

COUNTY: Maricopa FARM: Maricopa Vegetables WATER SOURCE: SRP TILLAGE: Double Crop  
 CROP: Carrots ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam  
 AREA: Salt River Project YIELD: 639.0 Ct/Acre PREVIOUS CROP: Wheat, Winter DATE: 08/20/95

Item	Unit	Quantity	Price /Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Carrots	Crtn	639.00	\$3.1600	\$2,019.24	\$2,019.24	
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					148.34	
Tractor/Self Propelled				47.17		
Irrigation				68.82		
Other/Contract				32.34		
Chemicals & Custom Applications					227.90	
Fertilizers				70.11		
Herbicides				65.85		
Other Chemicals				91.95		
Farm Machinery and Vehicles					41.23	
Diesel Fuel				15.37		
Repairs & Maint.				25.87		
Irrigation Water (excluding labor)					45.76	
Water Assessment (See Note Below) **					**	
Other Purchased Inputs & Services					47.10	
Seed/Transplants				44.10		
Other Services & Rentals				3.00		
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					510.33	
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					0.24	
Tractor/Self Propelled				0.24		
Farm Machinery and Vehicles					0.22	
Diesel Fuel				0.07		
Repairs & Maint.				0.14		
Custom Harvest/Post Harvest					754.02	
Other Materials					637.40	
TOTAL HARVEST AND POST HARVEST EXPENSE					1,391.89	
OPERATING OVERHEAD->PICKUP USE					11.51	
OPERATING INTEREST AT 9.0%					13.90	
TOTAL CASH OPERATING EXPENSES					\$1,927.63	
RETURNS OVER CASH OPERATING EXPENSES					\$91.61	

Notes: The above figures do not include ownership costs, see Table 17B on Next Page for detailed cost allocation.

\*\* A water assessment charge of \$10.18/Acre is included in the ownership costs of Table 17B.

Table 17B. Allocation of Ownership Costs; Carrots, 1995

COUNTY: Maricopa FARM: Maricopa Vegetables WATER SOURCE: SRP TILLAGE: Double Crop  
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Item	- CASH COST BASIS (\$/ACRE) -		- TOTAL COST BASIS (\$/ACRE) -	
	Income & Costs	Net Returns	Income & Costs	Net Returns
TOTAL INCOME at \$ 3.1600/Ct	\$2,019.24		\$2,019.24	
TOTAL OPERATING EXPENSES	1,927.62		1,927.62	
RETURN OVER CASH OPERATING EXPENSES		\$91.61		\$91.61
CASH OVERHEAD EXPENSES				
Taxes, Housing & Insur., Farm Machinery	5.09		5.09	
Gen. & Off. Overhead ( 5% of Tot. Oper. Exp.)	96.38		96.38	
General Farm Maint. ( 3% of Tot. Oper. Exp.)	57.83		57.83	
Total Cash Overhead Expenses	159.30		159.30	
Total Cash Oper. & Over. Cost	2,086.93		2,086.93	
RETURNS OVER CASH OPER. & OVER. EXPENSES.		( 67.69)		( 67.69)
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery & Vehicles			27.81	
Interest on Equity, Machinery & Vehicles			12.47	
Total Capital Allocations			40.27	
RETURNS TO LAND, CAPITAL, MANAGEMENT & RISK		( 67.69)		
RETURNS TO LAND, MANAGEMENT & RISK				( 107.96)
Land Cost / Rent or Lease	200.00		200.00	
Water Assessment **	10.18		10.18	
Total Land Costs	210.18		210.18	
RETURNS TO MANAGEMENT, CAPITAL & RISK		( 277.87)		
RETURNS TO MANAGEMENT & RISK				( 318.14)
Management Services ( 8% of Tot. Oper. Exp.)			154.21	
TOTAL OWNERSHIP COST	369.48		563.97	
TOTAL COST	\$2,297.11		\$2,491.59	
RETURN TO MANAGEMENT, CAPITAL & RISK		( \$277.87)		
RETURN TO RISK (PROFITS)				( \$472.35)
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Ct)		\$3.01		\$3.01
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$0.57		\$0.88
BREAK-EVEN PRICE TO COVER TOTAL COST		\$3.59		\$3.89

