

COUNTY: Yuma	FARM: Yuma Vegetables	WATER SOURCE: YCWUA	TILLAGE: Double Crop
CROP: Cauliflower	ACRES: 1.0	IRRIGATION SYSTEM: Flood Furrow	SOIL: Sandy-Loam
AREA: Yuma Valley North	YIELD: 511.0 Ct/Acre	PREVIOUS CROP: Wheat, Winter	DATE: 08/20/95

Item	Unit	Quantity	Price /Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Cauliflowe	Crtm	511.00	\$6.3400	\$3,239.74	\$3,239.74	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					105.21	_____
Tractor/Self Propelled				45.71		_____
Irrigation				30.72		_____
Other/Contract				28.79		_____
Chemicals & Custom Applications					326.74	_____
Fertilizers				164.56		_____
Insecticides				147.31		_____
Herbicides				4.01		_____
Other Chemicals				10.86		_____
Farm Machinery and Vehicles					63.57	_____
Diesel Fuel				14.52		_____
Gasoline				12.83		_____
Repairs & Maint.				36.22		_____
Irrigation (excluding labor)					56.08	_____
PumpEnergy - Diesel/Nat'l Gas				4.99		_____
Repairs & Maint.				51.09		_____
Water Assessment (See Note Below) **					**	_____
Other Purchased Inputs & Services					411.84	_____
Seed/Transplants				207.84		_____
Other Services & Rentals				204.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					963.44	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					1.36	_____
Tractor/Self Propelled				1.36		_____
Farm Machinery and Vehicles					2.20	_____
Diesel Fuel				0.78		_____
Repairs & Maint.				1.42		_____
Custom Harvest/Post Harvest					1,354.15	_____
Other Materials					509.72	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					1,867.42	_____
OPERATING OVERHEAD->PICKUP USE					27.04	_____
OPERATING INTEREST AT 9.0%					14.23	_____
TOTAL CASH OPERATING EXPENSES					\$2,872.13	=====
RETURNS OVER CASH OPERATING EXPENSES					\$367.61	=====

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

** A water assessment charge of \$31.00/Acre is included in the ownership costs of Table 5B.

Table 5C. Variable Operating Costs; Cauliflower, 1995

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop
 CROP: Cauliflower ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 511.0 Ct/Acre PREVIOUS CROP: Wheat, Winter DATE: 08/20/95

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	0.150	0.167	2.20	1.36				3.56	3.0	10.67	L
2	Jul	Rip	0.225	0.250	2.58	2.03				4.61	1.0	4.61	L
3	Jul	Make Borders	0.022	0.025	0.09	0.20				0.29	1.0	0.29	G
4	Jul	Preirrigate		0.909		6.15				6.15	1.0	6.15	G
5	Jul	Knock Borders	0.022	0.025	0.09	0.20				0.29	1.0	0.29	G
6	Jul	Dust Control	0.009	0.010	0.15	0.15				0.30	155.0	46.35	G
7	Aug	Laser Level	0.450	0.500	7.10	4.06				11.16	1.0	11.16	L
8	Aug	Apply Herbicide/Ground	0.075	0.083	0.43	0.67		4.01		5.11	1.0	5.11	G
9	Aug	Soil Fertility					12.00			12.00	2.0	24.00	G
10	Aug	Apply Fert/Ground	0.113	0.125	1.12	1.01		58.17		60.30	1.0	60.30	G
11	Aug	List	0.150	0.167	1.28	1.36				2.64	1.0	2.64	L
12	Aug	Mulch	0.150	0.167	1.47	1.36				2.83	1.0	2.83	L
13	Aug	Shape Beds	0.138	0.154	0.91	1.25		7.63		9.79	1.0	9.79	L
14	Aug	Plant	0.300	0.333	2.99	2.70		207.84		213.53	1.0	213.53	L
15	Aug	Set Sprinklers	0.158	0.875	0.48	6.16				6.64	1.0	6.64	G
16	Aug	Irrigate/Sec Sys		1.205	56.08	8.16				64.24	1.0	64.24	G
17	Sep	Field Scouting					15.00			15.00	2.0	30.00	G
18	Sep	Apply Insecticide/Air					5.50	3.19		8.69	1.0	8.69	G
19	Sep	Remove Sprinklers	0.158	0.875	0.48	6.16				6.64	1.0	6.64	G
20	Sep	Make Basins	0.045	0.050	0.19	0.41				0.60	8.0	4.79	G
21	Sep	Irrigate/Run Fertilizer		0.125		0.85		6.65		7.50	5.0	37.50	G
22	Sep	Knock Basins	0.045	0.050	0.19	0.41				0.60	8.0	4.79	G
23	Sep	Cultivate	0.300	0.333	1.72	2.70				4.42	1.0	4.42	G
24	Sep	Spike Furrows	0.225	0.250	1.05	2.03				3.08	3.0	9.23	G
25	Sep	Apply Insecticide/Air					5.50	7.39		12.89	1.0	12.89	G
26	Sep	Cultivate	0.180	0.200	0.95	1.62				2.57	2.0	5.15	G
27	Sep	Apply Insect./Ground	0.015	0.017	0.15	0.14		10.76		11.05	3.0	33.14	G
28	Sep	Apply Fert/Ground	0.225	0.250	1.81	2.03		32.74		36.58	2.0	73.16	G
29	Oct	Hand Weeding					75.00			75.00	2.0	150.00	G

