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# 2001–2002 Arizona Vegetable Crop Budgets

# Central Arizona Maricopa County

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# 2001

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#### **Abstract**

This 2001–2002 Vegetable Crop Budget Book is composed of tables estimating operating and ownership costs of producing vegetable crops in Central Arizona. The costs are computed for a representative farm using representative cropping operations derived from expert opinions of Arizona crop management specialists, county extension agents, and local growers, but they are not a statistical sample of farms in the area. These estimated costs are based on materials, custom services, labor, utilities, and machinery costs derived from surveys of input suppliers both within the county and throughout the state. Tables show individual operations required for producing the crop and they estimate the cumulative costs of production. Monthly resource and cash flows are also estimated. Summary tables include information on the total operating and ownership costs of production.

### **Acknowledgments**

The authors would like acknowledge the cooperation of farmers, county extension agents, crop specialists, lenders, and input suppliers in providing information used in the cost estimates.

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# 2001–2002 Arizona Vegetable Crop Budgets

#### INTRODUCTION

The tables of this publication provide information on the costs of producing vegetable crops in Arizona. The crop production techniques and associated costs are to serve as general guides to the costs incurred by producers in the area. Operations and procedures vary with local conditions and farmer preference. Growers, lenders, and other users of this information should recognize the representative nature of these income and cost estimates. Some growers may be more efficient than others. Adjustments to yields, prices, and input requirements are probably needed to refine the estimates of income and costs for a particular grower and area within a county. Crops selected for this publication are based on their economic importance within the county and the availability of data for each crop.

The remainder of this publication is divided as follows:

- Descriptive narrative of budget tables,
- Tables of average yields and prices,
- Tables of farm descriptions,
- Budget tables for each crop, and
- Appendices providing the support data for the cost estimates, including estimated costs of alternative water sources.

This publication will not give the details of calculating each item within the budget since most calculations are evident.

The table descriptions that follow give clarifying definitions and assumptions where such information is needed.

#### **DESCRIPTIONS OF BUDGET TABLES**

The Arizona Crop Budgeting System provides six tables to describe the details of each crop production system and the costs of production. These tables are labeled as follows:

- Table A. Income and Operating Cost Summary
- Table B. Allocation of Ownership Costs
- Table C. Variable Operating Costs
- Table D. Resource and Cash Flow Requirements
- Table E. Schedule of Operations
- Table F. Operations Calendar

All six tables are provided for each budgeted crop with the table number designating the budget and the following letter designating the table.

These tables are ordered to provide

- General summaries of cost,
- · Detailed categorization of costs, and
- Technical information required for calculation of all costs.

Each table is briefly described in the following paragraphs.

## **Yield and Price Assumptions**

Yield and price assumptions are very important in estimating the gross revenue of various cropping systems. For the purposes of this budget publication

**Budgeted yields** are based, in so far as possible, on five-year county average yields using the most recent five years available.

**Budgeted prices** for each commodity are based on five-year state average prices since county level prices are not available. Due to the highly seasonal nature of most vegetable prices, particular caution is warranted in using these state level prices.

#### **Table Headings**

All tables have the same general heading immediately following the table number and title. This heading gives location and crop-specific descriptions that define the crop being budgeted. The data provided include information on the location, soil type, irrigation water source, and crop yield.

# Income and Cash Operating Cost Summary (Table A)

Table A for each budget provides a summary of the estimated income and operating costs incurred in producing the specified crop. The total income estimate is the sum of the contributions toward projected income of all products produced by the cropping system, including possible subsidies.

Income estimates are based on five-year county averages for yields for most crops and five-year state averages for commodity prices. These estimates are shown in Table 1.

The income projection is followed by a summary of described in a following section. operating cost in several categories:

Labor,
Chemical and Custom Application,
Farm Machinery and Vehicles,
Irrigation Water, and
Other Purchased Inputs and Services.

These items are subtotaled as **Total Cash Land Preparation Growing Expenses**.

In addition, itemized harvest costs are

Labor, Chemical and Custom Application, Farm Machinery and Vehicles, Custom Harvest/Post Harvest,

**Crop Assessments**, and **Other Materials**.

These items are subtotaled as **Total Harvest and Post Harvest Expenses**.

Estimates of Operating Overhead for Pickup Use and Operating Interest are listed separately.

Operating costs, including sales taxes where appropriate, are summed to provide an estimate of cash operating expenses. The final entry in the table provides an estimate of the **Returns Over Cash Operating Expenses**.

The costs of this table are detailed in Table C described in a following section.

#### **Allocation of Ownership Costs (Table B)**

Table B provides a summary of the allocation of ownership costs and the resulting expected returns of the enterprise. The first three lines of this table are summaries of the information from Table A.

Two sets of columns provide information on a "Cash Basis" and on a "Total Cost Basis." The distinction is important. The long-term profitability of the enterprise requires that *all cost* (not just cash cost) be paid.

## **Important Assumptions for Operating Costs**

- A charge is included for all labor services (except management) including "non-paid" operator and family labor.
- 2. An interest charge is calculated for all operating costs irrespective of the source of operating funds (loan or equity funds).
- Yields are estimated using historical averages and trends for the appropriate crop and technology.
- 4. Crop price estimates are based on commodity trend and outlook information.
- 5. Costs of individual input items are derived from extensive data surveys and are reported in the appendices of this document.

An overview of the table shows that **Cash Overhead Expenses** include estimates for

Taxes, Housing, and Insurance on Farm Machinery (including vehicles),
Taxes, Housing, and Insurance on Irrigation Equipment (excluding ditches),
General and Office Overhead, and
General Farm Insurance.

The last two items are estimated as percentages of the Total Operating Expenses. The percentages are derived from conversations with farm owners and managers. Estimating procedures for Taxes, Housing, and Insurance are more complex and are documented elsewhere. This group of costs is designated as "cash costs" since they are generally paid in cash during the cropping year.

Capital Allocations are designated on a "Total Cost Basis" since they may or may not be paid during the cropping year depending upon the equity/debt structure of the farm and the capital replacement strategy used. Farmers often replace capital equipment with large "lump sum" purchases. New equipment is then depreciated for tax purposes and replaced when sufficiently worn out or when personal tax strategy calls for replacement. The funds for such purchases will be borrowed capital, equity capital, or a combination of the two. Interest will be cash interest on borrowed capital and/or opportunity interest on equity capital. Capital Replacement estimates and interest costs for Farm Machinery, Vehicles, and Irrigation Equipment are shown in Table B.

Cash rental rates are used as the total cost of land. In utilizing the cash rental rates all cost; opportunity costs, time costs, user costs, property taxes, and other overhead costs associated with the land are captured in the rental rate. Management Services are estimated on "Total Cost Basis" by taking a percentage of Total Operating Cost as is the common practice of professional farm management farms, since these costs may or may not be paid by the grower depending upon the farm's organization. Most owner- or renter-managed farms will not pay these costs directly. Assessments made by irrigation districts, which must be paid whether or not a farm is producing, are charged as land costs. If the budgeted crop is part of a "double crop" sequence, one-half of the land costs are attributed to each crop of the sequence.

Table B also provides estimates of net returns at various levels of allocation of ownership costs. The level of net returns depends on whether one examines costs on a "Cash Basis" or a "Total Cost Basis." Returns Over Cash Operating Expenses, Returns Over Cash Operating Expenses and Overhead, Returns to Land, Management and Risk, Returns to Management and Risk, and Returns to Risk (Profits) are all listed in Table B.

**Returns over Cash Operating Expenses** are the differences between Total Income and the Cash Operating Expenses. If positive, these returns represent the funds available to pay overhead, ownership expenses, land expenses, and management services plus profits.

#### **Definition—Cash Basis**

Cash Basis includes all costs for labor, materials, custom services, and an interest charge. Land rent, land taxes, and irrigation assessments are assumed to be paid in cash if applicable.

#### **Definition—Total Cost Basis**

Allocations for costs which may or may not be paid in cash, but which are normally *not* paid in cash, are considered in addition to the cash items. These costs include allocations for capital replacement of farm equipment, opportunity interest on farm equipment and farm land, and a charge for management.

#### **Definition—Opportunity Costs**

Capital invested in farm equipment and farm land would earn interest or other revenue in alternative investment opportunities. Either the interest paid for the use of the capital or its opportunity cost is expensed.

<sup>1</sup> Teegerstrom, T. 2000–2001 Arizona Farm machinery Costs, Extension Bulletin No. 198026, Cooperative Extension, The University of Arizona, Tucson, AZ, February 2000.

Overhead are the residual funds available after Cash Operating and Cash Overhead expenses are paid (excluding cash land costs). These funds are available to pay for equipment capital usage, land usage, and management services. These returns are identical to Returns to Land, Capital, Management and Risk.

Returns to Land, Management, and Risk further reduce the funds available by extracting the costs of equipment capital usage through Capital Allocations. These include the costs of Capital Replacement and opportunity interest on equipment. The grower is assumed to have 75% equity in all equipment. Thus, 75% of the costs are considered non-cash and are allocated on a "Total Cost Basis" only. These costs might be partially cash as noted above in the category Capital Allocations.

**Returns to Management and Risk** are the returns remaining after charges for land usage have been extracted. Land clearly represents a dilemma in the allocation of costs since it can be cash in the form of rents or leases, or can be partially cash and partially "economic" cost. For 100% equity ownership of lands, the cash costs are for taxes. However, opportunity interest on land ownership is charged for the "Total Cost Basis."

Returns to Risk (Profits) further reduce the net returns for the costs of Management Services. This charge is made on a "Total Cost Basis" only, since many farmers do not directly pay the cost of such management services. Returns to Risk represent the purest level of profits after all resources have been allocated an appropriate portion of the returns. If an sented at the end of the table.

Returns over Cash Operating Expenses and investment is risk-free and all inputs, including management, are paid an appropriate amount equal to their contribution, then net economic profit will be zero in a competitive industry (such as agriculture).

> Table B concludes with an estimate of the breakeven prices of the primary output considering all of the costs previously described and the assumed yield. Break-even prices are those commodity prices below which all resources will not be paid.

#### Variable Operating Costs (Table C)

Table C provides the detail costs of each operation required to produce the crop (some operations are performed more than one time). The operations are listed sequentially, with the machine and labor hours required to produce one acre displayed in the first two columns after the operation name. The next five columns give the Machine, Labor, Custom, Materials, and Total Costs for completing the operation one time. The next column gives the number of times the specific operation will be performed. The final cost column gives the Total Expense (Cash) for the total number of times the operation is performed. The final column classifies the operation:

Land Preparation (L), Growing (G), Harvest (H), Post Harvest (P), or Marketing (M).

The total cost for each of these categories is pre-

#### **Water Costs**

Arizona is a patchwork of irrigated farms which receive irrigation water from many different sources. This document estimates costs of production for each crop based on one assumed water source. Producing the crop in some other area of the county or state likely uses water from different sources. To use these estimates for areas other than their original ones, new water cost estimates should be made. New water costs estimates can be made by removing the water costs from the original budget and replacing them with the cost of irrigation water in the new area.

All Costs presented in this table are variable operating expenses. No ownership costs are presented. A line entry (if appropriate) following the last operation describes the assumptions for pickup truck usage.

Operating Interest is included as the last line of the table and represents the interest paid on the cash operating expenses excluding pickup truck costs. Total Cash Operating Expenses summarizes the total cost for each category for the total number of times the operations are performed. The specific physical details of operations are presented in Table E, including assumed job rates, materials, applications rates, equipment requirements, labor requirements, and custom costs.

Table C also includes a summary of cost by Class of Operation:

Land Preparation (L), Growing (G), Harvest (H), Post Harvest (P), Marketing (M), and Operating Overhead (O).

Finally, a sensitivity of Net Revenues over Total Cash Expenses examines changes in net returns with changes in price and yield of the produced commodities.

# Resource and Cash Flow Requirements (Table D)

Resource and Cash Flow Requirements are summarized in Table D by month where the abbreviations P, C, and N represent Previous Year, Current Year, and Next Year, respectively. The Current Year is defined as the calendar year in which harvesting of the output takes place. Summary columns give information on the number of irrigations, water applied, and labor required in each month. Variable (cash) operating expenses are subdivided into Water, Machine, Labor, Chemical, Other Purchases, and Services for each month. The last column gives the Total Cash required to pay variable expenses in each month. These dates all are based on the schedule and calendar of operations described in Table E.

Additional summary information totals all the requirement columns and provides plant nutrient, water, labor, and purchased energy (fuels) summaries.

Finally, detailed lists of all of the equipment, labor, and material requirements for the enterprise are provided.

#### **Schedule of Operations (Table E)**

The Schedule of Operations (Table E) provides the underlying information for the budgeted costs. The physical requirement and description of each operation is listed in detail, including the first month in which the operation is performed, the number of times the operation is performed, the tractors and implements required, the job rate (acres per labor hour) of each operation, the required materials (quantity, price, and units), the prices and units of required custom (or hired) services, and the labor type used to complete the operation.

Since this table is very important in defining the physical elements of the budgeting process, each column is described in some detail in the table below. The physical descriptions of the cropping operations provide the documentation of the cropping system for which cost estimates are being made.

#### **Operations Calendar (Table F)**

The Operations Calendar (Table F) is a flow chart of the operations used in the production process of each crop presented in the budgets. The table provides information on which month each operation occurs and the number of times each operation occurs.

#### THE BUDGET TABLES

The results of the cost of production estimates are included in a series of Tables A through F for each crop as noted in the Table of Contents. To aid the users of this publication, a table of the abbreviations is presented below. Background data for these estimates are provided in Table 2, Representative Farm Description for Budget Estimates, and Appendices A and B. Appendix A identifies those data groups uniquely specified by each county while Appendix B identifies the input items where state average prices were used.

Chemical materials provide a unique challenge for these estimates since each material is identified by its common generic name. However, in order to avoid confusion some (most) items are also identified, insofar as possible because of limited printing space, by trade names. Some identifiers are truncated because of space limitations.

	List of Column He	adings for Ta	ible E
Column Heading	Description	Column Heading	Description
No.	The sequence number of each operation is provided for the ordering of operations.	Job Rate	Job Rate (Acres/Hr) is defined as the number of acres that can be completed
First Month	The first month in which each operation is to be performed is identified. An operation name may occur several times in a sequence of budget operations, but usually if all elements of the operation		per hour of <i>labor</i> . Machinery hours are usually less than labor hours. The budgeting program adjusts all job rates to provide labor and machine hours, as shown in Table C.
	are identical (e.g., job rate or quantity of materials) then the operations will be combined into a single entry.	Material Use and Cost	Under this broad heading, all materials applied during a specific operation are identified using the following information.
Operation	The operation name is identified. Some abbreviations are necessary to fit the limited space available in the table.	Name	The name or names of any fertilizer, chemical, seed, water, or miscellaneous materials used in crop production are
Equipment/ Custom Oper.	This general heading identifies either 1) the combination of equipment required to accomplish the operations, or 2) the custom or hired service activity. This entry may be truncated. If quesions arise about		listed (one per line). In so far as possible, the names used are generic, nontrade names. This entry may be truncated. If questions about the actual material arise, refer to Appendices A and B.
	the actual material, refer to the alphabetical entries in Appendices A or B.	Appl. Rate	Each material application rate is identified with the appropriate application unit.
НР	The horsepower rating of the tractor used in this operation is identified. If no tractor is used, this entry is blank.	\$/Unit	This column specifies the cost of the material with the appropriate units at which the material is purchased.
Self-Prop./ Implement	The implement column identifies 1) the descriptive name of an implement used in the operation, 2) the descriptive name of the self-propelled implement used in the op-	Service Cost	The cost and purchase unit (\$/unit) of any custom operation identified in the Self-Prop./Implem. column is noted here with the appropriate purchase unit.
	eration, or 3) the descriptive name of a custom activity used in the operation (preceded by the abbreviation CST). Multiple lines may be required for identification of implements towed behind tractors or vehicles.	Labor Type	The type of labor used in the operation is identified.

			Table	of Abbrevia	tions		
					Units of	Measure	
ai Appl CST Defol. Fld G Gnd Gr Herb Insur Irrig	Active ingredient Applications Custom Defoliant Field Granules Ground Graded Herbicides Insurance Irrigation	L Oper. Over. Prop. Rw Sk Spr W/ X	Liquid Operating Overhead Propelled Row Shank Spray With Times Number	AF AI Ac, AC Ba Bn CW, CWT CI, Cwl Cotton Ct, Ctn DB Ea Er Fn Ft Ga, Gal	Acre-Foot Acre-Inch Acre Bale 12 Bun 100 Pounds 100 Pounds Lint  Carton 1 Dozen Bunches Each 12 Ears of Corn Feet/ton Feet Gallon	Gm HD Hr, Hrs Lb, Lbs Lg M MI, Mi Mu Qt Sk TF Th Tn, T	Gram Head Days Hours Pound Lug Meter Miles Module Quart Sack Thousand Feet Thousand Ton Tarp

Table 1. Five Year Average Yields and Prices, Maricopa Vegetables

200 150 150 150	(Cartons)	Harvested Y Acres ((	sted Yield/Acre I	Harvested Yield Acres (Car	Yield/Acre (Cartons)	Harvested Yie Acres (Ca	Yield/Acre (Cartons)	Harvested Yie Acres (C	Yield/Acre (Cartons)	Dry Onions Harvested Yiel Acres (Ca	Yield/Acre (Cartons)	Green Unions Harvested Yield Acres (Cart	Onions Yield/Acre (Cartons)	Spinach Harvested Yie Acres (C	<u>ach</u> Yield/Acre (Cartons)
2000	ge and Yiel 333 313 415	<b>ids</b> 150 150 300 200	372 520 616 540		280 409 284 296 418	200 200 200 300 300	643 643 857 890 1,048	2,900 3,200 4,200 4,400 4,000	455 450 450 805 827	900 1,000 800 800 900	860 712 1,156 1,020 892	340 240 180 120	1,162 1,142 1,045 1,017 2,635	1,060 1,650 1,800 2,900 3,500	688 547 567 445 223
Average 100	212	160	410	1,700	337	240	816	3,740	262	880	928	210	1,400	2,182	494
Arizona Prices ( Dollars per Carton ) Fall Head Lettuce Price per 40	per Cartor ettuce 40	- Pri	uce 25	Sweet Corn Price per 50	<u>Sorn</u> 50	<u>Cauliflower</u> Price per	<u>ower</u> 21	<u>Broccoli</u> Price per	22	Dry Onions Price per	nions 50	Green Onions Price per 18	Onions 18	<u>Spinach</u> Price per	ach 25
<u>a</u>	non (	pound carton \$9.00 \$7.93	roti.	s4.40 \$4.40 \$3.70	arton 0	pound carton \$6.93 \$6.97	arton 3 7	\$5.65 \$7.85	carton 35 35	pound sack \$4.30 \$6.30	sack 30 30	pound sack \$7.20 \$7.49	1 sack 20 49	pound carton \$7.95 \$10.11	carton 35 11
1998 \$7.88 1999 \$5.08		\$5.25		\$10.32	22.0	\$9.62	0.00	\$7.88	35	\$7.65	35	\$17.07	.07	\$14.24	24 0
		\$7.68		\$4.30	0 0	\$7.3	ာက	\$5.87	37	\$2.32	32	\$7.00	00	\$30.90	06
Average \$7.62		\$7.30		\$5.38	8	\$7.74	4	\$6.52	52	\$4.67	37	\$9.25	25	\$14.18	18
Carrots Harvested Yiel Acres (C	eld/Acre	Spring Honeydews Harvested Yield/Ac	sre s)	Fall Honeydews Harvested Yield/A Acres (Carto	eydews Yield/Acre (Cartons)	Watermelons Harvested Yield Acres (c	elons Yield/Acre (cwt)	Spring Cantaloupe (late) Harvested Yield/Acre Acres (Cartons)	aloupe (late) Yield/Acre (Cartons)	<u>Fall Cantaloupe</u> Harvested Yield/ Acres (Cart	taloupe Yield/Acre (Cartons)	Potatoes Harvested Yie Acres	toes Yield/Acre (cwt)	<u>Cabbage</u> Harvested Yiel Acres (Ca	age Yield/Acre (Cartons)
Maricopa County Acreage and Yields	ge and Yiel	<b>ids</b>	503	002	567	3 550	25.4	2 900	380	000 8	700	009 8	205	2 400	200
	1,060	1,100	200	1,200	640	3,650	272	5,000	427	3,400	225	4,900	282	547	763
1998 2,500	1,000	1,100	717	1,000	690	3,600	260	5,800	325	2,000	288	7,500	282 320	567 445	1,166 750
	1,080	1,400	750	1,300	597	3,900	375	6,000	300	3,600	285	6,500	278	223	450
Average 2,290	1,046	1,260	999	1,040	638	3,660	326	6,180	360	3,400	260	5,460	291	836	746
Arizona Prices ( Dollars per Carton )	per Cartor	n)	0,000		or co	. mroto/M		(otel) candatas O sairas	(otal) odilol		Gairela	100	2004	3400	
Price per	25	Price per 30	30	Price per 30	30	Price per	rice per 100	Price per	75	Price per	75	Price per 100	100	Price per	e per 50
<u>a</u>	uo <u>l</u>	pound carton \$5.07	uoti.	\$5.43	arton 3	pound container \$7.20	ntainer 0	pound carton \$15.60	carton 60	pound carton \$15.60	carton 60	pound sack \$10.20	1 sack .20	роила салол \$3.09	carton 39
1997 \$3.33 1998 \$3.13		\$5.25 \$4.80		\$6.00	0 -	8.78	00	\$14.40	40	\$14.	40 43	\$8.75	75 30	83.	9 ×
1999 \$3.80 2000 \$2.03		\$4.98		\$7.14 \$6.51	- 4 -	\$5.60 \$5.60 \$6.80	000	\$10.35 \$14.70	35	\$10.35 \$14.70	35	\$9.05 \$10.60	05.	\$3.31 \$6.05	31
Average \$3.09		\$4.97		\$5.84	4	\$7.08	8	\$13.10	10	\$13.10	10	\$9.98	86	\$3.64	42

Table 2. Representative Farm Description for Budget Estimation

	Maricopa Vegetables
General Characteristics	
Farm Size Land Rent Property Tax Rate (Average) Assessment Rate Appraised Land Value Land Cash Value Land Equity Sales Tax General Overhead Office Overhead Maintenance Overhead Management Overhead Energy and Equipment	1,000 Acres \$160 / Acre \$14.1186 / \$100 Assessment 16% of Appraised Value \$619 / Acre \$2,000 / Acre 100% 5.75% of Material Purchases 3% of Operating Costs 2% of Operating Costs 3% of Operating Costs 8% of Operating Costs
Equipment Equity Machine Hours Unleaded Gasoline Diesel Fuel L P Gas Natural Gas Electricity Lubrication Factor Interest Rates	100% 90% \$1.135 / Gallon \$0.788 / Gallon \$0.810 / Gallon \$0.37065 / cu.ft. \$0.07035 / kwh 15% of Fuel Costs
Operating Credit	10% 6%

Operating Credit	10%
Long Term	6%
Average Investment	10%

## **Labor Benefits**

FICA	7.65% of Cash Wages
Worker Compensation	8.45% of Cash Wages
FUTA	1.56% of Cash Wages
Fringe Benefits	13% of Cash Wages

# 2001–2002 Arizona Vegetable Crop Budgets Tables

# **Central Arizona Maricopa County**

Note: Column and row totals may not exactly equal the sum of a row or column due to rounding error. Differences are usually less than \$.10.

Table 3A. Income and Cash Operating Summary; Broccoli, 2001

COUNTY: Maricopa CROP: Broccoli FARM: Maricopa Veg ACRES: 1.0 WATER SOURCE: Scottsdale, Electric TILLAGE: Double Crop 1.0 597.0 Ct / Acre Sandy-Loam IRRIGATION SYSTEM: Flood Furrow SOIL: AREA: Scottsdale YIELD: 9/12/01 PREVIOUS CROP: DATE: Wheat, Winter

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
			Unit	Acre	/ACTE	Buuget
INCOME -> Broccoli	Crtn	597.00	\$6.52	\$3,892.44	\$3,892.44	
CASH LAND PREPARATION AND GR Paid Labor (including benefits) Tractor/Self Propelled Irrigation Other/ Contract	ROWING EXPENSES (includ	ding sales tax)		82.87 68.24 6.50	157.61	
Chemicals and Custom Applications Fertilizer Insecticide Herbicide	5			92.97 117.66 3.30	213.93	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				34.67 46.97	81.64	
Irrigation Water (excluding labor) Pump Energy - Electric Repairs and Maintenance Water Assessment (See Note Belov	V) **			212.28 15.76	228.04	
Other Purchased Inputs & Seed/Transplants Other Services and Rentals				256.85 153.00	409.85	
CASH HARVEST AND POST HARVES	TOTAL CASH LAND PREPA ST EXPENSES	ARATION AND GROWIN	IG EXPENSES		1091.07	
Paid Labor (including benefits) Tractor/Self Propelled				19.50	19.50	<del></del>
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				5.75 11.26	17.01	
Custom Harvest/Post Harvest Other Materials					1761.15 378.83	
OPERATING OVERHEAD -> PICKUP OPERATING INTEREST AT 10.0%	TOTAL HARVEST AND PO USE	ST HARVEST EXPENSE	:		2176.48 15.25 10.12	
TOTAL CASH OPERATING EXPENSE RETURNS OVER CASH OPERA					\$3,292.92 \$599.52	

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

#### Table 3B. Allocations of Ownership Costs; Broccoli, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Scottsdale, Electric TILLAGE: Double Crop CROP: Broccoli ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Scottsdale YIELD: 597.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 9/12/01

	CASH COST BAS	SIS (\$/ACRE)	TOTAL COST BA	SIS (\$/ACRE)
Item	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$6.52 / Ct TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$3,892.44 \$3,292.92	\$599.52	\$3,892.44 \$3,292.92	\$599.52
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery Wells and Irrigation System General and Office Overhead ( 5.0% of Total Operating Exp.) General Farm Maintenance ( 3.0% of Total Operating Exp.)	9.10 3.25 164.65 98.79		9.10 3.25 164.65 98.79	
Total Cash Overhead Expenses	275.78		275.78	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Most over the projection System.	3,568.70	\$323.74	3,568.70 52.92 15.31	\$323.74
Wells and Irrigation System Interest on Equity, Machinery and Vehicles Wells and Irrigation System			19.75 8.76	
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK		> \$323.74	96.75	> \$227.00
Land Cost / Rent or Lease	200.00		200.00	
Total Land Costs  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO MANAGEMENT AND RISK	200.00	> \$123.74	200.00	> \$27.00
Management Services ( 8% of Total Operation Expenses)			263.43	
TOTAL OWNERSHIP COST	475.78		835.96	
TOTAL COST  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO RISK (PROFITS)	\$3,768.70	> \$123.74	\$4,128.88	> (\$236.44)
ltem	CASH COST BAS Income and Costs	IS (\$/ACRE) Net Returns	TOTAL COST BAS Income and Costs	SIS (\$/ACRE) — Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$5.52 \$0.80 \$6.31		\$5.52 \$1.40 \$6.92

Table 3C. Variable Operating Costs; Broccoli, 2001

COUNTY: Maricopa FARM: Maricopa Veg Scottsdale, Electric TILLAGE: Double Crop WATER SOURCE: CROP: Broccoli ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Scottsdale YIELD: 597.0 Ct / Acre PREVIOUS CROP: 9/12/Ó1 Wheat, Winter DATE:

	First		Hour	s *	Operati	na Costs	(\$/ACRF *	) Per Opera	ation		Tot. Cash		
No.		h Operation	Machine	Labor	Fuel/Rps.		Cust/Serv.		Total	Times	Expenses	Class	
1	Jul	Rip	0.225	0.250	2.86	2.44			5.29	0.5	2.65	L	
2	Jul	Plow	0.450	0.500	6.50	4.87			11.37	1.0	11.37	L	
3	Jul	Disk	0.225	0.250	3.43	2.44			5.86	3.0	17.59	L	
4	Jul	Laser Level	0.450	0.500	5.54	4.87			10.42	0.5	5.21	L	
5	Aug	Apply Herbicide/Ground	0.225	0.250	2.26	2.44		3.30	7.99	1.0	7.99	G	
6	Aug	Apply Fert/Ground	0.150	0.167	0.93	1.62		63.02	65.58	1.0	65.58	G	
7	Aug	List	0.225	0.250	2.49	2.44			4.93	1.0	4.93	L	
8	Sep	Plant	0.600	1.334	8.29	13.00		256.85	278.15	1.0	278.15	L	
9	Sep	Apply Insect./Ground	0.150	0.167	1.38	1.63		77.75	80.75	1.0	80.75	G	
10	Sep	Buck Rows	0.045	0.050	0.34	0.49			0.82	5.0	4.12	G	
11	Sep	Irrigate		1.000	32.57	9.75			42.32	7.0	296.62	G	
12	Sep	Disk Ends	0.045	0.050	0.41	0.49			0.90	5.0	4.50	G	
13	Sep	Cultivate	0.563	0.625	4.44	6.09			10.53	5.0	52.64	G	
14	Sep	Soil Fertility					3.00		3.00	1.0	3.00	G	
15	Sep	Apply Fert/Inject	0.450	0.500	6.12	4.87		14.98	25.97	2.0	51.95	G	
16	Sep	Apply Insect./Ground	0.225	0.250	1.86	2.44		30.21	34.51	1.0	34.51	G	
17	Sep	Hand Weeding					75.00		75.00	2.0	150.00	G	
18	Nov	Apply Insect./Ground	0.225	0.250	1.86	2.44		9.70	14.00	1.0	14.00	G	
19	Nov	Harvest 597 Ct					1641.75	378.83	2020.58	1.0	2020.58	Н	
20	Nov	Field Transport 597 Ct	1.800	2.000	17.01	19.50			36.50	1.0	36.50	Н	
21	Nov	Haul, Custom 597 Ct					119.40		119.40	1.0	119.40	Н	
22	Nov	Disk Residue 597 Ct	0.225	0.250	3.43	2.44			5.86	1.0	5.86	L	
		Pickup Use 60 Mi/Acre	2.000		15.25						15.25		
		Operating Interest at 10.0					10.12				10.12		
		TOTAL CASH OPERATING	EXPENSE:	S (includes	all times over):						3292.92	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.

