

COUNTY: Maricopa FARM: Maricopa Vegetables WATER SOURCE: RID TILLAGE: Conventional
 CROP: Potatoes, Early ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Roosevelt ID YIELD: 260.0 CW/Acre PREVIOUS CROP: Wheat, Winter DATE: 08/20/95

Item	Unit	Quantity	Price /Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Potatoes	Hundred Lbs	260.00	\$8.3400	\$2,168.40	\$2,168.40	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					186.10	_____
Tractor/Self Propelled				67.13		_____
Irrigation				55.28		_____
Other/Contract				63.70		_____
Chemicals & Custom Applications					141.92	_____
Fertilizers				110.30		_____
Insecticides				9.90		_____
Herbicides				6.01		_____
Other Chemicals				15.71		_____
Farm Machinery and Vehicles					63.29	_____
Diesel Fuel				19.39		_____
Gasoline				3.32		_____
Repairs & Maint.				40.59		_____
Irrigation Water (excluding labor)					150.00	_____
Water Assessment (See Note Below) **					**	_____
Other Purchased Inputs & Services					693.00	_____
Seed/Transplants				693.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					1,234.32	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					167.57	_____
Tractor/Self Propelled				30.38		_____
Other/Contract				137.19		_____
Farm Machinery and Vehicles					41.73	_____
Diesel Fuel				8.41		_____
Repairs & Maint.				33.32		_____
TOTAL HARVEST AND POST HARVEST EXPENSE					209.31	_____
OPERATING OVERHEAD->PICKUP USE					13.81	_____
OPERATING INTEREST AT 9.0%					30.98	_____
TOTAL CASH OPERATING EXPENSES					\$1,488.41	_____
RETURNS OVER CASH OPERATING EXPENSES					\$679.99	_____

Notes: The above figures do not include ownership costs, see Table 4B on Next Page for detailed cost allocation.
 ** A water assessment charge of \$15.00/Acre is included in the ownership costs of Table 4B.

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Item	- CASH COST BASIS (\$/ACRE) -		- TOTAL COST BASIS (\$/ACRE) -	
	Income & Costs	Net Returns	Income & Costs	Net Returns
TOTAL INCOME at \$ 8.3400/CW	\$2,168.40		\$2,168.40	
TOTAL OPERATING EXPENSES	1,488.41		1,488.41	
RETURN OVER CASH OPERATING EXPENSES		\$679.98		\$679.98
CASH OVERHEAD EXPENSES				
Taxes, Housing & Insur., Farm Machinery	12.50		12.50	
Gen. & Off. Overhead (5% of Tot. Oper. Exp.)	74.42		74.42	
General Farm Maint. (3% of Tot. Oper. Exp.)	44.65		44.65	
Total Cash Overhead Expenses	131.57		131.57	
Total Cash Oper. & Over. Cost	1,619.98		1,619.98	
RETURNS OVER CASH OPER. & OVER. EXPENSES.		548.41		548.41
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery & Vehicles			76.31	
Interest on Equity, Machinery & Vehicles			31.73	
Total Capital Allocations			108.04	
RETURNS TO LAND, CAPITAL, MANAGEMENT & RISK		548.41		
RETURNS TO LAND, MANAGEMENT & RISK				440.37
Land Cost / Rent or Lease	200.00		200.00	
Water Assessment **	15.00		15.00	
Total Land Costs	215.00		215.00	
RETURNS TO MANAGEMENT, CAPITAL & RISK		333.41		
RETURNS TO MANAGEMENT & RISK				225.37
Management Services (8% of Tot. Oper. Exp.)			119.07	
TOTAL OWNERSHIP COST	346.57		573.68	
TOTAL COST	\$1,834.98		\$2,062.10	
RETURN TO MANAGEMENT, CAPITAL & RISK		\$333.41		
RETURN TO RISK (PROFITS)				\$106.29
BREAK-EVEN PRICE TO COVER OPERATING COST (PER CW)		\$5.72		\$5.72
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$1.33		\$2.20
BREAK-EVEN PRICE TO COVER TOTAL COST		\$7.05		\$7.93