* NOTES: See next page for notes.

Table 5C. Variable Operating Costs; Cauliflower, 1995

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop
 CROP: Cauliflower ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 511.0 Ct/Acre PREVIOUS CROP: Wheat, Winter DATE: 08/20/95

No.	First Month	Operation	Hours * -		Operating Costs (\$/Acre*)					Times	Tot. Cash Expense	Class
			Machine	Labor	Fuel/Rps.	Labor	Cust/Ser.	Materials	Total			
30	Oct	Apply Insect./Ground	0.015	0.017	0.15	0.14		10.76	11.05	3.0	33.14	G
31	Nov	Apply Fungicide/Ground	0.015	0.017	0.15	0.14		10.86	11.15	1.0	11.15	G
32	Nov	Apply Insect./Ground	0.015	0.017	0.15	0.14		20.40	20.69	3.0	62.06	G
33	Nov	Shovel Ends		0.400		2.71			2.71	2.0	5.42	G
34	Nov	Irrigate		0.200		1.35			1.35	2.0	2.70	G
35	Nov	Harvest 511.0 Ct					1,354.15	509.72	1,863.87	1.0	1,863.87	H
36	Jan	Residue Disposal	0.150	0.167	2.20	1.36			3.56	1.0	3.56	P
		Pickup Use 117 Mi/Ac	3.900		27.03						27.03	O
		Operating Interest at 9.00%						13.70			13.70	O
TOTAL CASH OPERATING EXPENSES:					\$148.89	\$106.58	\$1,582.85	\$1,033.30			\$2,871.62	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 \$31.00/Acre included as ownership cost in Table 5B.

OPERATING COST SUMMARY BY CLASS		SENSITIVITY OF NET REVENUES OVER TOTAL CASH EXPENSES (\$/Acre)						
		Prices ->		-25%	-10%	Budgeted	+10%	+25%
Land Preparation (L)	\$255.21							
Growing (G)	708.23							
Harvest (H)	1,863.87	Yields		\$4.75	\$5.70	\$6.34	\$6.97	\$7.92 Break-even
Post Harvest (P)	3.55							
Marketing (M)	0.00	-25%	383.2	-582.40	-217.93	25.04	268.02	632.49
Operating Overhead (O)	40.73	-10%	459.9	-498.04	-60.68	230.89	522.46	959.83
		Budgeted	511.0	-441.81	44.15	368.12	692.09	1,178.05
Total (T)	\$2,871.61	+10%	562.1	-385.57	148.98	505.35	861.72	1,396.28
		+25%	638.7	-301.21	306.23	711.20	1,116.17	1,723.62
		Break-even Yield		912.44	489.47	373.92	302.50	235.14

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop
 CROP: Cauliflower ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 511.0 Ct/Acre PREVIOUS CROP: Wheat, Winter DATE: 08/20/95

