COUNTY: Maricopa FARM: Maricopa Veg 98 WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: ACRES: Broccoli 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 448.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 7/16/99

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME Broccoli	Crtn	448.00	\$6.67	\$2,988.16	\$2,988.16	
CASH LAND PREPARATION AND Paid Labor (including benefits) Tractor/Self Propelled Irrigation Other/ Contract	GROWING EXPENSES (inc	cluding sales tax)		93.43 68.24 6.50	168.17	
Chemicals and Custom Applicati Fertilizer Insecticide Herbicide	ions			128.54 111.45 3.30	243.29	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				35.03 50.66	85.69	
Irrigation Water (excluding labor) Water Assessment (See Note Be					15.00	
Other Purchased Inputs & Seed/Transplants Other Services and Rentals				256.97 228.00	484.97	
040111451/507 445 5007 1445	TOTAL CASH LAND PRE	PARATION AND GROW	ING EXPENSES		997.12	
CASH HARVEST AND POST HAR\ Paid Labor (including benefits) Tractor/Self Propelled	VEST EXPENSES			19.50	19.50	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				5.46 11.26	16.71	
Custom Harvest/Post Harvest Other Materials					1321.60 379.01	
	TOTAL HARVEST AND P	OST HARVEST EXPEN	SE		1736.82	
OPERATING OVERHEAD PICK OPERATING INTEREST AT 10.0%	UP USE				15.29 10.80	
	TOTAL CASH OPERATIN RETURNS OVER CASH		ES		\$2,760.02 \$228.14	

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

^{**} A water assessment charge of \$10.00 per Acre is included as an ownership cost in Table B.

COUNTY:Maricopa FARM: Maricopa Veg 98 WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Broccoli ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 448.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 7/16/99

	CASH COST BASI	S (\$/ACRE)	TOTAL COST BASIS (\$/ACRE)				
ltem	Income and Costs	Net Returns	Income and Costs Net Returns				
TOTAL INCOME at \$6.67 / Ct	\$2,988.16		\$2,988.16				
TOTAL OPERATING EXPENSES	\$2,760.02		\$2,760.02				
RETURN OVER CASH OPERATING EXPENSES		\$228.14	\$228.14				
CASH OVERHEAD EXPENSES							
Taxes, Housing and Insurance, Farm Machinery General and Office Overhead (5.0% of Total Operating Exp.)	9.38 138.00		9.38 138.00				
General Farm Maintenance (3.0% of Total Operating Exp.)	82.80		82.80				
Total Cash Overhead Expenses	230.18		 230.18				
Total Cash Operating and Overhead Cost	2,990.20		2,990.20				
RETURNS OVER CASH OPER. AND OVER. EXPENSES	_,	(\$2.04)	(\$2.04)				
CAPITAL ALLOCATIONS (100% Equity)							
Capital Replacement, Machinery and Vehicles			55.08 10.80				
Interest on Equity, Machinery and Vehicles			19.89 				
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK -	_	(\$2.04)	74.97				
RETURNS TO LAND, MANAGEMENT AND RISK		(φ2.04)	> (\$77.01)				
Land Cost / Ownership (100% Equity)							
Property Taxes (\$619.00 X 16.0% X 0.141)	6.99		6.99				
Opportunity Interest on Land (100% X 6.0 X \$619.00)			18.57				
Water Assessment	10.00		10.00				
Total Land Costs	16.99	(0.40.00)	35.56				
RETURNS TO CAPITAL, MANAGEMENT AND RISK	>	(\$19.03)	> (\$112.57)				
			,				
Management Services (8% of Total Operation Expenses)			220.80				
TOTAL OWNERSHIP COST	247.17 		561.51 				
TOTAL COST	\$3,007.19	(0.40, 0.0)	\$3,321.54				
RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO RISK (PROFITS)	>	(\$19.03)	> (\$333.38)				
			(+				
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		\$6.16	\$6.16				
BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$0.55 \$6.71	\$1.25 \$7.41				
DUTAN-FAIRE IO COAEK IOIME COST		φυ./ ι	Ψ1.41				

