TABLE 1. Acreage Summary, Rio Arriba County, Actual 2025

BUDGET AREA.....	RIO ARRIBA COUNTY, 2024.
FARM SIZE.....	23 ACRES
IRRIGATION TYPE.....	SPRINKLER
NUMBER OF CROPS...	1

ACREAGE SUMMARY:	LAND USE (ACRES)	WATER USE AC.IN. PER AC.	WATER USE TOTAL AC.IN.
ALFALFA ESTABLISHMENT	3.00	39	117
ALFALFA	20.00	46	920
TOTAL	23.00		1,037
ACRE FEET PER ACRE OF WATER RIGHTS			3.76

TABLE 2. Basic cost information for Rio Arriba County, Actual 2025

Item				
Labor Wage Rate:				
Equipment operators		$/hour		$17.92
General & Irrigators		$/hour		$16.90
Purchased Inputs:				
Fertilizer:				
Phosphate (P205)		$/pound		$0.93
Seed:				
Alfalfa		$/pound		$4.60
Oats		$/pound		$0.76
Twine		$/pound		$2.00
Canal Water		$/acre foot		$45.00
Energy:				
Diesel fuel		$/gallon		$3.33
Gasoline		$/gallon		$2.68
Electricity		cents/KwHr		5.90
LP Gas		$/gallon		$2.45
Natural Gas		$/MCF		$6.27
(service charge)		$/month		$10.00
Employee Liability Insurance		$/$1,000 wages		$20.00
Employee Benefits		percent/wages		18.00%
Labor Downtime		percent		25.00%
Financial Rates:				
Operating Capital Interest Rate		percent		9.25%
Land Interest Rate		percent		8.15%
Equipment Interest Rate		percent		7.15%
Real Interest Rate		percent		1.82%
Land Taxes	$392.00	/acre (full value)		$3.78
Personal Property Tax Rate	- NR	$/$1,000	(Assessed	$28.92
	- R		Value)	$24.67
Supervision Factors				
Field Crop-Irrigation		$/labor hour		$1.00
Field Crop-Equipment & General		$/labor hour		$0.50
Management Rate		percent		7.00%

TABLE 3. Overhead cost information for Rio Arriba County, Actual 2025

Item					
Electricity (Domestic & Shop)			$134.40	per month	$1,613
Telephone			$96.00	per month	$1,152
Accounting & Legal					$570
Misc. Supplies & Hand Tools					$8,000
Pickup and Auto					
miles	13,184	@	$0.700	per mile	$9,229
Insurance					
- general liability (non-employee)					$1,190
- fire/theft					$774
Property Taxes					
- non-farm land					$0
- other than land & machinery					$6,010
Building repairs and maintenance					$595
Dues, fees, publications					$294
Farmstead Equipment					$192
				Total	$29,620
			Total per planted acre		$1,480.98

TABLE 5. Equipment summary for an 23 acre sprinkler-irrigated farm, Rio Arriba County, Actual 2025