OPERATING COST SUMMARY BY	CLASS	SENSITIVI	TY OF THE	NET REVE	NUES OVE	R TOTAL CAS	SH EXPENS	ES (\$/ACR	E)
Land Preparation (L)	325.75	Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	,
Growing (G)	774.94	Yields		\$4.89	\$5.87	\$6.52	\$7.17	\$8.15	Break-even Price
Harvest (H)	2,176.48								
Post Harvest (P)	0.00	- 25%	447.8	-708.81	-270.91	21.02	312.95	750.85	6.47
Marketing (M)	0.00	- 10%	537.3	-597.39	-71.91	278.41	628.73	1,154.21	6.00
Operating Overhead (O)	25.37	Budgeted	597.0	-523.10	60.77	450.01	839.25	1,423.12	5.77
		+ 10%	656.7	-448.82	193.44	621.61	1,049.77	1,692.03	5.57
Total (T)	\$3,292.92								
		Break-even Y	'ield	1,017.40	569.66	440.44	359.00	281.05	

Table 3D. Resource and Cash Flow Requirements; Broccoli, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Scottsdale, Electric TILLAGE: Double Crop CROP: Broccoli ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Scottsdale YIELD: 597.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 9/12/01

ſ		Water				- One	erating	Costs (\$/A	CRF *)			
Month *	Number Irrigations	Applied (inches)	Total Labor (Hrs)	Purchased Water	Fuel, Oil and Repairs		bor	Chemicals	Other Purchases	Services	Total	
JUL C AUG C SEP C OCT C NOV C Pickup Use 6 Operating Inte	3.0 3.0 1.0 60 Mi/Acre erest at 10.0	18.0 18.0 6.0	1.38 0.92 6.80 5.57 3.50		17.55 9.10 121.00 122.78 56.25 15.25	6	3.40 8.94 6.30 4.35 4.12	66.32 122.93 14.98 9.70	256.85 378.83	78.00 75.00 1761.15 10.12	30.95 84.36 645.08 267.11 2240.05 15.25 10.12	
Total %	7.0	42.0	18.17		341.93 10.38	1	77.11 5.38	213.93 6.50	635.68 19.30	1924.27 58.44	3303.90 100.00	
TOTAL RES Total N Total P Total K Total Labor Total Wate		UIREMENTS 151.2 157.5 22.5 18.2 42.0	6 (per Acre)	TOTAL ENEF Diesel Fu Unleaded Electric / All Direct	Gas Pumping	47.5 6.0 2488.9 15.8	er Acre Gal Gal KWH M B	ł				
Bed Shape Directed S Fertilizer I Moldboard Pickup Tru Tractor, 6	Spray Rig, 16 Injector, 4 Rov d Plow, 4-16 2 uck, 1/2 Ton 50 PTO HP 00 PTO HP	0.0 0.0 0.0 0.4 0.4 1.0	cre) 60 Hr 15 Hr 90 Hr 45 Hr 00 Hr 15 Hr 05 Hr	Cultivator, Sweep, 3 Drag Scraper, 14' Laser, Complete Sy Offset Disk, 10.5' Planter, Stanhay, 2 Tractor, 70 PTO HI Tractor, 125 PTO H Vegetable Trailer Fl	0. vstem 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	81 Hr 22 Hr 22 Hr 23 Hr 60 Hr 80 Hr 80 Hr			x, 16.5' 10' O PTO HP	0.45 Hr 0.38 Hr 0.22 Hr 0.90 Hr 0.23 Hr 3.86 Hr 1.69 Hr		
10-35-05, Broccoli S Spinosad	REQUIREME Dry Seed (Hybrid)	450.0 90.0 6.0 (per Acre)	e) 00 Lb 00 Th 00 Oz	32-00-00, URAN 32 Imidacloprid Trifluralin	16. 1.	.00 Ga .00 Oz .00 Pt		Broccoli Bo Methomyl Water, Pur		448.00 Ct 1.50 Pt 42.00 Al		

<sup>\*</sup>NOTE: P = Previous Year C = Current Year N = Next Year

Table 3E. Schedule of Operations; Broccoli, 2001

COUNTY: Maricopa CROP: Broccoli FARM: Maricopa Veg TILLAGE: Double Crop WATER SOURCE: Scottsdale, Electric ACRES: Sandy-Loam 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: AREA: Scottsdale 597.0 Ct / Acre PREVIOUS CROP: DATE: 9/12/01 YIELD: Wheat, Winter

First No. Month	Fimes Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate	Material U Name	lse and C Appl. I		 \$ / Un		Service Cost Labor
Jul	0.5 Rip	150 V-Ripper, 5 Shnk	4.00						Tractor
Jul	1.0 Plow	150 Moldboard Plow, 4-16 2	2.00						Tractor
Jul	3.0 Disk	150 Offset Disk, 16.5'	4.00						Tractor
Jul	0.5 Laser Level	150 Drag Scraper, 14' Laser, Complete System	2.00						Tractor
Aug	1.0 Apply Herbicide/Ground	100 Fertilizer Broadcaster,	4.00	Trifluralin	1.00	Pt	24.95	Ga	Tractor
Aug	1.0 Apply Fert/Ground	60 Fertilizer Broadcaster,	6.00	10-35-05, Dry	450.00	Lb	265.00	Tn	Tractor
Aug	1.0 List	100 Lister, 5 Bottom	4.00						Tractor
Sep	1.0 Plant	100 Planter, Stanhay, 2 Row Bed Shaper, 4 Rw	1.50	Broccoli Seed (Hybrid)	90.00	Th	2.70	Th	Tractor Other
Sep	1.0 Apply Insect./Ground	80 Directed Spray Rig, 16 Row	6.00	Imidacloprid	16.00	Oz	588.40	Ga	Tractor
Sep	5.0 Buck Rows	80 Rowbuck. 10'	20.00						Tractor
Sep	7.0 Irrigate	, ,		Water, Pump	6.00	Αl	67.90	AF	Irrigators
Sep	5.0 Disk Ends	80 Offset Disk, 10.5'	20.00	, ,					Tractor
Sep	5.0 Cultivate	80 Cultivator, Sweep, 3 Rw	1.60						Tractor
Sep .	1.0 Soil Fertility	CST Soil Analysis (Surface)							3.00 Ac
Sep .	2.0 Apply Fert/Inject	125 Fertilizer Injector, 4 Row	2.00	32-00-00, URAN 32,	15.00	Ga	170.80	Tn	Tractor
Sep .	1.0 Apply Insect./Ground	80 Directed Spray Rig, 8 Row	4.00	Spinosad	6.00	Oz	609.67	Ga	Tractor
Sep	2.0 Hand Weeding	CST Hand Weeding		·					75.00 Ac
Nov	1.0 Apply Insect./Ground	80 Directed Spray Rig, 8 Row	4.00	Methomyl	1.50	Pt	48.94	Ga	Tractor
Nov	1.0 Harvest	CST Cut/Pack/Load Broccoli		Broccoli Boxes	448.00	Ct	0.80	Ct	2.75 Ct
Nov	1.0 Field Transport	70 Vegetable Trailer Flat Bed	0.50						Tractor
Nov	1.0 Haul, Custom	CST Haul Broccoli							0.20 Ct
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						

<sup>\*</sup>NOTES: Machine times, labor times, and material rates are for one time over the designated acreage.

Table 3F. Operations Calendar; Broccoli, 2001COUNTY:MaricopaFARM:Maricopa VegCROP:BroccoliACRES:1.0AREA:ScottsdaleYIELD:597 Ct/Acre WATER SOURCE: Scottsdale, Elec. TILLAGE: Double Crop SOIL DATE: Sandy-Loam 09/17/2001 IRRIGATION SYSTEM: Flood Furrow PREVIOUS CROP: Wheat, Winter

_					Mont	h and Tir	mes Ope	ration Pe	rformed -				
Operation		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Rip								0.5 C					
Plow								1.0 C					
Disk								2.0 C	1.0 C				
Laser Level								0.5 C					
Apply Herbicide/Ground									1.0 C				
Apply Fert/Ground									1.0 C				
List									1.0 C				
Plant										1.0 C			
Apply Insect/Ground										1.0 C			
Buck Rows										3.0 C	2.0 C		
Irrigate										3.0 C	3.0 C	1.0 C	
Disk Ends										3.0 C	2.0 C		
Cultivate										2.0 C	3.0 C		
Soil Fertility										1.0 C			
Apply Fert/Inject										1.0 C	1.0 C		
Apply Insect/Ground										1.0 C			
Hand Weeding										1.0 C	1.0C		
Apply Insect/Ground												1.0 C	
Harvest												1.0 C	
Field Transport												1.0 C	
Haul, Custom												1.0 C	
Disk Residue												1.0 C	
	Plow Disk Laser Level Apply Herbicide/Ground Apply Fert/Ground List Plant Apply Insect/Ground Buck Rows Irrigate Disk Ends Cultivate Soil Fertility Apply Fert/Inject Apply Insect/Ground Hand Weeding Apply Insect/Ground Harvest Field Transport Haul, Custom Disk Residue	Plow Disk Laser Level Apply Herbicide/Ground Apply Fert/Ground List Plant Apply Insect/Ground Buck Rows Irrigate Disk Ends Cultivate Soil Fertility Apply Fert/Inject Apply Insect/Ground Hand Weeding Apply Insect/Ground Harvest Field Transport Haul, Custom	Plow Disk Laser Level Apply Herbicide/Ground Apply Fert/Ground List Plant Apply Insect/Ground Buck Rows Irrigate Disk Ends Cultivate Soil Fertility Apply Fert/Inject Apply Insect/Ground Hand Weeding Apply Insect/Ground Harvest Field Transport Haul, Custom Disk Residue	Plow Disk Laser Level Apply Herbicide/Ground Apply Fert/Ground List Plant Apply Insect/Ground Buck Rows Irrigate Disk Ends Cultivate Soil Fertility Apply Fert/Inject Apply Insect/Ground Hand Weeding Apply Insect/Ground Harvest Field Transport Haul, Custom Disk Residue	Plow Disk Laser Level Apply Herbicide/Ground Apply Fert/Ground List Plant Apply Insect/Ground Buck Rows Irrigate Disk Ends Cultivate Soil Fertility Apply Fert/Inject Apply Insect/Ground Hand Weeding Apply Insect/Ground Harvest Field Transport Haul, Custom Disk Residue	Rip Plow Disk Laser Level Apply Herbicide/Ground Apply Fert/Ground List Plant Apply Insect/Ground Buck Rows Irrigate Disk Ends Cultivate Soil Fertility Apply Fert/Inject Apply Insect/Ground Hand Weeding Apply Insect/Ground Harvest Field Transport Haul, Custom Disk Residue	Rip Plow Disk Laser Level Apply Herbicide/Ground Apply Fert/Ground List Plant Apply Insect/Ground Buck Rows Irrigate Disk Ends Cultivate Soil Fertility Apply Fert/Inject Apply Insect/Ground Hand Weeding Apply Insect/Ground Harvest Field Transport Haul, Custom Disk Residue	Rip Plow Disk Laser Level Apply Herbicide/Ground Apply Fert/Ground List Plant Apply Insect/Ground Buck Rows Irrigate Disk Ends Cultivate Soil Fert/lity Apply Fert/Inject Apply Insect/Ground Hand Weeding Apply Insect/Ground Harvest Field Transport Haul, Custom Disk Residue	Rip       0.5 C         Plow       1.0 C         Disk       2.0 C         Laser Level       0.5 C         Apply Herbicide/Ground	Rip       0.5 C         Plow       1.0 C         Disk       2.0 C       1.0 C         Laser Level       0.5 C         Apply Herbicide/Ground       1.0 C         Apply Fert/Ground       1.0 C         List       1.0 C         Plant       4         Apply Insect/Ground       5         Buck Rows       1.0 C         Irrigate       5         Disk Ends       5         Cultivate       5         Soil Fertillity       4         Apply Fert/Inject       4         Apply Insect/Ground       4         Hand Weeding       4         Apply Insect/Ground       4         Harvest       5         Field Transport       4         Haul, Custom       0         Disk Residue       5	Rip       0.5 C         Plow       1.0 C         Disk       2.0 C       1.0 C         Laser Level       0.5 C         Apply Herbicide/Ground       1.0 C         Apply Fert/Ground       1.0 C         List       1.0 C         Plant       1.0 C         Apply Insect/Ground       1.0 C         Buck Rows       3.0 C         Irrigate       3.0 C         Disk Ends       3.0 C         Cultivate       3.0 C         Soil Fertility       1.0 C         Apply Fert/Inject       1.0 C         Apply Insect/Ground       1.0 C         Apply Insect/Ground       1.0 C         Hand Weeding       1.0 C         Apply Insect/Ground       1.0 C         Harvest       1.0 C         Field Transport       1.0 C         Haul, Custom       1.0 C         Disk Residue       1.0 C	Rip       0.5 C         Plow       1.0 C         Disk       2.0 C       1.0 C         Laser Level       0.5 C         Apply Herbicide/Ground       1.0 C         Apply Fert/Ground       1.0 C         List       1.0 C         Plant       1.0 C         Apply Insect/Ground       1.0 C         Buck Rows       3.0 C       2.0 C         Irrigate       3.0 C       3.0 C         Disk Ends       3.0 C       2.0 C         Cultivate       3.0 C       2.0 C         Soil Fertility       2.0 C       3.0 C         Apply Insect/Ground       1.0 C       1.0 C         Hand Weeding       1.0 C       1.0 C         Apply Insect/Ground       1.0 C       1.0 C         Harvest       1.0 C       1.0 C         Harvest       1.0 C       1.0 C         Harvest       1.0 C       1.0 C         Havest       1.0 C       1.0 C         Havest       1.0 C       1.0 C         Lock of the state of	Rip

<sup>\*</sup> NOTE: P = Previous Year C = Current Year N = Next Year

Table 4A. Income and Cash Operating Summary; Carrots, 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Carrots IRRIGATION SYSTEM: Flood Furrow Sandy-Loam SOIL: Salt River Project 1,046.0 Ct / Acre 9/12/01 AREA: YIELD: PREVIOUS CROP: Wheat, Winter DATE:

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Carrots	Crtn	1,046.00	\$3.09	\$3,232.14	\$3,232.14	
CASH LAND PREPARATION AND GROV Paid Labor (including benefits) Tractor/Self Propelled Irrigation Other/ Contract	VING EXPENSES (inclu	ding sales tax)		44.49 68.46 18.52	131.48	
Chemicals and Custom Applications Fertilizer Herbicide Other Chemicals				69.67 66.28 97.41	233.37	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance Irrigation Water (excluding labor) Water Assessment (See Note Below) *	*			20.99 28.65	49.65 45.75	
Other Purchased Inputs & Seed/Transplants Other Services and Rentals				46.51 3.00	49.51	
TO <sup>*</sup> CASH HARVEST AND POST HARVEST I		ARATION AND GROWIN	G EXPENSES		509.75	
Paid Labor (including benefits)  Tractor/Self Propelled				0.24	0.24	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				0.08 0.12	0.21	
Custom Harvest/Post Harvest Other Materials					1234.28 1050.34	
TO OPERATING OVERHEAD -> PICKUP US OPERATING INTEREST AT 10.0%		ST HARVEST EXPENSE			2285.07 12.71 20.31	
TOTAL CASH OPERATING EXPENSES RETURNS OVER CASH OPERATII	NG EXPENSES				\$2,827.83 \$404.31	

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

<sup>\*\*</sup> A water assessment charge of \$10.14 per Acre is included as an ownership cost in Table B.

Table 4B. Allocations of Ownership Costs; Carrots, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Carrots ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 1,046.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 9/12/01

Item	CASH COST BAS Income and Costs	IS (\$/ACRE) Net Returns	TOTAL COST BASIS (\$/ACRE) Income and Costs Net Returns	
TOTAL INCOME at \$3.09 / Ct TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$3,232.14 \$2,827.83	\$404.31	\$3,232.14 \$2,827.83 \$404.31	
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead ( 5.0% of Total Operating Exp.) General Farm Maintenance ( 3.0% of Total Operating Exp.)	4.98 141.39 84.84		4.98 141.39 84.84	
Total Cash Overhead Expenses	231.21		231.21	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity)	3,059.04	\$173.10	3,059.04 \$173.10	
Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles			27.51 13.33	
Total Capital Allocations  RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK  RETURNS TO LAND, MANAGEMENT AND RISK		> \$173.10 	40.84 > \$132.26	
Land Cost / Rent or Lease Water Assessment **	200.00 10.14		200.00 10.14	
Total Land Costs  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO MANAGEMENT AND RISK	210.13	> (\$37.04)	210.13> (\$77.88)	
Management Services ( 8% of Total Operation Expenses)			226.23	
TOTAL OWNERSHIP COST	441.34		708.41	
TOTAL COST  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO RISK (PROFITS)	\$3,269.18 	> (\$37.04)	\$3,536.24 > (\$304.10)	
ltem	CASH COST BASI Income and Costs	S (\$/ACRE) Net Retums	TOTAL COST BASIS (\$/ACRE) Income and Costs Net Returns	
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$2.70 \$0.42 \$3.13	\$2.70 \$0.68 \$3.38	

Table 4C. Variable Operating Costs; Carrots, 2001

COUNTY: Maricopa FARM: Maricopa Veg TILLAGE: Double Crop WATER SOURCE: Salt River Project CROP: Carrots ACRES: IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam 1.0 AREA: 1,046.0 Ct / Acre PREVIOUS CROP: 9/12/Ó1 Salt River Project YIELD: Wheat, Winter DATE:

	First		Hour	s *	Operati	ng Costs	(\$/ACRE *	Per Oper	ation		Tot. Cash		
No.	Mont	h Operation	Machine	Labor	Fuel/Rps.		Cust/Serv.		Total	Times	Expenses	Class	
1	Jul	Rip	0.450	0.500	7.10	4.87			11.97	0.5	5.98	L	
2	Jul	Plow	0.450	0.500	6.50	4.87			11.37	1.0	11.37	L	
3	Jul	Disk	0.225	0.250	3.43	2.44			5.86	2.0	11.73	L	
4	Jul	Laser Level	0.450	0.500	5.54	4.87			10.42	0.5	5.21	L	
5	Aug	Soil Fertility					3.00		3.00	1.0	3.00	G	
6	Aug	Apply Fert/Ground	0.112	0.125	1.13	1.22		39.72	42.06	1.0	42.06	G	
7	Aug	List/Inject	0.225	0.250	3.50	2.44		97.41	103.35	1.0	103.35	L	
8	Aug	Plant	0.450	1.000	3.38	9.75		46.51	59.64	1.0	59.64	L	
9	Aug	Set Sprinklers	0.158	0.350	0.90	3.41			4.31	1.0	4.31	G	
10	Aug	Irrigate/Sprinkler		0.091		0.89			0.89	3.0	2.66	G	
11	Aug	Remove Sprinklers	0.158	0.350	0.90	3.41			4.31	1.0	4.31	G	
12	Aug	Apply Herbicide/Ground	0.090	0.100	0.77	0.97		66.28	68.03	1.0	68.03	G	
13	Aug	Buck Rows	0.045	0.050	0.34	0.49			0.82	4.0	3.30	G	
14	Aug	Irrigate		0.800		7.80		5.72	13.52	8.0	108.14	G	
15	Aug	Disk Ends	0.045	0.050	0.41	0.49			0.90	3.0	2.70	G	
16	Aug	Cultivate	0.225	0.250	1.90	2.44			4.34	4.0	17.36	G	
17	Oct	Apply Fert/Ground	0.257	0.286	3.47	2.79		14.98	21.23	2.0	42.46	G	
18	Nov	Prepare Ends	0.023	0.025	0.21	0.24			0.45	1.0	0.45	Н	
19	Nov	Harvest 1046 Ct					1046.00	1050.34	2096.34	1.0	2096.34	Н	
20	Nov	Haul, Custom 1046 Ct					188.28		188.28	1.0	188.28	Н	
21	Dec	Disk Residue 1046 Ct	0.150	0.167	2.28	1.63			3.91	1.0	3.91	L	
		Pickup Use 50 Mi/Acre	1.667		12.71						12.71		
		Operating Interest at 10.0					20.31				20.31		
		TOTAL CASH OPERATING	EXPENSE	S (includes	all times over):						2827.83	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 \$10.14 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY B	BY CLASS	SENSITIV	ITY OF THE	NET REVE	NUES OVE	R TOTAL CAS	SH EXPENS	ES (\$/ACR	E)
Land Preparation (L)	201.19	Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	•
Growing (G)	308.56	Yields		\$2.32	\$2.78	\$3.09	\$3.40	\$3.86	Break-even Price
Harvest (H)	2,285.07								
Post Harvest (P)	0.00	- 25%	784.5	-407.94	-44.33	198.08	440.49	804.11	2.84
Marketing (M)	0.00	- 10%	941.4	-387.09	49.25	340.14	631.03	1,067.37	2.73
Operating Overhead (O)	33.02	Budgeted	1,046.0	-373.19	111.63	434.85	758.06	1,242.88	2.67
		+ 10%	1,150.6	-359.28	174.02	529.56	885.09	1,418.39	2.63
Total (T)	\$2,827.83								
		Break-even `	Yield	3,853.60	858.83	565.73	421.78	305.27	

Table 4D. Resource and Cash Flow Requirements; Carrots, 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: TILLAGE: Double Crop Salt River Project CROP: Carrots Sandy-Loam IRRIGATION SYSTEM: Flood Furrow SOIL: Salt River Project 1,046.0 Ct / Acre PREVIOUS CROP: DATE: 9/12/01 AREA: YIELD: Wheat, Winter

	Manada a a	Water	T-4-1		Fred Oil	Operatin	g Costs (\$/A				
Month *	Number Irrigations	Applied (inches)	Total Labor (Hrs)	Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total	
JUL C AUG C	5.0	27.0	1.50 5.45	2.50	19.67 13.22	14.62 53.11	203.41	46.51	3.00	34.29 321.75	
SEP C OCT C NOV C DEC C	2.0 2.0 2.0	12.0 12.0 12.0	2.05 2.44 1.91 0.17	10.00 10.00 15.75	10.89 7.61 3.67 2.28	19.98 23.75 18.63 1.63	14.98 14.98	1050.34	1234.28	40.87 56.33 2337.65 3.91	
Pickup Use :	erest at 10.0		0.17	**	12.71	1.00			20.31	12.71 20.31	
Total %	11.0	63.0	13.51	38.25 1.35	70.05 2.48	131.72 4.66	233.37 8.25	1096.85 38.79	1257.59 44.47	2820.99 100.00	
TOTAL RES Total N Total P Total Labo Total Wate		UIREMENTS 154.2 60.0 13.5 63.0	S (per Acre)	TOTAL ENEF Diesel Fu Unleaded All Direct	l Gas	ENTS (per Ac 24.8 Gal 5.0 Gal 4.1 M E	,				
Bed Shap Fertilizer I Lister, 5 B Offset Dis Saddle Tk Tractor, 6	Broadcaster, ottom	0. 0. 0. 0. 8 0.	Acre) 45 Hr .11 Hr 22 Hr 60 Hr .09 Hr .32 Hr .27 Hr	Cultivator, Sweep, 4 Fertilizer Injector, 4 Moldboard Plow, 4- Pickup Truck, 1/2 T Sprinkler Trailer Tractor, 80 PTO H Tractor, 175 PTO H	Row 0. 16 2 0. fon 1. 0. P 1.	90 Hr 74 Hr 15 Hr 67 Hr 32 Hr 78 Hr 22 Hr	Offset Disk Rowbuck,	mplete System k, 10.5' 10' Heavy Duty, 7	0.22 Hr 0.22 Hr 0.16 Hr 0.18 Hr 0.22 Hr 0.85 Hr		
16-20-00,	ed (Raw/Hybr	" 300. id) 200.	re) 00 Lb 00 Th 00 Al	32-00-00, URAN 32 Dichloropropene		00 Ga 00 Ga	Boxes & S Linuron	upplies	1046.00 Ct 1.00 Ga		
LABOR REC Irrigators	QUIREMENT (		02 Hr	Other	1.9	90 Hr	Tractor		4.59 Hr		

<sup>\*</sup>NOTE: P = Previous Year C = Current Year N = Next Year

<sup>\*\*</sup> A water assessment charge of \$10.14 per Acre is included as an ownership cost in Table B.

