average management, Northern Mountain Counties, 2007

GROSS RETURNS						
NUMBER		\$/CWT	Sale Weight (CWT)	Total (\$)	Guideline Value (\$/Cow)	Guideline Value (\$/AU)
0.00	YEARLING HEIFERS	92.00	4.85	0.00	0.00	0.00
0.00	YEARLING STEERS	102.00	5.25	0.00	0.00	0.00
13.00	HEIFER CALVES	110.00	4.20	6,006.00	150.15	122.14
17.00	STEER CALVES	120.00	4.70	9,588.00	239.70	194.99
0.00	BULLS	41.00	14.75	0.00	0.00	0.00
4.00	CULL COWS	36.00	8.85	1,274.40	31.86	25.92
560.06	MANURE	0.13	8.00	560.06	14.00	11.39
TOTAL				17,428.46	435.71	354.44
PURCHASED INPUTS						
NUMBER	PURCHASED INPUTS	Unit	\$/Unit	Total	Guideline Value (\$/Cow)	Guideline Value (\$/AU)
FORAGE:						
10.00	ALFALFA	AUM	10.00	100.00	2.50	2.03
30.00	GRASS HAY	AUM	10.00	300.00	7.50	6.10
289.03	NATIVE RANGELAND	AUM	1.35	390.19	9.75	7.94
SUBTOTAL				790.19	19.75	16.07
LABOR, FEED, LIVESTOCK:						
		Unit	\$/Unit	Total	(\$/Cow)	(\$/AU)
0.80	PROTEIN SUPPLEMENT	TON	245	196	4.90	3.99
0.32	SALT & MINERALS	TON	200.00	64.00	1.60	1.30
104.41	HAY	TON	140.00	14,617.72	365.44	297.28
0.00	GRAIN	TON	200.00	0.00	0.00	0.00
0.00	GRAIN CUBES	TON	200.00	0.00	0.00	0.00
	FUEL AND REPAIRS	ANNUAL		0.00	0.00	0.00
	VETERINARY AND MEDICINE	ANNUAL		795.00	19.88	16.17
0.00	BULLS PURCHASED	HEAD	1,300.00	0.00	0.00	0.00
	LIVESTOCK TAXES	ANNUAL		7.27	0.18	0.15
	MAINTENANCE	ANNUAL		0.00	0.00	0.00
44.00	PREGNANCY TEST	HEAD	2.00	88.00	2.00	1.79
63.20	LABOR	HOUR	5.00	316.00	7.90	6.43
34.00	BEEF CHECKOFF PROGRAM	HEAD	1.00	34.00	0.85	0.69
	MISCELLANEOUS	ANNUAL		0.00	0.00	0.00
SUBTOTAL				16,117.99	402.75	327.79
OVERHEAD EXPENSES						
	EMPLOYEE BENEFITS			0.00	0.00	0.00
	INSURANCE			0.00	0.00	0.00
	DEPRECIATION			522.50	13.06	10.63
	SUPERVISION AND MANAGEMENT			164.27	4.11	3.34
	OTHER EXPENSES			678.50	16.96	13.80
SUBTOTAL				1,365.27	34.13	27.77
TOTAL OPERATING EXPENSES				18,273.45	456.84	371.62
NET OPERATING PROFIT				-844.99	-21.12	-17.18
CAPITAL COST						
	INTEREST ON OPERATING CAPITAL			655.56	16.39	13.33
	INTEREST ON MACHINERY AND IMPROVEMENTS			730.00	18.25	14.85
	INTEREST ON LIVESTOCK			0.00	0.00	0.00
TOTAL CAPITAL COST				1,385.56	34.64	28.18
RETURN TO RISK				-2,230.55	-55.76	-45.36
RATE OF RETURN ON INVESTMENT				-0.02		
BUDGET SUMMARY						
GROSS RETURN				17,428.46		
VARIABLE OPERATING EXPENSES				16,908.18		
RETURN OVER VARIABLE EXPENSES					520.28	
FIXED EXPENSES				1,201.00		
NET FARM INCOME					-680.72	
LABOR AND MANAGEMENT COST				164.27		
NET OPERATING PROFIT					-844.99	
CAPITAL COST				1,385.56		
RETURN TO LAND AND RISK					-2,230.55	

TANLE 11. Summary of per acre costs and returns, 40 acre farm with above average management, Northern Mountain Counties, 2007.

