



Table 4B. Allocation of Ownership Costs; Alfalfa Stand Establish, 1996

COUNTY: Graham	FARM: Graham County Farm	WATER SOURCE: Both	TILLAGE: Double-Crop
CROP: Alfalfa Hay	ACRES: 1.0	IRRIGATION SYSTEM: Flood Basin	SOIL: Sandy-Loam
AREA: Safford Valley	YIELD: 0.0 Tn/Acre	PREVIOUS CROP: Wheat, Winter	DATE: 10/14/96

Item	- CASH COST BASIS (\$/ACRE) -		- TOTAL COST BASIS (\$/ACRE) -	
	Income & Costs	Net Returns	Income & Costs	Net Returns
TOTAL INCOME at \$ 0.0000/Tn	\$0.00		\$0.00	
TOTAL OPERATING EXPENSES	177.05		177.05	
RETURN OVER CASH OPERATING EXPENSES		( \$177.05)		( \$177.05)
CASH OVERHEAD EXPENSES				
Taxes, Housing & Insur., Farm Machinery	3.55		3.55	
Wells & Irrig. System	1.84		1.84	
Gen. & Off. Overhead ( 5% of Tot. Oper. Exp.)	8.85		8.85	
General Farm Maint. ( 3% of Tot. Oper. Exp.)	5.31		5.31	
Total Cash Overhead Expenses	<u>19.55</u>		<u>19.55</u>	
Total Cash Oper. & Over. Cost	196.60		196.60	
RETURNS OVER CASH OPER. & OVER. EXPENSES.		( 196.60)		( 196.60)
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery & Vehicles			19.51	
Wells & Irrig. System			3.29	
Interest on Equity, Machinery & Vehicles			7.13	
Wells & Irrig. System			1.25	
Total Capital Allocations			<u>31.17</u>	
RETURNS TO LAND, CAPITAL, MANAGEMENT & RISK		( 196.60)		
RETURNS TO LAND, MANAGEMENT & RISK				( 227.78)
LAND COSTS / OWNERSHIP (100% Equity)				
Property Taxes (\$660 X 16% X .10016)	5.28		5.28	
Opport. Inter. on Land (100% X 6.0% X \$660)			19.80	
Water Assessment **	17.50		17.50	
Total Land Costs	<u>22.78</u>		<u>42.58</u>	
RETURNS TO MANAGEMENT, CAPITAL & RISK		( 219.39)		
RETURNS TO MANAGEMENT & RISK				( 270.37)
Management Services ( 8% of Tot. Oper. Exp.)			14.16	
TOTAL OWNERSHIP COST	<u>42.34</u>		<u>107.48</u>	
TOTAL COST	<u>\$219.39</u>		<u>\$284.53</u>	
RETURN TO MANAGEMENT, CAPITAL & RISK		( \$219.39)		
RETURN TO RISK (PROFITS)				( \$284.53)

Table 4C. Variable Operating Costs; Alfalfa Stand Establish, 1996

COUNTY: Graham FARM: Graham County Farm WATER SOURCE: Both TILLAGE: Double-Crop  
 CROP: Alfalfa Hay ACRES: 1.0 IRRIGATION SYSTEM: Flood Basin SOIL: Sandy-Loam  
 AREA: Safford Valley YIELD: 0.0 Tn/Acre PREVIOUS CROP: Wheat, Winter DATE: 10/14/96

No.	First Month	Operation	— Hours * —		— Operating Costs (\$/Acre*) —				Times	Tot. Cash Expense	Class	
			Machine	Labor	Fuel/Rps.	Labor	Cust/Ser.	Materials				Total
1	Jul	Disk	0.300	0.333	3.59	2.80			6.39	3.0	19.18	L
2	Aug	Plow	0.900	1.000	10.54	8.41			18.95	1.0	18.95	L
3	Aug	Landplane	0.273	0.303	2.74	2.55			5.29	2.0	10.59	L
4	Aug	Apply Fert/Ground	0.225	0.250	2.04	2.10		33.08	37.22	1.0	37.22	G
5	Sep	Plant	0.300	0.330	3.83	2.78		55.13	61.74	1.0	61.74	L
6	Sep	Disk Ends	0.045	0.050	0.54	0.42			0.96	1.0	0.96	G
7	Sep	Buck Rows	0.045	0.100	0.39	0.77			1.16	1.0	1.16	G
8	Sep	Irrigate		0.403		2.82			2.82	2.1	5.92	G
9	Sep	Irrigate		0.607	7.00	4.25			11.25	0.9	10.13	G
		Pickup Use 30 Mi/Ac	1.000		7.43						7.43	O
		Operating Interest at 8.00%						3.89			3.89	O
TOTAL CASH OPERATING EXPENSES:					\$47.33	\$37.73	\$3.89	\$88.21			\$177.16	T

\* NOTES: Machine and labor hours and operating cost are for one time over the designated acreage. The 'Tot. Cash Expense' column and the 'TOTAL CASH OPERATING EXPENSES:' row include all operations, all times over. Classes are defined below. A water assessment charge of \$17.50/Acre included as ownership cost in Table 4B.