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No.	Month	First Operation	Hours * ---		Operating Costs (\$/Acre*) -----				Times	Tot. Cash Expense	Class	
			Machine	Labor	Fuel/Rps.	Labor	Cust/Ser.	Materials				Total
1	Jul	Rip	0.450	0.500	5.10	4.90			10.00	0.5	5.00	L
2	Jul	Plow	0.450	0.500	6.68	4.90			11.58	1.0	11.58	L
3	Jul	Disk	0.225	0.250	2.92	2.45			5.37	3.0	16.10	L
4	Jul	Laser Level	0.450	0.500	4.96	4.90			9.86	0.5	4.93	L
5	Aug	Soil Fertility					3.00		3.00	1.0	3.00	G
6	Aug	Apply Fert/Ground	0.113	0.125	0.53	1.22		37.45	39.20	1.0	39.20	G
7	Aug	List/Inject	0.225	0.250	2.87	2.45		91.95	97.27	1.0	97.27	L
8	Aug	Plant	0.450	1.000	2.03	9.80		44.10	55.93	1.0	55.93	L
9	Aug	Set Sprinklers	0.158	1.575	0.66	15.43			16.09	1.0	16.09	G
10	Aug	Irrigate/Sprinkler		0.091		0.89			0.89	3.0	2.67	G
11	Aug	Remove Sprinklers	0.158	1.575	0.66	15.43			16.09	1.0	16.09	G
12	Aug	Apply Herbicide/Ground	0.090	0.100	0.51	0.98		65.85	67.34	1.0	67.34	G
13	Aug	Buck Rows	0.045	0.050	0.20	0.49			0.69	4.0	2.74	G
14	Aug	Irrigate		0.800		7.84		5.72	13.56	8.0	108.48	G
15	Aug	Disk Ends	0.045	0.050	0.27	0.49			0.76	3.0	2.29	G
16	Aug	Cultivate	0.225	0.250	1.28	2.45			3.73	4.0	14.90	G
17	Aug	Apply Fert/Ground	0.257	0.286	2.65	2.80		16.33	21.78	2.0	43.56	G
18	Dec	Prepare Ends	0.022	0.025	0.22	0.24			0.46	1.0	0.46	H
19	Dec	Harvest	639.0 Ct				639.00	637.40	1,276.40	1.0	1,276.40	H
20	Dec	Haul, Custom	639.0 Ct				115.02		115.02	1.0	115.02	H
21	Jan	Disk Residue	0.150	0.167	1.49	1.64			3.13	1.0	3.13	L
		Pickup Use 50 Mi/Ac	1.670		11.50						11.50	O
		Operating Interest at 9.00%					13.89				13.89	O
TOTAL CASH OPERATING EXPENSES:					\$52.96	\$148.56	\$770.91	\$955.17			\$1,927.60	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 \$10.18/Acre included as ownership cost in Table 17B.

OPERATING COST SUMMARY BY CLASS		SENSITIVITY OF NET REVENUES OVER TOTAL CASH EXPENSES (\$/Acre)							
		Prices ->	-25%	-10%	Budgeted	+10%	+25%		
Land Preparation (L)	\$193.94								
Growing (G)	316.38								
Harvest (H)	1,391.87	Yields	\$2.37	\$2.84	\$3.16	\$3.47	\$3.95 Break-even		
Post Harvest (P)	0.00								
Marketing (M)	0.00	-25%	479.2	-443.81	-216.64	-65.20	86.24	313.40	3.29
Operating Overhead (O)	25.39	-10%	575.1	-425.42	-152.83	28.90	210.63	483.23	3.10
		Budgeted	639.0	-413.17	-110.28	91.63	293.56	596.44	3.01
Total (T)	\$1,927.60	+10%	702.9	-400.91	-67.74	154.37	376.48	709.66	2.94
		+25%	798.7	-382.53	-3.92	248.47	500.88	879.49	2.84
		Break-even Yield		2,793.34	804.64	545.66	412.79	302.36	

