COUNTY: CROP: AREA:	Mohave Alfalfa Hay w/Graze Mohave Valley	FARM: Mohave ACRES: YIELD:	County Farm 1.0 7.0 Tn/Acre		WATER SOURCE: IRRIGATION SYSTEM: PREVIOUS CROP:	ColPum Flood Basin Alfalfa Hay	TILLAGE: SOIL: DATE:	Conventional Sandy-Loam 10/03/96
Ite	em		Unit	Quantity	Price /Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -	-> Alfalfa Grazing		Ton Head Days	7.00 200.00	\$82.0000 0.0900	\$574.00 18.00	\$592.00	
Paid Cher Farr Irr:	ND PREPARATION AND GRO d Labor (including ber Tractor/Self Prope Irrigation micals & Custom Applic Fertilizers Insecticides Herbicides m Machinery and Vehicl Diesel Fuel Repairs & Maint. igation (excluding lab Pump Energy - Elec Repairs & Maint. er Purchased Inputs &	efits) elled eations es	_			2.19 19.18 86.98 43.85 65.38 1.25 0.91 19.20 2.13	21.37 196.21 2.15 21.33	
	Seed/Transplants	L CASH LAND PR	EPARATION AND	GROWING EX	PENSES	9.92	250.98	
Paid	RVEST AND POST HARVEST d Labor (including ben Tractor/Self Prope Other/Contract m Machinery and Vehicl Diesel Fuel	EXPENSES efits)			<del></del>	5.36 26.64 22.95	32.00 73.79	
Othe	Repairs & Maint. er Materials					50.84	12.97	
	TOTA	L HARVEST AND	POST HARVEST E	XPENSE		-	118.75	
	NG OVERHEAD->PICKUP US NG INTEREST AT 8.0%	E				_	15.27 0.11	
		L CASH OPERATI TURNS OVER CAS		PENSES		-	\$385.11 \$206.89	

Notes: The above figures do not include ownership costs, see Table 5B on Next Page for detailed cost allocation.

ARIZONA COOPERATIVE EXTENSION Department of Ag & Resource Economics The University of Arizona F 4/6 COUNTY: Mohave FARM: Mohave County Farm WATER SOURCE: ColPum TILLAGE: Conventional Sandy-Loam 10/03/96 CROP: Alfalfa Hay w/Graze ACRES: 1.0 IRRIGATION SYSTEM: Flood Basin SOIL: AREA: Mohave Vallev YIELD: 7.0 In/Acre PREVIOUS CROP: Alfalfa Hav DATE:

AREA: M	ohave Valley	YIELD: 7	7.0 Tn/Acre	PREVIOU	S CROP:	Alfalfa Ha	y DATE:	10,	03/96
				- CASH COST BAS			- TOTAL COST BAS	•	•
	Item			Income & Costs	Net Retu	rns	Income & Costs	Net	Returns
TOTAL INC	OME at \$ 82.000	0/Tn + 2nd Crop		\$592.00		ı	\$592.00		
TOTAL OPE	RATING EXPENSES			385.10			385.10		
RETU	RN OVER CASH OPE	RATING EXPENSES			\$206.	89			\$206.89
CASH OVER	HEAD EXPENSES					i			
Taxes,	Housing & Insur.	, Farm Machinery		9.74		Ì	9.74		
	_	Wells & Irrig. Sys	stem	0.94		1	0.94		
Gen. &	Off. Overhead (	5% of Tot. Oper. Exp	o.)	19.25		ĺ	19.25		
General	Farm Maint. ( 3	% of Tot. Oper. Exp.	.)	11.55		į.	11.55		
Total C	ash Overhead Exp	enses		41.48			41.48		
Total C	ash Oper. & Over	. Cost		426.59		<u> </u>	426.59		
		ER. & OVER. EXPENSES	3.		165.	40 j			165.40
CAPITAL A	LLOCATIONS (100%	Equity)							
		chinery & Vehicles				i	66.36		
04F-04-		lls & Irrig. System				i	5.76		
Interes	t on Equity Mac	hinery & Vehicles				i	5.68		
INCCICO		ls & Irrig. System				-	2.23		
Stand E	stablishment ( 3			91.23		i	91.23		
Motol C	apital Allocation	<b>~</b>		91.23		!	171.25		
TOTAL C	DNG TO TAND CAD	ITAL, MANAGEMENT & F	TCV	91.23	<del>&gt; 74.</del> :	17	171.25		
REIU.	RETURNS TO LAND	, MANAGEMENT & RISK	- ISK		74			<del></del> >(	5.85)
TAND COOM	S / OWNERSHIP (1					_ !		_	
	y Taxes (\$510 X			8.19		<u> </u>	8.19		
		(100% X 6.0% X \$510	٠,	8.19		<u> </u>	30.60		
opport.	inter. On Land	(100% X 0.0% X 5510	,			-	30.00		
Total I	and Costs			8.19		-	38.79		
TOTAL T	ANG TO MANACEMENT	T, CAPITAL & RISK —			<del>&gt;</del> 65.:	00	36.79		
REIU.		GEMENT & RISK —				90		> (	44.64)
						1		, ,	,
Managem	ent Services ( 8	% of Tot. Oper. Exp.	. )			!	30.80		
TOTAL OWN	ERSHIP COST			140.90		i	282.34		
				========		1	=======		
TOTAL COS	T			\$526.01			\$667.45		
RETU	RN TO MANAGEMENT	, CAPITAL & RISK —— (PROFITS) ————			—> \$65.°	98			ADE 45)
	RETURN TO RISK	(PROFITS)						<del></del> >(	\$75.45)
		OPERATING COST (PER	R Tn)		\$52.				\$52.44
	N PRICE TO COVER				\$20.	•			\$40.33
BREAK-EVE	N PRICE TO COVER	TOTAL COST			\$72.	57			\$92.77

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Table 5C. Variable Operating Costs; Alfalfa Hay w/ Sheep, 1996

COUNTY:	Mohave	FARM: Mohave	e County Farm	WATER SOURCE:	ColPum	TILLAGE:	Conventional
CROP:	Alfalfa Hay w/Graze	ACRES:	1.0	IRRIGATION SYSTEM:	Flood Basin	SOIL:	Sandy-Loam
AREA:	Mohave Valley	YIELD:	7.0 In/Acre	PREVIOUS CROP:	Alfalfa Hay	DATE:	10/03/96

	First		— Hou	rs * -	ı ———	- Operat	ing Costs	(\$/Acre*) —			Tot. Cash	
No.	Month	Operation	Machine	Labor	Fuel/Rps	. Labor	Cust/Ser.	Materials	Total	Times	Expense	Class
1	Jan	Irrigate		0.161	1.25	1.13			2.38	10.0	23.80	G
2	Feb	Irrigate/Run Fertilizer		0.161	1.25	1.13		11.90	14.28	6.0	85.68	G
3	Apr	Swathing	0.180	0.200	2.54	1.40			3.94	7.0	27.59	н
4	Apr	Raking	0.129	0.143	1.58	1.00			2.58	7.0	18.09	H
5	Apr	Baling	0.180	0.200	4.95	1.40		1.85	8.20	7.0	57.39	H
6	Apr	Roadsiding	0.082	0.091	1.47	0.77			2.24	7.0	15.66	H
7	Apr	Apply Herbicide/Air			ĺ		5.90	20.79	32.69	2.0	65.38	G
8	Apr	Apply Insecticide/Air			ĺ		6.00	15.02	21.02	1.0	21.02	G
9	Jun	Irrigate/Run Fertilizer		0.161	1.25	1.13		15.56	17.94	1.0	17.94	G
10	Jul	Rerun Borders	0.090	0.100	0.76	0.84			1.60	1.0	1.60	G
11	Sep	Apply Insecticide/Air			İ		8.32	3.09	11.41	2.0	22.82	G
12	Oct	Renovate	0.180	0.200	2.14	1.68			3.82	0.3	1.15	G
13	Oct	Plant	0.300	0.333	2.50	2.80		33.08	38.38	0.3	11.52	L
		Pickup Use 60 Mi/Ac	2.000		15.26						15.26	0
		Operating Interest at 8.00%	;				0.15				0.15	0
		TOTAL CASH OPERATING EXPENSE	IS:		\$112.46	\$53.38	\$46.59	\$172.61			\$385.05	T

<sup>\*</sup> 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.