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	1.0	12.0	1.42		5.71	10.70						16.40
AUG C	1.0	6.0	4.24		80.71	33.95	69.81	207.84	12.00			404.31
SEP C	1.0	3.0	2.70		12.05	22.89	60.73		26.00			121.66
OCT C	2.0	6.0	1.53		9.77	14.21	99.85		177.00			300.83
NOV C	3.0	8.0	1.40		5.67	12.31	64.95	101.94	265.00			449.87
DEC C	1.0	2.0	1.21		5.75	11.16	20.40	407.78	1,089.15			1,534.24
JAN N			0.16		2.20	1.36						3.55
Pickup Use 117 Mi/Ac					27.03							27.03
Operating Interest at 9.0%									13.67			13.67
Water Assessment					**							
Total	9.0	37.0	12.68		148.89	106.57	315.74	717.56	1,582.82			2,871.57
%					5.18	3.71	11.00	24.98	55.12			100.00
TOTAL RESOURCES REQUIREMENTS(/Acre)				TOTAL ENERGY REQUIREMENTS(/Acre)								
Total N	250.9 lbs			Diesel Fuel	30.0	Gal						
Total P	227.4 lbs			Regular Gas	0.6	Gal						
Total K	0.0 lbs			NonLead Gas	21.4	Gal						
Total Labor	12.6 Hrs											
Total Water	37.0 AI			All Direct Energy	6.9	M BTU						
EQUIPMENT REQUIREMENTS(/Acre)												
Tractor, 150 PTO HP, MFWD	0.83 Hrs	Offset Disk, 18'		0.60 Hrs	Subsoiler, Heavy Duty, 7 Shnk		0.23 Hrs					
Tractor, 60 PTO HP, MFWD	3.18 Hrs	Border Disk, 6' Disk		0.76 Hrs	Truck, 5 Ton w/1000 Gal Tank		1.40 Hrs					
Tractor, 175 PTO HP	0.45 Hrs	Drag Scraper, 14'		0.45 Hrs	Laser Receiver, Mast System		0.45 Hrs					
Laser Trailer	0.45 Hrs	Saddle Tk Sprayer, 2 Tk 8 Row		0.21 Hrs	Fertilizer Spreader, 28'		0.11 Hrs					
Tractor, 100 PTO HP, MFWD	0.30 Hrs	Lister, 5 Bottom		0.15 Hrs	Power Mulcher, 4 Rw		0.15 Hrs					
Bed Shaper, 4 Rw	0.14 Hrs	Planter, Stanhay, 4 Row		0.30 Hrs	Tractor, 40 PTO HP, MFWD		0.32 Hrs					
Sprinkler Trailer	0.32 Hrs	Cultivator, Sweep, 4 Rw		0.30 Hrs	Furrow Spike, 4 Rw		0.68 Hrs					
Rolling Cultivator, 4 Rw	0.36 Hrs	High Clearance Sprayer, 18 Rw		0.15 Hrs	Fertilizer Injector, 4 Row		0.45 Hrs					
Pickup Truck, 1/2 Ton	3.90 Hrs											
MATERIALS REQUIREMENTS(/Acre)												
Water, District	37.00 AI	Trifluralin		1.00 Pt	11-52-00, Dry		400.00 Lb					
10-34-00, Lqd	5.00 Ga	Cauliflower Seed		3.00 Lb	Ethyl Parathion		1.34 Pt					
20-0-0-45, Nitro-Sul	25.00 Ga	Methomyl		4.77 Pt	Permethrin		48.00 Oz					
33-00-00, Amm. Nitrate, Lqd	44.00 Ga	Chlorothalonil		2.00 Pt	BT		0.75 Lb					
Methamidophos	6.00 Pt	Boxes for Cauliflower		511.00 Ct								
LABOR REQUIREMENTS(/Acre)												
Tractor	5.80 Hrs	Irrigators		4.54 Hrs	Truck Driver		1.55 Hrs					
Other	0.80 Hrs											

* NOTE: P = Previous Year C = Current Year N = Next Year

** A water assessment charge of \$31.00/Acre included as ownership cost in Table 5B.

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop
 CROP: Cauliflower ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 511.0 Ct/Acre PREVIOUS CROP: Wheat, Winter DATE: 08/20/95