OPERATING COST SUMMARY BY CLASS	
Land Preparation (L)	\$110.45
Growing (G)	55.38
Harvest (H)	0.00
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	11.32
Total (T)	\$177.15

Table 4D. Resource and Cash Flow Requirements; Alfalfa Stand Establish, 1996

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 AREA: Safford Valley YIELD: 0.0 Tn/Acre PREVIOUS CROP: Wheat, Winter DATE: 10/14/96

Month *	Number Irrig.	Water Applied (Inches)	Total Labor (Hrs)	Operating Cost (\$/Acre)							
				Purchased Water	Fuel, Oil & Repairs	Labor	Chemicals	Other Purchases	Services	Total	
JUL C			0.33		3.59	2.80					6.39
AUG C			2.52		25.25	21.21	33.08				79.54
SEP C	2.0	12.0	1.40		8.96	10.47		55.13			74.56
OCT C	1.0	6.0	0.46		2.10	3.25					5.35
Pickup Use 30 Mi/Ac					7.43						7.43
Operating Interest at 8.0% Water Assessment				**					3.90		3.90
<b>Total</b>	<b>3.0</b>	<b>18.0</b>	<b>4.72</b>		<b>47.33</b>	<b>37.74</b>	<b>33.08</b>	<b>55.13</b>	<b>3.90</b>		<b>177.17</b>
%					26.71	21.29	18.67	31.11	2.19		100.00

TOTAL RESOURCES REQUIREMENTS (/Acre)		TOTAL ENERGY REQUIREMENTS (/Acre)		
Total N	22.0 lbs	Diesel Fuel	14.6	Gal
Total P	104.0 lbs	Regular Gas	0.0	Gal
Total K	0.0 lbs	NonLead Gas	3.0	Gal
Total Labor	4.7 Hrs	Electricity/Pumping	59.7	KWH
Total Water	18.0 AI	All Direct Energy	2.6	M BTU

EQUIPMENT REQUIREMENTS (/Acre)				
Tractor, 100 PTO HP, MFWD	2.96 Hrs	Offset Disk, 13.5'	0.95 Hrs	Moldboard Plow, 3-16 2 Way 0.90 Hrs
Landplane 12'X 45'	0.55 Hrs	Fertilizer Broadcaster, Towed	0.23 Hrs	Grain Drill 12' W/Fert Box 0.30 Hrs
Rowbuck, 10'	0.05 Hrs	Pickup Truck, 1/2 Ton	1.00 Hrs	

MATERIALS REQUIREMENTS (/Acre)				
11-52-00, Dry	200.00 Lb	Alfalfa Sd, Cert	25.00 Lb	Water, District 12.60 AI
Water, Pump	5.40 AI			

LABOR REQUIREMENTS (/Acre)				
Tractor	3.29 Hrs	Other	0.05 Hrs	Irrigators 1.39 Hrs

\* NOTE: P = Previous Year C = Current Year N = Next Year  
 \*\* A water assessment charge of \$17.50/Acre included as ownership cost in Table 4B.

Table 4E Schedule of Operations; Alfalfa Stand Establish, 1996

COUNTY: Graham FARM: Graham County Farm WATER SOURCE: Both TILLAGE: Double-Crop  
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 AREA: Safford Valley YIELD: 0.0 Tn/Acre PREVIOUS CROP: Wheat, Winter DATE: 10/14/96

No.	First Month	Times	Operation	Equipment/Custom Oper. HP Self-Prop./Implem.	Job Rate Acres/Hr	Material Name	Use & Cost Appl. Rate	Serrvice Cost \$/Unit	Labor \$/Unit	Labor Type
1	Jul	3.0	Disk	100	3.00					Tractor
2	Aug	1.0	Plow	100	1.00					Tractor
3	Aug	2.0	Landplane	100	3.30					Tractor
4	Aug	1.0	Apply Fert/Ground	100	4.00	11-52-00, Dry	200.00 Lb	315.00 Tn		Tractor
5	Sep	1.0	Plant	100	3.00	Alfalfa Sd, Cert	25.00 Lb	210.00 CW		Tractor
6	Sep	1.0	Disk Ends	100	20.00					Tractor
7	Sep	1.0	Buck Rows	100	20.00					Tractor
8	Sep	2.1	Irrigate		2.50	Water, District	6.00 AI	0.00 AF		Other
9	Sep	0.9	Irrigate		1.60	Water, Pump	6.00 AI	14.00 AF		Irrigator
			Pickup Use 30 Mi/Ac	Pickup Truck, 1/2 Ton	1.00					

\* NOTE: Machine times, labor times, and material rates are for one time over the designated acreage.

\*\* A water assessment charge of \$17.50/Acre included as ownership cost in Table 4B.