EQUIPMENT ITEM & SIZE			ANNUAL HOURS OF USE	NUMBER	TOTAL VALUE	VARIABLE COSTS FUEL, OIL, LUBRICANT	REPAIR	FUEL, OIL PER HR	REPAIR PER HR	FIXED COSTS DEPRECIATION	TAXES	TOTAL PER HR	AFALFA PORTION ANNUAL HC fixed cost for alfalf
TRACTOR	65	HP	210	1	$25,000	$2,197	$1,109	$10.46	$5.28	$1,100	$265	$6.50	83.26 $2.58
TRACTOR	100	HP	140	1	$40,000	$1,818	$1,091	$1.00	$7.79	$3,167	$458	$25.89	41.17 $7.61
TRACTOR	150	HP	110	1	$50,000	$2,143	$2,475	$19.48	$22.50	$6,000	$723	$61.12	30.59 $17.00
TRACTOR	150	HP	180	1	$120,000	$3,506	$1,296	$19.48	$7.20	$8,000	$771	$48.73	18.17 $4.92
SWATHER	14	FT	25	1	$3,900		$34		$1.38	$1,375	$133	$60.30	11.04 $26.63
BALER, PTO	2	JD WIRE	45	1	$13,500		$36		$0.81	$1,350	$130	$32.89	14.49 $10.59
BALE WAGON, PTO			45	1	$1,500		$130		$2.88	$800	$77	$19.49	13.8 $5.98
DISC	12	FT	13	1	$2,250		$25		$1.94	$300	$22	$24.75	1.02 $1.94
PLOW	3-14	IN	16	1	$3,350		$46		$2.88	$447	$32	$29.94	2.01 $3.76
DITCHER(DOUBLE MOLDBOARD)			8	1	$1,250		$0		$0.05	$167	$12	$22.34	4.6 $12.85
HARROW	12	FT	8	1	$300		$0		$0.01	$40	$3	$5.36	0.57 $0.38
DRILL	12	FT	6	1	$2,200		$6		$1.06	$440	$21	$76.87	0.63 $8.07
FERT SPREADER			7	1	$2,500		$7		$1.00	$333	$24	$51.06	2.3 $16.78
SIDEROLL SPRINKLER			79	1	$5,000				$0.95	$667	$48	$9.09	78.66 $9.09
					$270,750	$9,663	$6,256			$24,185	$2,719		

annual hours of use includes not only alfalfa but other works

EQUIPMENT LIST

ITEM			NEW VALUE	USED VALUE	YEARS LIFE	EQUIP CODE	MAX HOURS	FUEL UNIT/HR	LUBE COEF	ACCUM HOURS	AGE	INTEREST EXPENSE
TRACTOR	65	HP	55000.00	25000.00	50.00	1.00	800.00	2.86	0.10	4200.00	20.00	1966.25
TRACTOR	100	HP	95000.00	40000.00	30.00	1.00	800.00	4.40	0.10	3500.00	25.00	3396.25
TRACTOR	150	HP	150000	50000	25	1.00	800	6.6	0.1	1650.00	15	5362.50
TRACTOR	150	HP	160000	120000	20	1.00	800	6.6	0.1	1440.00	8	5720.00
SWATHER	14	FT	27500.00	3900.00	20.00	2.00	800.00			350.00	14.00	983.13
BALER, PTO	2	WIRE	27000.00	13500.00	20.00	2.00	500.00			225.00	5.00	965.25
BALE WAGON, PTO			16000.00	1500.00	20.00	5.00	800.00			270.00	6.00	572.00
DISC	12	FT	4500.00	2250.00	15.00	3.00	300.00			208.00	16.00	160.88
PLOW	3-14	IN	6700.00	3350.00	15.00	3.00	300.00			256.00	16.00	239.53
DITCHER(DOUBLE MOLDBOARD)			2500.00	1250.00	15.00	4.00	300.00			120.00	15.00	89.38
HARROW	12	FT	600.00	300.00	15.00	4.00	300.00			128.00	16.00	21.45
DRILL	12	FT	4400.00	2200.00	10.00	8.00	100.00			78.00	13.00	157.30
FERT SPREADER			5000.00	2500.00	15.00	9.00	200.00			84.00	12.00	178.75
SIDEROLL SPRINKLER			10000.00	5000.00	15.00		8742.00			1179.90	15.00	357.50

USAGE LIST

ALFALFA EST.	ALFALFA HAY	PER ACRE TOTALS	
------hours per acre------			
1.60	2.02	3.62	TRACTOR do
0.95	0.84	1.79	TRACTOR
1.01	0.32	1.33	TRACTOR
0.37	0.42	0.79	TRACTOR
0.16	0.32	0.48	SWATHER
0.21	0.42	0.63	BALER, PTO
0.20	0.40	0.60	BALE WAGON, PTO
0.34		0.34	DISC
0.67		0.67	PLOW
0.10	0.10	0.20	DITCHER(DOUBLE MOLDBOARD)
0.19		0.19	HARROW
0.21		0.21	DRILL
0.05	0.05	0.10	FERT SPREADER
1.50	1.92	3.42	SIDEROLL SPRINKLER