OPERATING COST SUMMARY BY Land Preparation (L)	CLASS \$11.51	   Prices ->	SENSIT	IVITY 	OF NET RE -25%	VENUES OVE	ER TOTAL CAS Budgeted	SH EXPENSI +10%	ES (\$/Acre) +25%	
Growing (G)	239.38				AC1 F0	472.00	***	<b>*</b>	4100 50	
Harvest (H) Post Harvest (P)	118.73 0.00	Yields 		¦	\$61.50	\$73.80 ————	\$82.00	\$90.20	\$102.50	Break-even
Marketing (M)	0.00	-25%	5.2	i	-32.49	32.08	75.13	118.18	182.75	67.68
Operating Overhead (O)	15.41	-10%	6.3	- 1	14.27	91.76	143.42	195.08	272.57	59.23
		Budgeted	7.0	- 1	45.45	131.55	188.95	246.35	332.45	55.00
Total (T)	\$385.04	+10%	7.7	- 1	76.62	171.33	234.47	297.61	392.32	51.54
		+25%	8.7	- 1	123.39	231.01	302.76	374.51	482.14	47.39
		Break-even	Yield	- 1	5.97	4.68	4.09	3.63	3.11	

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COUNTY: CROP: AREA:		ay w/Graze lley	FARM: Mohave ACRES: YIELD:	County Farm 1.0 7.0 Tn/Acre	IR	TER SOU RIGATIO EVIOUS	N SYST	EM: Flo	Pum od Basin alfa Hay	TILLAGE: SOIL: DATE:	Conventional Sandy-Loam 10/03/96
		Water				<u> </u>	perati	ng Cost	(\$/Acre) —		
	Number	Applied	Total	Purchased	Fuel, Oil	-	•	<b>5</b>	Other		
Month *	Irrig.	(Inches)	Labor (Hrs)	Water	& Repairs	Lab	or	Chemica	ls Purchase	es Servi	ces Total
JAN C	1.0	5.0	0.16		1.25	1.					2.38
FEB C	2.0	10.0	0.32		2.50	2.		11.9	0		16.66
MAR C	1.0	5.0	0.16		1.25	1.					2.38
APR C	2.0	10.0	0.95		13.04	6.	83	35.8	1 1.85	11.	50 69.03
MAY C	2.0	10.0	0.95		13.04	6.	83		1.85		21.72
JUN C	2.0	10.0	0.95		13.04	6.	83	48.2	5 1.85	5.	50 75.47
JUL C	1.0	5.0	0.89		12.55	6.	54	11.9	0 1.85		32.84
AUG C	2.0	10.0	0.95		13.04	6.	83	23.8	1 1.85		45.53
SEP C	2.0	10.0	0.95		13.04	6.	83	18.0	9 1.85	16.	64 56.45
OCT C	1.0	5.0	0.95		13.19	7.	04		11.77		32.00
NOV C	1.0	5.0	0.16		1.25	1.	13				2.38
Pickup U	Use 60 Mi	/Ac	·		15.26						15.26
Operation	ng Interes	t at 8.0%								0.3	14 0.14
Total	17.0	85.0	7.43		112.46	53.	36	149.7	6 22.89	33.	78 372.25
9			i		30.21	14.	33	40.2	3 6.14	9.	
TOTAL RI	ESOURCES R	EQUIREMENTS	(/Acre)	TOTAL ENERGY R	EOUIREMENTS (	/Acre)					
Total		223.8 lbs	,	Diesel Fuel	~ .	22.4	Gal				
Total	P	38.8 lbs		Regular Gas		0.0	Gal				
Total		0.0 lbs		NonLead Gas		6.0	Gal				
	Labor	7.4 Hrs		Electricity/	Pumping	309.9	KWH				
	Water	85.0 AI		All Direct E		4.9	M BT	טי			
EOUIPMEN	NT REOUIRE	MENTS (/Acre	)								
	ower, 14.0		1.26 Hrs	Tractor, 100	PTO HP. MFW	ID.	2.40	Hrs R	ake, 9.5' LH A	AND RH	0.90 Hrs
	, 3 wire w		1.26 Hrs			_			order Disk, 6'		0.09 Hrs
	t Disk, 13		0.05 Hrs						ickup Truck, 1		2.00 Hrs
MATERIA	LS REQUIRE	MENTS (/Acre	)								
	, Pump	,,	85.00 AI	32-00-00, UR	AN 32, Lgd		60.00	Ga T	wine, Plastic,	6500 '	3.43 TF
	uralin		40.00 Lb	Disulfoton	, 1		2.00		0-34-00, Lqd		10.00 Ga
Methor	myl		1.00 Pt	Alfalfa Sd,	Cert		4.50		, <u>1</u> -		
LABOR RI	EQUIREMENT	S(/Acre)									
Irriga	ators		2.74 Hrs	Harvest			3.80	Hrs T	ractor		0.90 Hrs

