

TABLE 1. Basic cost information for Northern Mountain Counties, 2003.

Item			
Labor Wage Rate:	\$/hour		5.15
Purchased Inputs:			
Fertilizer:			
Nitrogen (N)	\$/pound		0.36
Phosphate (P205)	\$/pound		0.33
Baling wire	\$/pound		0.39
Canal water	\$/acre		7.00
Energy:			
Butane	\$/MCF		1.21
Diesel fuel	\$/gallon		1.35
Gasoline	\$/gallon		1.40
Electricity	cents/KwHr		9.00
Natural Gas	\$/MCF		3.29
Employee Liability Insurance	\$/1,000 wages		20.00
Employee Benefits	percent/w ages		12.00%
Labor Downtime	percent		25.00%
Financial Rates:			
Operating Capital Interest Rate	percent		8.00%
Land Interest Rate	percent		7.00%
Equipment Interest Rate	percent		8.00%
Real Interest Rate	percent		4.00%
Land Taxes	361.50 /acre (full value)		4.14
Personal Property Tax Rate - NR	\$/1,000 (Assessed Value)		34.39
- R			26.68
Supervision Factors			
Field Crop-Irrigation	\$/labor hour		1.00
Field Crop-Equipment & General	\$/labor hour		0.50
Vegetable Crop-Irrigation	\$/labor hour		2.90
Vegetable Crop-Equip & General	\$/labor hour		1.00
Management Rate			
Field Crops	percent/GR		7.00%
Vegetable Crops	percent/TOE		10.00%

BUDGET AREA..... NORTHERN MOUNTAIN COUNTIES , 2003.
 FARM SIZE..... 40 ACRES
 IRRIGATION TYPE... FLOOD
 NUMBER OF CROPS... 3

ACREAGE SUMMARY:	LAND USE (ACRES)	WATER USE	
		AC.IN. PER AC.	TOTAL AC.IN.
ALFALFA ESTABLISHMENT	1.0 *	12	12
ALFALFA	10.0	18	180
PASTURE ESTABLISHMENT	0.0 *	18	0
PERMANENT PASTURE	0.0	24	0
OAT HAY	0.0	24	0
GRASS HAY ESTABLISHMENT	2.0 *	1.31	3
GRASS HAY	30.0	30	900
CORN SILAGE	0.0	36	0
WHEAT	0.0	24	0
ARP	0.0		
FLEX IN SUDAN HAY	0.0	30	0
BARLEY	0.0	24	0
ARP	0.0		
FLEX IN SUDAN HAY	0.0	30	0
CORN	0.0	48	0
ARP	0.0		
FLEX IN SUDAN HAY	0.0	30	0
GREEN CHILE	0.0	48	0
ROADS & DITCHES	0.0		
TOTAL	40.0		1,095
ACRE FEET PER ACRE OF WATER RIGHTS			2.28

* DOUBLE-CROPPED

TABLE 1a. Overhead cost information for Northern Mountain Counties, 2002.

ITEM		CROP ENTERPRISE	LIVESTOCK ENTERPRISE	TOTAL
Electricity (Domestic & Shop)	35.00 per month	420	42.00	462.00
Telephone	35.00 per month	420	42.00	462.00
Accounting & Legal		130		130.00
Misc. Supplies & Hand Tools		250		250.00
Pickup and Auto	Crop Ent. Livestock Ent.			
miles	3100 1500 @	0.365 per mile	1,132	547.50
Insurance				
- general liability (non-employee)		0	0.00	0.00
- fire/theft		0	0.00	0.00
Property Taxes				
- non-planted land		0	0.00	0.00
- other than land & machinery		60		60.00
Building repairs and maintenance		110	11.00	121.00
Dues, fees, publications		105	5.25	110.25
Farmstead Equipment		175.00	17.50	192.50
Total		2,802	665	3,467
Total Per Planted Acre		70.04		

Table 2. Pumping Costs and Data For Irrigation Wells, Northern Mountain Counties, 2003.

INPUT DATA

DELIVERY PSI:		DEPTH CHARACTERISTICS:	
SPRINKLER...	0	STATIC.....	15
		DRAW DOV.....	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/K	wH
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 INCH.....\$	1.21
NATURAL GAS WELL:	
COST PER HOUR.....\$	2.10
COST PER ACRE INCH.....\$	0.63
BUTANE WELL:	
COST PER HOUR.....\$	4.81
COST PER ACRE INCH.....\$	1.45
DIESEL WELL:	
COST PER HOUR.....\$	3.26
COST PER ACRE INCH.....\$	0.98

TABLE 2a. Equipment summary for a 40 acre farm with above average management, Northern Mountain Counties, 2003.