No.	Month	First Times	Operation	Equipment/Custom Oper.		Job Rate Acres/Hr	Material Use & Cost Name	Appl. Rate	\$/Unit	Service Cost \$/Unit	Labor Type
				HP	Self-Prop./Implem.						
1	Jul	3.0	Disk	150	Offset Disk, 18'	6.00					Tractor
2	Jul	1.0	Rip	150	Subsoiler, Heavy Duty,	4.00					Tractor
3	Jul	1.0	Make Borders	60	Border Disk, 6' Disk	40.00					Tractor
4	Jul	1.0	Preirrigate			1.10	Water, District	12.00 AI	0.00 AF		Irrigator
5	Jul	1.0	Knock Borders	60	Border Disk, 6' Disk	40.00					Tractor
6	Jul	155.0	Dust Control		Truck, 5 Ton w/1000 Gal	100.00					Truck Dri
7	Aug	1.0	Laser Level	175	Drag Scraper, 14' Laser Receiver, Mast Sy Laser Trailer	2.00					Tractor
8	Aug	1.0	Apply Herbicide/Groun	60	Saddle Tk Sprayer, 2 Tk	12.00	Trifluralin	1.00 Pt	30.53 Ga		Tractor
9	Aug	2.0	Soil Fertility		CST Soil Analysis (Surf					12.00 Ac	
10	Aug	1.0	Apply Fert/Ground	60	Fertilizer Spreader, 28	8.00	11-52-00, Dry	400.00 Lb	277.00 Tn		Tractor
11	Aug	1.0	List	100	Lister, 5 Bottom	6.00					Tractor
12	Aug	1.0	Mulch	100	Power Mulcher, 4 Rw	6.00					Tractor
13	Aug	1.0	Shape Beds	60	Bed Shaper, 4 Rw Saddle Tk Sprayer, 2 Tk	6.50	10-34-00, Lqd	5.00 Ga	255.00 Tn		Tractor
14	Aug	1.0	Plant	60	Planter, Stanhay, 4 Row	3.00	Cauliflower Seed	3.00 Lb	65.98 Lb		Tractor
15	Aug	1.0	Set Sprinklers	40	Sprinkler Trailer	5.70					Tractor Irrigator
16	Aug	1.0	Irrigate/Sec Sys			0.83	Water, District	6.00 AI	0.00 AF		Irrigator
17	Sep	2.0	Field Scouting		CST Scout For Insects					15.00 Ac	
18	Sep	1.0	Apply Insecticide/Air		CST Air Spray, 5 Gal Mi		Ethyl Parathion	0.67 Pt	36.24 Ga	5.50 Ac	
19	Sep	1.0	Remove Sprinklers	40	Sprinkler Trailer	5.70					Tractor Irrigator
20	Sep	8.0	Make Basins	60	Border Disk, 6' Disk	20.00					Tractor
21	Sep	5.0	Irrigate/Run Fertiliz			8.00	Water, District 20-0-0-45, Nitro-S	3.00 AI 5.00 Ga	0.00 AF 260.00 Tn		Irrigator
22	Sep	8.0	Knock Basins	60	Border Disk, 6' Disk	20.00					Tractor
23	Sep	1.0	Cultivate	60	Cultivator, Sweep, 4 Rw	3.00					Tractor
24	Sep	3.0	Spike Furrows	60	Furrow Spike, 4 Rw	4.00					Tractor
25	Sep	1.0	Apply Insecticide/Air		CST Air Spray, 5 Gal Mi		Methomyl Ethyl Parathion	0.75 Pt 0.67 Pt	42.68 Ga 36.24 Ga	5.50 Ac	
26	Sep	2.0	Cultivate	60	Rolling Cultivator, 4 R	5.00					Tractor
27	Sep	3.0	Apply Insect./Ground		High Clearance Sprayer,	60.00	Methomyl Permethrin	0.67 Pt 8.00 Oz	42.68 Ga 106.75 Ga		Tractor
28	Sep	2.0	Apply Fert/Ground	60	Fertilizer Injector, 4	4.00	33-00-00, Amm. Nit	22.00 Ga	270.00 Tn		Tractor
29	Oct	2.0	Hand Weeding		CST Hand Weeding					75.00 Ac	
30	Oct	3.0	Apply Insect./Ground		High Clearance Sprayer,	60.00	Methomyl Permethrin	0.67 Pt 8.00 Oz	42.68 Ga 106.75 Ga		Tractor
31	Nov	1.0	Apply Fungicide/Groun		High Clearance Sprayer,	60.00	Chlorothalonil	2.00 Pt	41.37 Ga		Tractor
32	Nov	3.0	Apply Insect./Ground		High Clearance Sprayer,	60.00	BT Methamidophos	0.25 Lb 2.00 Pt	12.71 Lb 64.98 Ga		Tractor
33	Nov	2.0	Shovel Ends			2.50					Other
34	Nov	2.0	Irrigate			5.00	Water, District	2.00 AI	0.00 AF		Irrigator

NOTES at the bottom of the next page.

Table 5E Schedule of Operations; Cauliflower, 1995

COUNTY: Yuma	FARM: Yuma Vegetables	WATER SOURCE: YCWUA	TILLAGE: Double Crop
CROP: Cauliflower	ACRES: 1.0	IRRIGATION SYSTEM: Flood Furrow	SOIL: Sandy-Loam
AREA: Yuma Valley North	YIELD: 511.0 Ct/Acre	PREVIOUS CROP: Wheat, Winter	DATE: 08/20/95

No.	Month	First Times	Operation	Equipment/Custom Oper. HP Self-Prop./Implem.	Job Rate Acres/Hr	Material Use & Cost Name Appl. Rate	Service Cost \$/Unit	Labor Type
35	Nov	1.0	Harvest	CST Harvest Cauliflower		Boxes for Cauliflo 511.00 Ct	0.95 Ct	2.65 Ct
36	Jan	1.0	Residue Disposal	150 Offset Disk, 18'	6.00			Tractor
			Pickup Use 117 Mi/Ac	Pickup Truck, 1/2 Ton	0.26			

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

** A water assessment charge of \$31.00/Acre included as ownership cost in Table 5B.

ARIZONA COOPERATIVE EXTENSION
 Department of Ag & Resource Economics
 University of Arizona F14/52