<sup>\*</sup> NOTE: P = Previous Year C = Current Year N = Next Year

COU CRO ARE		Alfalfa	Hay w/Graze	FARM: 1 ACRES: YIELD:	Mohave County Farm 1.0 7.0 Tn/Acre	I	ATER SOURCE: RRIGATION SYSTEM: REVIOUS CROP:	ColPum Flood Basin Alfalfa Hay		SOIL: Sa	onventional andy-Loam 0/03/96
	First	:		Equ	uipment/Custom Oper.	Job Rate	e — Mater	ial Use & Co	st — S	ervice Cost	Labor
No.	Month	n Times	Operation	HP	Self-Prop./Implem.	Acres/H	r Name	Appl. Rate	\$/Unit	\$/Unit	Type
1	Jan 1	0.0 Iri	rigate			6.20	Water, Pump	5.00 AI	3.01 A	F	 Irrigator
2	Feb	6.0 Iri	rigate/Run Fert	iliz		6.20	Water, Pump 32-00-00, URAN 3		3.01 A 205.00 T		Irrigator
3	Apr	7.0 Swa	athing		Windrower, 14.0', HS, S	5.00					Harvest
4	Apr	7.0 Ral	king	100	Rake, 9.5' LH AND RH	7.00					Harvest
5	Apr	7.0 Bal	ling	100	Baler, 3 wire w/motor	5.00	Twine, Plastic,	65 0.49 TF	3.60 Т	F	Harvest
6	Apr	7.0 Roa	adsiding		Bale Wagon, SP PRC	11.00					Tractor
7	Apr	2.0 App	oly Herbicide/A	ir	CST Air Apply Granules		Trifluralin	20.00 Lb	0.99 L	b 5.50 Ac	
8	Apr	1.0 App	oly Insecticide	/Air	CST Air Spray, 3 Gal Mi		Disulfoton	2.00 Pt	57.21 G	a 6.00 Ac	
9	Jun	1.0 Iri	rigate/Run Fert	iliz		6.20	Water, Pump	5.00 AI	3.01 A	F	Irrigator
							10-34-00, Lqd	10.00 Ga	260.00 T	n	
10	Jul	1.0 Res	run Borders	100	Border Disk, 6' Disk	10.00					Tractor
11	Sep	2.0 App	oly Insecticide	/Air	CST Air Spray, 5 Gal Mi		Methomyl	0.50 Pt	47.16 G	a 8.32 Ac	
12	Oct	0.3 Rer	novate	100	Offset Disk, 13.5'	5.00					Tractor
13	Oct	0.3 Pla	ant	100	Seeder, Broadcast	3.00	Alfalfa Sd, Cert	15.00 Lb	210.00 C	W	Tractor
		Pic	ckup Use 60 Mi	/Ac	Pickup Truck, 1/2 Ton	0.50					

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

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