EQUIPMENT	ANNUAL		VARIABLE COSTS				FIXED COSTS			
	HOURS OF USE	NUMBER	TOTAL VALUE	FUEL AND LUBRICANT	REPAIR	FUEL,LUBE 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	

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 (YEAP	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			289.03077
GRASS HAY	30	1	30
BALED HAY (TONS)		104.4123077	261.03077
TOTAL	40		590.06154

Table 3c. STOCK COUNT CHART 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	HORSES 1.25	TOTAL AUMs REQUIRED
JANUARY	2.0512821	40				0	4		2 47.371795
FEBUARY	2.0512821	40				0	4		2 47.371795
MARCH	2.0512821	40	4						2 48.171795
APRIL	2.0512821	40	4						2 48.171795
MAY	2.0512821	40	4						2 48.171795
JUNE	2.0512821	40	4						2 48.171795
JULY	2.0512821	40	4						2 48.171795
AUGUST	2.0512821	40	4						2 48.171795
SEPTEMBER	2.0512821	40	4			0			2 48.171795
OCTOBER	2.0512821	40				18	18		2 63.371795
NOVEMBER	2.0512821	40				0	4		2 47.371795
DECEMBER	2.0512821	40				0	4		2 47.371795
									<u>590</u>

Table 3d. FORAGE BALANCE CHART

	TOTAL AUMs REQUIRED	ALFALFA	GRASS HAY	NATIVE RANGELAND	TOTAL AUMs SUPPLIED	HAY
JANUARY	47.371795	2	4.5	0	6.5	40.871795
FEBRUARY	47.371795	2	4.5	0	6.5	40.871795
MARCH	48.171795	0	6	0	6	42.171795
APRIL	48.171795	0	6	0	6	42.171795
MAY	48.171795	0	0	48.17179487	48.171795	0
JUNE	48.171795	0	0	48.17179487	48.171795	0
JULY	48.171795	0	0	48.17179487	48.171795	0
AUGUST	48.171795	0	0	48.17179487	48.171795	0
SEPTEMBER	48.171795	0	0	48.17179487	48.171795	0
OCTOBER	63.371795	2	0	48.17179487	50.171795	13.2
NOVEMBER	47.371795	2	4.5	0	6.5	40.871795
DECEMBER	47.371795	2	4.5	0	6.5	40.871795
Total AUMs	590.06154	10	30	289.0307692	329.03077	261.03077

TABLE 4. Alfalfa establishment, flood-irrigated, budgeted per acre costs and returns for a 40 acre farm with above average management, Northern Mountain Counties, 2002.
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
<u>PREHARVEST OPERATIONS</u>								
	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
<u>TOTAL OPERATING EXPENSES</u>		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, 2002.
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				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				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				28.56			4.14	107.03
TOTAL OPERATING EXPENSES			5.93 HR	91.17	55.29	12.32	2.26	78.88
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, 2002.
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				
<u>PREHARVEST OPERATIONS</u>	<u>POWER UNIT</u>	<u>ACCOMPLISHMENT RATE</u>	<u>PURCHASED INPUTS</u>	<u>LABOR</u>	<u>FUEL & LUBE</u>	<u>REPAIRS</u>	<u>FIXED COST</u>	<u>TOTAL</u>
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
<u>TOTAL OPERATING EXPENSES</u>		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 average management, Northern Mountain Counties, 2002.
Harvest dates: Year Round

ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS								
PASTURE	12.00	9.00 AUIMS						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	LABOR	FUEL	REPAIRS	FIXED	TOTAL
	UNIT	RATE	INPUTS		& LUBE		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	0.01	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	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	169.98
NET OPERATING PROFIT								-61.98
INTEREST ON OPERATING CAPITAL	(47.00 @	0.08)					2.40
INTEREST ON EQUIPMENT INVESTMENT								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, 2002.
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, 2004.
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								
	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	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	100.68
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. Summary of per acre costs and returns, 40 acre farm with above average management, Northern Mountain Counties, 2002.

	ALFALFA ESTABLISHMENT	ALFALFA HAY	GRASS HAY 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 11. Whole farm budget summary, Northern Mountain Counties, 2002.

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)