

COUNTY: Yuma	FARM: Yuma Vegetables	WATER SOURCE: YCWUA	TILLAGE: Double Crop
CROP: Lettuce, Iceberg	ACRES: 1.0	IRRIGATION SYSTEM: Flood Furrow	SOIL: Sandy-Loam
AREA: Yuma Valley North	YIELD: 599.0 Ct/Acre	PREVIOUS CROP: Wheat, Winter	DATE: 08/20/95

Item	Unit	Quantity	Price /Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Lettuce	Crtn	599.00	\$5.3200	\$3,186.68	\$3,186.68	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					97.53	_____
Tractor/Self Propelled				34.59		_____
Irrigation				32.79		_____
Other/Contract				30.16		_____
Chemicals & Custom Applications					501.91	_____
Fertilizers				149.28		_____
Insecticides				231.62		_____
Herbicides				79.25		_____
Other Chemicals				41.76		_____
Farm Machinery and Vehicles					77.17	_____
Diesel Fuel				17.34		_____
Gasoline				16.04		_____
Repairs & Maint.				43.80		_____
Irrigation (excluding labor)					102.81	_____
PumpEnergy - Diesel/Nat'l Gas				9.15		_____
Repairs & Maint.				93.67		_____
Water Assessment (See Note Below) **					**	_____
Other Purchased Inputs & Services					281.60	_____
Seed/Transplants				86.10		_____
Other Services & Rentals				195.50		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					1,061.03	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					1,946.75	_____
Other Materials					628.95	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					2,575.70	_____
OPERATING OVERHEAD->PICKUP USE					11.56	_____
OPERATING INTEREST AT 9.0%					20.34	_____
TOTAL CASH OPERATING EXPENSES					\$3,668.63	=====
RETURNS OVER CASH OPERATING EXPENSES					( \$481.95)	=====

Notes: The above figures do not include ownership costs, see Table 4B on Next Page for detailed cost allocation.

\*\* A water assessment charge of \$31.00/Acre is included in the ownership costs of Table 4B.



Table 4C. Variable Operating Costs: Spring Lettuce, 1995

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop  
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam  
 AREA: Yuma Valley North YIELD: 599.0 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	Aug	Rip	0.450	0.500	5.29	4.06			9.35	1.3	12.16	L
2	Aug	Disk	0.150	0.167	2.20	1.36			3.56	4.0	14.22	L
3	Aug	Laser Level	0.450	0.500	7.10	4.06			11.16	2.0	22.31	L
4	Aug	Make Borders	0.022	0.025	0.10	0.20			0.30	1.0	0.30	G
5	Aug	Preirrigate		0.667		4.51			4.51	2.0	9.02	G
6	Aug	Soil Fertility					12.00		12.00	1.0	12.00	G
7	Aug	Dust Control	0.009	0.010	0.15	0.15			0.30	200.0	59.81	G
8	Oct	Apply Fert/Ground	0.075	0.083	0.39	0.67	61.81		62.87	1.0	62.87	G
9	Oct	Apply Herbicide/Ground	0.150	0.167	2.58	1.36	79.25		83.19	1.0	83.19	G
10	Oct	List	0.180	0.200	1.30	1.62			2.92	1.0	2.92	L
11	Oct	Plant	0.450	0.500	5.55	4.06	86.10		95.71	1.0	95.71	L
12	Oct	Set Sprinklers	0.158	0.875	0.48	6.16			6.64	1.0	6.64	G
13	Oct	Irrigate/Sec Sys		0.091	10.28	0.62			10.90	10.0	109.01	G
14	Oct	Remove Sprinklers	0.158	0.875	0.48	6.16			6.64	1.0	6.64	G
15	Oct	Make Ditches	0.022	0.025	0.29	0.20			0.49	1.0	0.49	G
16	Nov	Field Scouting					15.00		15.00	2.0	30.00	G
17	Nov	Apply Insecticide/Air					5.50	11.38	16.88	3.0	50.64	G
18	Nov	Irrigate/Run Fertilizer		0.250		1.69		12.50	14.19	4.0	56.76	G
19	Nov	Thinning					75.00		75.00	1.0	75.00	G
20	Nov	Cultivate	0.225	0.250	2.60	2.03		20.83	25.46	1.0	25.46	G
21	Nov	Apply Fungicide/Ground	0.015	0.017	0.15	0.14		39.96	40.25	1.0	40.25	G
22	Dec	Apply Insect./Ground	0.015	0.017	0.15	0.14		13.40	13.69	3.0	41.06	G
23	Dec	Bird Control					3.50		3.50	1.0	3.50	G
24	Dec	Make Ditches	0.011	0.013	0.14	0.11			0.25	2.0	0.51	G
25	Dec	Irrigate/Run Fertilizer		0.200		1.35		16.66	18.01	1.0	18.01	G
26	Dec	Hand Weeding					75.00		75.00	1.0	75.00	G
27	Jan	Apply Insect./Ground	0.015	0.017	0.15	0.14		71.29	71.58	2.0	143.15	G
28	Feb	Knock Borders	0.022	0.025	0.10	0.20			0.30	1.0	0.30	G
29	Feb	Knock Ditches	0.022	0.025	0.29	0.20			0.49	1.0	0.49	G