COUNTY: Maricopa FARM: Maricopa Veg 98 WATER SOURCE: Salt River Project TILLAGE: Double Crop Sandy-Loam CROP: Broccoli ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: AREA: Salt River Project YIELD: 448.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 7/16/99

	First		Hour	s *	Operati	ng Costs	(\$/ACRE *)	Per Oper	ation		Tot. Cash	
No.	Month	Operation	Machine	Labor	Fuel/Rps.		ust/Serv.		Total	Times	Expenses	Class
1	Jul	Rip	0.225	0.250	2.78	2.44			5.22	0.5	2.61	L
2	Jul	Plow	0.450	0.500	6.35	4.87			11.23	1.0	11.23	L
3	Jul	Disk	0.225	0.250	3.35	2.44			5.79	3.0	17.37	L
4	Jul	Laser Level	0.450	0.500	5.40	4.87			10.27	0.5	5.13	L
5	Aug	Apply Herbicide/Ground	0.225	0.250	2.20	2.44		3.30	7.94	1.0	7.94	G
6	Aug	List	0.225	0.250	2.44	2.44			4.87	1.0	4.87	L
7	Sep	Plant	0.600	1.334	8.15	13.00		256.97	278.13	1.0	278.13	L
8	Sep	Apply Insect./Ground	0.150	0.167	1.35	1.63		78.22	81.19	1.0	81.19	G
9	Sep	Buck Rows	0.045	0.050	0.33	0.49			0.82	5.0	4.08	G
10	Sep	Irrigate		1.000		9.75		2.14	11.89	7.0	83.24	G
11	Sep	Disk Ends	0.045	0.050	0.40	0.49			0.89	5.0	4.46	G
12	Sep	Thinning					75.00		75.00	1.0	75.00	G
13	Sep	Cultivate	0.563	0.625	4.33	6.09			10.42	5.0	52.11	G
14	Sep	Soil Fertility					3.00		3.00	1.0	3.00	G
15	Sep	Apply Fert/Ground	0.450	0.500	5.07	4.87		36.35	46.30	2.0	92.59	G
16	Sep	Apply Insect./Ground	0.225	0.250	1.82	2.44		9.73	13.98	2.0	27.97	G
17	Sep	Hand Weeding					75.00		75.00	2.0	150.00	G
18	Oct	Apply Fert/Ground	0.450	0.500	3.39	4.87		27.92	36.18	2.0	72.36	G
19	Nov	Apply Insect./Ground	0.225	0.250	1.82	2.44		13.79	18.05	1.0	18.05	G
20	Nov	Harvest 448 Ct					1232.00	379.01	1611.01	1.0	1611.01	Н
21	Nov	Field Transport 448 Ct	1.800	2.000	16.71	19.50			36.21	1.0	36.21	Н
22	Nov	Haul, Custom 448 Ct					89.60		89.60	1.0	89.60	Н
23	Nov	Disk Residue 448 Ct	0.225	0.250	3.35	2.44			5.79	1.0	5.79	L
		Pickup Use60 Mi/Acre	2.000		15.29						15.29	
		Operating Interest at 10.0					10.80				10.80	
				TOT	AL CASH OPE	RATING E	EXPENSES	(includes	all times ove	er):	2760.02	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 \$10.00 per Acre is included as an ownership cost in Table B.