Table 4E. Schedule of Operations; Carrots, 2001

COUNTY: Maricopa FARM: Maricopa Veg TILLAGE: Double Crop WATER SOURCE: Salt River Project CROP: Carrots ACRES: Sandy-Loam 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: AREA: Salt River Project 1,046.0 Ct / Acre PREVIOUS CROP: DATE: 9/12/01 YIELD: Wheat, Winter

First No. Month Ti	mes Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Material Name	Use and Co Appl. R		\$ / Unit	Service Cost \$ / Unit	Labor Type
Jul	0.5 Rip	175 Subsoiler, Heavy Duty, 7	2.00						Tractor
Jul	1.0 Plow	150 Moldboard Plow, 4-16 2	2.00						Tractor
Jul	2.0 Disk	150 Offset Disk, 16.5'	4.00						Tractor
Jul	0.5 Laser Level	150 Drag Scraper, 14' Laser, Complete System	2.00						Tractor
Aug	1.0 Soil Fertility	CST Soil Analysis (Surface)						3.00 Ac	;
Aug	1.0 Apply Fert/Ground	100 Fertilizer Broadcaster,	8.00	16-20-00, Dry	300.00		250.50 T	n	Tractor
Aug	1.0 List/Inject	100 Lister, 5 Bottom Fertilizer Injector, 4 Row	4.00	Dichloropropene	9.00 (	Ga .	10.24 G	a	Tractor
Aug	1.0 Plant	80 Bed Shaper, 4 Rw	2.00	Carrot Seed	200.00	Th	0.22 T	h	Tractor Other
Aug	1.0 Set Sprinklers	60 Sprinkler Trailer	5.70						Irrigators Other
Aug	3.0 Irrigate/Sprinkler		11.00	Water, District	5.00	Al	0.00 A	F	Irrigators
Aug	1.0 Remove Sprinklers	60 Sprinkler Trailer	5.70						Irrigators Other
Aug	1.0 Apply Herbicide/Ground	80 Saddle Tk Sprayer, 2 Tk 8	10.00	Linuron	1.00 (	Ga G	62.71 G	а	Tractor
Aug	4.0 Buck Rows	80 Rowbuck, 10'	20.00						Tractor
Aug	8.0 Irrigate		1.25	Water, District	6.00	Al	11.44 A	F	Irrigators
Aug	3.0 Disk Ends	80 Offset Disk, 10.5'	20.00						Tractor
Aug	4.0 Cultivate	80 Cultivator, Sweep, 4 Rw	4.00						Tractor
Oct	2.0 Apply Fert/Ground	100 Fertilizer Injector, 4 Row	3.50	32-00-00, URAN 32,	15.00 (	Ga 1	70.80 T	n	Tractor
Nov	1.0 Prepare Ends	80 Offset Disk, 10.5'	40.00						Tractor
Nov	1.0 Harvest	CST Harvest Carrots	I	Boxes & Supplies	1046.00	Ct	0.95 C	t 1.00 Ct	t
Nov	1.0 Haul, Custom	CST Harv/pack/haul Carrots						0.18 Ct	t
Dec	1.0 Disk Residue Pickup use 50 Mi/Ac	150 Offset Disk, 16.5' Pickup Truck, 1/2 Ton	6.00 0.60						Tractor

<sup>\*</sup>NOTES: Machine times, labor times, and material rates are for one time over the designated acreage.

Table 4F. Operations Calendar; Carrots, 2001COUNTY: MaricopaFARM: Maricopa Veg SRP TILLAGE: Double Crop WATER SOURCE: CROP: Carrots
AREA: Salt River Project ACRES: 1.0 YIELD: 915 Ct/Acre Sandy-Loam 09/17/2001 SOIL IRRIGATION SYSTEM: Flood Furrow PREVIOUS CROP: Wheat. Winter DATE:

·		·	 			Mont	h and Tii	nes Ope	ration Per	rformed -				
No.	Operation		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip								0.5 C					
2	Plow								1.0 C					
3	Disk								2.0 C					
4	Laser Level								0.5 C					
5	Soil Fertility									1.0 C				
6	Apply Fert/Ground									1.0 C				
7	List/Inject									1.0 C				
8	Plant									1.0 C				
9	Set Sprinkler									1.0 C				
10	Irrigate/Sprinkler									3.0 C				
11	Remove Sprinkler									1.0 C				
12	Apply Herbicide/Ground									1.0 C				
13	Buck Rows									1.0 C	2.0 C	1.0 C		
14	Irrigate									2.0 C	2.0 C	2.0 C	2.0 C	
15	Disk Ends									1.0 C	2.0 C			
16	Cultivate									1.0 C	1.0 C	2.0 C		
17	Apply Fert/Ground										1.0 C	1.0 C		
18	Prepare Ends												1.0 C	
19	Harvest												1.0 C	
20	Haul, Custom												1.0 C	
21	Disk Residue													1.0 C

#### Table 5A. Income and Cash Operating Summary; Cauliflower (Transplant), 2001

COUNTY: Maricopa CROP: Cauliflower FARM: Maricopa Veg ACRES: 1.0 WATER SOURCE: Roosevelt Irrigation TILLAGE: Double Crop IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam 816.0 Ct / Acre AREA: Roosevelt ID YIELD: PREVIOUS CROP: DATE: 9/11/01 Pimento

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Cauliflower	Crtn	816.00	\$7.74	\$6,315.84	\$6,315.84	
CASH LAND PREPARATION AND GROW Paid Labor (including benefits) Tractor/Self Propelled Irrigation Other/ Contract	/ING EXPENSES (incl	uding sales tax)		52.54 77.99 58.49	189.02	
Chemicals and Custom Applications Fertilizer Insecticide Herbicide				123.71 289.80 3.30	416.80	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance Irrigation Water (excluding labor)				17.75 27.77	45.52 66.67	
Water Assessment (See Note Below) ** Other Purchased Inputs & Seed/Transplants Other Services and Rentals				309.17 78.00	387.17	
CASH HARVEST AND POST HARVEST E		PARATION AND GROWIN	IG EXPENSES		1105.19	
		OST HARVEST EXPENSE	<u> </u>		2856.00 470.12 3326.12	
OPERATING OVERHEAD -> PICKUP USI OPERATING INTEREST AT 10.0%	E				10.17 14.64	
TOTAL CASH OPERATING EXPENSES RETURNS OVER CASH OPERATIN	IG EXPENSES				\$4,456.12 \$1,859.72	

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

<sup>\*\*</sup> A water assessment charge of \$7.50 per Acre is included as an ownership cost in Table B.

#### Table 5B. Allocations of Ownership Costs; Cauliflower (Transplant), 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Roosevelt Irrigation TILLAGE: Double Crop CROP: Cauliflower ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Roosevelt ID YIELD: 816.0 Ct / Acre PREVIOUS CROP: Pimento DATE: 9/11/01

Item	CASH COST BAS Income and Costs	SIS (\$/ACRE) Net Returns	TOTAL COST BAS Income and Costs	GIS (\$/ACRE) Net Returns
TOTAL INCOME at \$7.74 / Ct TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$6,315.84 \$4,456.12	\$1,859.72	\$6,315.84 \$4,456.12	\$1,859.72
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead ( 5.0% of Total Operating Exp.) General Farm Maintenance ( 3.0% of Total Operating Exp.)	5.28 222.81 133.68		5.28 222.81 133.68	
Total Cash Overhead Expenses	361.77		361.77	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity)	4,817.89	\$1,497.95	4,817.89	\$1,497.95
Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles			29.00 13.88	
Total Capital Allocations  RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK  RETURNS TO LAND, MANAGEMENT AND RISK		> \$1,497.95	42.87	> \$1,455.08
Land Cost / Rent or Lease Water Assessment **	200.00 7.50		200.00 7.50	
Total Land Costs  RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK			207.50	· \$1,247.58
Management Services ( 8% of Total Operation Expenses)			356.49	
TOTAL OWNERSHIP COST	569.27		968.63	
TOTAL COST  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO RISK (PROFITS)	\$5,025.39 	> \$1,290.45	\$5,424.75 	· \$891.09
Item	CASH COST BAS Income and Costs		TOTAL COST BASI Income and Costs	S (\$/ACRE) Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$5.46 \$0.70 \$6.16		\$5.46 \$1.19 \$6.65

Table 5C. Variable Operating Costs; Cauliflower (Transplant), 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: TILLAGE: Double Crop Roosevelt Irrigation CROP: Cauliflower ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: YIELD: 816.0 Ct / Acre PREVIOUS CROP: Pimento 9/11/Ó1 Roosevelt ID DATE:

	First		Hour	s *	Operati	na Costs	(\$/ACRE *	) Per Opera	ation		Tot. Cash		
No.	Mont	h Operation	Machine	Labor	Fuel/Rps.		Cust/Serv.		Total	Times	Expenses	Class	
1	Aug	Rip	0.450	0.500	5.71	4.87			10.59	0.5	5.30	L	
2	Aug	Plow	0.180	0.200	2.85	1.95			4.80	1.0	4.80	L	
3	Aug	Disk	0.090	0.100	1.37	0.97			2.35	3.0	7.05	L	
4	Aug	Laser Level	0.450	0.500	5.54	4.87			10.42	0.5	5.21	L	
5	Aug	Apply Fert/Ground	0.015	0.017	0.17	0.16		57.78	58.11	1.0	58.11	G	
6	Aug	List	0.225	0.250	2.02	2.44			4.46	1.0	4.46	L	
7	Aug	Soil Fertility					3.00		3.00	1.0	3.00	G	
8	Aug	Apply Herbicide/Ground	0.225	0.250	1.15	2.44		81.04	84.63	1.0	84.63	G	
9	Aug	Mulch	0.225	0.250	3.53	2.44			5.97	1.0	5.97	L	
10	Sep	Transplant	0.900	2.000	8.63	19.50		309.17	337.30	1.0	337.30	L	
11	Sep	Buck Rows	0.022	0.025	0.09	0.24			0.34	1.0	0.34	G	
12	Sep	Irrigate		0.800		7.80		6.67	14.47	10.0	144.70	G	
13	Sep	Cultivate	0.300	0.333	1.99	3.25			5.24	3.0	15.71	G	
14	Sep	Apply Fert/Inject	0.300	0.333	2.99	3.25		32.96	39.20	2.0	78.40	G	
15	Sep	Hand Weeding					75.00		75.00	1.0	75.00	G	
16	Sep	Apply Insect./Ground	0.180	0.200	0.96	1.95		37.91	40.82	4.0	163.28	G	
17	Sep	Apply Insect./Ground	0.015	0.017	0.09	0.16		30.21	30.46	2.0	60.91	G	
18	Nov	Harvest 816 Ct					2652.00	470.12	3122.12	1.0	3122.12	Н	
19	Nov	Haul, Custom 816 Ct					204.00		204.00	1.0	204.00	Н	
20	Jan	Disk Residue 816 Ct	0.090	0.100	1.37	0.97			2.35	1.0	2.35	L	
		Pickup Use 40 Mi/Acre	1.333		10.17						10.17		
		Operating Interest at 10.0					14.64				14.64		
		TOTAL CASH OPERATING	EXPENSE	S (includes	all times over):						4456.12	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 \$7.50 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY	/ CLASS	SENSITIVIT	Y OF THE N	ET REVEN	UES OVER	TOTAL CASI	H EXPENSE	S (\$/ACRE	)
Land Preparation (L)	372.41	Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	,
Growing (G)	732.78	Yields		\$5.80	\$6.97	\$7.74	\$8.51	\$9.67	Break-even Price
Harvest (H)	3,326.12								-
Post Harvest (P)	0.00	- 25%	612.0	-8.54	701.99	1,175.68	1,649.36	2,359.90	5.82
Marketing (M)	0.00	- 10%	734.4	203.07	1,055.71	1,624.13	2,192.56	3,045.20	5.53
Operating Overhead (O)	24.81	Budgeted	816.0	344.14	1,291.52	1,923.10	2,554.69	3,502.06	5.38
, , ,		+ 10%	897.6	485.22	1,527.33	2,222.08	2,916.82	3,958.93	5.26
Total (T)	\$4,465.12	+ 25%	1,020.0	696.83	1,881.05	2,670.53	3,460.01	4,644.23	5.12
		Break-even `	Yield	616.94	369.09	291.12	240.34	190.51	

Table 5D. Resource and Cash Flow Requirements; Cauliflower (Transplant), 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: Roosevelt Irrigation TILLAGE: Double Crop CROP: Cauliflower IRRIGATION SYSTEM: Flood Furrow Sandy-Loam SOIL: DATE: 9/11/01 AREA: YIELD: 816.0 Ct / Acre PREVIOUS CROP: Roosevelt ID Pimento

		Water				Opera	ting Costs (\$//				
	Number	Applied	Total	Purchased	Fuel, Oil			Other			
Month *	Irrigations	(inches)	Labor (Hrs)	Water	and Repairs	Laboi	r Chemicals	Purchases	Services	Total	
AUG C			1.77		19.46	17.2			3.00	178.51	
SEP C	4.0	16.0	11.64	26.67	17.70	113.4		309.17	75.00	681.01	
OCT C	3.0	12.0	3.47	20.00	6.90	33.7				169.47	
NOV C	2.0	8.0	1.62	13.33	0.09	15.7		470.12	2856.00	3385.51	
DEC C	1.0	4.0	0.80	6.67		7.8				14.47	
JAN N			0.10	ļ	1.37	0.9	7			2.34	
Pickup Use					10.17					10.17	
	erest at 10.0								14.64	14.64	
Water Asses	ssment			**							
Total	10.0	40.0	19.39	66.67	55.69	189.0	02 416.81	779.29	2948.64	4456.12	
%			.0.00	1.50	1.25	4.2		17.49	66.17	100.00	
TOTAL RES Total N Total P Total Labo Total Wate	or	UIREMENTS ( 196.5 208.0 19.4 40.0	(per Acre)	TOTAL ENEF Diesel Fu Unleaded All Direct	Gas	20.9 ( 4.0 (	Acre) Gal Gal M BTU				
		IENTS (per Acı		0 111 1 0	4.5		D: 1 10	D: 0	0.00 11		
Bed Shap	er, 4 RW		2 Hr 2 Hr	Cultivator, Sweep, 4 Fertilizer Injector, 4		90 Hr 80 Hr		Spray Rig, 8	0.22 Hr 0.01 Hr		
Drag Scra	aper, 14 Irance Sprayer		2 m 3 Hr	Laser, Complete Sy		оп 2 Hr	Lister. 5 B	Spreader, 28'	0.01 Hr 0.22 Hr		
	d Plow, 5-16 2		B Hr	Offset Disk, 16.5'		2 111 36 Hr	,	uck, 1/2 Ton	1.33 Hr		
	ulcher, 6 Rw		2 Hr	Rowbuck, 10'		02 Hr		Sprayer, 2 Tk 8	0.72 Hr		
	50 PTO HP,		7 Hr	Tractor, 60 PTO HI		)1 Hr		0 PTO HP.	1.80 Hr		
	BO PTO HP,		) Hr	Tractor, 100 PTO H		2 Hr		25 PTO HP,	0.22 Hr		
,	50 PTO HP,		) Hr	Transplanter, Veg,		00 Hr	V-Ripper,		0.22 Hr		
MATERIALS	REQUIREME	ENT (per Acre)	)								
11-52-00,		" 400.00		33-00-00, Amm. Nit		0 Ga		Cauliflower	563.00 Ct		
Cauliflow			) Th	Cypermethrin		0 Oz	Imidaclop		16.00 Oz	<u>.</u>	
Methomy		16.00		Spinosad	12.0	0 Oz	Trifluralin		1.00 Pt		
Water, Di	strict	40.00	) Al								
	QUIREMENT (						_				
Irrigators		8.00	) Hr	Other	6.0	00 Hr	Tractor		5.39 Hr		

<sup>\*</sup>NOTE: P = Previous Year C = Current Year N = Next Year

<sup>\*\*</sup> A water assessment charge of \$7.50 per Acre is included as an ownership cost in Table B.

Table 5E. Schedule of Operations; Cauliflower (Transplant), 2001

COUNTY: Maricopa CROP: Cauliflower FARM: Maricopa Veg TILLAGE: Double Crop WATER SOURCE: Roosevelt Irrigation ACRES: IRRIGATION SYSTEM: Flood Furrow Sandy-Loam 1.0 SOIL: 816.0 Ct / Acre PREVIOUS CROP: DATE: 9/11/01 AREA: Roosevelt ID YIELD: Pimento

First No. Month	Times Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Material Us Name	se and Co Appl. F				Service Cost \$ / Unit	Labor Type
Aug	0.5 Rip	150 V-Ripper, 5 Shnk	2.00							Tractor
Aug	1.0 Plow	150 Moldboard Plow, 5-16 2	5.00							Tractor
Aug	3.0 Disk	150 Offset Disk, 16.5'	10.00							Tractor
Aug	0.5 Laser Level	150 Drag Scraper, 14' Laser, Complete System	2.00							Tractor
Aug	1.0 Apply Fert/Ground	60 Fertilizer Spreader, 28'	60.00	11-52-00, Dry	400.00	Lb	273.33	Tn		Tractor
Aug	1.0 List	100 Lister, 5 Bottom	4.00	-						Tractor
Aug	1.0 Soil Fertility	CST Soil Analysis (Surface)							3.00 Ac	;
Aug	1.0 Apply Herbicide/Ground	50 Directed Spray Rig, 8 Row	4.00	Trifluralin	1.00	Pt	24.95	Ga		Tractor
Ü	,	. , 5,	1	midacloprid	16.00	Oz	588.40	Ga		
Aug	1.0 Mulch	125 Power Mulcher, 6 Rw Bed Shaper, 4 Rw	4.00	·						Tractor
Sep	1.0 Transplant	70 Transplanter, Veg. 4Row	1.00	Cauliflower Trans	9.00	Th	32.50	Th		Tractor
	·	, ,								Other
Sep	1.0 Buck Rows	50 Rowbuck, 10'	40.00							Tractor
Sep	10.0 Irrigate	,	1.25	Water, District	4.00	Αl	20.00	AF		Irrigators
Sep	3.0 Cultivate	70 Cultivator, Sweep, 4 Rw	3.00	,,						Tractor
Sep	2.0 Apply Fert/Inject	80 Fertilizer Injector, 4 Row		33-00-00, Amm. Nitrate,	22.00	Ga	270.00	Tn		Tractor
Sep	1.0 Hand Weeding	CST Hand Weeding		, , , , , , , , , , , , , , , , , , , ,					75.00 Ac	
Sep	4.0 Apply Insect./Ground	50 Saddle Tk Sprayer, 2 Tk 8	5.00	Cypermethrin	5.00	Oz	291.66	Ga		Tractor
- 90	44.7555 5.55	:: :::::::::::::::::::::::::::::::::::		Methomyl	4.00		48.94			
Sep	2.0 Apply Insect./Ground	High Clearance Sprayer, 18		Spinosad	6.00		609.67			Tractor
Nov	1.0 Harvest	CST Harv/pack/haul		Boxes for Cauliflower	563.00			Ct	3.25 Ct	
Nov	1.0 Haul, Custom	CST Haul Produce	•		555.50	٠.	3 0	•.	0.25 Ct	
Jan	1.0 Disk Residue	150 Offset Disk, 16.5'	10.00						3.20 0	Tractor
J	Pickup use 40 Mi/Ac	Pickup Truck, 1/2 Ton	0.75							

<sup>\*</sup>NOTES: Machine times, labor times, and material rates are for one time over the designated acreage.

Table 5F. Operations Calendar; Cauliflower (Transplant), 2001COUNTY: MaricopaFARM: Maricopa VegWAT WATER SOURCE: TILLAGE: Double Crop Roosevelt ID ACRES: 1.0 YIELD: 816 Ct/Acre Sandy-Loam 09/17/2001 CROP: Cauliflower SOIL IRRIGATION SYSTEM: Flood Furrow AREA: Roosevelt ID PREVIOUS CROP: Pimento DATE:

		-				Mont	h and Tir	nes Ope	ration Pe	rformed -				
No.	Operation	J	lan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip									0.5 C				
2	Plow									1.0 C				
3	Disk									2.0 C				
4	Laser Level									0.5 C				
5	Soil Fertility									1.0 C				
6	Apply Fert/Ground									1.0 C				
7	List									1.0 C				
8	Apply Herbicide/Ground									1.0 C				
9	Mulch									1.0 C				
10	Transplant										1.0 C			
11	Buck Rows										1.0 C			
12	Irrigate										4.0 C	3.0 C	2.0 C	1.0 C
13	Cultivate										2.0 C	1.0 C		
14	Apply Fert/Inject										1.0 C	1.0 C		
15	Hand Weeding										1.0 C			
16	Apply Insect./Ground										2.0 C	2.0 C		
17	Apply Insect./Ground										1.0 C		1.0 C	
18	Harvest												1.0 C	
19	Haul, Custom												1.0 C	
20	Disk Residue													1.0 C

<sup>\*</sup> NOTE: P = Previous Year C = Current Year N = Next Year

#### Table 6A. Income and Cash Operating Summary; Dry Onions, 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: Salt River Project TILLAGE: Conventional CROP: Onions, Dry Sandy-Loam IRRIGATION SYSTEM: Flood Furrow SOIL: Salt River Project 928.0 Sk / Acre Sorghum Silage DATE: 9/20/01 AREA: YIELD: PREVIOUS CROP:

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Onions	Sack	928.00	\$4.67	\$4,333.76	\$4,333.76	
CASH LAND PREPARATION AND GR Paid Labor (including benefits) Tractor/Self Propelled Irrigation Other/ Contract	OWING EXPENSES (incl	uding sales tax)		46.95 58.49 9.75	115.19	
Chemicals and Custom Applications Fertilizer Insecticide Herbicide				108.10 8.20 93.45	209.76	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance Irrigation Water (excluding labor) Water Assessment (See Note Below	/) **			18.94 29.39	48.33 17.50	
Other Purchased Inputs & Seed/Transplants Other Services and Rentals	,		IO EVENOCO	940.73 3.00	943.73	
CASH HARVEST AND POST HARVES	OTAL CASH LAND PREF TEXPENSES	PARATION AND GROWIN	NG EXPENSES		1334.50	
Paid Labor (including benefits) Tractor/Self Propelled				0.49	0.49	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				0.19 0.29	0.48	
Custom Harvest/Post Harvest Other Materials					3064.64 878.52	
TOPERATING OVERHEAD -> PICKUP OPERATING INTEREST AT 10.0%	OTAL HARVEST AND POUSE	OST HARVEST EXPENSE	Ē		3944.13 15.25 66.22	
TOTAL CASH OPERATING EXPENSE RETURNS OVER CASH OPERA					\$5,360.10 (\$1,026.34)	

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

<sup>\*\*</sup> A water assessment charge of \$20.27 per Acre is included as an ownership cost in Table B.

#### Table 6B. Allocations of Ownership Costs; Dry Onions, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Conventional CROP: Onions, Dry ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 928.0 Sk / Acre PREVIOUS CROP: Sorghum Silage DATE: 9/20/01

Item	CASH COST BAS Income and Costs	IS (\$/ACRE) Net Returns	TOTAL COST BA Income and Costs	SIS (\$/ACRE) Net Returns
TOTAL INCOME at \$4.67 / Sk TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$4,333.76 \$5,360.10	(\$1,026.34)	\$4,333.76 \$5,360.10	(\$1,026.34)
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead ( 5.0% of Total Operating Exp.) General Farm Maintenance ( 3.0% of Total Operating Exp.)	6.05 268.01 160.80		6.05 268.01 160.80	
Total Cash Overhead Expenses	434.86		434.86	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity)	5,794.96	(\$1,461.20)	5,794.96	(\$1,461.20)
Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles			32.61 17.79	
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK		-> (\$1,461.20)	50.40	-> (\$1,511.60)
Land Cost / Rent or Lease Land Cost / Ownership (100% Equity) Property Taxes (\$619.00 X 16.0% X 0 ) Opportunity Interest on Land (100% X 6.0 X \$619.00)	200.00		200.00	
Water Assessment **	20.27		20.27	
Total Land Costs  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO MANAGEMENT AND RISK	220.27	> (\$1,681.47)	220.27	-> (\$1,731.87)
Management Services ( 8% of Total Operation Expenses)			428.81	
TOTAL OWNERSHIP COST	655.13		1,134.33	
TOTAL COST  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO RISK (PROFITS)	\$6,015.23 	-> (\$1,681.47)	\$6,494.44	> (\$2,160.68)
Item	CASH COST BASI Income and Costs	S (\$/ACRE) Net Returns	TOTAL COST BAS Income and Costs	SIS (\$/ACRE) Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$5.78 \$0.71 \$6.48		\$5.78 \$1.22 \$7.00

Table 6C. Variable Operating Costs; Dry Onions, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Conventional CROP: Onions, Dry ACRES: Sandy-Loam 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: 928.0 Sk / Acre AREA: Salt River Project YIELD: PREVIOUS CROP: Sorghum Silage DATE: 9/20/01

	First		Hour	's *	Operati	ng Costs	(\$/ACRE *)	Per Opera	ation		Tot. Cash		
No.	Mont	h Operation	Machine	Labor	Fuel/Rps.	Labor (	Cust/Serv.	Materials	Total	Times	Expenses	Class	
1	Sep	Rip	0.450	0.500	5.71	4.87			10.59	0.5	5.29	L	
2	Sep	Plow	0.450	0.500	6.50	4.87			11.37	1.0	11.37	L	
3	Sep	Disk	0.150	0.167	2.28	1.62			3.91	2.0	7.82	L	
4	Sep	Laser Level	0.450	0.500	5.54	4.87			10.42	0.5	5.21	L	
5	Sep	Soil Fertility					3.00		3.00	1.0	3.00	G	
6	Sep	Apply Fert/Ground	0.180	0.200	1.06	1.95		48.20	51.21	1.0	51.21	G	
7	Oct	List	0.225	0.250	2.02	2.44			4.46	1.0	4.46	L	
8	Oct	Plant	0.900	2.000	13.22	19.50		940.73	973.44	1.0	973.44	L	
9	Oct	Apply Herbicide/Ground	0.225	0.250	1.15	2.44		65.32	68.91	1.0	68.91	G	
10	Oct	Buck Rows	0.045	0.050	0.19	0.49			0.68	2.0	1.36	G	
11	Oct	Irrigate		0.400		3.90		1.17	5.07	15.0	75.99	G	
12	Oct	Disk Ends	0.045	0.050	0.27	0.49			0.76	2.0	1.51	G	
13	Oct	Cultivate	0.225	0.250	1.49	2.44			3.93	2.0	7.86	G	
14	Nov	Apply Herbicide/Ground	0.225	0.250	1.15	2.44		28.13	31.72	1.0	31.72	G	
15	Feb	Apply Fert/Ground	0.300	0.333	3.42	3.25		29.95	36.62	2.0	73.23	G	
16	Mar	Apply Insecticide/Air					4.24	3.96	8.20	1.0	8.20	G	
17	Apr	Prepare Ends	0.045	0.050	0.48	0.49			0.97	1.0	0.97	Н	
18	May	Dig					11.52		11.52	1.0	11.52	Н	
19	May	Harvest 928 Sk					2013.76	505.77	2519.53	1.0	2519.53	Н	
20	May	Field Grade 928 Sk					928.00	372.74	1300.74	1.0	1300.74	Н	
21	May	Haul, Custom 928 Sk					111.36		111.36	1.0	111.36	Н	
22	Jun	Disk Residue 928 Sk	0.150	0.167	2.28	1.63			3.91	1.0	3.91	L	
		Pickup Use 60 Mi/Acre	2.000		15.25						15.25		
		Operating Interest at 10.0					66.22				66.22		
		TOTAL CASH OPERATING	EXPENSE	S (includes	all times over):						5360.10	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 \$20.27 per Acre is included as an ownership cost in Table B.