INTEREST PRORATION

	OAT HAY	ALFALFA HAY
	-dollars per acre-	
TRACTOR	14.98	18.91
TRACTOR	23.05	20.38
TRACTOR	49.24	15.60
TRACTOR	11.76	13.35
SWATHER	6.29	12.58
BALER, PTO	4.50	9.01
BALE WAGO	2.54	5.08
DISC	4.21	0.00
PLOW	10.03	0.00
DITCHER(D	1.12	1.12
HARROW	0.51	0.00
DRILL	5.51	0.00
FERT SPRE	1.28	1.28
SIDEROLL S	6.82	8.73
TOTAL	**141.82**	**106.04**

ALFALFA ESTABLISHMENT ACRES: 3 CANAL WATER: 39.00

MACHINE	POWER UNIT	TIMES OVER	ACCOMPLISHMENT RATE	TOTAL	CUSTOM
PLOW	150 HP	1.00	0.67	0.67	
DISC	150HP	2.00	0.17	0.34	
HARROW	100HP	1.00	0.19	0.19	
FERTILIZE	100 HP	1.00	0.05	0.05	
DRILL	100 HP	1.00	0.21	0.21	
DITCHER	65 HP	2.00	0.05	0.10	
IRRIGATE	65 HP	6.00	0.25	1.50	
	100 HP	5	0.06	0.30	
SWATHER	150 HP	1.00	0.16	0.16	
BALER	150 HP	1.00	0.21	0.21	
BALE WAGON	100 HP	1.00	0.20	0.20	

ALFALFA HAY ACRES: 20 CANAL WATER: 46.00

MACHINE	POWER UNIT	TIMES OVER	ACCOMPLISHMENT RATE	TOTAL	CUSTOM
FERTILIZE	100 HP	1.00	0.05	0.05	
DITCHER	65 HP	2.00	0.05	0.10	
IRRIGATE	65 HP	6.00	0.32	1.92	
	100 HP	6	0.065	0.39	
SWATHER	150 HP	2.00	0.16	0.32	
BALER	150 HP	2.00	0.21	0.42	
BALE WAGON	100 HP	2.00	0.20	0.40	

ANNUAL REPAIR COSTS AS A PERCENT OF NEW VALUE

Hours of Use	1	2	3	4	5	6	7	8	9
	*	*	*	*	**	**	**	**	**
0	0.000060	0.000020	0.000620	0.000020	0.000080	0.000140	0.000040	0.000240	0.000200
50	0.000060	0.000020	0.000620	0.000020	0.000080	0.000140	0.000040	0.000240	0.000200
100	0.000060	0.000020	0.000520	0.000020	0.000140	0.000220	0.000100	0.000380	0.000300
200	0.000030	0.000030	0.000430	0.000040	0.000180	0.000260	0.000110	0.000510	0.000260
300	0.000030	0.000050	0.000390	0.000060	0.000230	0.000310	0.000140	0.000630	0.000400
400	0.000030	0.000060	0.000370	0.000090	0.000260	0.000340	0.000150	0.000710	0.000450
500	0.000030	0.000070	0.000360	0.000100	0.000280	0.000370	0.000170	0.000800	0.000630
600	0.000030	0.000090	0.000340	0.000120	0.000310	0.000390	0.000190	0.000860	0.000530
700	0.000030	0.000100	0.000340	0.000130	0.000330	0.000410	0.000200	0.000910	0.000560
800	0.000030	0.000110	0.000320	0.000150	0.000350	0.000430	0.000210	0.000980	0.000590
900	0.000030	0.000120	0.000320	0.000160	0.000370	0.000450	0.000230	0.001020	0.000600
1000	0.000090	0.000130	0.000310	0.000180	0.000380	0.000460	0.000230	0.001070	0.000630
1200	0.000045	0.000145	0.000305	0.000205	0.000405	0.000480	0.000245	0.001135	0.000710
1400	0.000045	0.000170	0.000300	0.000230	0.000435	0.000510	0.000410	0.001260	0.000765
1500	0.000150	0.000170	0.000300	0.000230	0.000435	0.000510	0.000410	0.001260	0.000765
1600	0.000150	0.000190	0.000285	0.000255	0.000465	0.000525	0.000135	0.001235	0.000805
1800	0.000075	0.000170	0.000285	0.000285	0.000485	0.000550	0.000295		
2000	0.000110	0.000265	0.000280	0.000305	0.000505	0.000565	0.000310		
2500	0.000056								
3000	0.000070								
3500	0.000082								
4000	0.000096								
4500	0.000108								
5000	0.000122								
5500	0.000136								
6000	0.000148								
6500	0.000162								
7000	0.000176								
7500	0.000188								
8000	0.000204								