OPERATING COST	SUMMARY BY	CLASS
Land Preparation	(L)	325.13

Growing (G) 671.99 Harvest (H) 1,736.82 Post Harvest (P) 0.00 0.00 Marketing (M) Operating Overhead (O) 26.09 Total (T) \$2,760.02

SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE)

Prices		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		\$5.00	\$6.00	\$6.67	\$7.34	\$8.34	Break-even Price
- 25%	336.0	-644.12	-307.96	-83.84	140.27	476.44	6.92
- 10%	403.2	-568.48	-165.08	103.86	372.79	776.19	6.41
Budgeted	448.0	-518.05	-69.82	228.99	527.81	976.03	6.16
+ 10%	492.8	-467.62	25.43	354.13	682.82	1,175.87	5.95
Break-even Yield		908.21	480.84	366.02	295.46	229.19	

ARIZONA COOPERATIVE EXTENSION Department of Ag and Resource Economics University of Arizona F 11 / 14

COUNTY:Maricopa CROP: Broccoli FARM: Maricopa Veg 98 WATER SOURCE: Salt River Project TILLAGE: Double Crop ACRES: Sandy-Loam IRRIGATION SYSTEM: Flood Furrow 1.0 SOIL: AREA: Salt River Project YIELD: 448.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 7/16/99

Water Operating Costs (\$/ACRE *)										
	Number	Applied	Total	Purchased			Other			
Month *	Irrigations	(inches)	Labor (Hrs)	Water	and Repairs	Labor	Chemicals	Purchases	Services	Total
JUL C			1.38		17.15	13.40				30.55
AUG C			0.75		7.99	7.31	3.30			18.60
SEP C	3.0	18.0	6.80		27.25	66.30	124.29	256.97	153.00	627.82
OCT C	3.0	18.0	6.82	10.00	28.12	66.53	101.91	230.31	75.00	281.57
NOV C	1.0	6.0	3.50	5.00	21.89	34.12	13.79	379.01	1321.60	1775.40
Pickup Use		0.0	3.50	3.00	15.29	34.12	13.79	379.01	1321.00	15.29
	terest at 10.0				13.29				10.80	10.80
Water Asses				**					10.00	10.00
water Asses	sment									
Total	7.0	42.0	19.25	15.00	117.69	187.67	243.29	635.98	1560.40	2760.02
%				0.54	4.26	6.80	8.81	23.04	56.54	100.00
TOTAL DEC			C (par Aara)	TOTAL ENERG		NTC / nor A	ara)			
	OURCE REC		S (per Acre)		GY REQUIREME	٠.	,			
Total N		198.9		Diesel Fue		50.1 Gal				
Total P		230.0		Unleaded		6.0 Gal				
Total K		0.0		All Direct E	=nergy	7.7 M B	310			
Total Labo		19.3								
Total Wate	er	42.0								
EOUIPMEN.	T REQUIREM	MENTS (ner	Acre)							_
Bed Shap			60 Hr	Cultivator, Sweep, 3	Rw 28	Hr	Directed S	Spray Rig, 8	0.67 Hr	
	Spray Rig, 16		15 Hr	Drag Scraper, 14'		 2 Hr		Dress Unit.	0.90 Hr	
	Broadcaster.		13 Hr	Laser, Complete Sys		 2 Hr	Lister, 5 B	,	0.22 Hr	
	d Plow, 4-16		45 Hr	Offset Disk, 10.5'		 3 Hr	Offset Disl		0.90 Hr	
	uck, 1/2 Ton		00 Hr	Planter, Stanhay, 2 I) Hr	Rowbuck,		0.23 Hr	
	70 PTO HP		80 Hr	Tractor, 80 PTO HP		Hr		00 PTO HP	1.05 Hr	
	50 PTO HP,		69 Hr	V-Ripper, 5 Shnk		Hr		Trailer Flat Bed		
	REQUIREM									
18-46-00,			00 Lb	33-00-00, Amm. Nitr			Broccoli B		448.00 Ct	
	Seed (Hybrid)		00 Th	BT) Lb	Imidaclopr		16.00 Oz	
Methomyl		4.	50 Pt	Trifluralin	1.00) Pt	Water, Dis	strict	42.00 AI	
	QUIREMENT		00 Ur	Othor	0.6	7 Ur	Tractor		11 50 11	
Irrigators		7.	00 Hr	Other	0.67	' Hr	Tractor		11.58 Hr	

^{*}NOTE: P = Previous Year C = Current Year N = Next Year

ARIZONA COOPERATIVE EXTENSION
Department of Ag and Resource Economics
University of Arizona F 11 / 14

^{**} A water assessment charge of \$10.00 per Acre is included as an ownership cost in Table B.