# OPERATING COST SUMMARY BY CLASS Land Preparation (L) SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE) Prices -> -25% -10% Budgeted +10% +25%

Growing (G) 323.00 Yields \$3.50 \$4.20 \$4.67 \$5.14 \$5.84 Break-even Price Harvest (H) 3.944.13 -1.870.11 -1.382.56 -732.50 -244.95 6.19 Post Harvest (P) 0.00 - 25% 696.0 -1.057.53 Marketing (M) 0.00 - 10% 835.2 -1,974.18 -1,389.12 -999.09 -609.05 -23.99 5.87 -2,043.56 -1,393.50 Operating Overhead (O) 81.47 Budgeted 928.0 -960.12 -526.75 123.32 5.70 + 10% 1,020.8 -2,112.94 -1,397.87 -921.16 -444.45 270.62 5.57 Total (T) \$5,360.1 Break-even Yield -1,805.37 -28,635.4 3,214.75 1,521.94 850.31

Table 6D. Resource and Cash Flow Requirements; Dry Onions, 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: Salt River Project TILLAGE: Conventional CROP: Onions, Dry IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam Salt River Project DATE: 9/20/01 AREA: YIELD: 928.0 Sk / Acre PREVIOUS CROP: Sorghum Silage

		Water				Operatir	g Costs (\$/A	CRE *)			
Month *	Number	Applied	Total	Purchased Water	Fuel, Oil	Labor	Chemicals	Other	Services	Total	
Month *	Irrigations	(inches)	Labor (Hrs)	vvater	and Repairs	Labor	Cnemicals	Purchases	Services	lotai	
SEP P			1.53		17.75	14.95	48.20		3.00	83.90	
OCT P	3.0	9.0	4.05	5.00	18.34	39.48	65.32	940.73	0.00	1068.88	
NOV P	3.0	9.0	1.50	7.50	1.34	14.62	28.13	0-10.70		51.60	
DEC P	2.0	6.0	0.80	5.00	1.04	7.80	20.10			12.80	
JAN C	2.0	6.0	1.05	5.00	1.49	10.24				11.73	
FEB C	2.0	6.0	1.18		3.69	11.53	29.95			45.17	
MAR C	2.0	6.0	1.13		3.42	11.05	33.91		4.24	52.62	
APR C	1.0	3.0	0.45		0.48	4.39	30.31		7.27	4.87	
MAY C	1.0	3.0	0.40		0.40	4.00		878.52	3064.64	3943.16	
JUN C			0.17		2.28	1.63		070.02	0001.01	3.91	
Pickup Use	60 Mi/Acre		0.17	•	15.25	1.00				15.25	
	terest at 10.0				10.20				66.22	66.22	
Water Asses				**					00.22	00. <u>LL</u>	
vater 7 tooco	onicit										
Total	15.0	45.0	11.87	17.50	64.06	115.68	205.52	1819.24	3138.66	5360.66	
%				0.33	1.20	2.16	3.83	33.94	58.55	100.00	
Total N Total P Total Labo Total Wate		252.4 212.0 11.9 45.0	(per rate)	Diesel Fu Unleaded All Direct	Gas 6	22.5 Ga 3.0 Ga	1				
FQUIPMEN	T REQUIREM	FNTS (per A	.cre)								
Bed Shap			90 Hr	Cultivator, Sweep, 4	1 Rw 0.45	5 Hr	Directed S	pray Rig, 8	0.45 Hr		
Drag Scra	aper, 14'	0.2	22 Hr	Fertilizer Broadcast	er, 0.18	3 Hr		njector, 4 Row	0.60 Hr		
Laser, Co	mplete Systen	າ 0.:	22 Hr	Lister, 5 Bottom	0.22	2 Hr	Moldboard	Plow, 4-16 2	0.45 Hr		
Offset Dis			09 Hr	Offset Disk, 13.5'		5 Hr	Offset Disk		0.45 Hr		
	uck, 1/2 Ton		00 Hr	Planter/Gramor, 4 B		) Hr	Rowbuck,		0.09 Hr		
	50 PTO HP,		63 Hr	Tractor, 70 PTO H		3 Hr	Tractor, 10	0 PTO HP,	1.77 Hr		
Tractor, 1	50 PTO HP,	1.3	35 Hr	V-Ripper, 5 Shnk	0.22	2 Hr					
MATERIALS	REQUIREME	ENT (per Acr	e)								
10-53-00,			0Ó Lb	32-00-00, URAN 32	, Lqd 60.00	) Ga	Bensulide		5.00 Pt		
Burlap Sa	icks		00 Sk	DCPA	10.00		Methyl Par	athion	1.00 Pt		
Onion Bag	gs 50# Mesh	928.0	00 Sk	Onion Seed (Pelletiz	zed) 1000.00	) Th	Water, Dis	strict	45.00 AI		
LABOR REC	QUIREMENT (	ner Acre)									
Irrigators	XON CIVILIAN (		00 Hr	Other	1.00	) Hr	Tractor		4.87 Hr		
		0.			1.00						

<sup>\*</sup>NOTE: P = Previous Year C = Current Year N = Next Year

<sup>\*\*</sup> A water assessment charge of \$20.27 per Acre is included as an ownership cost in Table B.

COUNTY: Maricopa CROP: Onions, Dry FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Conventional ACRES: Sandy-Loam 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: AREA: Salt River Project 928.0 Sk / Acre PREVIOUS CROP: Sorghum Silage DATE: 9/20/01 YIELD:

First No. Month	Times Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Material U Name	se and C Appl.		\$ / Uni		Service Cost \$ / Unit	Labor Type
Sep	0.5 Rip	150 V-Ripper, 5 Shnk	2.00						7	ractor
Sep	1.0 Plow	150 Moldboard Plow, 4-16 2	2.00						٦	「ractor
Sep	2.0 Disk	150 Offset Disk, 16.5'	6.00						٦	「ractor
Sep	0.5 Laser Level	150 Drag Scraper, 14' Laser, Complete System	2.00						٦	Fractor
Sep	1.0 Soil Fertility	CST Soil Analysis (Surface)							3.00 Ac	
Sep	1.0 Apply Fert/Ground	70 Fertilizer Broadcaster,	5.00	10-53-00, Dry	400.00	Lb	228.00	Tn	٦	「ractor
Oct	1.0 List	100 Lister, 5 Bottom	4.00						٦	「ractor
Oct	1.0 Plant	100 Planter/Gramor, 4 Bd,8	1.00	Onion Seed (Pelletized)	1000.00	Th	0.89	Th	٦	「ractor
		Bed Shaper, 4 Rw							(	Other
Oct	1.0 Apply Herbicide/Ground	50 Directed Spray Rig, 8 Row	4.00	DCPA	10.00	Lb	6.18	Lb	٦	「ractor
Oct	2.0 Buck Rows	50 Rowbuck, 10'	20.00						٦	「ractor
Oct	15.0 Irrigate		2.50	Water, District	3.00	Αl	4.67	AF	I	rrigators
Oct	2.0 Disk Ends	50 Offset Disk, 10.5'	20.00						٦	「ractor
Oct	2.0 Cultivate	70 Cultivator, Sweep, 4 Rw	4.00						٦	「ractor
Nov	1.0 Apply Herbicide/Ground	50 Directed Spray Rig, 8 Row	4.00	Bensulide	5.00		42.58		٦	「ractor
Feb	2.0 Apply Fert/Ground	100 Fertilizer Injector, 4 Row	3.00	32-00-00, URAN 32,	30.00		170.80		٦	「ractor
Mar	<ol><li>1.0 Apply Insecticide/Air</li></ol>	CST Air Spray, 3 Gal Mix	N	Methyl Parathion	1.00	Pt	30.00	Ga	4.24 Ac	
Apr	1.0 Prepare Ends	100 Offset Disk, 13.5'	20.00							「ractor
May	1.0 Dig	CST Digging							11.52 Ac	
May	1.0 Harvest	CST Cut/Top/Field Sack Dry	В	Burlap Sacks	957.00		0.50		2.17 Sk	
May	1.0 Field Grade	CST Grade/Size/Pack Onions		Onion Bags 50# Mesh	928.00	Sk	0.38	Sk	1.00 Sk	
May	1.0 Haul, Custom	CST Field Haul Dry Onions							0.12 Sk	
Jun	1.0 Disk Residue	150 Offset Disk, 16.5'	6.00						٦	「ractor
	Pickup use 60 Mi/Ac	Pickup Truck, 1/2 Ton	0.50							

<sup>\*</sup>NOTES: Machine times, labor times, and material rates are for one time over the designated acreage.

Table 6F. Operations Calendar; Dry Onions, 2001COUNTY:MaricopaFARM:Maricopa VegCROP:Onions, DryACRES:1.0AREA:Salt River ProjectYIELD:928 Sk/Acre SRP WATER SOURCE: TILLAGE: Conventional Sandy-Loam 09/17/2001 Flood Furrow SOIL: IRRIGATION SYSTEM: PREVIOUS CROP: Cantaloupe DATE:

					Month	n and Tir	nes Ope	ration Pe	erformed				
No.	Operation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip									0.5 P			
2	Disk									2.0 P			
3	Plow									1.0 P			
4	Laser Level									0.5 P			
5	Soil Fertility									1.0 P			
6	Apply Fert/Ground									1.0 P			
7	List										1.0 P		
8	Plant										1.0 P		
9	Apply Herbicide/Ground										1.0 P		
10	Buck Rows										1.0 P		
11	Irrigate	2.0 C	2.0 C	2.0 C	1.0 C						3.0 P	2.0 P	
12	Disk Ends		1.0 C								1.0 P		
13	Cultivate	1.0 C									1.0 P		
14	Apply Herbicide/Ground											1.0 P	
15	Apply Fert/Ground		1.0 C	1.0 C									
16	Apply Insecticide/Air			1.0 C									
17	Prepare Ends				1.0 C								
18	Dig					1.0 C							
19	Harvest					1.0 C							
20	Field Grade					1.0 C							
21	Haul, Custom					1.0 C							
22	Disk Residue						1.0 C						

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

Table 7A. Income and Cash Operating Summary; Early Red Potatoes, 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: Queen Creek, Elect TILLAGE: Conventional CROP: Potatoes, Early IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Queen Creek 9/12/01 YIELD: 291.0 CW / Acre PREVIOUS CROP: DATE: Wheat, Winter

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Potatoes	Hundred Lbs	291.00	\$9.98	\$2,904.18	\$2,904.18	
CASH LAND PREPARATION AND G Paid Labor (including benefits) Tractor/Self Propelled Irrigation Other/ Contract	GROWING EXPENSES (includ	ing sales tax)		66.78 54.99 31.86	153.63	
Chemicals and Custom Applicatio Fertilizer Insecticide Herbicide Other Chemicals	ns			101.26 11.36 4.94 32.37	149.94	
Farm Machinery and Vehicles Diesel Fuel Gasoline Repairs and Maintenance				24.18 3.51 44.95	72.64	
Irrigation Water (excluding labor) Pump Energy - Electric Repairs and Maintenance Water Assessment (See Note Bel	ow) **			480.48 36.03	516.51	
Other Purchased Inputs & Seed/Transplants				697.62	697.62	
CASH HARVEST AND POST HARVI	TOTAL CASH LAND PREPA EST EXPENSES	RATION AND GROWIN	IG EXPENSES		1590.33	
Paid Labor (including benefits) Tractor/Self Propelled Other/Contract				30.22 29.25	59.47	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				10.50 35.83	46.33	
OPERATING OVERHEAD -> PICKU OPERATING INTEREST AT 10.0%32		T HARVEST EXPENSE			105.80 15.25	
TOTAL CASH OPERATING EXPENS RETURNS OVER CASH OPER					\$1,743.54 \$1,160.64	

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

Table 7B. Allocations of Ownership Costs; Early Red Potatoes, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Queen Creek, Elect TILLAGE: Conventional CROP: Potatoes, Early ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Queen Creek YIELD: 291.0 CW / Acre PREVIOUS CROP: Wheat, Winter DATE: 9/12/01

Item	CASH COST BAS Income and Costs	SIS (\$/ACRE) Net Returns	TOTAL COST BA Income and Costs	SIS (\$/ACRE) Net Returns
TOTAL INCOME at \$9.98 / CW TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$2,904.18 \$1,743.54	\$1,160.64	\$2,904.18 \$1,743.54	\$1,160.64
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery Wells and Irrigation System General and Office Overhead ( 5.0% of Total Operating Exp.) General Farm Maintenance ( 3.0% of Total Operating Exp.)	13.98 13.29 87.18 52.31		13.98 13.29 87.18 52.31	
Total Cash Overhead Expenses	166.75		166.75	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity)	1,910.29	\$993.89	1,910.29	\$993.89
Capital Replacement, Machinery and Vehicles Wells and Irrigation System Interest on Equity, Machinery and Vehicles Wells and Irrigation System			84.17 48.91 36.10 29.75	
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK			198.93	.> \$794.96
Land Cost / Rent or Lease	200.00		200.00	
Total Land Costs  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO MANAGEMENT AND RISK	200.00	> \$793.89 	200.00	> \$594.96
Management Services ( 8% of Total Operation Expenses)			139.48	
TOTAL OWNERSHIP COST	366.75		705.16	
TOTAL COST  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO RISK (PROFITS)	\$2,110.29	> \$793.89	\$2,448.71	> \$455.47
Item	CASH COST BASI	IS (\$/ACRE) Net Returns	TOTAL COST BAS Income and Costs	SIS (\$/ACRE) Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST ( PER Lb ) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$5.99 \$1.26 \$7.25		\$5.99 \$2.42 \$8.41

Table 7C. Variable Operating Costs; Early Red Potatoes, 2001

FARM: Maricopa Veg COUNTY: Maricopa WATER SOURCE: TILLAGE: Conventional Queen Creek, Elect CROP: Potatoes, Early ACRES: IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam 1.0 AREA: Queen Creek YIELD: 291.0 CW / Acre PREVIOUS CROP: Wheat, Winter DATE: 9/12/01

No.	First Mont	h Operation	Hour Machine	-	Operati Fuel/Rps.		\$/ACRE *) ust/Serv. I		tion Total	Times	Tot. Cash Expenses	Class	
1	Nov	Rip	0.225	0.250	2.86	2.44			5.29	0.5	2.65	ı	
2	Nov	Plow	0.450	0.500	6.50	4.87			11.37	1.0	11.37	ī	
3	Nov	Disk	0.225	0.250	3.43	2.44			5.86	3.0	17.59	Ē	
4	Nov	List	0.225	0.250	2.02	2.44			4.46	1.0	4.46	Ē	
5	Nov	Buck Rows	0.045	0.050	0.23	0.49			0.72	3.0	2.15	Ġ	
6	Nov	Preirrigate		0.377	35.35	3.68			39.03	1.0	39.03	G	
7	Dec	Mulch	0.300	0.333	2.35	3.25			5.59	1.0	5.59	Ĺ	
8	Dec	Prep/Haul Seed Potato	0.900	2.000	9.94	11.62			21.56	1.0	21.56	L	
9	Dec	Plant	0.750	1.666	15.29	16.24		762.76	794.29	1.0	794.29	L	
10	Jan	Apply Herbicide/Ground	0.300	0.333	3.15	3.25		4.94	11.34	1.0	11.34	G	
11	Jan	Hilling	0.360	0.400	3.03	3.90			6.93	3.0	20.80	L	
12	Jan	Disk Ends	0.045	0.050	0.48	0.49			0.97	2.0	1.94	G	
13	Jan	Irrigate/Run Fertilizer		0.658	61.86	6.41		24.73	93.01	2.0	186.02	G	
14	Feb	Irrigate		0.658	61.86	6.41			68.28	6.0	409.67	G	
15	Apr	Apply Insecticide/Air					4.75	25.63	30.38	1.0	30.38	G	
16	Apr	Prepare Ends	0.045	0.050	0.48	0.49			0.97	1.0	0.97	Н	
17	Apr	Cut Vines	0.750	0.833	6.63	8.12			14.75	1.0	14.75	G	
18	Apr	Prepare Ends	0.045	0.050	0.24	0.49			0.73	1.0	0.73	Н	
19	Apr	Knock Ditches	0.045	0.050	0.23	0.49			0.71	1.0	0.71	G	
20	Apr	Roll Beds	0.129	0.143	0.65	1.39			2.04	1.0	2.04	L	
21	Apr	Dig	0.900	2.000	31.55	19.50			51.05	1.0	51.05	Н	
22	Apr	Haul 10	1.800	4.000	14.06	38.99			53.05	1.0	53.05	Н	
23	May	Disk Residue	0.225	0.250	3.43	2.44			5.86	1.0	5.86	L	
	-	Pickup Use 60 Mi/Acre	2.000		15.25						15.25		
		Operating Interest at 10.0					32.17				32.17		
		TOTAL CASH OPERATING	S (includes	all times over):						1743.54	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.

### OPERATING COST SUMMARY BY CLASS

# Land Preparation (L) 886.21 Growing (G) 704.11 Harvest (H) 105.80 Post Harvest (P) 0.00 Marketing (M) 0.00 Operating Overhead (O) 47.42 Total (T) \$1,743.54

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

Prices ->		- 25%	- 10%	Budgete	ed	+ 10%	+ 25%	,
Yields		\$7.48	\$8.98	\$9.9	98	\$10.98	\$12.47	Break-even Price
- 25%	218.3	-43.21	283.51	501.3	32	719.13	1,045.85	7.68
- 10%	261.9	267.64	659.70	921.0	08	1,182.45	1,574.52	6.46
Budgeted	291.0	474.87	910.50	1,200.9	92	1,491.33	1,926.96	5.85
+ 10%	320.1	682.11	1,161.30	1,480.7	76	1,800.22	2,279.40	5.35
Break-even Y	'ield	224.32	185.35	166.1	12	150.50	131.90	

Table 7D. Resource and Cash Flow Requirements; Early Red Potatoes, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Queen Creek, Elect TILLAGE: Conventional CROP: Potatoes, Early ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Queen Creek YIELD: 291.0 CW / Acre PREVIOUS CROP: Wheat, Winter DATE: 9/12/01

		Water				Оре	rating	Costs (\$/A				
Month *	Number Irrigations	Applied (inches)	Total Labor (Hrs)	Purchased Water	Fuel, Oil and Repairs	s Lal	oor	Chemicals	Other Purchases	Services	Total	
NOV P	1.0	4.0	1.80		52.38	2 1	7.57				69.95	
DEC P	1.0	4.0	8.92		31.0		7.37 5.41	65.14	697.62		849.18	
JAN C	1.0	7.0	1.49		68.76		4.54	29.68	007.02		112.98	
FEB C	3.0	21.0	1.97		181.00		9.24	24.73			224.97	
MAR C	2.0	14.0	1.72		122.17		6.73				138.90	
APR C	2.0	14.0	8.94		176.72		7.17	25.63		4.75	294.27	
MAY C	CO N4:/A ===		0.25	ļ	3.43		2.44				5.87	
Pickup Use 6	erest at 10.0				15.25	)				32.17	15.25 32.17	
Operating into	erest at 10.0									32.17	32.17	
Total	9.0	60.0	25.09		650.72	2	13.10	145.18	697.62	36.92	1743.54	
%					37.32		12.22	8.33	40.01	2.12	100.00	
TOTAL DEG	OUDOE DEO	LUDENAENTO	) (= A )	TOTAL FNE		NATATO (		- \				
	OURCE REQ		o (per Acre)		RGY REQUIRE			€)				
Total N Total P		150.0 184.0		Diesel F Unleade		40.7 8.7	Gal Gal					
Total Labo	ır	25.1			Pumping	6.7 5688.9	KWF	1				
Total Wate		60.0		All Direc		26.2	M B					
rotal Wate	<b>5.</b>	00.0		7 (11 2 11 00	. Enorgy	20.2	5					
FOLUDIAL		IENTO (non A										
Bed Rolle	T REQUIREM		icre) 13 Hr	Blade Scraper, 10'		0.05 Hr		Flat Trailer		0.90 Hr		
Hiller, 4 R			08 Hr	Lister. 5 Bottom		0.03 Hr			Plow. 4-16 2	0.45 Hr		
Offset Dis			14 Hr	Offset Disk, 16.5'		0.90 Hr		Offset Disk		0.05 Hr		
	uck, 1/2 Ton	2.	90 Hr	Planter, Potato 3 C		0.75 Hr			vester, 4 Row	0.90 Hr		
Power Mu	ılcher, 4 Rw	0.	30 Hr	Rolling Cultivator,	4 Rw	0.30 Hr		Root Cutte	r-Puller, 4 Row	0.75 Hr		
Rowbuck,			14 Hr	Saddle Tk Sprayer		0.30 Hr		Tractor, 50		0.05 Hr		
, .	0 PTO HP,		41 Hr	Tractor, 100 PTO I		3.24 Hr		Tractor, 15	0 PTO HP,	2.36 Hr		
V-Ripper,	5 Shnk	0.	11 Hr	Vegetable Trailer F	lat Bed	1.80 Hr						
	REQUIREM											
18-46-00,			00 Ць	20-0-0-45, Nitro-Si	. lu	40.00 Ga		Carbaryl		2.00 Pt		
Metalaxyl			50 Pt	Paraquat		0.50 Ga		Potato Seed	d	30.00 C		
Trifluralin		1.	50 Pt	Water, Pump		60.00 AI						
	QUIREMENT (											
Cutter			00 Hr	Irrigators		5.64 Hr		Other		5.50 Hr		
Tractor		9.	95 Hr									

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

Table 7E. Schedule of Operations; Early Red Potatoes, 2001

COUNTY: Maricopa FARM: Maricopa Veg TILLAGE: Conventional WATER SOURCE: Queen Creek, Elect CROP: Potatoes, Early ACRES: Sandy-Loam 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: 291.0 CW / Acre PREVIOUS CROP: DATE: 9/12/01 AREA: Queen Creek YIELD: Wheat, Winter

First o. Month	Times Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Material Name	Use and Cost Appl. Rat		Service Cost \$ / Unit	Labor Type
Nov	0.5 Rip	150 V-Ripper, 5 Shnk	4.00					Tractor
Nov	1.0 Plow	150 Moldboard Plow, 4-16 2	2.00					Tractor
Nov	3.0 Disk	150 Offset Disk, 16.5'	4.00					Tractor
Nov	1.0 List	100 Lister, 5 Bottom	4.00					Tractor
Nov	3.0 Buck Rows	60 Rowbuck, 10'	20.00					Tractor
Nov	1.0 Preirrigate			Water, Pump	4.00 Al	106.05 AF		Irrigators
Dec	1.0 Mulch	60 Power Mulcher, 4 Rw	3.00					Tractor
Dec	1.0 Prep/Haul Seed Potato	Pickup Truck, 1/2 Ton	1.00					Tractor
								Cutter
Dec	1.0 Plant	100 Planter, Potato 3 Comp. 4		Potato Seed	30.00 C			Tractor
			1	8-46-00, Dry	400.00 Lb			Other
				1etalaxyl	0.50 Pt			
Jan	1.0 Apply Herbicide/Ground	100 Saddle Tk Sprayer, 2 Tk 8 Rolling Cultivator, 4 Rw	3.00	Trifluralin	1.50 Pt	24.95 Ga	ı	Tractor
Jan	3.0 Hilling	100 Hiller, 4 Row	2.50					Tractor
Jan	2.0 Disk Ends	100 Offset Disk, 13.5'	20.00					Tractor
Jan	2.0 Irrigate/Run Fertilizer		1.52	Water, Pump	7.00 AI	106.05 AF	:	Irrigators
			2	0-0-0-45, Nitro-Sul	20.00 Ga	240.00 Tr	1	
Feb	6.0 Irrigate		1.52	Water, Pump	7.00 AI	106.05 AF	:	Irrigators
Apr	1.0 Apply Insecticide/Air	CST Air Spray, 5 Gal Mix	C	arbaryl	2.00 Pt	25.00 Ga	4.75 Ac	
			Р	araquat	0.50 Ga	36.00 Ga	l	
Apr	1.0 Prepare Ends	100 Offset Disk, 13.5'	20.00					Tractor
Apr	1.0 Cut Vines	100 Root Cutter-Puller, 4 Row	1.20					Tractor
Apr	1.0 Prepare Ends	50 Offset Disk, 8'	20.00					Tractor
Apr	1.0 Knock Ditches	60 Blade Scraper, 10'	20.00					Tractor
Apr	1.0 Roll Beds	60 Bed Roller, 4 Rw	7.00					Tractor
Apr	1.0 Dig	150 Potato Harvester, 4 Row	1.00					Tractor
								Other
Apr	1.0 Haul	60 Vegetable Trailer Flat Bed	0.50					Tractor
								Other
May	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.

Table 7F. Operations Calendar; Early Red Potatoes, 2001COUNTY: MaricopaFARM: Maricopa Veg WATER SOURCE: Queen Creek, Elect TILLAGE: Conventional Red Potatoes Queen Creek ACRES: 1.0 YIELD: 291 CW/Acre Sandy-Loam 09/17/2001 CROP: IRRIGATION SYSTEM: Flood Furrow SOIL: AREA: PREVIOUS CROP: Wheat, Winter DATE:

, u u_, u	QUOUT OTOOK	TILLD.	201 01177 1010		111211	000 0110		TTTTOGE	, ***********		D/ (1 E.	00/11/2	-001	
		•				Mont	h and Ti	mes Ope	ration Po	erformed				
No.	Operation		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip												0.5 P	
2	Plow												1.0 P	
3	Disk												2.0 P	1.0 P
4	List												1.0 P	
5	Buck Rows		1.0 C			1.0 C							1.0 P	
6	Preirrigate												1.0 P	
7	Mulch													1.0 P
8	Prep/Haul Seed Potato													1.0 P
9	Plant													1.0 P
10	Apply Herbicide/Ground		1.0 C											
11	Hilling		1.0 C		1.0 C	1.0 C								
12	Disk Ends		1.0 C			1.0 C								
13	Irrigate/Run Fertilizer		1.0 C	1.0 C										
14	Irrigate			2.0 C	2.0 C	2.0 C								
15	Apply Insecticide/Air					1.0 C								
16	Prepare Ends					1.0 C								
17	Cut Vines					1.0 C								
18	Disk Ends					1.0 C								
19	Knock Ditches					1.0 C								
20	Roll Beds					1.0 C								
21	Dig					1.0 C								
22	Haul					1.0 C								
23	Disk Residue						1.0 C							
* NOTE	D = Provious Voor C = C	urrent Veer I	N = Novt Voor											

<sup>\*</sup> NOTE: P = Previous Year C = Current Year N = Next Year

# Table 8A. Income and Cash Operating Summary; Fall Cabbage, 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Cabbage IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 746.0 Ct / Acre DATE: 9/11/Ó1 PREVIOUS CROP: Watermelons

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Cabbage	Crtn	746.00	\$3.64	\$2,715.44	\$2,715.44	
CASH LAND PREPARATION AND GR Paid Labor (including benefits) Tractor/Self Propelled Irrigation Other/ Contract	OWING EXPENSES (incl.	uding sales tax)		78.24 68.24 6.50	152.98	
Chemicals and Custom Applications Fertilizer Insecticide Herbicide	:			180.45 131.41 3.30	315.16	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance Irrigation Water (excluding labor) Water Assessment (See Note Below	·) **			23.86 38.43	62.28 15.00	
Other Purchased Inputs & Seed/Transplants Other Services and Rentals				241.63 228.00	469.63	
CASH HARVEST AND POST HARVES	ГОТАL CASH LAND PREF ST EXPENSES	PARATION AND GROWIN	IG EXPENSES		1015.06	
Custom Harvest/Post Harvest Other Materials					2685.60 749.10	
OPERATING OVERHEAD -> PICKUP OPERATING INTEREST AT 10.0%	FOTAL HARVEST AND PC USE	OST HARVEST EXPENSE			3434.70 12.71 18.67	
TOTAL CASH OPERATING EXPENSE RETURNS OVER CASH OPERA					\$4,481.13 (\$1,765.69)	

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

\*\* A water assessment charge of \$10.14 per Acre is included as an ownership cost in Table B.

