FARM: Yuma County 98 COUNTY: Yuma WATER SOURCE: Yuma Irrigation District, TILLAGE: Double Cropped Sandy-Loam 1/25/99 CROP: Sudan Hay ACRES: IRRIGATION SYSTEM: Flood Basin SOIL: Yuma Valley South YIELD: AREA: 5.0 Tn / Acre PREVIOUS CROP: Wheat, Durum DATE:

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME Hay	Ton	5.00	\$92.00	\$460.00	\$460.00	
CASH LAND PREPARATION AND G Paid Labor (including benefits) Tractor/Self Propelled Irrigation	ROWING EXPENSES (in	cluding sales tax)		9.32 13.00	22.32	
Chemicals and Custom Applicatio Fertilizer	ns			87.08	87.08	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				4.80 7.68	12.47	
Irrigation Water (excluding labor) Water Assessment (See Note Beld	ow) **				0.00	
Other Purchased Inputs & Seed/Transplants				15.90	15.90	
	TOTAL CASH LAND PRE	PARATION AND GROW	ING EXPENSES		137.77	
CASH HARVEST AND POST HARVE	EST EXPENSES					
Paid Labor (including benefits) Tractor/Self Propelled Other/Contract				10.70 7.04	17.74	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				7.93 45.88	53.81	
Other Materials					13.09	
	TOTAL HARVEST AND P	OST HARVEST EXPENS	SE		84.65	
OPERATING OVERHEAD PICKU	P USE				7.56	
OPERATING INTEREST AT 10.0%					18.53 	
	TOTAL CASH OPERATIN	IG EXPENSES I OPERATING EXPENS	EQ		\$248.51 \$211.49	
	NETURNO OVER CASI	OFERALING EXPENS	ES		φ∠11.49	

Notes: The above figures do not include ownership costs, see table B for detailed cost allocation.

<sup>\*\*</sup> A water assessment charge of \$12.50 per Acre is included as an ownership cost in Table B.

COUNTY:Yuma FARM: Yuma County 98 WATER SOURCE: Yuma Irrigation District, CROP: Sudan Hay ACRES: 1.0 IRRIGATION SYSTEM: Flood Basin SOIL: Sandy-Loam PREVIOUS CROP: Wheat, Durum DATE: 1/25/99

ltem	CASH COST BASI Income and Costs	S (\$/ACRE) Net Returns	TOTAL COST BASIS	S (\$/ACRE) Net Returns
TOTAL INCOME at \$92.00 / Tn	\$460.00		\$460.00	
TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$248.51	\$211.49	\$248.51	\$211.49
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead (5.0% of Total Operating Exp.) General Farm Maintenance (3.0% of Total Operating Exp.)	6.99 12.43 7.46		6.99 12.43 7.46	
Total Cash Overhead Expenses	26.87		26.87	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES	275.38	\$184.62	275.38	\$184.62
CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles			45.49 7.60	
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK - RETURNS TO LAND, MANAGEMENT AND RISK	>	• \$184.62 	53.09	\$131.53
Land Cost / Ownership (100% Equity) Property Taxes (\$1,314. X 16.0% X 0.132) Opportunity Interest on Land (100% X 6.0 X \$1,314.) Water Assessment	13.90 12.50		13.90 39.42 12.50	
Total Land Costs  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO MANAGEMENT AND RISK	26.40 	\$158.23	65.82	\$65.71
Management Services (8% of Total Operation Expenses)			19.88	
TOTAL OWNERSHIP COST	53.27		165.66	
TOTAL COST  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO RISK (PROFITS)	\$301.77 >	\$158.23	\$414.17	\$45.83
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BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$49.70 \$10.65 \$60.35		\$49.70 \$33.13 \$82.83

COUNTY:Yuma FARM: Yuma County 98 WATER SOURCE: Yuma Irrigation District, TILLAGE: Double Cropped CROP: Sudan Hay ACRES: IRRIGATION SYSTEM: Flood Basin Sandy-Loam SOIL: AREA: Yuma Valley South YIELD: 5.0 Tn / Acre PREVIOUS CROP: Wheat, Durum 1/25/99 DATE:

	First		Hour	s *	Operati	ng Costs (	\$/ACRE *) Per Opera				
No.	Month	Operation	Machine	Labor	Fuel/Rps.	Labor Cu	ust/Serv. Materials	Total	Times	Expenses	Class
1	May	Disk	0.225	0.250	3.30	1.95		5.25	2.0	10.49	L
2	May	Disk Ends	0.011	0.013	0.11	0.10		0.22	1.0	0.22	G
3	May	Make Borders	0.113	0.125	0.59	0.97		1.56	1.0	1.56	G
4	Jun	Apply Fert/Ground	0.036	0.040	0.20	0.31	26.24	26.75	1.0	26.75	G
5	Jun	Plant	0.240	0.267	2.64	2.08	15.90	20.63	1.0	20.63	L
6	Jun	Irrigate		0.250		1.62		1.62	5.0	8.12	G
7	Jul	Irrigate/Run Fertilizer		0.250		1.62	20.28	21.91	3.0	65.72	G
8	Jul	Swathing	0.180	0.200	2.67	1.30		3.97	4.0	15.89	Н
9	Jul	Crimping	0.180	0.200	1.57	1.56		3.13	4.0	12.50	Н
10	Jul	Baling	0.129	0.143	3.61	1.12	3.27	8.00	4.0	31.99	Н
11	Jul	Roadsiding	0.064	0.071	5.60	0.46		6.07	4.0	24.26	Н
12	Oct	Disk Residue	0.225	0.250	2.33	1.95		4.28	1.0	4.28	L
		Pickup Use30 Mi/Acre	1.000		7.56					7.56	
		Operating Interest at 10.0					18.53			18.53	
TOTAL CASH OPERATING EXPENSES (includes all times over):										248.51	Т

\*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 \$12.50 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS		SENSITIVITY	SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE)								
Land Preparation (L)	35.40	Prices		- 25%	- 10%	Budgeted	+ 10%	+ 25%	_		
Growing (G) Harvest (H)	102.37 84.65	Yields		\$69.00	\$82.80	\$92.00	\$101.20	\$115.00 I	Break-even Price		
Post Harvest (P)	0.00	- 25%	3.8	40.42	92.17	126.67	161.17	212.92	58.22		
Marketing (M)	0.00	- 10%	4.5	79.47	141.57	182.97	224.37	286.47	51.34		
Operating Overhead (O)	26.09	Budgeted	5.0	105.51	174.51	220.51	266.51	335.51	47.90		
		+ 10%	5.5	131.54	207.44	258.04	308.64	384.54	45.08		
Total (T)	\$248.51	+ 25%	6.3	170.60	256.85	314.35	371.85	458.10	41.70		
		Break-even Yi	ield	2.97	2.35	2.06	1.84	1.58			

COUNTY:Yuma FARM: Yuma County 98 WATER SOURCE: Yuma Irrigation District, CROP: Sudan Hay ACRES: 1.0 IRRIGATION SYSTEM: Flood Basin SOIL: Sandy-Loam PREVIOUS CROP: Wheat, Durum DATE: 1/25/99