\* NOTES: See next page for notes.

Table 4C. Variable Operating Costs; Spring Lettuce, 1995

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop  
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam  
 AREA: Yuma Valley North YIELD: 599.0 Ct/Acre PREVIOUS CROP: Wheat, Winter DATE: 08/20/95

No.	First Month	Operation	—	Hours * —		Operating Costs (\$/Acre*)					Tot. Cash Expense	Class	
				Machine	Labor	Fuel/Rps.	Labor	Cust/Ser.	Materials	Total			Times
30	Feb	Harvest, Load &	599.0					1,946.75	628.95	2,575.70	1.0	2,575.70	H
31	Mar	Disk Residue		0.150	0.167	2.20	1.36			3.56	1.0	3.56	L
		Pickup Use 50 Mi/Ac		1.670		11.55						11.55	O
		Operating Interest at 9.00%						21.73				21.73	O
TOTAL CASH OPERATING EXPENSES:						\$191.54	\$97.45	\$2,180.48	\$1,200.48			\$3,669.95	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 4B.

OPERATING COST SUMMARY BY CLASS		SENSITIVITY OF NET REVENUES OVER TOTAL CASH EXPENSES (\$/Acre)								
		Prices ->		-25%	-10%	Budgeted	+10%	+25%		
Land Preparation (L)	\$150.86									
Growing (G)	910.09									
Harvest (H)	2,575.70	Yields		\$3.99	\$4.78	\$5.32	\$5.85	\$6.65 Break-even		
Post Harvest (P)	0.00									
Marketing (M)	0.00		-25%	449.2	-1,233.51	-875.01	-636.01	-397.01	-38.51	6.73
Operating Overhead (O)	33.28		-10%	539.1	-1,261.37	-831.17	-544.36	-257.56	172.63	6.32
			Budgeted	599.0	-1,279.94	-801.93	-483.27	-164.60	313.39	6.12
			+10%	658.9	-1,298.51	-772.70	-422.17	-71.63	454.16	5.96
			+25%	748.7	-1,326.36	-728.86	-330.52	67.80	665.31	5.76
Total (T)	\$3,669.95	Break-even Yield			-3,529.84	2,242.31	1,072.79	705.05	465.63	

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COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop  
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 AREA: Yuma Valley North YIELD: 599.0 Ct/Acre PREVIOUS CROP: Wheat, Winter DATE: 08/20/95