* Based on unpublished data of D. R. Hunt, Department of Agricultural Engineering, University of Illinois.

** Based on "Agricultural Machinery Data" in Agricultural Engineers Yearbook, 1983.

Codes

1 tractors
2 balers, combines, forage harvesters, windrowers, pickups
3 rotary hoe, disks, moldboard plows, chisels, field cultivators row cultivators, laser plane
4 harrows, wagons, floats, roto buck, drag, roller, water furrow, bed shaper
5 balewagons, cotton pickers, cotton strippers, corn pickers corn heads, forage equipment, rotary mowers, stalk choppers, feed wagons, farm trucks
6 rakes, cutterbar mower
7 baler w/ engine, manure spreader
8 planters, drills, seeding equipment, mounted sprayers
9 fertilizer distributing equipment

TABLE 6. Alfalfa establishment, springkler-irrigated, budgeted per acre costs and returns for an 23 acre farm, Rio Arriba County, Actual 2025

Planting dates: April 15 - June 1
Harvesting dates: June 15 - July 1

ITEM	PRICE	YIELD		TOTAL
GROSS RETURNS				
OAT HAY	$160.00	2.25	Ton	$360.00
GRAZING	$20.00	0.00	AUM	$0.00
TOTAL				$360.00

PURCHASED INPUTS	PRICE	QUANTITY		PURCHASED INPUTS	FIXED COST	TOTAL
ALFALFA SEED	$4.60	30	LBS	$138.00		$138.00
OAT SEED	$0.76	45	LBS	$34.20		$34.20
PHOSPHATE (P2O5)	$0.93	45	LBS	$41.85		$41.85
WIRE	$2.00	19	LBS	$38.57		$38.57
CANAL WATER		39	AC. IN.		$0.00	$0.00
CANAL WATER (MAINTENANCE)		1	ACRE		$8.00	$8.00
SUBTOTAL				$252.62	$8.00	$260.62

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
PLOW	150 HP	0.67	HR		$12.01	$13.05	$17.01	$43.47	$85.53	Tractor 1
DISC (2X)	150 HP	0.34	HR		$6.09	$6.62	$8.31	$21.44	$42.46	Tractor 1
HARROW	100 HP	0.19	HR		$3.40	$0.19	$1.48	$4.99	$10.07	
FERTILIZE	100 HP	0.05	HR		$0.90	$0.05	$0.44	$2.13	$3.52	
DRILL	100 HP	0.21	HR		$3.76	$0.21	$1.86	$7.13	$12.96	
DICHER	65 HP	0.10	HR		$1.79	$1.05	$0.53	$1.93	$5.31	
IRRIGATE (4X)	65 HP	1.50	HR		$25.35	$15.69	$9.35	$23.38	$73.77	
	100 HP	0.30	HR		$5.07	$5.84	$2.62	$10.49	$24.03	
SUBTOTAL		3.36	HR		$58.38	42.70	41.59	114.98	257.65	
HARVEST OPERATIONS										
SWATHER	150 HP	0.16	HR		$2.87	$3.12	$1.37	$12.06	$19.41	Tractor 2
BALER	150 HP	0.21	HR		$3.76	$4.09	$1.68	$12.46	$21.99	Tractor 2
BALE WAGON	100 HP	0.20	HR		$3.58	$0.20	$2.13	$6.37	$12.29	
SUBTOTAL		0.57	HR		$10.21	$7.41	$5.19	$30.89	$53.70	
OVERHEAD EXPENSES										
DOWNTIME		0.98	HR		$17.61				$17.61	
EMPLOYEE BENEFITS					$12.35				$12.35	
INSURANCE				$1.37					$1.37	
LAND TAXES								$3.78	$3.78	
SUPERVISION AND MANAGEMENT					$39.14				$39.14	
SUBTOTAL		0.98	HR	$1.37	$69.10			$3.78	$74.25	
TOTAL OPERATING EXPENSES		4.91	HR	$253.99	$137.69	$50.11	$46.78	$157.64	$646.21	
NET OPERATING PROFIT									($286.21)	
INTEREST ON OPERATING CAPITAL		($148.43	@	9.25%)					$13.73	
INTEREST ON EQUIPMENT INVESTMENT									$141.82	
RETURN TO LAND AND RISK									($441.76)	