	M	Water	7.7.1	Operating Costs (\$/ACRE *)								
Month *	Number Irrigations	Applied (inches)	Total Labor (Hrs)	Purchased Water	Fuel, Oil and Repairs	Labo	r	Chemicals	Other Purchases	Services	Total	
MAY C			0.64		7.29	4.9	วย				12.27	
JUN C	2.0	12.0	0.81		2.85			26.24	15.90		50.62	
JUL C	2.0	12.0	1.11		13.45			20.28	3.27		44.69	
AUG C	2.0	12.0	1.11		13.45			20.28	3.27		44.69	
SEP C	2.0	12.0	1.11		13.45	7.6	69	20.28	3.27		44.69	
OCT C			0.86		15.79	6.3	39		3.27		25.44	
Pickup Use3	30 Mi/Acre				7.56						7.56	
Operating In	terest at 10.0									18.53	18.53	
Water Asses	sment			**								
Total	8.0	48.0	5.65		73.84	40.	06	87.08	28.99	18.53	248.51	
%					29.71	16.	12	35.04	11.67	7.46	100.00	
Total P Total K Total Labo Total Wate		72.0 0.0 5.7 48.0		Unleade All Direc	t Energy		Gal M B					
EQUIPMEN <sup>*</sup>	Γ REQUIREM	IENTS ( per	Acre)									
	on, SP PRC		.26 Hr	Baler, 3 wire w/mo		0.52 Hr		Border Dis		0.11 Hr		
	Broadcaster,		.04 Hr	Grain Drill, 12'		0.24 Hr		Hay Crimp		0.72 Hr		
Offset Dis			.24 Hr	Offset Disk, 16.5		0.45 Hr			ıck, 1/2 Ton	1.00 Hr		
	70 PTO HP, er, 14.0', HS, \$		67 Hr 72 Hr	Tractor, 100 PTO	HP,	1.20 Hr		Tractor, 15	50 PTO HP,	0.45 Hr		
MATERIALS	REQUIREM	ENT ( per A	cre)									
11-48-00,	Dry		.00 <sup>°</sup> Lb	32-00-00, URAN 3		0.00 Ga		Baling Twi	ne (6500')	1.88 TF		
Sudan Gr	ass Sd	30.	.00 Lb	Water, District	4	8.00 AI						
LABOR DEC	N IIDEMENT	(nor Aors)										
Harvest	QUIREMENT		.08 Hr	Irrigators		2.00 Hr		Tractor		2.57 Hr		
			urrent Voor N					1140101		2.07 111		

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

<sup>\*\*</sup> A water assessment charge of \$12.50 per Acre is included as an ownership cost in Table B.

COUNTY:Yuma FARM: Yuma County 98 WATER SOURCE: Yuma Irrigation District, TILLAGE: Double Cropped Sandy-Loam 1/25/99 CROP: Sudan Hay ACRES: IRRIGATION SYSTEM: Flood Basin 1.0 SOIL: AREA: Yuma Valley South YIELD: 5.0 Tn / Acre PREVIOUS CROP: Wheat, Durum DATE:

No	First o.MonthT	imes	Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acres/Hr		Use and Cost Appl. Ra	te \$ / Uni	Service Cost t \$ / Unit	Labor Type
1	May	2.0	Disk	150 Offset Disk, 16.5'	4.00					Tractor
2	May	1.0	Disk Ends	100 Offset Disk, 13.5'	80.00					Tractor
3	May	1.0	Make Borders	70 Border Disk, 6' Disk	8.00					Tractor
4	Jun	1.0	Apply Fert/Ground	70 Fertilizer Broadcaster,	25.00	11-48-00, Dry	150.00 Lb	330.00	Tn	Tractor
5	Jun	1.0	Plant	100 Grain Drill, 12'	3.75	Sudan Grass Sd	30.00 Lb	50.00 C	W	Tractor
6	Jun	5.0	Irrigate	•	4.00	Water, District	6.00 AI	0.00	AF	Irrigators
7	Jul		Irrigate/Run Fertilizer		4.00	Water, District 32-00-00, URAN 32.	6.00 Al 20.00 Ga	0.00 A		Irrigators
8	Jul	4.0	Swathing	Windrower, 14.0', HS, SC	5.00	, ,				Harvest
9	Jul		Crimping	100 Hay Crimper	5.00					Tractor
10	Jul		Baling	70 Baler, 3 wire w/motor	7.00	Baling Twine (6500')	0.47 TF	6.57	TF	Tractor
11	Jul		Roadsiding	Bale Wagon, SP PRC	14.00					Harvest
12	Oct		Disk Residue	100 Offset Disk, 13.5'	4.00					Tractor
			Pickup use 30 Mi/Ac	Pickup Truck, 1/2 Ton	1.00					

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