COUNTY:Maricopa FARM: Maricopa Veg 98 WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Broccoli ACRES: Sandy-Loam 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: AREA: Salt River Project YIELD: 448.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 7/16/99

	First		_	Equipment/ Custom Oper	Job Rate	Material U					Service Cost	Labor
N	o.Month	Times	Operation	HP Self-Prop./ Implement	Acres/Hr	Name	Appl.	Rate	\$/Ur	nit	\$ / Unit	Туре
1	Jul	0.5		150 V-Ripper, 5 Shnk	4.00							Tractor
2	Jul		Plow	150 Moldboard Plow, 4-16 2	2.00							Tractor
3	Jul		Disk	150 Offset Disk, 16.5'	4.00							Tractor
4	Jul	0.5	Laser Level	150 Drag Scraper, 14'	2.00							Tractor
				Laser, Complete System								
5	Aug			100 Fertilizer Broadcaster,		Trifluralin	1.00	Pt	24.95	Ga		Tractor
6	Aug	1.0		100 Lister, 5 Bottom	4.00							Tractor
7	Sep	1.0	Plant	100 Planter, Stanhay, 2 Row	1.50	Broccoli Seed (Hybrid)	90.00	Th	2.70	Th		Tractor
				Bed Shaper, 4 Rw								Other
8	Sep	1.0	Apply Insect./Ground	80 Directed Spray Rig, 16 Row	6.00	Imidacloprid	16.00	Oz	591.67	Ga		Tractor
9	Sep	5.0	Buck Rows	80 Rowbuck, 10'	20.00							Tractor
10	Sep	7.0	Irrigate		1.00	Water, District	6.00	ΑI	4.29	ΑF		Irrigators
11	Sep	5.0	Disk Ends	80 Offset Disk, 10.5'	20.00							Tractor
12	Sep	1.0	Thinning	CST Thinning							75.00 Ac	
13	Sep	5.0	Cultivate	80 Cultivator, Sweep, 3 Rw	1.60							Tractor
14	Sep	1.0	Soil Fertility	CST Soil Analysis (Surface)							3.00 Ac	
15	Sep	2.0	Apply Fert/Ground	80 Fert. Side Dress Unit, 4Row	2.00	18-46-00, Dry	250.00	Lb	275.00	Tn		Tractor
16	Sep	2.0	Apply Insect./Ground	80 Directed Spray Rig, 8 Row	4.00	Methomyl	1.50	Pt	49.05	Ga		Tractor
17	Sep	2.0	Hand Weeding	CST Hand Weeding							75.00 Ac	
18	Oct	2.0	Apply Fert/Ground	80 Fertilizer Broadcaster,	2.00	33-00-00, Amm. Nitrate,	165.00	Lb	320.00	Tn		Tractor
19	Nov	1.0	Apply Insect./Ground	80 Directed Spray Rig, 8 Row	4.00	Methomyl	1.50	Pt	49.05	Ga		Tractor
						ВТ	4.00	Lb	0.96	Lb		
20	Nov	1.0	Harvest	CST Cut/Pack/Load Broccoli		Broccoli Boxes	448.00	Ct	0.80	Ct	2.75 Ct	
21	Nov	1.0	Field Transport	70 Vegetable Trailer Flat Bed	0.50							Tractor
22	Nov	1.0	Haul, Custom	CST Haul Broccoli							0.20 Ct	
23	Nov	1.0	Disk Residue	150 Offset Disk, 16.5'	4.00							Tractor
			Pickup use 60 Mi/Ac	Pickup Truck, 1/2 Ton	0.50							

^{*}NOTES: Machine times, labor times, and material rates are for one time over the designated acreage.

ARIZONA COOPERATIVE EXTENSION
Department of Ag and Resource Economics
University of Arizona F 11 / 14