# Table 8B. Allocations of Ownership Costs; Fall Cabbage, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Cabbage ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 746.0 Ct / Acre PREVIOUS CROP: Watermelons DATE: 9/11/01

Item	CASH COST BAI	SIS (\$/ACRE) Net Returns	TOTAL COST BA	SIS (\$/ACRE) Net Returns
TOTAL INCOME at \$3.64 / Ct TOTAL OPERATING EXPENSES	\$2,715.44 \$4,481.13		\$2,715.44 \$4,481.13	
RETURN OVER CASH OPERATING EXPENSES	, ,	(\$1,765.69)	. ,	(\$1,765.69)
CASH OVERHEAD EXPENSES  Taxes, Housing and Insurance, Farm Machinery General and Office Overhead ( 5.0% of Total Operating Exp.) General Farm Maintenance ( 3.0% of Total Operating Exp.)	7.39 224.06 134.43		7.39 224.06 134.43	
Total Cash Overhead Expenses	365.88		365.88	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity)	4,847.01	(\$2,131.57)	4,847.01	(\$2,131.57)
Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles			41.18 16.75	
Total Capital Allocations  RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK  RETURNS TO LAND, MANAGEMENT AND RISK		> (\$2,131.57)	57.92	> (\$2,189.49)
Land Cost / Rent or Lease Water Assessment **	200.00 10.14		200.00 10.14	
Total Land Costs  RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK	210.13	> (\$2,341.70)	210.13	> (\$2,399.62)
Management Services ( 8% of Total Operation Expenses)			358.49	
TOTAL OWNERSHIP COST	576.01		992.42	
TOTAL COST  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO RISK (PROFITS)			\$5,473.55	> (\$2,758.11)
Item	CASH COST BAS Income and Costs		TOTAL COST BAS Income and Costs	(, , , ,
BREAK-EVEN PRICE TO COVER OPERATING COST ( PER Lb ) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$6.01 \$0.77 \$6.78		\$6.01 \$1.33 \$7.34

Table 8C. Variable Operating Costs; Fall Cabbage, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Cabbage ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam Salt River Project AREA: 746.0 Ct / Acre PREVIOUS CROP: YIELD: Watermelons DATE: 9/11/01

	First		Hour	s *	Operati	na Costs	(\$/ACRE *)	Per Opera	ation	Tot. Cash			
No.		h Operation	Machine		Fuel/Rps.		Cust/Serv.		Total	Times	Expenses	Class	
1	Aug	Rip	0.225	0.250	2.86	2.44			5.29	0.5	2.65	L	
2	Aug	Plow	0.450	0.500	6.50	4.87			11.37	1.0	11.37	L	
3	Aug	Disk	0.225	0.250	3.43	2.44			5.86	3.0	17.59	L	
4	Aug	Laser Level	0.450	0.500	5.54	4.87			10.42	0.5	5.21	L	
5	Sep	Soil Fertility					3.00		3.00	1.0	3.00	G	
6	Sep	Apply Herbicide/Ground	0.225	0.250	1.02	2.44		3.30	6.75	1.0	6.75	G	
7	Sep	List	0.225	0.250	2.02	2.44			4.46	1.0	4.46	L	
8	Sep	Plant	0.600	1.334	5.82	13.00		241.63	260.45	1.0	260.45	L	
9	Sep	Apply Insect./Ground	0.150	0.167	0.90	1.63		77.75	80.28	1.0	80.28	G	
10	Sep	Buck Rows	0.045	0.050	0.19	0.49			0.68	5.0	3.41	G	
11	Sep	Irrigate		1.000		9.75		2.14	11.89	7.0	83.24	G	
12	Sep	Disk Ends	0.045	0.050	0.27	0.49			0.76	5.0	3.79	G	
13	Sep	Apply Insect./Ground	0.150	0.167	0.86	1.62		30.21	32.69	1.0	32.69	G	
14	Sep	Thinning					75.00		75.00	1.0	75.00	G	
15	Sep	Cultivate/Side Dress	0.180	0.200	2.17	1.95		29.95	34.07	2.0	68.13	G	
16	Sep	Apply Fert/Ground	0.450	0.500	3.73	4.87		32.37	40.97	2.0	81.94	G	
17	Sep	Hand Weeding					75.00		75.00	2.0	150.00	G	
18	Sep	Apply Insect./Ground	0.225	0.250	1.15	2.44		9.70	13.29	1.0	13.29	G	
19	Sep	Cultivate	0.563	0.625	3.39	6.09			9.49	2.0	18.97	G	
20	Oct	Apply Fert/Ground	0.450	0.500	2.04	4.87		27.90	34.82	2.0	69.64	G	
21	Nov	Apply Insect./Ground	0.225	0.250	1.15	2.44		13.76	17.34	1.0	17.34	G	
22	Dec	Harvest/Field Pack 746 Ct					2424.50	749.10	3173.60	1.0	3173.60	Н	
23	Dec	Haul, Custom 746 Ct					261.10		261.10	1.0	261.10	Н	
24	Dec	Disk Residue 746 Ct	0.225	0.250	3.43	2.44			5.86	1.0	5.86	L	
		Pickup Use 50 Mi/Acre	1.667		12.71						12.71		
		Operating Interest at 10.0					18.67				18.67		
		TOTAL CASH OPERATING	EXPENSE	S (includes	all times over):						4481.13	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 \$10.14 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY	CLASS	SENSITIVI	TY OF THE	NET REVE	NUES OVE	R TOTAL CA	SH EXPENS	SES (\$/ACR	E)
Land Preparation (L)	307.59	Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Growing (G)	707.47	Yields		\$2.73	\$3.28	\$3.64	\$4.00	\$4.55	Break-even Price
Harvest (H)	3,434.70		•						
Post Harvest (P)	0.00	- 25%	559.5	-2,226.36	-1,920.87	-1,717.21	-1,513.55	-1,208.07	6.71
Marketing (M)	0.00	- 10%	671.4	-2,436.07	-2,069.49	-1,825.10	-1,580.71	-1,214.12	6.36
Operating Overhead (O)	31.38	Budgeted	746.0	-2,575.88	-2,168.57	-1,897.02	-1,625.48	-1,218.16	6.18
		+ 10%	820.6	-2,715.70	-2,267.65	-1,968.95	-1,670.25	-1,222.20	6.04
Total (T)	\$4,481.13								
		Break-even Y	ïeld	-628.43	-886.77	-1,221.56	-1,962.46	-21,750.1	

Table 8D. Resource and Cash Flow Requirements; Fall Cabbage, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Cabbage ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 746.0 Ct / Acre PREVIOUS CROP: Watermelons DATE: 9/11/01

Water					Operating Costs (\$/ACRE *)					
Number Month * Irrigations	Applied (inches)	Total Labor (Hrs)	Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total	
wonth irrigations	(inches)	Labor (Hrs)	vvater	and Repairs	Labor	Chemicais	Purchases	Services	TOLAT	
JUL C		0.13		1.43	1.22	•			2.65	
AUG C		1.25		16.12	12.19				28.31	
SEP C 3.0	18.0	6.32		20.86	61.59		241.63	153.00	650.65	
OCT C 3.0	18.0	6.45	10.00	19.03	62.88			75.00	294.74	
NOV C 1.0	6.0	1.30	5.00	1.42	12.67	7 13.76			32.85	
DEC C		0.25		3.43	2.44	ļ	749.10	2685.60	3440.57	
Pickup Use 50 Mi/Acre				12.71					12.71	
Operating Interest at 10.	0							18.67	18.67	
Water Assessment			**							
Total 7.0	42.0	15.69	15.00	75.00	152.9	9 315.16	990.73	2932.27	4481.15	—
%		. 5.55	0.33	1.67	3.4		22.11	65.44	100.00	
TOTAL DESCRIBOR DE	OLUBENIENIE (	, <b>^ ^</b>	TOTAL ENER	OV DEOLUDE <b>N</b>	NTO /					
TOTAL RESOURCE RE		(per Acre)		GY REQUIREME		,				
Total N	411.3		Diesel Fue		28.0 G					
Total P Total Labor	230.0 15.7		Unleaded		5.0 G 4.6 M	aı I BTU				
Total Water	42.0		All Direct I	Energy	4.0 IV	ГВТО				
Total Water	42.0									
EQUIPMENT REQUIRE	MENTS (por Ao	ro)								
Bed Shaper, 4 Rw		Hr	Cultivator, Sweep, 4	Rw 14	9 Hr	Directed St	oray Rig. 8	0.45 Hr		
Directed Spray Rig, 16		5 Hr	Drag Scraper, 14'		2 Hr	Fert. Side I		1.26 Hr		
Fertilizer Broadcaster,		3 Hr	High Clearance Spra		5 Hr		nplete System	0.22 Hr		
Lister, 5 Bottom		2 Hr	Moldboard Plow, 4-1		5 Hr	Offset Disk		0.23 Hr		
Offset Disk, 16.5'	0.90	) Hr	Pickup Truck, 1/2 To		7 Hr		nhay, 2 Row	0.60 Hr		
Rowbuck, 10'		3 Hr	Tractor, 50 PTO HP		3 Hr	Tractor, 60		1.13 Hr		
Tractor, 70 PTO HP,		) Hr	Tractor, 80 PTO HP		3 Hr	Tractor, 10	0 PTO HP,	0.22 Hr		
Tractor, 150 PTO HP,	1.69	) Hr	V-Ripper, 5 Shnk	0.1	1 Hr					
MATERIALS REQUIREM	IENT (per Acre)	)								
18-46-00, Dry	500.00		32-00-00, URAN 32,		) Ga		Amm. Nitrate,	330.00 Lb		
Boxes & Supplies	746.00		BT		) Lb		eed (Hybrid)	90.00 Th		
Imidacloprid	16.00		Methomyl		) Pt	Spinosad		6.00 Oz		
Trifluralin	1.00	) Pt	Water, District	42.0	) Al					
LABOR REQUIREMENT										
Irrigators	7.00	) Hr	Other	0.6	7 Hr	Tractor		8.03 Hr		

<sup>\*</sup>NOTE: P = Previous Year C = Current Year N = Next Year

<sup>\*\*</sup> A water assessment charge of \$10.14 per Acre is included as an ownership cost in Table B.

Table 8E. Schedule of Operations; Fall Cabbage, 2001

COUNTY: Maricopa CROP: Cabbage FARM: Maricopa Veg TILLAGE: Double Crop WATER SOURCE: Salt River Project ACRES: Sandy-Loam 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Salt River Project 746.0 Ct / Acre PREVIOUS CROP: DATE: 9/11/01 AREA: YIELD: Watermelons

First Io. Month Tim	es Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Material Us Name	e and Co Appl.		\$ / Un		Service Cost \$ / Unit	Labor Type
Aug	0.5 Rip	150 V-Ripper, 5 Shnk	4.00							Tractor
Aug	1.0 Plow	150 Moldboard Plow, 4-16 2	2.00							Tractor
Aug	3.0 Disk	150 Offset Disk, 16.5'	4.00							Tractor
Ü	0.5 Laser Level	150 Drag Scraper, 14' Laser, Complete System	2.00							Tractor
Sep	1.0 Soil Fertility	CST Soil Analysis (Surface)							3.00 Ac	
	1.0 Apply Herbicide/Ground	50 Fertilizer Broadcaster,		Trifluralin	1.00	Pt	24.95	Ga		Tractor
1:	1.0 List	100 Lister, 5 Bottom	4.00							Tractor
Sep	1.0 Plant	70 Planter, Stanhay, 2 Row Bed Shaper, 4 Rw	1.50	Cabbage Seed (Hybrid)	90.00	Th	2.54	Th		Tractor Other
	1.0 Apply Insect./Ground	50 Directed Spray Rig, 16 Row	6.00	Imidacloprid	16.00	Oz	588.40	Ga		Tractor
1:	5.0 Buck Rows	50 Rowbuck, 10'	20.00							Tractor
	7.0 Irrigate			Water, District	6.00	Αl	4.29	AF		Irrigators
	5.0 Disk Ends	50 Offset Disk, 10.5'	20.00							Tractor
	1.0 Apply Insect./Ground	High Clearance Sprayer, 18	6.00	Spinosad	6.00	Oz	609.67	Ga		Tractor
	1.0 Thinning	CST Thinning							75.00 Ac	
Sep	2.0 Cultivate/Side Dress	80 Cultivator, Sweep, 4 Rw Fert. Side Dress Unit, 4Row	5.00	32-00-00, URAN 32,	30.00	Ga	170.80	Tn		Tractor
Sep	2.0 Apply Fert/Ground	50 Fert. Side Dress Unit, 4Row	2.00	18-46-00, Dry	250.00	Lb	245.00	Tn		Tractor
Sep	2.0 Hand Weeding	CST Hand Weeding							75.00 Ac	
Sep	1.0 Apply Insect./Ground	50 Directed Spray Rig, 8 Row		Methomyl	1.50	Pt	48.94	Ga		Tractor
1:	2.0 Cultivate	60 Cultivator, Sweep, 4 Rw	1.60							Tractor
Oct	2.0 Apply Fert/Ground	50 Fertilizer Broadcaster,	2.00	33-00-00, Amm. Nitrate,	165.00		320.00	Tn		Tractor
Nov	1.0 Apply Insect./Ground	50 Directed Spray Rig, 8 Row		Methomyl 3T	1.50 4.00		48.94 0.96			Tractor
Dec	1.0 Harvest/Field Pack	CST Harvest Cabbage	I	Boxes & Supplies	746.00	Ct	0.95	Ct	3.25 Ct	
Dec	1.0 Haul, Custom	CST Haul Cabbage							0.35 Ct	
Dec	1.0 Disk Residue	150 Offset Disk, 16.5'	4.00							Tractor
	Pickup use 50 Mi/Ac	Pickup Truck, 1/2 Ton	0.60							

<sup>\*</sup>NOTES: Machine times, labor times, and material rates are for one time over the designated acreage.

Table 8F. Operations Calendar; Fall Cabbage, 2001COUNTY: MaricopaFARM: Maricopa Veg SRP TILLAGE: Conventional WATER SOURCE: Cabbage Salt River Project Sandy-Loam
DATE: 09/17/2001 CROP: IRRIGATION SYSTEM: ACRES: 1.0 Flood Furrow SOIL: AREA: YIELD: 746 Ct./Acre PREVIOUS CROP: Watermelons

AINLA.	Sait Mivel 1 Toject	HLLD.	740 01.770	16		I IXL VI	000 010	١.	vvalcii	ICIONS		DATE.	03/11/20	<i>J</i> O 1	
			Month and Times Operation Performed								rformed -				
No.	Operation			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip								·	0.5 C		·		·	
2	Plow										1.0 C				
3	Disk										2.0 C	1.0 C			
4	Laser Level										0.5 C				
5	Soil Fertility											1.0 C			
6	Apply Herbicide/Ground											1.0 C			
7	List											1.0 C			
8	Plant											1.0 C			
9	Apply Insect/Ground											1.0 C			
10	Buck Rows											2.0 C	3.0 C		
11	Irrigate											3.0 C	3.0 C	1.0 C	
12	Disk Ends											2.0 C	2.0 C	1.0 C	
13	Apply Insect/Ground											1.0 C			
14	Thinning											1.0 C			
15	Cultivate/Side Dress											1.0 C	1.0 C		
16	Apply Fert/Ground											1.0 C	1.0 C		
17	Hand Weeding											1.0 C	1.0 C		
18	Apply Insect/Ground												1.0 C		
19	Cultivate												2.0 C		
20	Apply Fert/Ground												2.0 C		
21	Apply Insect/Ground													1.0 C	
22	Harvest/Field Pack														1.0 C
23	Haul, Custom														1.0 C
24	Disk Residue														1.0 C
* NOTE:	D - Draviaua Vaar C - Cu	irrant Vaar	NI - Nove N	/oor											

<sup>\*</sup> NOTE: P = Previous Year C = Current Year N = Next Year

Table 9A. Income and Cash Operating Summary; Fall Cantaloupe, 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: Aguila, Nat Gas TILLAGE: Double Crop CROP: Cantaloupes IRRIGATION SYSTEM: Flood Furrow Sandy-Loam SOIL: AREA: Aguila YIELD: 260.0 Ct / Acre DATE: 9/7/01 PREVIOUS CROP: Wheat, Winter

		- "				<del>, _</del>
ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
			Oilit	ACIE	ACIE	Duaget
INCOME -> Melons	Crtn	260.00	\$13.10	\$3,406.00	\$3,406.00	
CASH LAND PREPARATION AND GRO Paid Labor (including benefits)	WING EXPENSES (incl	uding sales tax)			109.82	
Tractor/Self Propelled Irrigation Other/ Contract				40.89 65.02 3.90		
Chemicals and Custom Applications				0.00	377.62	
Fertilizer				164.58	377.02	
Insecticide				143.55		
Herbicide				69.48		
Farm Machinery and Vehicles				19.44	47.40	<del></del>
Diesel Fuel Repairs and Maintenance				19. <del>44</del> 27.96		<del></del>
·				27.00		
Irrigation Water (excluding labor)				211.18	242.81	<del></del>
Natural Gas/Pumping Repairs and Maintenance				31.63		<del></del>
Other Purchased Inputs &					189.00	
Seed/Transplants				15.00	109.00	
Other Services and Rentals				174.00		
TC CASH HARVEST AND POST HARVEST		PARATION AND GROWIN	IG EXPENSES		966.64	
Custom Harvest/Post Harvest					403.00	
Other Materials					192.37	
	-	OST HARVEST EXPENSE			595.37	
OPERATING OVERHEAD -> PICKUP U OPERATING INTEREST AT 10.0%7.76	SE				7.63	
TOTAL CASH OPERATING EXPENSES					\$1,577.40	
RETURNS OVER CASH OPERAT	ING EXPENSES				\$1,828.60	

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

# Table 9B. Allocations of Ownership Costs; Fall Cantaloupe, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Aguila, Nat Gas TILLAGE: Double Crop CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Aguila YIELD: 260.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 9/7/01

Item	CASH COST BAS Income and Costs	SIS (\$/ACRE) Net Returns	TOTAL COST BAS Income and Costs	IS (\$/ACRE) Net Returns
TOTAL INCOME at \$13.10 / Ct TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$3,406.00 \$1,577.40	\$1,828.60	\$3,406.00 \$1,577.40	\$1,828.60
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery Wells and Irrigation System General and Office Overhead ( 5.0% of Total Operating Exp.) General Farm Maintenance ( 3.0% of Total Operating Exp.)	4.20 12.01 78.87 47.32		4.20 12.01 78.87 47.32	
Total Cash Overhead Expenses  Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles Wells and Irrigation System Interest on Equity, Machinery and Vehicles Wells and Irrigation System	142.40 1,719.80	\$1,686.20	142.40 1,719.80 23.91 67.97 11.61 36.41	\$1,686.20
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK		> \$1,686.20 	139.91	· \$1,546.30
Land Cost / Rent or Lease	200.00		200.00	
Total Land Costs  RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK			200.00	· \$1,346.30
Management Services ( 8% of Total Operation Expenses)			126.19	
TOTAL OWNERSHIP COST	342.40		608.50	
TOTAL COST  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO RISK (PROFITS)			\$2,185.90	\$1,220,10
Item	CASH COST BAS Income and Costs		TOTAL COST BASI	, ,
BREAK-EVEN PRICE TO COVER OPERATING COST ( PER Lb ) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$6.07 \$1.32 \$7.38		\$6.07 \$2.34 \$8.41

Table 9C. Variable Operating Costs; Fall Cantaloupe, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Aguila, Nat Gas TILLAGE: Double Crop ACRES: CROP: Cantaloupes 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Aguila 260.0 Ct / Acre PREVIOUS CROP: DATE: YIELD: 9/7/01 Wheat, Winter

	First		Hour	's *	Operati	na Costs	(\$/ACRE *)	Per Onera	tion		Tot, Cash		
No.		h Operation	Machine	-	Fuel/Rps.		cust/Serv.		Total	Times	Expenses	Class	
1	Jun	Rip	0.225	0.250	4.03	2.44			6.47	0.5	3.23	L	
2	Jun	Disk	0.150	0.167	3.22	1.63			4.85	2.0	9.70	L	
3	Jun	Plow	0.450	0.500	7.82	4.87			12.70	1.0	12.70	L	
4	Jun	Laser Level	0.450	0.500	6.87	4.87			11.74	0.5	5.87	L	
5	Jun	Soil Fertility					3.00		3.00	1.0	3.00	G	
6	Jun	Apply Fungicide/Ground					4.24	8.98	13.22	1.0	13.22	G	
7	Jun	Apply Fert/Ground	0.180	0.200	1.80	1.95		34.88	38.64	1.0	38.64	G	
8	Jun	List	0.225	0.250	2.49	2.44			4.93	1.0	4.93	L	
9	Jul	Plant	0.360	0.800	3.70	7.80		15.00	26.49	1.0	26.49	L	
10	Jul	Apply Herbicide/Ground	0.225	0.250	1.92	2.44		56.26	60.61	1.0	60.61	G	
11	Jul	Apply Insect./Ground	0.180	0.200	1.49	1.95		24.30	27.74	1.0	27.74	G	
12	Jul	Buck Rows	0.045	0.050	0.34	0.49			0.82	4.0	3.30	G	
13	Jul	Irrigate		0.667	24.28	6.50			30.78	7.0	215.48	G	
14	Jul	Cultivate	0.225	0.250	1.90	2.44			4.34	4.0	17.36	G	
15	Jul	Plant Fertility					6.00		6.00	1.0	6.00	G	
16	Jul	Irrigate/Run Fertilizer		0.667	24.28	6.50		29.95	60.73	3.0	182.20	G	
17	Jul	Thinning					75.00		75.00	1.0	75.00	G	
18	Aug	Apply Insecticide/Air					9.50	54.88	64.38	2.0	128.76	G	
19	Aug	Hand Weeding					75.00		75.00	1.0	75.00	G	
20	Aug	Apply Fert/Ground	0.257	0.286	3.47	2.79		39.85	46.10	1.0	46.10	G	
21	Aug	Pollinate					15.00		15.00	1.0	15.00	G	
22	Sep	Harvest, Load & Haul 260					403.00	192.37	595.37	1.0	595.37	Н	
23	Sep	Disk Residue 260 Ct	0.180	0.200	3.87	1.95			5.81	1.0	5.81	L	
		Pickup Use 30 Mi/Acre	1.000		7.63						7.63		
		Operating Interest at 10.0					7.76				7.76		
		TOTAL CASH OPERATING	EXPENSE	S (includes	all times over):						1577.40	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.

OPERATING COST SUMMARY BY	CLASS	SENSITIVI	TY OF THE	NET REVE	NUES OVE	R TOTAL CA	SH EXPENS	ES (\$/ACR	lE)
Land Preparation (L)	68.74	Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	,
Growing (G)	897.90	Yields		\$9.83	\$11.79	\$13.10	\$14.41	\$16.38	Break-even Price
Harvest (H)	595.37		ŀ						
Post Harvest (P)	0.00	- 25%	195.0	485.58	868.75	1,124.20	1,379.65	1,762.83	7.33
Marketing (M)	0.00	- 10%	234.0	779.45	1,239.26	1,545.80	1,852.34	2,312.15	6.49
Operating Overhead (O)	15.39	Budgeted	260.0	975.36	1,486.26	1,826.86	2,167.46	2,678.36	6.07
		+ 10%	286.0	1,171.27	1,733.26	2,107.92	2,482.58	3,044.57	5.73
Total (T)	\$1,577.40								
		Break-even Y	ield l	130.56	103.55	91.00	81.17	69.84	

Table 9D. Resource and Cash Flow Requirements; Fall Cantaloupe, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Aguila, Nat Gas TILLAGE: Double Crop CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Aguila YIELD: 260.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 9/7/01

-	iter	Total	Operating Costs (\$/ACRE *) Purchased Fuel, Oil Other						
	lied hes) La	Total abor (Hrs)	Water	and Repairs	Labor	Chemicals	Purchases	Services	Total
	20.0 25.0 5.0	1.66 4.52 4.22 0.87		24.01 108.70 129.35 28.15 7.63	16.17 44.04 41.15 8.45	43.87 110.50 124.68 84.83	15.00 192.37	7.24 81.00 94.75 407.75	91.29 359.24 389.93 721.55 7.63 7.76
Total 10.0 50.0		11.26		297.84 18.88	109.81 6.96	363.88 23.07	207.37 13.15	598.50 37.94	1577.40 100.00
Total P 12 Total K 1 Total Labor 1	MENTS (pe 0.5 6.0 5.0 1.3 0.0	er Acre)	TOTAL ENER Diesel Fu Unleaded Nat Gas/F All Direct I	Gas 3 Pumping 5	22.8 Gal .0 Gal 500.8 The	rms			
EQUIPMENT REQUIREMENTS Bed Shaper, 4 Rw Drag Scraper, 14' Laser, Complete System Offset Disk, 18' Rowbuck, 10' Tractor, 100 PTO HP V-Ripper, 5 Shnk	0.36 0.22 0.22 0.48 0.18 1.02 0.11	Hr Hr Hr Hr Hr Hr	Cultivator, Sweep, 4 Fertilizer Broadcast Lister, 5 Bottom Pickup Truck, 1/2 To Saddle Tk Sprayer, Tractor, 150 PTO H	er, 0.18 0.22 on 1.00 2 Tk 8 0.22	Hr Hr Hr Hr		njector, 4 Row Plow, 4-16 2 ex 2 Line O PTO HP	0.18 Hr 0.26 Hr 0.45 Hr 0.36 Hr 1.49 Hr 0.59 Hr	
MATERIALS REQUIREMENT (p 10-10-05, Lqd Abamectin Cantaloupe Cartons Imidacloprid  LABOR REQUIREMENT (per Ad Irrigators	30.00 10.00 260.00 5.00	Oz Ct Oz	11-48-00, Dry Bensulide Cantaloupe Sd Metam-sodium	200.00 10.00 1.50 10.00	Pt Lb Pt	32-00-00, L Bifenthrin Endosulfan Water, Pun		90.00 Ga 10.00 Oz 2.00 Pt 50.00 Al	

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

Table 9E. Schedule of Operations; Fall Cantaloupe, 2001

COUNTY: Maricopa FARM: Maricopa Veg TILLAGE: Double Crop WATER SOURCE: Aguila, Nat Gas CROP: Cantaloupes ACRES: IRRIGATION SYSTEM: Flood Furrow Sandy-Loam 1.0 SOIL: AREA: Aguila 260.0 Ct / Acre PREVIOUS CROP: DATE: 9/7/01 YIELD: Wheat, Winter

First No. Month T	imes Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Material Name	Use and C Appl. I		 \$ / Unit	Service Cost \$ / Unit	Labor Type
Jun	0.5 Rip	175 V-Ripper, 5 Shnk	4.00						Tractor
Jun	2.0 Disk	175 Offset Disk, 18'	6.00						Tractor
Jun	1.0 Plow	150 Moldboard Plow, 4-16 2	2.00						Tractor
Jun	0.5 Laser Level	150 Drag Scraper, 14' Laser, Complete System	2.00						Tractor
Jun	1.0 Soil Fertility	CST Soil Analysis (Surface)						3.00 A	
Jun	1.0 Apply Fungicide/Ground	CST Air Spray, 3 Gal Mix	M	etam-sodium	10.00	₽ŧ	6.80		
Jun	1.0 Apply Fert/Ground	100 Fertilizer Broadcaster,		11-48-00, Dry	200.00		330.00		Tractor
Jun	1.0 List	100 Lister, 5 Bottom	4.00	11-40-00, Diy	200.00	ш	330.00	111	Tractor
Jul	1.0 Plant	100 Planter, Flex 2 Line		Cantaloupe Sd	1.50	Ιh	9.46	h	Tractor
oui	1.0 T lant	Bed Shaper, 4 Rw	2.50	Santaloupe ou	1.50	ш	3.40	20	Other
Jul	1.0 Apply Herbicide/Ground	80 Saddle Tk Sprayer, 2 Tk 8	4.00	Bensulide	10.00	Pt	42.58	€a	Tractor
Jul	1.0 Apply Insect./Ground	80 Directed Spray Rig, 8 Row	5.00	midacloprid	5.00	Oz	588.40 (	€a	Tractor
Jul	4.0 Buck Rows	80 Rowbuck, 10'	20.00						Tractor
Jul	7.0 Irrigate		1.50	Water, Pump	5.00	Αl	58.27 A	√F	Irrigators
Jul	4.0 Cultivate	80 Cultivator, Sweep, 4 Rw	4.00						Tractor
Jul	1.0 Plant Fertility	CST Plant Tissue Anal.(Petiole)						6.00 A	
Jul	3.0 Irrigate/Run Fertilizer		1.50	Water, Pump	5.00	Αl	58.27 A	√F	Irrigators
	-		32	2-00-00, URAN 32,	30.00	Ga	170.80	Γn	_
Jul	1.0 Thinning	CST Thinning						75.00 Ad	
Aug	2.0 Apply Insecticide/Air	CST Air Spray, 5 Gal Mix	Bi	fenthrin	5.00	Oz	490.00	Ga 4.75 A	
•		• •	E	ndosulfan	1.00	Pt	33.17	€a	
			Al	pamectin	5.00	Oz	732.91 (	€a	
Aug	1.0 Hand Weeding	CST Hand Weeding						75.00 A	
Aug	1.0 Apply Fert/Ground	100 Fertilizer Injector, 4 Row	3.50	10-10-05, Lqd	30.00	Ga	251.33	Γn	Tractor
Aug	1.0 Pollinate	CST Bee Hive Rental		·				15.00 A	
Sep	1.0 Harvest, Load & Haul	CST Harv/pack/haul Melons	С	antaloupe Cartons	260.00	Ct	0.70	Ct 1.55 C	t
Sep .	1.0 Disk Residue	175 Offset Disk, 18'	5.00	•					Tractor
·	Pickup use 30 Mi/Ac	Pickup Truck, 1/2 Ton	1.00						

<sup>\*</sup>NOTES: Machine times, labor times, and material rates are for one time over the designated acreage.