TABLE 7. Alfalfa hay, sprinkler-irrigated, budgeted per acre costs and returns for an 23 acre farm, Rio Arriba County, Actual 2025

Harvesting dates: June 1 - October 15

ITEM	PRICE	YIELD		TOTAL
GROSS RETURNS				
ALFALFA HAY	$200.00	2.50	TONS	$500.00
GRAZING	$20.00	2.00	AUM	$40.00
TOTAL				$540.00

PURCHASED INPUTS	PRICE	QUANTITY		PURCHASED INPUTS	FIXED COST	TOTAL	
PHOSPHATE (P2O5)	$0.93	14.00	LBS	$13.02		$13.02	
TWINE	$2.00	20.00	LBS	$40.00		$40.00	
ESTABLISHMENT: Principal		6.00	YEARS		$73.63	$73.63	
: Interest					$34.72	$34.72	
CANAL WATER		46.00	AC. IN.		$0.00	$0.00	no charge
CANAL WATER (MAINTENANCE)		1	ACRE		$8.00	$8.00	
SUBTOTAL				$53.02	$116.34	$169.36	

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
FERTILIZE	100 HP	0.05	HR		$0.90	$0.05	$0.44	$2.13	$3.52	
DITCHER	65 HP	0.10	HR		$1.79	$1.05	$0.53	$1.93	$5.31	
IRRIGATE (4X)	65 HP	1.92	HR		$32.45	$20.08	$11.96	$29.93	$94.42	
	100 HP	0.39	HR		$6.59	$0.39	$3.41	$13.64	$24.03	
SUBTOTAL		2.07	HR		$35.14	$21.18	$12.93	$34.00	$103.25	
HARVEST OPERATIONS										
SWATHER (2X)	150HP	0.32	HR		$5.73	$6.23	$2.74	$24.11	$38.83	tractor 2
BALER (2X)	150 HP	0.42	HR		$7.53	$8.18	$3.36	$24.91	$43.99	tractor 2
BALE WAGON (2X)	100 HP	0.40	HR		$7.17	$0.40	$4.27	$12.75	$24.58	
SUBTOTAL		1.14	HR		$20.43	$14.81	$10.38	$61.78	$107.40	
OVERHEAD EXPENSES										
DOWNTIME		0.80	HR		$14.38				$14.38	
EMPLOYEE BENEFITS					$10.00				$10.00	
INSURANCE				$1.11					$1.11	
LAND TAXES								$3.78	$3.78	
SUPERVISION AND MANAGEMENT					$40.76				$40.76	
OTHER EXPENSES									$0.00	
SUBTOTAL		0.80	HR	$1.11	$65.14			$3.78	$70.03	
TOTAL OPERATING EXPENSES		4.01	HR	$54.13	$120.70	$35.99	$23.31	$215.90	$450.03	
NET OPERATING PROFIT									$89.97	
INTEREST ON OPERATING CAPITAL		$37.14	@	9.25%	)				$3.44	
INTEREST ON EQUIPMENT INVESTMENT									$106.04	
RETURN TO LAND AND RISK									($19.50)	