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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			1.50		17.54	14.70				32.24
AUG C	5.0	27.0	7.38	2.50	14.58	72.36	211.58	44.10	3.00	348.12
SEP C	2.0	12.0	2.33	10.00	4.87	22.89	16.33			54.09
OCT C	2.0	12.0	2.15	10.00	2.75	21.07				33.82
NOV C	2.0	12.0	1.60	15.74		15.68				31.42
DEC C			0.02		0.22	0.24		637.40	754.02	1,391.89
JAN N			0.16		1.49	1.64				3.13
Pickup Use 50 Mi/Ac					11.50					11.50
Operating Interest at 9.0%									13.61	13.61
Water Assessment				**						
<b>Total</b>	<b>11.0</b>	<b>63.0</b>	<b>15.16</b>	<b>38.24</b>	<b>52.96</b>	<b>148.58</b>	<b>227.91</b>	<b>681.50</b>	<b>770.63</b>	<b>1,919.83</b>
<b>%</b>				<b>1.99</b>	<b>2.75</b>	<b>7.73</b>	<b>11.87</b>	<b>35.49</b>	<b>40.14</b>	<b>100.00</b>
<b>TOTAL RESOURCES REQUIREMENTS(/Acre)</b>			<b>TOTAL ENERGY REQUIREMENTS(/Acre)</b>							
Total N	154.2 lbs		Diesel Fuel			22.6	Gal			
Total P	60.0 lbs		Regular Gas			0.0	Gal			
Total K	0.0 lbs		NonLead Gas			5.0	Gal			
Total Labor	15.1 Hrs		All Direct Energy			3.7	M BTU			
Total Water	63.0 AI									
<b>EQUIPMENT REQUIREMENTS(/Acre)</b>										
Tractor, 150 PTO HP, MFWD	1.58 Hrs		Subsoiler, Heavy Duty, 7 Shnk			0.23 Hrs	Moldboard Plow, 4-16 2 Way		0.45 Hrs	
Offset Disk, 13.5'	0.85 Hrs		Drag Scraper, 14'			0.23 Hrs	Laser Receiver, Mast System		0.23 Hrs	
Laser Trailer	0.23 Hrs		Tractor, 60 PTO HP, MFWD			2.18 Hrs	Fertilizer Broadcaster, Towed		0.11 Hrs	
Tractor, 100 PTO HP, MFWD	0.91 Hrs		Lister, 5 Bottom			0.23 Hrs	Fertilizer Injector, 4 Row		0.74 Hrs	
Bed Shaper, 4 Rw	0.45 Hrs		Sprinkler Trailer			0.32 Hrs	Saddle Tk Sprayer, 2 Tk 8 Row		0.09 Hrs	
Rowbuck, 10'	0.18 Hrs		Offset Disk, 10.5'			0.14 Hrs	Cultivator, Sweep, 4 Rw		0.90 Hrs	
Pickup Truck, 1/2 Ton	1.67 Hrs									
<b>MATERIALS REQUIREMENTS(/Acre)</b>										
16-20-00, Dry	300.00 Lb		Dichloropropene			9.00 Ga	Carrot Seed (Raw/Hybrid)		200.00 Th	
Water, District	63.00 AI		Linuron			1.00 Ga	32-00-00, URAN 32, Lqd		30.00 Ga	
Boxes & Supplies	639.00 Ct									
<b>LABOR REQUIREMENTS(/Acre)</b>										
Tractor	4.84 Hrs		Other			3.30 Hrs	Irrigators		7.02 Hrs	

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

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Table 17E Schedule of Operations; Carrots, 1995

COUNTY: Maricopa FARM: Maricopa Vegetables WATER SOURCE: SRP TILLAGE: Double Crop  
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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		
1	Jul	0.5	Rip	150	Subsoiler, Heavy Duty,	2.00					Tractor
2	Jul	1.0	Plow	150	Moldboard Plow, 4-16 2	2.00					Tractor
3	Jul	3.0	Disk	150	Offset Disk, 13.5'	4.00					Tractor
4	Jul	0.5	Laser Level	150	Drag Scraper, 14' Laser Receiver, Mast Sy Laser Trailer	2.00					Tractor
5	Aug	1.0	Soil Fertility		CST Soil Analysis (Surf)					3.00 Ac	
6	Aug	1.0	Apply Fert/Ground	60	Fertilizer Broadcaster,	8.00	16-20-00, Dry	300.00 Lb	237.75 Tn		Tractor
7	Aug	1.0	List/Inject	100	Lister, 5 Bottom Fertilizer Injector, 4	4.00	Dichloropropene	9.00 Ga	9.73 Ga		Tractor
8	Aug	1.0	Plant	60	Bed Shaper, 4 Rw	2.00	Carrot Seed (Raw/H	200.00 Th	0.21 Th		Tractor Other
9	Aug	1.0	Set Sprinklers	60	Sprinkler Trailer	5.70					Irrigator Other
10	Aug	3.0	Irrigate/Sprinkler			11.00	Water, District	5.00 AI	0.00 AF		Other Irrigator
11	Aug	1.0	Remove Sprinklers	60	Sprinkler Trailer	5.70					Other Irrigator Other
12	Aug	1.0	Apply Herbicide/Groun	60	Saddle Tk Sprayer, 2 Tk	10.00	Linuron	1.00 Ga	62.71 Ga		Tractor
13	Aug	4.0	Buck Rows	60	Rowbuck, 10'	20.00					Tractor
14	Aug	8.0	Irrigate			1.25	Water, District	6.00 AI	0.00 AF		Irrigator
15	Aug	3.0	Disk Ends	60	Offset Disk, 10.5'	20.00					Tractor
16	Aug	4.0	Cultivate	60	Cultivator, Sweep, 4 Rw	4.00					Tractor
17	Aug	2.0	Apply Fert/Ground	100	Fertilizer Injector, 4	3.50	32-00-00, URAN 32,	15.00 Ga	187.50 Tn		Tractor
18	Dec	1.0	Prepare Ends	100	Offset Disk, 13.5'	40.00					Tractor
19	Dec	1.0	Harvest		CST Harvest Carrots		Boxes & Supplies	639.00 Ct	0.95 Ct	1.00 Ct	
20	Dec	1.0	Haul, Custom		CST Haul Carrots					0.18 Ct	
21	Jan	1.0	Disk Residue	100	Offset Disk, 13.5'	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.

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