Table 9F. Operations Calendar; Fall Cantaloupe, 2001COUNTY:MaricopaFARM:Maricopa VegCROP:CantaloupeACRES:1.0AREA:AguilaYIELD:260 Ct./Acre WATER SOURCE: AguiNG TILLAGE: Double Crop Sandy-Loam 09/17/2001 Flood Furrow SOIL: IRRIGATION SYSTEM: DATE: PREVIOUS CROP: Carrots

/ (I \L/ \.	7 igalia	HILLD. Z	.00 Ot.// to/C		. I\LVI	000 0110	1 .	Odifoto			D/ (TE.	00/11/2		
		_												
No.	Operation		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip							0.5 C						
2	Disk							2.0 C						
3	Plow							1.0 C						
4	Laser Level							0.5 C						
5	Soil Fertility							1.0 C						
6	Apply Fungicide/Ground							1.0 C						
7	Apply Fert/Ground							1.0 C						
8	List							1.0 C						
9	Plant								1.0 C					
10	Apply Herbicide/Ground								1.0 C					
11	Apply Insect/Ground								1.0 C					
12	Buck Rows								2.0 C	2.0 C				
13	Irrigate								3.0 C	4.0 C				
14	Cultivate								2.0 C	2.0 C				
15	Plant Fertility								1.0 C					
16	Irrigate/Run Fertilizer								1.0 C	1.0 C	1.0 C			
									1.0 C					
	Apply Insecticide/Air										1.0 C			
	Hand Weeding													
										1.0 C				
23	Disk Residue										1.0 C			
17 18 19 20 21 22 23	Apply Fert/Ground Pollinate Harvest, Load & Haul Disk Residue								1.0 C	1.0 C 1.0 C 1.0 C 1.0 C	1.0 C 1.0 C 1.0 C			

<sup>\*</sup> NOTE: P = Previous Year C = Current Year N = Next Year

# Table 10A. Income and Cash Operating Summary; Fall Honeydews, 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: Roosevelt Irrigation TILLAGE: Double Crop CROP: Honeydew Melons IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: 638.0 Ct / Acre Roosevelt ID YIELD: DATE: 9/11/Ó1 PREVIOUS CROP: Wheat, Winter

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Crtn	638.00	\$5.84	\$3,725.92	\$3,725.92	
CASH LAND PREPARATION AND GRO Paid Labor (including benefits) Tractor/Self Propelled Irrigation Other/ Contract	DWING EXPENSES (inclu	uding sales tax)		46.26 52.02 3.90	102.17	
Chemicals and Custom Applications Fertilizer Insecticide Herbicide				104.68 142.53 56.26	303.47	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance Irrigation Water (excluding labor) Water Assessment (See Note Below)	**			17.20 23.80	41.00	
Other Purchased Inputs & Seed/Transplants Other Services and Rentals				32.14 174.00	206.14	
TO CASH HARVEST AND POST HARVEST		PARATION AND GROWIN	IG EXPENSES		652.78	
Custom Harvest/Post Harvest Other Materials	OTAL LIADVEOT AND DO	NOT HADVEOT EVERNO			988.90 910.39	
OPERATING OVERHEAD -> PICKUP L OPERATING INTEREST AT 10.0%		OST HARVEST EXPENSE	=		1899.29 7.63 5.70	
TOTAL CASH OPERATING EXPENSES RETURNS OVER CASH OPERAT					\$2,565.41 \$1,160.51	

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

\*\* A water assessment charge of \$7.50 per Acre is included as an ownership cost in Table B.

# Table 10B. Allocations of Ownership Costs; Fall Honeydews, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Roosevelt Irrigation TILLAGE: Double Crop CROP: Honeydew Melons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Roosevelt ID YIELD: 638.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 9/11/01

ltem	CASH COST BAS Income and Costs	IS (\$/ACRE) Net Returns	TOTAL COST BA Income and Costs	SIS (\$/ACRE) Net Returns
TOTAL INCOME at \$5.84 / Ct TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$3,725.92 \$2,565.41	\$1,160.51	\$3,725.92 \$2,565.41	\$1,160.51
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead ( 5.0% of Total Operating Exp.) General Farm Maintenance ( 3.0% of Total Operating Exp.)	4.69 128.27 76.96		4.69 128.27 76.96	
Total Cash Overhead Expenses	209.92		209.92	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity)	2,775.32	\$950.60	2,775.32	\$950.60
Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles			25.48 12.16	
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK		-> \$950.60	37.65	> \$912.95
Land Cost / Rent or Lease Water Assessment **	200.00 7.50		200.00 7.50	
Total Land Costs  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO MANAGEMENT AND RISK			207.50	> \$705.45
Management Services ( 8% of Total Operation Expenses)			205.23	
TOTAL OWNERSHIP COST	417.42		660.30	
TOTAL COST  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO RISK (PROFITS)	\$2,982.82 	-> \$743.10	\$3,225.71	> \$500.21
Item	CASH COST BASI: Income and Costs		TOTAL COST BAS Income and Costs	,
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$4.02 \$0.65 \$4.68		\$4.02 \$1.03 \$5.06

Table 10C. Variable Operating Costs; Fall Honeydews, 2001

FARM: Maricopa Veg COUNTY: Maricopa WATER SOURCE: TILLAGE: Double Crop Roosevelt Irrigation CROP: Honeydew Melons ACRES: IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam 1.0 638.0 Ct / Acre PREVIOUS CROP: AREA: Roosevelt ID YIELD: Wheat, Winter DATE: 9/11/01

	First		Hour	's *	Operati	na Costs	(\$/ACRE *)	Per Opera	ation		Tot. Cash		
No.		h Operation	Machine		Fuel/Rps.		ust/Serv.		Total	Times	Expenses	Class	
1	Jun	Rip	0.225	0.250	2.86	2.44			5.29	0.5	2.65	L	
2	Jun	Disk	0.150	0.167	2.44	1.63			4.07	2.0	8.13	L	
3	Jun	Plow	0.450	0.500	6.50	4.87			11.37	1.0	11.37	L	
4	Jun	Laser Level	0.450	0.500	5.54	4.87			10.42	0.5	5.21	L	
5	Jun	Soil Fertility					3.00		3.00	1.0	3.00	G	
6	Jun	Apply Fert/Ground	0.180	0.200	1.43	1.95		34.88	38.26	1.0	38.26	G	
7	Jun	List	0.225	0.250	2.02	2.44			4.46	1.0	4.46	L	
8	Jul	Plant	0.360	0.800	5.06	7.80		32.14	44.99	1.0	44.99	L	
9	Jul	Apply Herbicide/Ground	0.225	0.250	1.20	2.44		56.26	59.90	1.0	59.90	G	
10	Jul	Apply Insect./Ground	0.180	0.200	0.92	1.95		24.30	27.17	1.0	27.17	G	
11	Jul	Buck Rows	0.045	0.050	0.19	0.49			0.68	5.0	3.41	G	
12	Jul	Irrigate		0.667		6.50			6.50	7.0	45.52	G	
13	Jul	Cultivate	0.225	0.250	1.49	2.44			3.93	6.0	23.58	G	
14	Jul	Plant Fertility					6.00		6.00	1.0	6.00	G	
15	Jul	Irrigate/Run Fertilizer		0.667		6.50		29.95	36.45	1.0	36.45	G	
16	Jul	Thinning					75.00		75.00	1.0	75.00	G	
17	Aug	Apply Insecticide/Air					4.24	54.88	59.12	2.0	118.24	G	
18	Aug	Hand Weeding					75.00		75.00	1.0	75.00	G	
19	Aug	Apply Fert/Ground	0.257	0.286	2.93	2.79		39.85	45.57	1.0	45.57	G	
20	Aug	Pollinate					15.00		15.00	1.0	15.00	G	
21	Sep	Harvest, Load & Haul 638					988.90	910.39	1899.29	1.0	1899.29	Н	
22	Sep	Disk Residue 638 Ct	0.180	0.200	1.94	1.95			3.88	1.0	3.88	L	
	•	Pickup Use 30 Mi/Acre	1.000		7.63						7.63		
		Operating Interest at 10.0					5.70				5.70		
		TOTAL CASH OPERATING	EXPENSE	S (includes	all times over):						2565.41	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 \$7.50 per Acre is included as an ownership cost in Table B.

# OPERATING COST SUMMARY BY CLASS SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE)

JPERATING COST SUMMART B	T CLASS	SENSITIVI	IT OF ITE	NEIKEVE	MOES OVE	RIDIALCA	OU EVLEINO	こう (かんじん	.⊏ <i>)</i>
Land Preparation (L)	80.70	Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Growing (G)	572.09	Yields		\$4.38	\$5.26	\$5.84	\$6.42	\$7.30	Break-even Price
Harvest (H)	1,899.29								
Post Harvest (P)	0.00	- 25%	478.5	2.47	421.64	701.08	980.52	1,399.69	4.37
Marketing (M)	0.00	- 10%	574.2	136.74	639.74	975.07	1,310.41	1,813.41	4.14
Operating Overhead (O)	13.33	Budgeted	638.0	226.26	785.14	1,157.74	1,530.33	2,089.22	4.03
		+ 10%	701.8	315.77	930.55	1,340.40	1,750.25	2,365.03	3.93
Total (T)	\$2,565.41								
		Break-even Y	ïeld	476.74	293.49	233.63	194.05	154.73	

Table 10D. Resource and Cash Flow Requirements; Fall Honeydews, 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: TILLAGE: Double Crop Roosevelt Irrigation 1.0 IRRIGATION SYSTE 638.0 Ct / Acre PREVIOUS CROP: CROP: Honeydew Melons IRRIGATION SYSTEM: Flood Furrow Sandy-Loam SOIL: DATE: AREA: Roosevelt ID YIELD: Wheat, Winter 9/11/01

	Number	Water Applied	Total	Operating Costs (\$/ACRE *) Purchased Fuel, Oil Other						
Month *	Irrigations	(inches)	Labor (Hrs)	Water	and Repairs	Labor	Chemicals	Purchases	Services	Total
JUN C JUL C AUG C SEP C Pickup Use 3 Operating Inte Water Asses	erest at 10.0	20.0 20.0	1.66 4.77 3.85 0.20	**	19.02 12.05 7.99 1.94 7.63	16.17 46.48 37.57 1.95	110.51 94.73	32.14 910.39	3.00 81.00 94.24 993.14 5.70	73.07 282.18 234.53 1962.30 7.63 5.70
Total %	8.0	40.0	10.48		48.63 1.90	102.17 3.98		942.53 36.74	1177.08 45.88	2565.48 100.00
TOTAL RES Total N Total P Total K Total Labo Total Wate	•	UIREMENTS 158.2 126.0 15.0 10.5 40.0	(per Acre)	TOTAL ENEI Diesel Fu Unleadec All Direct	l Gas	20.2 G 3.0 G	al			
Bed Shap Drag Scra Laser, Co Offset Dis Planter, D Tractor, 5	iper, 14' mplete Systen	0.3 0.2 n 0.2 0.1 ow 0.3 0.6	cre) 16 Hr 12 Hr 12 Hr 18 Hr 16 Hr 13 Hr	Cultivator, Sweep, Fertilizer Broadcas Lister, 5 Bottom Offset Disk, 18' Rowbuck, 10' Tractor, 70 PTO H V-Ripper, 5 Shnk	ter, 0.1 0.2 0.3 0.2 P, 1.3	5 Hr 8 Hr 2 Hr 0 Hr 3 Hr 5 Hr	Fertilizer Ir Moldboard Pickup Tru	pray Rig, 8 njector, 4 Row Plow, 4-16 2 ck, 1/2 Ton Sprayer, 2 Tk 8 0 PTO HP,	0.18 Hr 0.26 Hr 0.45 Hr 1.00 Hr 0.22 Hr 1.20 Hr	
10-10-05, Abamectir Endosulfar Water, Pu	n <sup>'</sup> n	30.0 10.0 2.0 40.0 (per Acre)	0 Ga 0 Oz 0 Pt 0 Al	11-48-00, Dry Bensulide Honeydew Seeds Waxed Cartons	1.5 638.0	0 Pt 0 Th 0 Ct	Bifenthrin Imidaclopr	JRAN 32, Lqd id	30.00 Ga 10.00 Oz 5.00 Oz	
Irrigators		5.3	4 Hr	Other	0.4	0 Hr	Tractor		4.74 Hr	

<sup>\*</sup>NOTE: P = Previous Year C = Current Year N = Next Year

<sup>\*\*</sup> A water assessment charge of \$7.50 per Acre is included as an ownership cost in Table B.

Table 10E. Schedule of Operations; Fall Honeydews, 2001

COUNTY: Maricopa FARM: Maricopa Veg TILLAGE: Double Crop WATER SOURCE: Roosevelt Irrigation CROP: Honeydew Melons ACRES: Sandy-Loam 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: 638.0 Ct / Acre PREVIOUS CROP: DATE: 9/11/01 AREA: Roosevelt ID YIELD: Wheat, Winter

First lo. Month	Times Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Material Name	Use and Co		\$ / Un		Service Cost \$ / Unit	Labor Type
		· · · · · · · · · · · · · · · · · · ·	4.00				7. 3	_	,	
Jun Jun	0.5 Rip 2.0 Disk	150 V-Ripper, 5 Shnk 150 Offset Disk. 18'	6.00							Tractor Tractor
	2.0 DISK 1.0 Plow									
Jun		150 Moldboard Plow, 4-16 2	2.00							Tractor
Jun	0.5 Laser Level	150 Drag Scraper, 14' Laser, Complete System	2.00							Tractor
Jun	1.0 Soil Fertility	CST Soil Analysis (Surface)							3.00 Ac	
Jun	1.0 Apply Fert/Ground	100 Fertilizer Broadcaster,	5.00	11-48-00, Dry	200.00	Lb	330.00	Tn		Tractor
Jun	1.0 List	100 Lister, 5 Bottom	4.00	•						Tractor
Jul	1.0 Plant	100 Planter, Drill Type, 4 Row	2.50	Honeydew Seeds	1.50	Th	20.27	Th		Tractor
		Bed Shaper, 4 Rw		•						Other
Jul	1.0 Apply Herbicide/Ground	50 Saddle Tk Sprayer, 2 Tk 8	4.00	Bensulide	10.00	Pt	42.58	Ga		Tractor
Jul	1.0 Apply Insect./Ground	50 Directed Spray Rig, 8 Row	5.00	Imidacloprid	5.00	Oz	588.40	Ga		Tractor
Jul	5.0 Buck Rows	50 Rowbuck, 10'	20.00	·						Tractor
Jul	7.0 Irrigate		1.50	Water, Pump	5.00	Αl	0.00	AF		Irrigators
Jul	6.0 Cultivate	70 Cultivator, Sweep, 4 Rw	4.00	·						Tractor
Jul	1.0 Plant Fertility	CST Plant Tissue Anal (Petiole)							6.00 Ac	
Jul	1.0 Irrigate/Run Fertilizer	,	1.50	Water, Pump	5.00	ΑI	0.00	ΑF		Irrigators
	Ğ		;	32-00-00, URAN 32,	30.00	Ga	170.80	Tn		Ü
Jul	1.0 Thinning	CST Thinning							75.00 Ac	
Aug	2.0 Apply Insecticide/Air	CST Air Spray, 3 Gal Mix	I	Bifenthrin	5.00	Oz	490.00	Ga	4.24 Ac	
Ü	,	, ,,	ı	Endosulfan	1.00	Pt	33.17	Ga		
			,	Abamectin	5.00	Oz	732.91	Ga		
Aug	1.0 Hand Weeding	CST Hand Weeding							75.00 Ac	
Aug	1.0 Apply Fert/Ground	100 Fertilizer Injector, 4 Row	3.50	10-10-05, Lqd	30.00	Ga	251.33	Tn		Tractor
Aug	1.0 Pollinate	CST Bee Hive Rental		• •					15.00 Ac	
Sep	1.0 Harvest, Load & Haul	CST Harv/pack/haul Melons	1	Naxed Cartons	638.00	Ct	1.35	Ct	1.55 Ct	
Sep	1.0 Disk Residue	100 Offset Disk, 13.5'	5.00							Tractor
•	Pickup use 30 Mi/Ac	Pickup Truck, 1/2 Ton	1.00							

<sup>\*</sup>NOTES: Machine times, labor times, and material rates are for one time over the designated acreage.

Table 10F. Operations Calendar; Fall Honeydew, 2001COUNTY:MaricopaFARM:Maricopa VegCROP:Honeydew MelonsACRES:1.0AREA:Roosevelt IDYIELD:638 Ct./Acre TILLAGE: Conventional WATER SOURCE: Roosevelt ID Sandy-Loam 09/17/2001 SOIL: IRRIGATION SYSTEM: Flood Furrow DATE: PREVIOUS CROP: Wheat/Winter

/ (I \L/ \.	1 1000CVCIL ID	TILLD.	000 01.7 1010		1111	1000 0110	<b>4</b> .	vviicat	VVIIICI		D/ (TE.	00/11/2	.001	
	_	_				Mon	th and Ti	mes Oper	ration Pe	rformed -				
No.	Operation		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip							1.0 C						
2	Disk							2.0 C						
3	Plow							1.0 C						
4	Laser Level							0.5 C						
5	Soil Fertility							1.0 C						
6	Apply Fert/Ground							1.0 C						
7	List							1.0 C						
8	Plant								1.0 C					
9	Apply Herbicide/Ground								1.0 C					
10	Apply Insect./Ground								1.0 C					
11	Buck Rows								2.0 C	3.0 C				
12	Irrigate								3.0 C	4.0 C				
13	Cultivate								3.0 C	3.0 C				
14	Plant Fertility								1.0 C					
15	Irrigate/Run Fertilizer								1.0 C					
16	Thinning								1.0 C					
17	Apply Insecticide/Air									1.0 C	1.0 C			
18	Hand Weeding									1.0 C				
19	Apply Fert/Ground									1.0 C				
20	Pollinate									1.0 C				
21	Harvest, Load & Haul										1.0 C			
22	Disk Residue										1.0 C			
* NOTE:	D = Provious Voor C = Cu	irront Voor	N = Novt Voor											

<sup>\*</sup> NOTE: P = Previous Year C = Current Year N = Next Year

Table 11A. Income and Cash Operating Summary; Fall Iceberg Lettuce, 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Lettuce, Iceberg IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam Salt River Project 212.0 Ct / Acre Potatoes, Early AREA: YIELD: PREVIOUS CROP: DATE: 9/11/01

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Lettuce	Crtn	212.00	\$7.62	\$1,615.44	\$1,615.44	
CASH LAND PREPARATION AND GRO Paid Labor (including benefits) Tractor/Self Propelled Irrigation Other/ Contract	OWING EXPENSES (inclu	iding sales tax)		45.12 93.69 17.55	156.36	
Chemicals and Custom Applications Fertilizer Insecticide Herbicide Other Chemicals				88.26 196.08 55.53 4.33	344.21	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance Irrigation Water (excluding labor) Water Assessment (See Note Below	) **			17.82 29.68	47.50 10.00	
Other Purchased Inputs & Seed/Transplants Other Services and Rentals	OTAL CASULAND DDEE	MARATION AND OROMAIN	IO EVENOCO	101.47 78.00	179.47	
CASH HARVEST AND POST HARVES	OTAL CASH LAND PREF T EXPENSES	ARATION AND GROWIN	NG EXPENSES		737.55	
Paid Labor (including benefits) Tractor/Self Propelled				0.32	0.32	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				0.19 0.30	0.49	
Custom Harvest/Post Harvest Other Materials					508.80 197.19	
T OPERATING OVERHEAD -> PICKUP I OPERATING INTEREST AT 10.0%	OTAL HARVEST AND PO JSE	OST HARVEST EXPENSE			706.80 15.25 9.54	
TOTAL CASH OPERATING EXPENSES RETURNS OVER CASH OPERA					\$1,469.14 \$146.30	

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

<sup>\*\*</sup> A water assessment charge of \$10.14 per Acre is included as an ownership cost in Table B.

Table 11B. Allocations of Ownership Costs; Fall Iceberg Lettuce, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 212.0 Ct / Acre PREVIOUS CROP: Potatoes, Early DATE: 9/11/01

ltem	CASH COST BAS Income and Costs	SIS (\$/ACRE) Net Returns	TOTAL COST BAS Income and Costs	SIS (\$/ACRE) Net Returns
TOTAL INCOME at \$7.62 / Ct TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$1,615.44 \$1,469.14	\$146.30	\$1,615.44 \$1,469.14	\$146.30
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead ( 5.0% of Total Operating Exp.) General Farm Maintenance ( 3.0% of Total Operating Exp.)	5.48 73.46 44.07		5.48 73.46 44.07	
Total Cash Overhead Expenses	123.01		123.01	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity)	1,592.15	\$23.29	1,592.15	\$23.29
Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles			30.53 14.21	
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK			44.74	> (\$21.45)
Land Cost / Rent or Lease Water Assessment **	200.00 10.14		200.00 10.14	
Total Land Costs  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO MANAGEMENT AND RISK			210.13	> (\$231.59)
Management Services ( 8% of Total Operation Expenses)			117.53	
TOTAL OWNERSHIP COST	333.15		495.42	
TOTAL COST  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO RISK (PROFITS)			\$1,964.56 >	> (\$349.12)
Item	CASH COST BAS Income and Costs		TOTAL COST BASI Income and Costs	
BREAK-EVEN PRICE TO COVER OPERATING COST ( PER Lb ) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$6.93 \$1.57 \$8.50		\$6.93 \$2.34 \$9.27

Table 11C. Variable Operating Costs; Fall Iceberg Lettuce, 2001

FARM: Maricopa Veg COUNTY: Maricopa WATER SOURCE: TILLAGE: Double Crop Salt River Project CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam 212.0 Ct / Acre PREVIOUS CROP: AREA: Salt River Project YIELD: Potatoes, Early DATE: 9/11/01

	First		Hour	s *	Operati	- Operating Costs (\$/ACRE *) Per Operation					Tot. Cash		
No.	Mont	h Operation	Machine	Labor	Fuel/Rps.	Labor (	Cust/Serv.	Materials	Total	Times	Expenses	Class	
1	Jun	Rip	0.225	0.250	2.86	2.44			5.29	0.5	2.65	L	
2	Jun	Plow	0.450	0.500	6.50	4.87			11.37	1.0	11.37	L	
3	Jun	Disk	0.150	0.167	2.44	1.63			4.07	3.0	12.20	L	
4	Aug	Landplane	0.450	0.500	5.54	4.87			10.42	0.5	5.21	L	
5	Aug	Soil Fertility					3.00		3.00	1.0	3.00	G	
6	Aug	Apply Fert/Ground	0.150	0.167	0.93	1.63		43.34	45.89	1.0	45.89	G	
7	Aug	List	0.225	0.250	2.90	2.44			5.33	1.0	5.33	L	
8	Sep	Mulch	0.300	0.333	2.62	3.25			5.86	1.0	5.86	L	
9	Sep	Plant	0.360	0.800	4.74	7.80		101.47	114.01	1.0	114.01	L	
10	Sep	Apply Insect./Ground	0.150	0.167	1.01	1.63		78.00	80.64	1.0	80.64	G	
11	Sep	Apply Herbicide/Ground	0.225	0.250	1.39	2.44		55.53	59.37	1.0	59.37	G	
12	Sep	Set Sprinklers	0.158	0.350	0.90	3.41			4.31	1.0	4.31	G	
13	Sep	Irrigate/Sprinkler		1.000		9.75			9.75	6.0	58.49	G	
14	Sep	Remove Sprinklers	0.158	0.350	0.90	3.41			4.31	1.0	4.31	G	
15	Sep	Buck Rows	0.045	0.050	0.27	0.49			0.76	2.0	1.51	G	
16	Sep	Irrigate		0.667		6.50		1.25	7.75	4.0	31.01	G	
17	Sep	Disk Ends	0.045	0.050	0.34	0.49			0.83	3.0	2.49	G	
18	Sep	Apply Insect./Ground	0.150	0.167	1.01	1.63		30.21	32.85	1.0	32.85	G	
19	Sep	Thinning					75.00		75.00	1.0	75.00	G	
20	Sep	Cultivate/Side Dress	0.300	0.333	4.33	3.25		14.98	22.55	2.0	45.10	G	
21	Sep	Apply Insect./Ground	0.015	0.017	0.09	0.17		17.13	17.38	2.0	34.76	G	
22	Oct	Apply Insect./Ground	0.015	0.017	0.09	0.17		19.40	19.65	3.0	58.96	G	
23	Oct	Irrigate/Run Fertilizer		0.943		9.19		19.98	29.17	1.0	29.17	G	
24	Nov	Prepare Ends	0.030	0.033	0.49	0.32			0.81	1.0	0.81	Н	
25	Nov	Harvest, Load & Haul 212					508.80	197.19	705.99	1.0	705.99	Н	
26	Dec	Disk Residue 212 Ct	0.150	0.167	2.44	1.63			4.07	1.0	4.07	L	
		Pickup Use 60 Mi/Acre	2.000		15.25						15.25		
		Operating Interest at 10.0					9.54				9.54		
		TOTAL CASH OPERATING	EXPENSE	S (includes	all times over):						1469.14	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 \$10.14 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY O	CLASS
Land Preparation (L)	160.71
Growing (G)	576.84
Harvest (H)	706.80
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	24.79
Total (T)	\$1,469.14

SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$	/ACRE)
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Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	,
Yields		\$5.72	\$6.86	\$7.62	\$8.38	\$9.52	Break-even Price
- 25%	159.0	-363.98	-182.24	-61.08	60.07	241.81	8.00
- 10%	190.8	-288.26	-70.18	75.21	220.60	438.69	7.23
Budgeted	212.0	-237.79	4.53	166.07	327.62	569.93	6.84
+ 10%	233.2	-187.31	79.24	256.94	434.64	701.18	6.52
Break-even Y	ïeld	311.87	210.71	173.25	147.10	119.94	

Table 11D. Resource and Cash Flow Requirements; Fall Iceberg Lettuce, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 212.0 Ct / Acre PREVIOUS CROP: Potatoes, Early DATE: 9/11/01

	Number	Water Applied	Total	Purchased	Fuel, Oil	Operatin	g Costs (\$/A	CRE *) Other		
Month *	Irrigations	(inches)	Labor (Hrs)	Water	and Repairs	Labor	Chemicals	Purchases	Services	Total
JUN C AUG C			0.96 0.83		12.80 9.04	9.35 8.13	43.34		3.00	22.15 63.51
SEP C OCT C	7.0 3.0	12.0 18.0	10.60 2.76	5.00	17.69 5.20	103.33 26.92	215.00 85.88	101.47	75.00	512.49 123.00
NOV C DEC C	1.0	6.0	0.75 0.17	5.00	0.83 2.44	7.31 1.63		197.19	508.80	719.13 4.07
Pickup Use 6 Operating Int Water Asses	erest at 10.0			**	15.25				9.54	15.25 9.54
Total %	11.0	36.0	16.07	10.00 0.68	63.25 4.31	156.67 10.66	344.22 23.43	298.66 20.33	596.34 40.59	1468.67 100.00
Total N Total P Total Labo Total Wate	er	192.3 156.0 16.1 36.0	,	TOTAL ENEF Diesel Fu Unleaded All Direct	Gas	21.2 Gal 6.0 Gal				
EQUIPMEN <sup>*</sup> Bed Shap	T REQUIREM er, 4 Rw		.cre) 36 Hr	Cultivator, Sweep, 6	6 Rw 0.6	0 Hr	Directed S	pray Rig, 8	0.30 Hr	
Drag Scra	aper, 14' Irance Spraver		22 Hr 07 Hr	Fert. Side Dress Un Laser, Complete Sy		0 Hr 2 Hr	Fertilizer B Lister. 5 Bo	roadcaster,	0.38 Hr 0.22 Hr	
Moldboard	d Plow, 4-16 2	0.4	45 Hr	Offset Disk, 10.5'	0.1	4 Hr	Offset Disk	ί, 18'	0.63 Hr	
Rowbuck,	uck, 1/2 Ton , 10' 00 PTO HP,	0.0	00 Hr 09 Hr 60 Hr	Planter, Stanhay, 4 I Sprinkler Trailer Tractor, 150 PTO H	0.3	6 Hr 2 Hr 4 Hr	Power Mul Tractor, 60 V-Ripper, 5		0.30 Hr 1.88 Hr 0.11 Hr	
	REQUIREME								•	
11-52-00,			00 Lb	32-00-00, URAN 32		0 Ga	BT	:4	10.00 Lb	
Esfenvale Lettuce Ca Spinosad		212.	00 Oz 00 Ct 00 Oz	Head Lettuce Sd Methomyl Surfactant (spreade		0 In 0 Pt 0 Pt	Imidaclopr Pronamide Water, Dis		16.00 Oz 2.00 Lb 36.00 Al	
LABOR REC Irrigators	QUIREMENT (		61 Hr	Other	1.8	0 Hr	Tractor		4.66 Hr	

<sup>\*</sup>NOTE: P = Previous Year C = Current Year N = Next Year

<sup>\*\*</sup> A water assessment charge of \$10.14 per Acre is included as an ownership cost in Table B.

Table 11E. Schedule of Operations; Fall Iceberg Lettuce, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: TILLAGE: Double Crop Salt River Project CROP: Lettuce, Iceberg ACRES: Sandy-Loam 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: AREA: Salt River Project 212.0 Ct / Acre PREVIOUS CROP: DATE: 9/11/01 YIELD: Potatoes, Early

First No. Month Tir	nes Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Material Name	Use and Co Appl. F		 \$ / Unit	Service \$ / Ur		
Jun	0.5 Rip	150 V-Ripper, 5 Shnk	4.00						Tracto	
Jun	1.0 Plow	150 Moldboard Plow, 4-16 2	2.00						Tracto	
Jun	3.0 Disk	150 Offset Disk. 18'	6.00						Tracto	
Aug	0.5 Landplane	150 Drag Scraper, 14'	2.00						Tracto	or
-3		Laser, Complete System								
Aug	1.0 Soil Fertility	CST Soil Analysis (Surface)						3.	00 Ac	
Aug	1.0 Apply Fert/Ground	60 Fertilizer Broadcaster,	6.00	11-52-00, Dry	300.00	Lb 2	273.33	Гп	Tracto	or
Aug	1.0 List	150 Lister, 5 Bottom	4.00	, ,					Tracto	or
Sep	1.0 Mulch	60 Power Mulcher, 4 Rw	3.00						Tracto	or
Sep	1.0 Plant	60 Planter, Stanhay, 4 Row	2.50	Head Lettuce Sd	160.00	Th	0.60	Γh	Tracto	or
•		Bed Shaper, 4 Rw							Other	
Sep	1.0 Apply Insect./Ground	60 Directed Spray Rig, 8 Row	6.00	Imidacloprid	16.00	Oz :	588.40 (	<del>S</del> a	Tracto	or
Sep	1.0 Apply Herbicide/Ground		4.00	Pronamide	2.00	Lb	26.27	b	Tracto	or
Sep	1.0 Set Sprinklers	60 Sprinkler Trailer	5.70						Tracto	or
·	·	•							Other	
Sep	6.0 Irrigate/Sprinkler		1.00	Water, District	1.00	Αl	0.00 A	Æ	Irrigat	ors
Sep	1.0 Remove Sprinklers	60 Sprinkler Trailer	5.70						Tracto	or
·	·	•							Other	
Sep	2.0 Buck Rows	60 Rowbuck, 10'	20.00						Tracto	or
Sep	4.0 Irrigate		1.50	Water, District	6.00	Αl	2.50 A	Æ	Irrigat	ors
Sep	3.0 Disk Ends	60 Offset Disk, 10.5'	20.00						Tracto	or
Sep	1.0 Apply Insect./Ground	60 Directed Spray Rig, 8 Row	6.00	Spinosad	6.00	Oz (	609.67 (	∃a	Tracto	or
Sep	1.0 Thinning	CST Thinning							00 Ac	
Sep	2.0 Cultivate/Side Dress	100 Fert. Side Dress Unit,	3.00	32-00-00, URAN 32,	15.00	Ga	170.80	Γn	Tracto	or
		Cultivator, Sweep, 6 Rw								
Sep	2.0 Apply Insect./Ground	High Clearance Sprayer, 18	60.00	Methomyl	2.00		48.94 (		Tracto	or
			E	BT	2.00	Lb	0.96	_b		
			5	Surfactant (spreader)	1.00		16.40			
Oct	3.0 Apply Insect./Ground	High Clearance Sprayer, 18	60.00	Esfenvalerate	5.00		107.50 (		Tracto	or
				/lethomyl	2.00		48.94 (			
			_	BT	2.00		0.96			
Oct	1.0 Irrigate/Run Fertilizer			Water, District	6.00		10.00 A		Irrigat	ors
				2-00-00, URAN 32,	15.00	Ga	170.80	Γn		
Nov	1.0 Prepare Ends	150 Offset Disk, 18'	30.00						Tracto	or
Nov	1.0 Harvest, Load & Haul	CST Harv/pack/haul Lettuce		ettuce Cartons	212.00	Ct	0.88	Ct 2.	40 Ct	
Dec	1.0 Disk Residue	150 Offset Disk, 18'	6.00						Tracto	or
	Pickup use 60 Mi/Ac	Pickup Truck, 1/2 Ton	0.50							
************										

<sup>\*</sup>NOTES: Machine times, labor times, and material rates are for one time over the designated acreage.

Table 11F. Operations Calendar; Fall Iceberg Lettuce, 2001COUNTY:MaricopaMaricopa VegCROP:Lettuce, IcebergACRES:1.0AREA:Salt River ProjectYIELD:212 Ct/Acre WATER SOURCE: SRP TILLAGE: Double Crop Sandy-Loam 09/17/2001 Flood Furrow SOIL: IRRIGATION SYSTEM: DATE: PREVIOUS CROP: Potatoes, Early

AILA.	Odit ( (VC) 1 Tojcct	TILLD. 2	The viole of the relationst the state of the											
		•				Mont	h and Tii	mes Opei	ation Pe	rformed -				
No.	Operation		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip							0.5 c						
2	Plow							1.0 C						
3	Disk							2.0 C		1.0 C				
4	Landplane									0.5 C				
5	Soil Fertility									1.0 C				
6	Apply Fert/Ground									1.0 C				
7	List									1.0 C				
8	Mulch										1.0 C			
9	Plant										1.0 C			
10	Apply Insect/Ground										1.0 C			
11	Apply Herbicide/Ground										1.0 C			
12	Set Sprinklers										1.0 C			
13	Irrigate/Sprinkler										6.0 C			
14	Remove Sprinklers										1.0 C			
15	Buck Rows										1.0 C	1.0 C		
16	Irrigate										1.0 C	2.0 C	1.0 C	
17	Disk Ends										1.0 C	1.0 C	1.0 C	
18	Apply Insect/Ground										1.0 C			
19	Thinning										1.0 C			
20	Cultivate/Side Dress										1.0 C	1.0 C		
21	Apply Insect/Ground										1.0 C	1.0 C		
22 23	Apply Insect/Ground										1.0 C	2.0 C		
23	Irrigate/Run Fertilizer											1.0 C		
24	Prepare Ends												1.0 C	
25	Harvest, Load & Haul												1.0 C	
26	Disk Residue													1.0 C

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

Table 12A. Income and Cash Operating Summary; Fall Leaf Lettuce, 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: Salt River Project TILLAGE: Double Crop Sandy-Loam CROP: Lettuce, Leaf IRRIGATION SYSTEM: Flood Furrow SOIL: Salt River Project AREA: YIELD: 410.0 Ct / Acre PREVIOUS CROP: Mixed Greens DATE: 9/7/01

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Lettuce	Crtn	410.00	\$7.30	\$2,993.00	\$2,993.00	
CASH LAND PREPARATION AND GR Paid Labor (including benefits) Tractor/Self Propelled Irrigation Other/ Contract	OWING EXPENSES (inclu	uding sales tax)		45.12 93.69 17.55	156.36	
Chemicals and Custom Applications Fertilizer Insecticide Herbicide Other Chemicals				88.26 196.08 55.53 4.33	344.21	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance Irrigation Water (excluding labor) Water Assessment (See Note Below	v) **			17.82 29.68	47.50 10.00	
Other Purchased Inputs & Seed/Transplants Other Services and Rentals	FOTAL CASH LAND PREF	PARATION AND GROWIN	IG EXPENSES	304.42 78.00	382.42 940.49	
CASH HARVEST AND POST HARVES	ST EXPENSES					
Paid Labor (including benefits) Tractor/Self Propelled				0.32	0.32	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				0.19 0.30	0.49	
Custom Harvest/Post Harvest Other Materials					984.00 381.37	
OPERATING OVERHEAD -> PICKUP OPERATING INTEREST AT 10.0%	FOTAL HARVEST AND POUSE	OST HARVEST EXPENSE			1366.18 10.17 11.97	
TOTAL CASH OPERATING EXPENSE RETURNS OVER CASH OPERA					\$2,328.81 \$664.19	

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

<sup>\*\*</sup> A water assessment charge of \$10.14 per Acre is included as an ownership cost in Table B.

# Table 12B. Allocations of Ownership Costs; Fall Leaf Lettuce, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Lettuce, Leaf ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 410.0 Ct / Acre PREVIOUS CROP: Mixed Greens DATE: 9/7/01

Item	CASH COST BAS Income and Costs	SIS (\$/ACRE) Net Returns	TOTAL COST BA Income and Costs	SIS (\$/ACRE) Net Returns
TOTAL INCOME at \$7.30 / Ct	\$2,993.00		\$2,993.00	
TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$2,328.81	\$664.19	\$2,328.81	\$664.19
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead ( 5.0% of Total Operating Exp.) General Farm Maintenance ( 3.0% of Total Operating Exp.)	5.48 116.44 69.86		5.48 116.44 69.86	
Total Cash Overhead Expenses	191.78		191.78	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity)	2,520.59	\$472.41	2,520.59	\$472.41
Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles			30.53 14.21	
Total Capital Allocations  RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK  RETURNS TO LAND, MANAGEMENT AND RISK		> \$472.41 	44.74	> \$427.67
Land Cost / Rent or Lease Water Assessment **	200.00 10.14		200.00 10.14	
Total Land Costs  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO MANAGEMENT AND RISK	210.13	> \$262.28	210.13	> \$217.53
Management Services ( 8% of Total Operation Expenses)			186.30	
TOTAL OWNERSHIP COST	401.92		632.96	
TOTAL COST  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO RISK (PROFITS)	\$2,730.72	> \$262.28	\$2,961.77	> \$31.23
KETOKNO TO KISK (FROTTIS)				ν φ01.20
Item	CASH COST BAS Income and Costs	IS (\$/ACRE) Net Returns	TOTAL COST BAS Income and Costs	SIS (\$/ACRE) Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST ( PER Lb ) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$5.68 \$0.98 \$6.66		\$5.68 \$1.54 \$7.22

Table 12C. Variable Operating Costs; Fall Leaf Lettuce, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Lettuce, Leaf ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam 410.0 Ct / Acre PREVIOUS CROP: AREA: Salt River Project YIELD: Mixed Greens DATE: 9/7/01

	First		Hour	's *	Operati	ng Costs	(\$/ACRE *)	Per Opera	ation		Tot. Cash		
No.	Mont	h Operation	Machine	Labor	Fuel/Rps.		ust/Serv.		Total	Times	Expenses	Class	
1	Jun	Rip	0.225	0.250	2.86	2.44			5.29	0.5	2.65	L	
2	Jun	Plow	0.450	0.500	6.50	4.87			11.37	1.0	11.37	L	
3	Jun	Disk	0.150	0.167	2.44	1.63			4.07	3.0	12.20	L	
4	Aug	Landplane	0.450	0.500	5.54	4.87			10.42	0.5	5.21	L	
5	Aug	Soil Fertility					3.00		3.00	1.0	3.00	G	
6	Aug	Apply Fert/Ground	0.150	0.167	0.93	1.63		43.34	45.89	1.0	45.89	G	
7	Aug	List	0.225	0.250	2.90	2.44			5.33	1.0	5.33	L	
8	Sep	Mulch	0.300	0.333	2.62	3.25			5.86	1.0	5.86	L	
9	Sep	Plant	0.360	0.800	4.74	7.80		304.42	316.96	1.0	316.96	L	
10	Sep	Apply Insect./Ground	0.150	0.167	1.01	1.63		77.75	80.39	1.0	80.39	G	
11	Sep	Apply Herbicide/Ground	0.225	0.250	1.39	2.44		55.53	59.37	1.0	59.37	G	
12	Sep	Set Sprinklers	0.158	0.350	0.90	3.41			4.31	1.0	4.31	G	
13	Sep	Irrigate/Sprinkler		1.000		9.75			9.75	6.0	58.49	G	
14	Sep	Remove Sprinklers	0.158	0.350	0.90	3.41			4.31	1.0	4.31	G	
15	Sep	Buck Rows	0.045	0.050	0.27	0.49			0.76	2.0	1.51	G	
16	Sep	Irrigate		0.667		6.50		1.25	7.75	4.0	31.01	G	
17	Sep	Disk Ends	0.045	0.050	0.34	0.49			0.83	3.0	2.49	G	
18	Sep	Apply Insect./Ground	0.150	0.167	1.01	1.63		30.21	32.85	1.0	32.85	G	
19	Sep	Thinning					75.00		75.00	1.0	75.00	G	
20	Sep	Cultivate/Side Dress	0.300	0.333	4.33	3.25		14.98	22.55	2.0	45.10	G	
21	Sep	Apply Insect./Ground	0.015	0.017	0.09	0.17		17.13	17.38	2.0	34.76	G	
22	Oct	Apply Insect./Ground	0.015	0.017	0.09	0.17		19.40	19.65	3.0	58.96	G	
23	Oct	Irrigate/Run Fertilizer		0.943		9.19		19.98	29.17	1.0	29.17	G	
24	Nov	Prepare Ends	0.030	0.033	0.49	0.32			0.81	1.0	0.81	Н	
25	Nov	Harvest, Load & Haul 410					984.00	381.37	1365.37	1.0	1365.37	Н	
26	Dec	Disk Residue 410 Ct	0.150	0.167	2.44	1.63			4.07	1.0	4.07	L	
		Pickup Use 40 Mi/Acre	1.333		10.17						10.17		
		Operating Interest at 10.0					11.97				11.97		
		TOTAL CASH OPERATING	EXPENSE	S (includes	all times over):						2328.81	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 \$10.14 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY	CLASS
Land Preparation (L)	363.65
Growing (G)	576.84
Harvest (H)	1,366.18
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	22.14
Total (T)	\$2.328.81

SENSITIVITY OF	THE NET REVEN	IUES OVE	ER TOTAL CAS	SH EXPENS	ES (\$/ACRE)
ricae ->	25%	- 10%	Rudgeted	+ 10%	+ 25%

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		\$5.48	\$6.57	\$7.30	\$8.03	\$9.13	Break-even Price
- 25%	307.5	-281.49	55.22	279.70	504.17	840.88	6.39
- 10%	369.0	-149.70	254.35	523.72	793.09	1,197.15	5.88
Budgeted	410.0	-61.85	387.10	686.40	985.70	1,434.65	5.63
+ 10%	451.0	26.01	519.86	849.09	1,178.32	1,672.16	5.42
Break-even Y	'ield	438.86	290.44	237.01	200.18	162.34	

Table 12D. Resource and Cash Flow Requirements; Fall Leaf Lettuce, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Lettuce, Leaf ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 410.0 Ct / Acre PREVIOUS CROP: Mixed Greens DATE: 97/01

	Number	Water	Total	Purchased	Fuel, Oil	- Operati	ing Costs (\$/A	CRE *) Other				
Month *	Irrigations	Applied (inches)	Labor (Hrs)	Water	and Repairs	Labor	Chemicals	Purchases	Services	Total		
JUN C			0.96		12.80	9.35	j			22.15		
AUG C			0.83		9.04	8.13			3.00	63.51		
SEP C	7.0	12.0	10.60		17.69	103.33		304.42	75.00	715.44		
OCT C	3.0	18.0	2.76	5.00	5.20	26.91		204.07	00400	122.99		
NOV C DEC C	1.0	6.0	0.75 0.17	5.00	0.83 2.44	7.31 1.63		381.37	984.00	1378.51 4.07		
Pickup Use 4	40 Mi/Acre		0.17		10.17	1.03	•			10.17		
	erest at 10.0				10.17				11.97	11.97		
Water Asses				**								
Total	11.0	36.0	16.07	10.00	58.17	156.66	344.22	685.79	1073.97	2328.81		
%				0.43	2.50	6.73	3 14.78	29.45	46.12	100.00		
Total N Total P Total Labo Total Wate	er	192.3 156.0 16.1 36.0		Diesel Fu Unleaded All Direct	Gas	21.2 Gi 4.0 Gi 3.5 M						
	T REQUIREM			0.46	. D	00 11-	D:41 0	Di 0	0.00 11			
Bed Shap Drag Scra			36 Hr 22 Hr	Cultivator, Sweep, 6 Fert. Side Dress Un		60 Hr 60 Hr		pray Rig, 8 Broadcaster.	0.30 Hr 0.38 Hr			
	rance Spraver		07 Hr	Laser, Complete Sy		22 Hr	Lister. 5 Bo	,	0.22 Hr			
	d Plow, 4-16 2		45 Hr	Offset Disk, 10.5'		14 Hr	Offset Disk		0.63 Hr			
	uck, 1/2 Ton		33 Hr	Planter, Stanhay, 4 I		36 Hr		lcher, 4 Rw	0.30 Hr			
Rowbuck,			09 Hr	Sprinkler Trailer		32 Hr	Tractor, 6		1.88 Hr			
	00 PTO HP,		60 Hr	Tractor, 150 PTO H	P, 1.	64 Hr	V-Ripper,	Shnk	0.11 Hr			
	REQUIREME			22 00 00 110 41 22	lad 45	00 00	ВТ		10.00 15			
11-52-00, Esfenvale			00 Lb 00 Oz	32-00-00, URAN 32 Imidacloprid		00 Ga 00 Oz		ce Sd (coated)	10.00 Lb 800.00 Th			
Lettuce Ca			00 O2	Methomyl		00 O2 00 Pt	Pronamide		2.00 Lb			
Spinosad			00 Oz	Surfactant (spreade		00 Pt	Water, Dis		36.00 AI			
LABOR REC Irrigators	QUIREMENT (		61 Hr	Other	1.	80 Hr	Tractor		4.66 Hr			

<sup>\*</sup>NOTE: P = Previous Year C = Current Year N = Next Year

<sup>\*\*</sup> A water assessment charge of \$10.14 per Acre is included as an ownership cost in Table B.

Table 12E. Schedule of Operations; Fall Leaf Lettuce, 2001

COUNTY: Maricopa FARM: Maricopa Veg TILLAGE: Double Crop WATER SOURCE: Salt River Project CROP: Lettuce, Leaf ACRES: IRRIGATION SYSTEM: Flood Furrow Sandy-Loam 1.0 SOIL: AREA: Salt River Project DATE: YIELD: 410.0 Ct / Acre PREVIOUS CROP: Mixed Greens 9/7/01

First	Outside	Equipment/ Custom Oper	Job Rate		Use and Cos		_	ervice Cost	Labor
No. Month Tin	nes Operation	HP Self-Prop./ Implement	Acre/Hr	Name	Appi. Rai	te \$/Un	It	\$ / Unit	Туре
Jun	0.5 Rip	150 V-Ripper, 5 Shnk	4.00						Tractor
Jun	1.0 Plow	150 Moldboard Plow, 4-16 2	2.00						Tractor
Jun	3.0 Disk	150 Offset Disk, 18'	6.00						Tractor
Aug	0.5 Landplane	150 Drag Scraper, 14'	2.00						Tractor
		Laser, Complete System							
Aug	1.0 Soil Fertility	CST Soil Analysis (Surface)						3.00 Ac	
Aug	1.0 Apply Fert/Ground	60 Fertilizer Broadcaster,	6.00	11-52-00, Dry	300.00 Lb	273.33	Tn		Tractor
Aug	1.0 List	150 Lister, 5 Bottom	4.00						Tractor
Sep	1.0 Mulch	60 Power Mulcher, 4 Rw	3.00						Tractor
Sep	1.0 Plant	60 Planter, Stanhay, 4 Row	2.50	Leaf Lettuce Sd	800.00 Th	າ 0.36	Th		Tractor
		Bed Shaper, 4 Rw							Other
Sep	1.0 Apply Insect./Ground	60 Directed Spray Rig, 8 Row		Imidacloprid	16.00 Oz				Tractor
Sep	1.0 Apply Herbicide/Ground	60 Fertilizer Broadcaster,	4.00	Pronamide	2.00 Lb	26.27	Lb		Tractor
Sep	1.0 Set Sprinklers	60 Sprinkler Trailer	5.70						Tractor
									Other
Sep	6.0 Irrigate/Sprinkler		1.00	Water, District	1.00 A	I 0.00	AF		Irrigators
Sep	1.0 Remove Sprinklers	60 Sprinkler Trailer	5.70						Tractor
									Other
Sep	2.0 Buck Rows	60 Rowbuck, 10'	20.00						Tractor
Sep	4.0 Irrigate			Water, District	6.00 A	l 2.50	AF		Irrigators
Sep	3.0 Disk Ends	60 Offset Disk, 10.5'	20.00						Tractor
Sep	1.0 Apply Insect./Ground	60 Directed Spray Rig, 8 Row	6.00	Spinosad	6.00 Oz	z 609.67	Ga		Tractor
Sep	1.0 Thinning	CST Thinning						75.00 Ac	
Sep	2.0 Cultivate/Side Dress	100 Fert. Side Dress Unit,	3.00	32-00-00, URAN 32,	15.00 Ga	a 170.80	Tn		Tractor
		Cultivator, Sweep, 6 Rw							
Sep	2.0 Apply Insect./Ground	High Clearance Sprayer, 18		Methomyl	2.00 P				Tractor
				3T	2.00 Lb		Lb		
				Surfactant (spreader)	1.00 P				
Oct	3.0 Apply Insect./Ground	High Clearance Sprayer, 18		Esfenvalerate	5.00 Oz				Tractor
				Methomyl	2.00 P				
			_	3T	2.00 Lb				
Oct	1.0 Irrigate/Run Fertilizer			Water, District	6.00 A				Irrigators
				32-00-00, URAN 32,	15.00 Ga	a 170.80	Tn		
Nov	1.0 Prepare Ends	150 Offset Disk, 18'	30.00						Tractor
Nov	1.0 Harvest, Load & Haul	CST Harv/pack/haul Lettuce		ettuce Cartons	410.00 C	t 0.88	Ct	2.40 Ct	
Dec	1.0 Disk Residue	150 Offset Disk, 18'	6.00						Tractor
	Pickup use 40 Mi/Ac	Pickup Truck, 1/2 Ton	0.75						
*110750 14									

<sup>\*</sup>NOTES: Machine times, labor times, and material rates are for one time over the designated acreage.