BUDGET SUMMARY

GROSS RETURN		$540.00	
VARIABLE OPERATING EXPENSES	$113.44		
RETURN OVER VARIABLE EXPENSES		$426.56	(GROSS MARGIN)
FIXED EXPENSES	$215.90		
NET FARM INCOME		$210.67	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	$120.70		
NET OPERATING PROFIT		$89.97	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	$109.47		
RETURN TO LAND AND RISK		($19.50)	

TABLE 8. Summary of per acre costs and returns for an 23 acre farm, Rio Arriba County, Actual 2025

	ALFALFA ESTABLISHMENT	ALFALFA HAY
	TONS	TONS
PRIMARY YIELD	2.25	2.50
PRIMARY PRICE	$160.00	$200.00
GOVERNMENT PAYMENTS	$0.00	$0.00
SECOND INCOME	$0.00	$40.00
GROSS RETURN	$360.00	$540.00
CASH OPERATING EXPENSES		
SEED	$172.20	
FERTILIZER	$41.85	$13.02
CHEMICALS		
CROP INSURANCE		
OTHER PURCHASED INPUTS	$38.57	$40.00
CANAL WATER		
FUEL, OIL & LUBRICANTS-EQUIPMENT	$34.42	$15.91
FUEL-IRRIGATION	$15.69	$20.08
REPAIRS	$46.78	$23.31
CUSTOM CHARGES		
LAND TAXES	$3.78	$3.78
OTHER EXPENSES	$1.37	$1.11
TOTAL CASH EXPENSES	$354.66	$117.21
RETURN OVER CASH EXPENSES	$5.34	$422.79
FIXED EXPENSES	$153.86	$212.12
TOTAL EXPENSES	$508.52	$329.33
NET FARM INCOME	($148.52)	$210.67
LABOR AND MANAGEMENT COSTS	$137.69	$120.70
NET OPERATING PROFIT	($286.21)	$89.97
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL	$13.73	$3.44
INTEREST ON EQUIPMENT INVESTMENT	$141.82	$106.04
TOTAL CAPITAL COSTS	$155.55	$109.47
RETURN TO LAND AND RISK	($441.76)	($19.50)

TABLE 9. Whole farm summary, Rio Arriba County, Actual 2025

GROSS RETURNS					
OAT HAY	3.00	ACRES			
CROP			$1,080		
ALFALFA HAY	20.00	ACRES			
CROP			$10,000		
GRAZING			$800		
GROSS RETURN					$11,880
CASH OPERATING EXPENSES					
SEED			$517		
FERTILIZER			$386		
CHEMICALS			$0		
CROP INSURANCE			$0		
OTHER PURCHASED INPUTS			$916		
CANAL WATER			$0		
FUEL, OIL & LUBRICANTS-EQUIPMENT			$421		
FUEL-IRRIGATION			$449		
REPAIRS			$607		
CUSTOM CHARGES			$0		
LAND TAXES			$87		
OTHER EXPENSES			$26		
TOTAL CASH EXPENSES				$3,408	
RETURN OVER CASH EXPENSES					$8,472
FIXED EXPENSES			$3,231		
TOTAL EXPENSES				$6,640	
NET FARM INCOME					$5,240
LABOR AND MANAGEMENT COSTS			$2,827		
NET OPERATING PROFIT					$2,413
CAPITAL COSTS					
INTEREST ON OPERATING CAPITAL			$110		
INTEREST ON EQUIPMENT INVESTMENT			$2,546		
TOTAL CAPITAL COSTS				$2,656	
RETURN TO LAND AND RISK					($243)

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
$1,000 /ACRE	($606)	0.83%
$2,500 /ACRE	($1,151)	0.75%
$4,000 /ACRE	($1,696)	0.69%
$5,500 /ACRE	($2,240)	0.63%
$7,000 /ACRE	($2,785)	0.59%
$8,500 /ACRE	($3,330)	0.55%

* 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)