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No.	Month	First Operation	Hours		Operating Costs (\$/Acre*)					Tot. Cash Expense	Class	
			Machine	Labor	Fuel/Rps.	Labor	Cust/Ser.	Materials	Total			
1	Nov	Rip	0.225	0.250	2.39	2.45			4.84	0.5	2.42	L
2	Nov	Plow	0.450	0.500	6.68	4.90			11.58	1.0	11.58	L
3	Nov	Disk	0.225	0.250	2.92	2.45			5.37	3.0	16.10	L
4	Nov	List	0.225	0.250	1.89	2.45			4.34	1.0	4.34	L
5	Nov	Buck Rows	0.045	0.050	0.20	0.49			0.69	3.0	2.06	G
6	Nov	Preirrigate		0.377		3.69		10.00	13.69	1.0	13.69	G
7	Dec	Mulch	0.300	0.333	2.21	3.26			5.47	1.0	5.47	L
8	Dec	Prep/Haul Seed Potato	0.900	5.000	6.50	49.00			55.50	1.0	55.50	L
9	Dec	Plant	0.750	3.333	12.74	32.66		750.07	795.47	1.0	795.47	L
10	Jan	Apply Herbicide/Ground	0.300	0.333	2.88	3.26		6.01	12.15	1.0	12.15	G
11	Jan	Hilling	0.360	0.400	3.13	3.92			7.05	3.0	21.16	L
12	Jan	Disk Ends	0.045	0.050	0.45	0.49			0.94	2.0	1.88	G
13	Jan	Irrigate/Run Fertilizer		0.658		6.45		44.12	50.57	2.0	101.14	G
14	Feb	Irrigate		0.658		6.45		17.50	23.95	6.0	143.70	G
15	Apr	Apply Insecticide/Air						4.05	21.56	1.0	25.61	G
16	Apr	Prepare Ends	0.045	0.050	0.45	0.49			0.94	1.0	0.94	H
17	Apr	Cut Vines	0.750	0.833	5.88	8.16			14.04	1.0	14.04	G
18	Apr	Prepare Ends	0.045	0.050	0.22	0.49			0.71	1.0	0.71	H
19	Apr	Knock Ditches	0.045	0.050	0.21	0.49			0.70	1.0	0.70	G
20	Apr	Roll Beds	0.129	0.143	0.55	1.40			1.95	1.0	1.95	L
21	Apr	Dig	0.900	3.000	28.05	29.40			57.45	1.0	57.45	H
22	Apr	Haul 10 MI	1.800	4.000	13.02	39.20			52.22	1.0	52.22	H
23	Apr	Pk Shed Process/Cooling		10.000		98.00			98.00	1.0	98.00	P
24	May	Disk Residue	0.225	0.250	2.92	2.45			5.37	1.0	5.37	L
		Pickup Use 60 Mi/Ac	2.000		13.81						13.81	O
		Operating Interest at 9.00%						30.95			30.95	O
TOTAL CASH OPERATING EXPENSES:					\$118.84	\$353.69	\$35.00	\$980.88			\$1,488.40	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 \$15.00/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)	\$919.36								
Growing (G)	314.96								
Harvest (H)	111.31								
Post Harvest (P)	98.00								
Marketing (M)	0.00								
Operating Overhead (O)	44.76								
Total (T)	\$1,488.40								
			Yields	\$6.25	\$7.50	\$8.34	\$9.17	\$10.42 Break-even	
		-25%	195.0	-216.34	27.59	190.22	352.85	596.80	7.36
		-10%	234.0	-3.80	288.93	484.08	679.24	971.97	6.27
		Budgeted	260.0	137.89	463.15	679.99	896.83	1,222.09	5.72
		+10%	286.0	279.59	637.38	875.90	1,114.42	1,472.21	5.27
		+25%	325.0	492.14	898.71	1,169.76	1,440.81	1,847.39	4.74
		Break-even Yield		234.69	190.88	169.75	152.83	132.96	

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Month *	Number Irrig.	Water Applied (Inches)	Total Labor (Hrs)	Operating Cost (\$/Acre)						Total
				Purchased Water	Fuel, Oil & Repairs	Labor	Chemicals	Other Purchases	Services	
NOV P	1.0	4.0	1.80	10.00	15.80	17.66				43.46
DEC P			8.91		24.36	87.37	57.07	693.00		861.80
JAN C	1.0	7.0	1.49	17.50	6.66	14.61	32.63			71.40
FEB C	3.0	21.0	1.97	52.50		19.34	26.62			98.46
MAR C	2.0	14.0	1.71	35.00	3.13	16.82				54.95
APR C	2.0	14.0	19.94	35.00	52.16	195.42	21.56		4.05	308.19
MAY C			0.25		2.92	2.45				5.37
Pickup Use 60 Mi/Ac					13.81					13.81
Operating Interest at 9.0% Water Assessment					**				30.98	30.98
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Total	9.0	60.0	36.09	150.00	118.84	353.67	137.88	693.00	35.03	1,488.42
%				10.07	7.98	23.76	9.26	46.55	2.35	100.00
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TOTAL RESOURCES REQUIREMENTS(/Acre)				TOTAL ENERGY REQUIREMENTS(/Acre)						
Total N	150.0 lbs			Diesel Fuel		40.7	Gal			
Total P	184.0 lbs			Regular Gas		0.0	Gal			
Total K	0.0 lbs			NonLead Gas		8.7	Gal			
Total Labor	36.0 Hrs			All Direct Energy		6.7	M BTU			
Total Water	60.0 AI									
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EQUIPMENT REQUIREMENTS(/Acre)										
Tractor, 150 PTO HP, MFWD	2.36 Hrs		V-Ripper, 5 Shnk		0.11 Hrs	Moldboard Plow, 4-16 2 Way			0.45 Hrs	
Offset Disk, 13.5'	1.04 Hrs		Tractor, 100 PTO HP, MFWD		3.24 Hrs	Lister, 5 Bottom			0.23 Hrs	
Tractor, 60 PTO HP, MFWD	2.41 Hrs		Rowbuck, 10'		0.14 Hrs	Power Mulcher, 4 Rw			0.30 Hrs	
Pickup Truck, 1/2 Ton	2.90 Hrs		Flat Trailer		0.90 Hrs	Planter, Potato 3 Comp. 4 Row			0.75 Hrs	
Saddle Tk Sprayer, 2 Tk 8 Row	0.30 Hrs		Rolling Cultivator, 4 Rw		0.30 Hrs	Hiller, 4 Row			1.08 Hrs	
Root Cutter-Puller, 4 Row	0.75 Hrs		Tractor, 50 PTO HP, MFWD		0.05 Hrs	Offset Disk, 8'			0.05 Hrs	
Blade Scraper, 10'	0.05 Hrs		Bed Roller, 4 Rw		0.13 Hrs	Potato Harvester, 4 Row			0.90 Hrs	
Vegetable Trailer Flat Bed	1.80 Hrs									
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MATERIALS REQUIREMENTS(/Acre)										
Water, District	60.00 AI		Potato Seed		30.00 CW	18-46-00, Dry		400.00 Lb		
Trifluralin	1.50 Pt		20-0-0-45, Nitro-Sul		40.00 Ga	Carbaryl		2.00 Pt		
Paraquat	0.50 Ga									
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LABOR REQUIREMENTS(/Acre)										
Tractor	9.95 Hrs		Irrigators		5.64 Hrs	Cutter		4.00 Hrs		
Other	6.50 Hrs		Packer-Loader		10.00 Hrs					