	ALFALFA ESTABLISHMENT	ALFALFA HAY	GRASS HA' ESTABL.	GRASS HAY
	-----FLOOD-----			
		TONS	TONS	TONS
PRIMARY YIELD		1.75		1.20
PRIMARY PRICE		140.00		130.00
GOVERNMENT PAYMENTS		0.00		0.00
SECOND INCOME		10.00		10.00
GROSS RETURN		255.00		166.00
CASH OPERATING EXPENSES				
SEED	50.15		6.45	
FERTILIZER	0.00	11.00	27.30	0.00
CHEMICALS		0.00	0.00	
CROP INSURANCE				
OTHER PURCHASED INPUTS		5.85		4.01
CANAL WATER		7.00	0.00	25.00
FUEL, OIL & LUBRICANTS-EQUIPMENT	10.01	12.32	9.84	1.89
FUEL-IRRIGATION				
REPAIRS	0.32	2.26	0.27	0.59
CUSTOM CHARGES	0.00			
LAND TAXES		4.14	0.00	11.78
OTHER EXPENSES	0.35	74.32	74.26	74.26
TOTAL CASH EXPENSES	60.83	116.89	118.12	117.53
RETURN OVER CASH EXPENSES	-60.83	138.11	-118.12	48.47
FIXED EXPENSES	9.59	67.74	10.72	41.06
TOTAL EXPENSES	70.42	184.63	128.84	158.59
NET FARM INCOME	-70.42	70.37	-128.84	7.41
LABOR AND MANAGEMENT COSTS	34.06	55.29	114.50	45.66
NET OPERATING PROFIT	-104.47	15.08	-243.34	-38.25
CAPITAL COSTS				
INTEREST ON OPERATING CAPITAL		0.77	0.00	2.39
INTEREST ON EQUIPMENT INVESTMENT		33.22	0.00	12.01
TOTAL CAPITAL COSTS	0.00	33.99	0.00	14.41
RETURN TO LAND AND RISK	-104.47	-18.91	-243.34	-52.65

TABLE 12. Whole farm budget summary, Northern Mountain Counties, 2007

GROSS RETURNS		
ALFALFA HAY	10.00 ACRES	
CROP		2,450.00
GRAZING		100.00
PERMANENT PASTURE	0.00 ACRES	
GRAZING		0.00
SUDAN HAY (AOH)	0.00 ACRES	
CROP		0.00
GRAZING		0.00
GRASS HAY	30.00 ACRES	
CROP		4,680.00
GRAZING		300.00
LIVESTOCK		17,428.46
GROSS RETURN		24,958.46
CASH OPERATING EXPENSES		
FORAGE		790.19
LIVESTOCK FEED		16,117.99
SEED		50.15
FERTILIZER		110.00
CHEMICALS		0.00
CROP INSURANCE		0.00
OTHER PURCHASED INPUTS		178.81
CANAL WATER		820.00
FUEL, OIL & LUBRICANTS-EQUIPMENT		189.76
FUEL-IRRIGATION		0.00
REPAIRS		40.77
CUSTOM CHARGES		0.00
LAND TAXES		394.97
OTHER EXPENSES		2,971.22
TOTAL CASH EXPENSES		21,664
RETURN OVER CASH EXPENSES		3,294.59
FIXED EXPENSES		1,788.03
TOTAL EXPENSES		23,451.90
NET FARM INCOME		1,506.56
LABOR AND MANAGEMENT COSTS		1,956.83
NET OPERATING PROFIT		-450.27
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		79.48
INTEREST ON EQUIPMENT INVESTMENT		692.54
TOTAL CAPITAL COSTS		772
RETURN TO LAND AND RISK		-1,222.29

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
1,000.00 /ACRE	-2,822.29	-0.01
2,000.00 /ACRE	-4,422.29	-0.01
3,000.00 /ACRE	-6,022.29	0.00
4,000.00 /ACRE	-7,622.29	0.00
5,000.00 /ACRE	-9,222.29	0.00
6,000.00 /ACRE	-10,822.29	0.00
7,000.00 /ACRE	-12,422.29	0.00

* RETURN TO LAND AND RISK MINUS (INTEREST RATE TIMES LAND VALUE TIMES ACREAGE)

** NET OPERATING PROFIT DIVIDED BY (MACHINERY AND EQUIPMENT VALUE PLUS LAND VALUE)