Month *	Number Irrig.	Water Applied (Inches)	Total Labor (Hrs)	Operating Cost (\$/Acre)						Total
				Purchased Water	Fuel, Oil & Repairs	Labor	Chemicals	Other Purchases	Services	
AUG P	1.0	10.0	2.26		19.91	18.16			6.00	44.07
SEP P	1.0	10.0	1.81		16.01	15.91			6.00	37.92
OCT P	5.0	5.5	2.24		62.90	18.73	141.06	43.05		265.74
NOV P	6.0	9.5	2.38		61.37	19.55	97.02	43.05	106.50	327.48
DEC P	1.5	5.5	0.79		5.99	8.10	44.64		56.00	114.73
JAN C	2.5	9.5	0.94		4.84	8.91	118.01		37.50	169.26
FEB C			0.38		5.22	5.23	84.69	503.16	1,560.00	2,158.30
MAR C			0.27		3.76	2.94		125.79	386.75	519.25
Pickup Use 50 Mi/Ac					11.55					11.55
Operating Interest at 9.0%									21.74	21.74
Water Assessment				**						
<b>Total</b>	<b>17.0</b>	<b>50.0</b>	<b>11.10</b>		<b>191.54</b>	<b>97.53</b>	<b>485.42</b>	<b>715.05</b>	<b>2,180.49</b>	<b>3,670.03</b>
<b>%</b>					<b>5.21</b>	<b>2.65</b>	<b>13.23</b>	<b>19.48</b>	<b>59.41</b>	<b>100.00</b>
<b>TOTAL RESOURCES REQUIREMENTS(/Acre)</b>				<b>TOTAL ENERGY REQUIREMENTS(/Acre)</b>						
Total N	251.7 lbs			Diesel Fuel	39.7 Gal					
Total P	221.0 lbs			Regular Gas	0.3 Gal					
Total K	0.0 lbs			NonLead Gas	17.6 Gal					
Total Labor	11.1 Hrs									
Total Water	50.0 AI			All Direct Energy	7.7 M BTU					
<b>EQUIPMENT REQUIREMENTS(/Acre)</b>										
Tractor, 150 PTO HP, MFWD	1.49 Hrs		V-Ripper, 7 Shnk with Wings	0.59 Hrs		Offset Disk, 18'	0.90 Hrs			
Tractor, 175 PTO HP	0.90 Hrs		Drag Scraper, 14'	0.90 Hrs		Laser Receiver, Mast System	0.90 Hrs			
Laser Trailer	0.90 Hrs		Tractor, 70 PTO HP, MFWD	0.12 Hrs		Border Disk, 6' Disk	0.04 Hrs			
Truck, 5 Ton w/1000 Gal Tank	1.80 Hrs		Fertilizer Broadcaster, Towed	0.08 Hrs		Saddle Tk Sprayer, 2 Tk 8 Row	0.15 Hrs			
Section Harrow, 3 Section	0.15 Hrs		Tractor, 80 PTO HP, MFWD	0.41 Hrs		Lister, 5 Bottom	0.18 Hrs			
Tractor, 100 PTO HP, MFWD	0.45 Hrs		Planter, Stanhay, 4 Row	0.45 Hrs		Tractor, 40 PTO HP, MFWD	0.32 Hrs			
Sprinkler Trailer	0.32 Hrs		Motor Grader, 12'	0.07 Hrs		Sled Cultivator, 4Rw	0.23 Hrs			
Fertilizer Injector, 4 Row	0.23 Hrs		High Clearance Sprayer, 18 Rw	0.09 Hrs		Pickup Truck, 1/2 Ton	1.67 Hrs			
<b>MATERIALS REQUIREMENTS(/Acre)</b>										
Water, District	50.00 AI		11-52-00, Dry	425.00 Lb		Benefin	2.00 Pt			
Pronamide	2.00 Lb		Head Lettuce Sd	200.00 Th		Methomyl	12.00 Pt			
Spreader-activator	16.00 Oz		20-00-00, Amm. Nitrate, Lqd	105.00 Ga		Vinclozolin	2.00 Lb			
BT	10.00 Lb		Imidacloprid	32.00 Oz		Lettuce Cartons	599.00 Ct			
<b>LABOR REQUIREMENTS(/Acre)</b>										
Tractor	4.26 Hrs		Irrigators	4.84 Hrs		Truck Driver	2.00 Hrs			

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

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COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop  
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam  
 AREA: Yuma Valley North YIELD: 599.0 Ct/Acre PREVIOUS CROP: Wheat, Winter DATE: 08/20/95