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

** A water assessment charge of \$15.00/Acre included as ownership cost in Table 4B.

Table 4E Schedule of Operations; Early Potatoes, 1995

COUNTY: Maricopa FARM: Maricopa Vegetables WATER SOURCE: RID TILLAGE: Conventional
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No.	First Month	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	Nov	0.5	Rip	150	V-Ripper, 5 Shnk	4.00					Tractor
2	Nov	1.0	Plow	150	Moldboard Plow, 4-16 2	2.00					Tractor
3	Nov	3.0	Disk	150	Offset Disk, 13.5'	4.00					Tractor
4	Nov	1.0	List	100	Lister, 5 Bottom	4.00					Tractor
5	Nov	3.0	Buck Rows	60	Rowbuck, 10'	20.00					Tractor
6	Nov	1.0	Preirrigate			2.65	Water, District	4.00 AI	30.00 AF		Irrigator
7	Dec	1.0	Mulch	60	Power Mulcher, 4 Rw	3.00					Tractor
8	Dec	1.0	Prep/Haul Seed Potato		Pickup Truck, 1/2 Ton	1.00					Tractor Cutter
9	Dec	1.0	Plant	100	Planter, Potato 3 Comp.	1.20	Potato Seed	30.00 CW	22.00 CW		Tractor
10	Jan	1.0	Apply Herbicide/Groun	100	Saddle Tk Sprayer, 2 Tk Rolling Cultivator, 4 R	3.00	18-46-00, Dry Trifluralin	400.00 Lb 1.50 Pt	271.75 Tn 30.53 Ga		Other Tractor
11	Jan	3.0	Hilling	100	Hiller, 4 Row	2.50					Tractor
12	Jan	2.0	Disk Ends	100	Offset Disk, 13.5'	20.00					Tractor
13	Jan	2.0	Irrigate/Run Fertiliz			1.52	Water, District 20-0-0-45, Nitro-S	7.00 AI 20.00 Ga	30.00 AF 260.00 Tn		Irrigator
14	Feb	6.0	Irrigate			1.52	Water, District	7.00 AI	30.00 AF		Irrigator
15	Apr	1.0	Apply Insecticide/Air		CST Air Spray, 5 Gal Mi		Carbaryl Paraquat	2.00 Pt 0.50 Ga	22.29 Ga 29.92 Ga	4.05 Ac	
16	Apr	1.0	Prepare Ends	100	Offset Disk, 13.5'	20.00					Tractor
17	Apr	1.0	Cut Vines	100	Root Cutter-Puller, 4 R	1.20					Tractor
18	Apr	1.0	Prepare Ends	50	Offset Disk, 8'	20.00					Tractor
19	Apr	1.0	Knock Ditches	60	Blade Scraper, 10'	20.00					Tractor
20	Apr	1.0	Roll Beds	60	Bed Roller, 4 Rw	7.00					Tractor
21	Apr	1.0	Dig	150	Potato Harvester, 4 Row	1.00					Tractor Other Other
22	Apr	1.0	Haul	60	Vegetable Trailer Flat	0.50					Tractor Other
23	Apr	1.0	Pk Shed Process/Cooli			0.10					Packer-Lo
24	May	1.0	Disk Residue	150	Offset Disk, 13.5'	4.00					Tractor
			Pickup Use	60 Mi/Ac	Pickup Truck, 1/2 Ton	0.50					

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

** A water assessment charge of \$15.00/Acre included as ownership cost in Table 4B.

ARIZONA COOPERATIVE EXTENSION
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