No.	Month	First Times	Operation	Equipment/Custom Oper.		Job Rate Acres/Hr	Name	Material Use & Cost			Service Cost \$/Unit	Labor Type	
				HP	Self-Prop./Implem.			Appl. Rate	\$/Unit	\$/Unit			
1	Aug	1.3	Rip	150	V-Ripper, 7 Shnk with W	2.00						Tractor	
2	Aug	4.0	Disk	150	Offset Disk, 18'	6.00						Tractor	
3	Aug	2.0	Laser Level	175	Drag Scraper, 14' Laser Receiver, Mast Sy Laser Trailer	2.00						Tractor	
4	Aug	1.0	Make Borders	70	Border Disk, 6' Disk	40.00						Tractor	
5	Aug	2.0	Preirrigate			1.50	Water, District	10.00	AI	0.00	AF	Irrigator	
6	Aug	1.0	Soil Fertility		CST Soil Analysis (Surf						12.00	Ac	
7	Aug	200.0	Dust Control		Truck, 5 Ton w/1000 Gal	100.00						Truck Dri	
8	Oct	1.0	Apply Fert/Ground	70	Fertilizer Broadcaster,	12.00	11-52-00, Dry	425.00	Lb	277.00	Tn	Tractor	
9	Oct	1.0	Apply Herbicide/Groun	150	Saddle Tk Sprayer, 2 Tk Offset Disk, 18' Section Harrow, 3 Secti	6.00	Benefin Pronamide	2.00	Pt Lb	14.95	Ga Lb	Tractor	
10	Oct	1.0	List	80	Lister, 5 Bottom	5.00						Tractor	
11	Oct	1.0	Plant	100	Planter, Stanhay, 4 Row	2.00	Head Lettuce Sd	200.00	Th	0.41	Th	Tractor	
12	Oct	1.0	Set Sprinklers	40	Sprinkler Trailer	5.70						Tractor	
13	Oct	10.0	Irrigate/Sec Sys			11.00	Water, District	1.10	AI	0.00	AF	Irrigator	
14	Oct	1.0	Remove Sprinklers	40	Sprinkler Trailer	5.70						Tractor	
15	Oct	1.0	Make Ditches		Motor Grader, 12'	40.00						Irrigator	
16	Nov	2.0	Field Scouting		CST Scout For Insects						15.00	Ac	
17	Nov	3.0	Apply Insecticide/Air		CST Air Spray, 5 Gal Mi		Methomyl Spreader-activator	2.00	Pt Oz	42.68	Ga Ga	5.50	Ac
18	Nov	4.0	Irrigate/Run Fertiliz			4.00	Water, District 20-00-00, Amm. Nit	4.00	AI Ga	0.00	AF 162.75	Tn	Irrigator
19	Nov	1.0	Thinning		CST Thinning						75.00	Ac	
20	Nov	1.0	Cultivate	80	Sled Cultivator, 4Rw Fertilizer Injector, 4	4.00	20-00-00, Amm. Nit	25.00	Ga	162.75	Tn	Tractor	
21	Nov	1.0	Apply Fungicide/Groun		High Clearance Sprayer,	60.00	Vinclozolin	2.00	Lb	19.03	Lb	Tractor	
22	Dec	3.0	Apply Insect./Ground		High Clearance Sprayer,	60.00	Methomyl BT Spreader-activator	2.00	Pt Lb Oz	42.68	Ga 0.96 13.67	Ga Lb Oz	Tractor
23	Dec	1.0	Bird Control		CST Bird Control						3.50	Ac	
24	Dec	2.0	Make Ditches		Motor Grader, 12'	80.00						Tractor	
25	Dec	1.0	Irrigate/Run Fertiliz			5.00	Water, District 20-00-00, Amm. Nit	3.00	AI Ga	0.00	AF 162.75	Tn	Irrigator
26	Dec	1.0	Hand Weeding		CST Hand Weeding						75.00	Ac	
27	Jan	2.0	Apply Insect./Ground		High Clearance Sprayer,	60.00	Imidacloprid BT Spreader-activator	16.00	Oz Lb Oz	525.00	Ga 0.96 13.67	Ga Lb Oz	Tractor
28	Feb	1.0	Knock Borders	70	Border Disk, 6' Disk	40.00						Tractor	
29	Feb	1.0	Knock Ditches		Motor Grader, 12'	40.00						Tractor	
30	Feb	1.0	Harvest, Load & Haul		CST Harvest-Load-Haul L		Lettuce Cartons	599.00	Ct	1.00	Ct	3.25	Ct

NOTES at the bottom of the next page.

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop  
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 AREA: Yuma Valley North YIELD: 599.0 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			Service Cost \$/Unit	Labor Type
				HP	Self-Prop./Implem.		Name	Appl. Rate	\$/Unit		
31	Mar	1.0	Disk Residue	150	Offset Disk, 18'	6.00					Tractor
			Pickup Use 50 Mi/Ac		Pickup Truck, 1/2 Ton	0.60					

\* 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 4B.