Table 12F Operations Calendar; Fall Leaf Lettuce, 2001COUNTY: MaricopaFARM: Maricopa VegCROP: Lettuce, LeafACRES: 1.0AREA: Salt River ProjectYIELD: 410 Ct/Acre WATER SOURCE: SRP TILLAGE: Double Crop SOIL: DATE: Sandy-Loam 09/17/2001 Flood Furrow IRRIGATION SYSTEM: PREVIOUS CROP: Mixed Greens

ANLA.	Sail River Froject	HILLD.	410 CVACIE			1 1 ( V I V	JUS CRUI		MIXEU	JICCIIS		DAIL.	09/11/20	<i>7</i> 0 i	
							Mont	h and Tir	nes Oper	ation Pe	rformed -				
No.	Operation		Ja	1	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip								0.5 c						
2	Plow								1.0 C						
3	Disk								2.0 C		1.0 C				
4	Landplane										0.5 C				
5	Soil Fertility										1.0 C				
6	Apply Fert/Ground										1.0 C				
7	List										1.0 C				
8	Mulch											1.0 C			
9	Plant											1.0 C			
10	Apply Insect/Ground											1.0 C			
11	Apply Herbicide/Ground											1.0 C			
12	Set Sprinklers											1.0 C			
13	Irrigate/Sprinkler											6.0 C			
14	Remove Sprinklers											1.0 C			
15	Buck Rows											1.0 C	1.0 C		
16	Irrigate											1.0 C	2.0 C	1.0 C	
17	Disk Ends											1.0 C	1.0 C	1.0 C	
18	Apply Insect/Ground											1.0 C			
19	Thinning											1.0 C			
20	Cultivate/Side Dress											1.0 C	1.0 C		
21	Apply Insect/Ground											1.0 C	1.0 C		
22	Apply Insect/Ground											1.0 C	2.0 C		
22 23	Irrigate/Run Fertilizer												1.0 C		
24	Prepare Ends													1.0 C	
25	Harvest, Load & Haul													1.0 C	
26	Disk Residue														1.0 C
* NOTE:	P = Previous Year C = Cu	urrent Year	N = Next Yea	r											

# Table 13A. Income and Cash Operating Summary; Green Onions, 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Onions, Green IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam Salt River Project 1,400.0 Ct / Acre PREVIOUS CROP: AREA: YIELD: DATE: 9/11/01 Honeydew Melons

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Onions	Crtn	1,400.00	\$9.25	\$12,950.00	\$12,950.00	
CASH LAND PREPARATION AND GR Paid Labor (including benefits) Tractor/Self Propelled Irrigation Other/ Contract	OWING EXPENSES (incl	uding sales tax)		87.59 70.24 6.50	164.33	
Chemicals and Custom Applications Fertilizer Insecticide Herbicide				95.89 27.33 39.19	162.41	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance Irrigation Water (excluding labor) Water Assessment (See Note Below	/) **			23.16 35.37	58.53 17.50	
Other Purchased Inputs & Seed/Transplants Other Services and Rentals	,			492.52 78.00	570.52	
T CASH HARVEST AND POST HARVES	OTAL CASH LAND PREF TEXPENSES	PARATION AND GROWIN	IG EXPENSES		973.29	
Paid Labor (including benefits) Tractor/Self Propelled				0.49	0.49	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				0.09 0.14	0.24	
Custom Harvest/Post Harvest Other Materials					7000.00 1997.73	
OPERATING OVERHEAD -> PICKUP OPERATING INTEREST AT 10.0%	OTAL HARVEST AND POUSE	OST HARVEST EXPENSE			8998.46 7.63 19.76	
TOTAL CASH OPERATING EXPENSE RETURNS OVER CASH OPERA					\$9,999.13 \$2,950.87	

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

<sup>\*\*</sup> A water assessment charge of \$10.14 per Acre is included as an ownership cost in Table B.

# Table 13B. Allocations of Ownership Costs; Green Onions, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Onions, Green ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 1,400.0 Ct / Acre PREVIOUS CROP: Honeydew Melons DATE: 9/11/01

Item	CASH COST BAS Income and Costs	IS (\$/ACRE) Net Returns	TOTAL COST BAS Income and Costs	SIS (\$/ACRE) Net Returns
TOTAL INCOME at \$9.25 / Ct TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$12,950.00 \$9,999.13	\$2,950.87	\$12,950.00 \$9,999.13	\$2,950.87
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead ( 5.0% of Total Operating Exp.) General Farm Maintenance ( 3.0% of Total Operating Exp.)	6.47 499.96 299.97		6.47 499.96 299.97	
Total Cash Overhead Expenses	806.40		806.40	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity)	10,805.53	\$2,144.47	10,805.53	\$2,144.47
Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles			36.28 14.44	
Total Capital Allocations  RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK  RETURNS TO LAND, MANAGEMENT AND RISK		> \$2,144.47	50.73	> \$2,093.74
Land Cost / Rent or Lease Water Assessment **	200.00 10.14		200.00 10.14	
Total Land Costs  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO MANAGEMENT AND RISK			210.13	\$1,883.61
Management Services ( 8% of Total Operation Expenses)			799.93	
TOTAL OWNERSHIP COST	1,016.54		1,867.19	
TOTAL COST RETURNS TO CAPITAL, MANAGEMENT AND RISK			\$11,866.32	
RETURNS TO RISK (PROFITS)		· · ·	>	\$1,083.68
Item	CASH COST BASI	S (\$/ACRE) Net Returns	TOTAL COST BASI Income and Costs	S (\$/ACRE) Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST ( PER Lb ) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$7.14 \$0.73 \$7.87		\$7.14 \$1.33 \$8.48

Table 13C. Variable Operating Costs; Green Onions, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Onions, Green ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam 1,400.0 Ct / Acre PREVIOUS CROP: AREA: YIELD: Salt River Project Honeydew Melons DATE: 9/11/01

No.	First Mont	h Operation	Hour Machine		Operati Fuel/Rps.	•	(\$/ACRE * Cust/Serv.		ation Total	Times	Tot. Cash Expenses	Class	
1	May	Plow	0.900	1.000	11.25	9.75			21.00	1.0	21.00	L	
2	May	Disk	0.600	0.667	4.01	6.50			10.51	4.0	42.04	L	
3	Jun	Laser Level	0.450	0.500	4.72	4.87			9.60	0.5	4.80	L	
4	Jul	Soil Fertility					3.00		3.00	1.0	3.00	G	
5	Aug	Apply Fert/Ground	0.450	0.500	3.73	4.87		26.48	35.08	1.0	35.08	G	
6	Aug	List	0.300	0.333	2.08	3.25			5.33	1.0	5.33	L	
7	Aug	Mulch	0.300	0.333	2.53	3.25			5.78	1.0	5.78	L	
8	Sep	Plant	0.600	1.334	4.04	13.00		492.52	509.56	1.0	509.56	L	
9	Sep	Apply Herbicide/Ground	0.225	0.250	1.15	2.44		39.19	42.78	1.0	42.78	G	
10	Sep	Buck Rows	0.045	0.050	0.19	0.49			0.68	1.0	0.68	G	
11	Sep	Irrigate		1.000		9.75		2.50	12.25	6.0	73.49	G	
12	Sep	Disk Ends	0.045	0.050	0.24	0.49			0.73	4.0	2.91	G	
13	Sep	Apply Insect./Ground	0.180	0.200	0.92	1.95		13.66	16.53	2.0	33.06	G	
14	Oct	Cultivate	0.600	0.667	2.83	6.50			9.33	2.0	18.65	G	
15	Oct	Hand Weeding					75.00		75.00	1.0	75.00	G	
16	Oct	Apply Fert/Ground	0.450	0.500	3.73	4.87		63.42	72.02	1.0	72.02	G	
17	Nov	Irrigate/Run Fertilizer		1.205		11.75		8.49	20.24	1.0	20.24	G	
18	Dec	Prepare Ends	0.045	0.050	0.24	0.49			0.73	1.0	0.73	Н	
19	Dec	Harvest, Load & Haul					7000.00	1997.73	8997.73	1.0	8997.73	Н	
20	Jan	Disk Residue	0.450	0.500	3.01	4.87			7.88	1.0	7.88	L	
		Pickup Use 30 Mi/Acre	1.000		7.63						7.63		
		Operating Interest at 10.0					19.76				19.76		
		TOTAL CASH OPERATING	EXPENSE	S (includes	all times over):						9999.13	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 \$10.14 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY B	Y CLASS	SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE)								
Land Preparation (L)	596.37	Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%		
Growing (G)	376.91	Yields		\$6.94	\$8.32	\$9.25	\$10.18	\$11.56	Break-even Price	
Harvest (H)	8,998.46								·	
Post Harvest (P)	0.00	- 25%	1,050.0	-445.38	1,011.49	1,982.74	2,953.99	4,410.87	7.36	
Marketing (M)	0.00	- 10%	1,260.0	-338.28	1,409.97	2,575.47	3,740.97	5,489.22	7.21	
Operating Overhead (O)	27.38	Budgeted	1,400.0	-266.87	1,675.63	2,970.63	4,265.63	6,208.13	7.13	
		+ 10%	1,540.0	-195.47	1,941.28	3,365.78	4,790.28	6,927.03	7.06	
Total (T)	\$9,999.13	+ 25%	1,750.0	-88.36	2,339.76	3,958.51	5,577.26	8,005.39	6.99	
		Break-even `	Yield	1,923.25	516.94	347.53	261.75	191.02		

Table 13D. Resource and Cash Flow Requirements; Green Onions, 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Onions, Green IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam Salt River Project 1,400.0 Ct / Acre PREVIOUS CROP: Honeydew Melons DATE: AREA: YIELD: 9/11/Ó1

	Number	Water	Total		Purchased Fuel. Oil			CRE *) Other			
Month *	Irrigations	Applied (inches)	Labor (Hrs)	Water	and Repairs	Labor	Chemicals	Purchases	Services	Total	
MAY C JUN C JUL C AUG C SEP C OCT C NOV C DEC C JAN N Pickup Use 3 Operating Int Water Asses	terest at 10.0	21.0 14.0 10.0	1.67 0.92 0.67 1.83 4.93 3.47 2.87 0.05 0.50	9.17 8.33	15.26 6.37 4.01 12.34 6.78 7.95 2.83 0.24 3.01 7.63	16.25 8.94 6.50 17.87 48.10 33.80 28.00 0.49 4.87	26.48 52.86 77.08 5.99	492.52 1997.73	3.00 75.00 7000.00 19.76	31.51 15.31 13.51 56.69 600.25 203.00 45.15 8998.46 7.88 7.63 19.76	
Total %	7.0	45.0	16.91	17.50 0.18	66.40 0.66	164.82 1.65	162.41 1.62	2490.25 24.90	7097.78 70.98	9999.13 100.00	
TOTAL RES Total N Total P Total Labo Total Wate		UIREMENTS 177.0 40.0 16.9 45.0	S (per Acre)	TOTAL ENEF Diesel Fu Unleaded All Direct	Gas	27.3 Ga 3.0 Ga	l				
Bed Shap Drag Scra Lister, 5 B Pickup Tr Rowbuck	aper, 14' Bottom ruck, 1/2 Ton	0.9 0.3 0.4 1.9 0.9	60 Hr 22 Hr 30 Hr 00 Hr	Cultivator, Sweep, 3 Fert. Side Dress Ur Moldboard Plow, 3- Planter, Planet Jr, 4 Tractor, 50 PTO HR	nit, 0.9 16 2 0.9 0.6	0 Hr 0 Hr 0 Hr 0 Hr 0 Hr 6 Hr	Directed S Laser, Con Offset Disk Power Mul Tractor, 70	nplete System , 8' cher, 4 Rw	0.59 Hr 0.22 Hr 3.08 Hr 0.30 Hr 4.05 Hr		
16-20-00, DCPA Methyl Pa		200.i 6.i 2.i	00 Lb 00 Lb	32-00-00, URAN 32 Green Onion Seed Water, District	22.0	0 Ga 0 Lb 0 Al	33-00-00, A Methomyl Waxed Ca	Amm. Nitrate,	375.00 Lb 3.00 Pt 1400.00 Ct		
Irrigators			20 Hr	Other	0.6	7 Hr	Tractor		9.03 Hr		

<sup>\*</sup>NOTE: P = Previous Year C = Current Year N = Next Year

<sup>\*\*</sup> A water assessment charge of \$10.14 per Acre is included as an ownership cost in Table B.

Table 13E. Schedule of Operations; Green Onions, 2001

COUNTY: Maricopa FARM: Maricopa Veg TILLAGE: Double Crop WATER SOURCE: Salt River Project CROP: Onions, Green ACRES: Sandy-Loam 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Salt River Project 1,400.0 Ct / Acre PREVIOUS CROP: DATE: 9/11/01 AREA: YIELD: Honeydew Melons

First No. Month T	imes Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate	Material U Name			 \$ / Un		ervice Cost Labor	
May	1.0 Plow	100 Moldboard Plow, 3-16 2	1.00						Tractor	
May	4.0 Disk	70 Offset Disk, 8'	1.50						Tractor	
Jun	0.5 Laser Level	100 Drag Scraper, 14' Laser, Complete System	2.00						Tractor	
Jul	1.0 Soil Fertility	CST Soil Analysis (Surface)							3.00 Ac	
Aug	1.0 Apply Fert/Ground	50 Fert. Side Dress Unit, 4Row	2.00	16-20-00, Dry	200.00	Lb	250.50	Tn	Tractor	
Aug	1.0 List	70 Lister, 5 Bottom	3.00	•					Tractor	
Aug	1.0 Mulch	70 Power Mulcher, 4 Rw	3.00						Tractor	
Sep	1.0 Plant	70 Planter, Planet Jr, 4 Unit/2R Bed Shaper, 4 Rw	1.50	Green Onion Seed	22.00	Lb	21.18	Lb	Tractor Other	
Sep	1.0 Apply Herbicide/Ground	50 Directed Spray Rig, 8 Row	4.00	DCPA	6.00	Lb	6.18	Lb	Tractor	
Sep .	1.0 Buck Rows	50 Rowbuck, 10'	20.00						Tractor	
Sep	6.0 Irrigate		1.00	Water, District	7.00	Αl	4.29	AF	Irrigators	
Sep .	4.0 Disk Ends	50 Offset Disk, 8'	20.00						Tractor	
Sep	2.0 Apply Insect./Ground	50 Directed Spray Rig, 8 Row		Methomyl Methyl Parathion	1.50 1.00		48.94 30.00		Tractor	
Oct	2.0 Cultivate	50 Cultivator, Sweep, 3 Rw	1.50	•					Tractor	
Oct	1.0 Hand Weeding	CST Hand Weeding							75.00 Ac	
Oct	1.0 Apply Fert/Ground	50 Fert. Side Dress Unit, 4Row	2.00	33-00-00, Amm. Nitrate,	375.00	Lb	320.00	Tn	Tractor	
Nov	1.0 Irrigate/Run Fertilizer			Water, District 32-00-00, URAN 32,	3.00 6.00		10.00 170.80		Irrigators	
Dec	1.0 Prepare Ends	50 Offset Disk, 8'	20.00	,					Tractor	
Dec	1.0 Harvest, Load & Haul	CST Harvest Green Onions	,	Naxed Cartons	1400.00	Ct	1.35	Ct	5.00 Ct	
Jan	1.0 Disk Residue	70 Offset Disk, 8'	2.00						Tractor	
	Pickup use 30 Mi/Ac	Pickup Truck, 1/2 Ton	1.00							

<sup>\*</sup>NOTES: Machine times, labor times, and material rates are for one time over the designated acreage.

Table 13F. Operations Calendar; Green Onions, 2001COUNTY:MaricopaFARM:Maricopa VegCROP:Green OnionsACRES:1.0AREA:Salt River ProjectYIELD:1400 Ct./Acre WATER SOURCE: SRP TILLAGE: Double Crop SOIL: DATE: Sandy-Loam 09/17/2001 Flood Furrow IRRIGATION SYSTEM: PREVIOUS CROP: Honeydew Melons

No.	Operation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip					1.0 C							
2	Disk					1.0 C	1.0 C	1.0 C	1.0 C				
3	Laser Level						0.5 C						
4	Soil Fertility							1.0 C					
5	Apply Fert/Ground								1.0 C				
6	List								1.0 C				
7	Mulch								1.0 C				
8	Plant									1.0 C			
9	Apply Herbicide/Ground									1.0 C			
10	Buck Rows									1.0 C			
11	Irrigate									3.0 C	2.0 C	1.0 C	
12	Disk Ends									2.0 C	2.0 C		
13	Apply Insect./Ground									1.0 C	1.0 C		
14	Cultivate										1.0 C	1.0 C	
15	Hand Weeding										1.0 C		
16	Apply Fert/Ground										1.0 C		
17	Irrigate/Run Fertilizer											1.0 C	
18	Prepare Ends												1.0 C
19	Harvest, Load & Haul												1.0 C
20	Disk Residue	1.0 N											
	D. Desident Vers. O. Ourset Vers.	N. Nest Vees											

<sup>\*</sup> NOTE: P = Previous Year C = Current Year N = Next Year

Table 14A. Income and Cash Operating Summary; Late Spring Cantaloupe, 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Cantaloupes IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: 360.0 Ct / Acre YIELD: PREVIOUS CROP: Safflower DATE: 9/19/01 Salt River Project

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Crtn	360.00	\$13.10	\$4,716.00	\$4,716.00	
CASH LAND PREPARATION AND GROW Paid Labor (including benefits) Tractor/Self Propelled Irrigation Other/ Contract	VING EXPENSES (inclu	uding sales tax)		47.75 52.02 6.34	106.10	
Chemicals and Custom Applications Fertilizer Insecticide Herbicide Other Chemicals				179.62 20.30 33.76 4.93	238.61	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance Irrigation Water (excluding labor) Water Assessment (See Note Below) **	r			19.46 26.24	45.70 20.00	
Other Purchased Inputs & Seed/Transplants Other Services and Rentals				20.00 168.00	188.00	
CASH HARVEST AND POST HARVEST E		PARATION AND GROWIN	IG EXPENSES		598.42	<del></del>
Custom Harvest/Post Harvest Other Materials	TAL HARVEST AND PO	OST HARVEST EXPENSE			1116.00 266.36 1382.36	
OPERATING OVERHEAD -> PICKUP US OPERATING INTEREST AT 10.0%		JOT IN WALCT EXI LINGE	•		7.63 15.45	
TOTAL CASH OPERATING EXPENSES RETURNS OVER CASH OPERATIN	NG EXPENSES				\$2,003.86 \$2,712.14	

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

<sup>\*\*</sup> A water assessment charge of \$10.14 per Acre is included as an ownership cost in Table B.

Table 14B. Allocations of Ownership Costs; Late Spring Cantaloupe, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 360.0 Ct / Acre PREVIOUS CROP: Safflower DATE: 9/19/01

Item	CASH COST BAS Income and Costs	SIS (\$/ACRE) Net Returns	TOTAL COST BASIS (\$/ACRE) Income and Costs Net Returns
TOTAL INCOME at \$13.10 / Ct TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$4,716.00 \$2,003.86	\$2,712.14	\$4,716.00 \$2,003.86 \$2,712.14
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead ( 5.0% of Total Operating Exp.) General Farm Maintenance ( 3.0% of Total Operating Exp.)	5.17 100.19 60.12		5.17 100.19 60.12
Total Cash Overhead Expenses	165.48		165.48
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity)	2,169.34	\$2,546.66	2,169.34 \$2,546.66
Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles			28.04 11.87
Total Capital Allocations  RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK  RETURNS TO LAND, MANAGEMENT AND RISK		> \$2,546.66 	39.91 > \$2,506.75
Land Cost / Rent or Lease Water Assessment **	200.00 10.14		200.00 10.14
Total Land Costs  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO MANAGEMENT AND RISK			210.13 > \$2,296.61
Management Services ( 8% of Total Operation Expenses)			160.31
TOTAL OWNERSHIP COST	375.62		575.83
TOTAL COST RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO RISK (PROFITS)	\$2,379.48	> \$2,336.52	\$2,579.70 > \$2.136.30
TETOMO TO MOR (FROTTIO)			φ <u>ε</u> , του.ου
Item	CASH COST BASI Income and Costs	IS (\$/ACRE) Net Returns	TOTAL COST BASIS (\$/ACRE) Income and Costs Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST ( PER Lb ) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$5.57 \$1.04 \$6.61	\$5.57 \$1.60 \$7.17

Table 14C. Variable Operating Costs; Late Spring Cantaloupe, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: YIELD: 360.0 Ct / Acre PREVIOUS CROP: 9/19/01 Salt River Project Safflower DATE:

No.	First Mont	h Operation	Hour Machine	s * Labor	Operati Fuel/Rps.		(\$/ACRE * Cust/Serv.		ation Total	Times	Tot. Cash Expenses	Class	
1	Feb	Rip	0.450	0.500	5.71	4.87			10.59	0.5	5.29	L	
2	Feb	Disk	0.150	0.167	2.44	1.63			4.07	3.0	12.20	L	
3	Feb	Plow	0.450	0.500	6.50	4.87			11.37	1.0	11.37	L	
4	Feb	Laser Level	0.450	1.000	4.49	9.75			14.24	0.5	7.12	L	
5	Feb	Soil Fertility					3.00		3.00	1.0	3.00	G	
6	Feb	Apply Fert/Ground	0.180	0.200	1.43	1.95		52.32	55.70	1.0	55.70	G	
7	Feb	List	0.225	0.250	2.02	2.44			4.46	1.0	4.46	L	
8	Mar	Plant	0.360	0.800	4.99	7.80		53.75	66.54	1.0	66.54	L	
9	Mar	Buck Rows	0.023	0.025	0.10	0.24			0.34	1.0	0.34	G	
10	Mar	Irrigate		0.667		6.50		2.50	9.00	8.0	72.02	G	
11	Mar	Cultivate	0.225	0.250	1.49	2.44			3.93	7.0	27.51	G	
12	Mar	Apply Fert/Ground	0.257	0.286	2.93	2.79		63.65	69.37	2.0	138.73	G	
13	Apr	Hand Weeding					150.00		150.00	2.0	300.00	G	
14	Apr	Apply Insecticide/Air					4.75	15.55	20.30	1.0	20.30	G	
15	Apr	Apply Fungicide/Air					4.75	0.18	4.93	1.0	4.93	G	
16	May	Pollinate					15.00		15.00	1.0	15.00	G	
17	May	Harvest 360 Ct					1116.00	266.36	1382.36	1.0	1382.36	Н	
18	May	Disk Residue 360 Ct	0.180	0.200	1.94	1.95			3.88	1.0	3.88	L	
		Pickup Use 30 Mi/Acre	1.000		7.63						7.63		
		Operating Interest at 10.0					15.45				15.45		
		TOTAL CASH OPERATING	EXPENSE	S (includes	all times over):						2153.86	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 \$10.14 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY	CLASS	SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE)									
Land Preparation (L)	110.87	Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%			
Growing (G)	637.55	Yields		\$9.83	\$11.79	\$13.10	\$14.41	\$16.38	Break-even Price		
Harvest (H)	1,382.36								,		
Post Harvest (P)	0.00	- 25%	270.0	859.93	1,390.48	1,744.18	2,097.88	2,628.43	6.64		
Marketing (M)	0.00	- 10%	324.0	1,183.13	1,819.79	2,244.23	2,668.67	3,305.33	6.17		
Operating Overhead (O)	23.08	Budgeted	360.0	1,398.59	2,105.99	2,577.59	3,049.19	3,756.59	5.94		
		+ 10%	396.0	1,614.06	2,392.20	2,910.96	3,429.72	4,207.86	5.75		
Total (T)	\$2,153.8	+ 25%	450.0	1,937.25	2,821.50	3,411.00	4,000.50	4,884.75	5.52		
		Break-even Y	ïeld	126.32	95.10	81.65	71.53	60.31			

Table 14D. Resource and Cash Flow Requirements; Late Spring Cantaloupe, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 360.0 Ct / Acre PREVIOUS CROP: Safflower DATE: 9/19/01

Number	Water Applied	Total	Purchased	Fuel, Oil	Operatir	g Costs (\$/A	CRE *) Other		
Month * Irrigations		Labor (Hrs)	Water	and Repairs	Labor	Chemicals	Purchases	Services	Total
FEB C MAR C 2.0 APR C 3.0 MAY C 3.0 JUN C Pickup Use 30 Mi/Acre Operating Interest at 10.0 Water Assessment	12.0 18.0 18.0	2.20 3.19 3.04 2.25 0.20	5.00 15.00	22.37 12.50 7.41 1.49 1.94 7.63	21.46 31.15 29.61 21.94 1.95	52.32 97.41 63.65 15.74	20.00 87.90 178.46	3.00 150.00 392.78 747.72 15.45	99.14 161.05 255.67 534.85 930.07 7.63 15.45
Total 8.0	48.0	10.88	20.00 1.00	53.33 2.67	106.10 5.31	229.11 11.46	286.36 14.32	1304.72 65.25	1999.62 100.00
TOTAL RESOURCE REC Total N Total P Total K Total Labor Total Water	NUIREMENTS (p 149.6 206.2 31.1 10.9 48.0	oer Acre)	TOTAL ENER Diesel Fu Unleaded All Direct	Gas	22.9 Ga 3.0 Ga	1			
EQUIPMENT REQUIREM Bed Shaper, 4 Rw Fertilizer Broadcaster, Lister, 5 Bottom Offset Disk, 18' Rowbuck, 10' Tractor, 70 PTO HP, Tractor, 150 PTO HP,	NENTS (per Acre 0.36 0.18 0.22 0.45 0.02 1.57 1.13	Hr Hr Hr Hr Hr Hr	Cultivator, Sweep, 4 Fertilizer Injector, 4 Moldboard Plow, 4-1 Pickup Truck, 1/2 To Saddle Tk Sprayer, Tractor, 100 PTO HI V-Ripper, 5 Shnk	Row 0.9 16 2 0.9 on 1.9 2 Tk 8 0.9 P, 1.	57 Hr 51 Hr 45 Hr 00 Hr 36 Hr 10 Hr 22 Hr	Offset Disk Planter, Pla Tractor, 50	nplete System k, 13.5' anet Jr, 4 Row	0.22 Hr 0.22 Hr 0.18 Hr 0.36 Hr 0.02 Hr 0.59 Hr	
MATERIALS REQUIREM 11-48-00, Dry Cantaloupe Cartons Esfenvalerate LABOR REQUIREMENT Irrigators	300.00 360.00 0.50	Ct Pt	15-08-04, Lqd Cantaloupe Sd Sulfur	2.i 0.i	00 Ga 00 Lb 25 Lb	Bensulide Endosulfan Water, Dis		6.00 Pt 1.50 Pt 48.00 Al	

<sup>\*</sup>NOTE: P = Previous Year C = Current Year N = Next Year

<sup>\*\*</sup> A water assessment charge of \$10.14 per Acre is included as an ownership cost in Table B.

Table 14E. Schedule of Operations; Late Spring Cantaloupe, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: TILLAGE: Double Crop Salt River Project CROP: Cantaloupes ACRES: IRRIGATION SYSTEM: Flood Furrow Sandy-Loam 1.0 SOIL: AREA: Salt River Project DATE: 9/19/01 YIELD: 360.0 Ct / Acre PREVIOUS CROP: Safflower

First No. Month 1	imes Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Material Name	Use and C Appl.		\$ / Un		Service Cost \$ / Unit	Labor Type
Feb	0.5 Rip	150 V-Ripper, 5 Shnk	2.00							Tractor
Feb	3.0 Disk	150 Offset Disk, 18'	6.00							Tractor
Feb	1.0 Plow	150 Moldboard Plow, 4-16 2	2.00							Tractor
Feb	0.5 Laser Level	125 Drag Scraper, 10'	2.00							Tractor
		Laser, Complete System								Other
Feb	1.0 Soil Fertility	CST Soil Analysis (Surface)							3.00 Ac	
Feb	1.0 Apply Fert/Ground	100 Fertilizer Broadcaster,	5.00	11-48-00, Dry	300.00	Lb	330.00	Tn		Tractor
Feb	1.0 List	100 Lister, 5 Bottom	4.00							Tractor
Mar	1.0 Plant	125 Planter, Planet Jr, 4 Row	2.50	Cantaloupe Sd	2.00	Lb	9.46	Lb		Tractor
		Bed Shaper, 4 Rw		Bensulide	6.00	Pt	42.58	Ga		Other
		Saddle Tk Sprayer, 2 Tk 8 Row								
Mar	1.0 Buck Rows	50 Rowbuck, 10'	40.00							Tractor
Mar	8.0 Irrigate			Water, District	6.00	Αl	5.00	ΑF		Irrigators
Mar	7.0 Cultivate	70 Cultivator, Sweep, 4 Rw	4.00							Tractor
Mar	2.0 Apply Fert/Ground	100 Fertilizer Injector, 4 Row	3.50	15-08-04, Lqd	35.00	Ga	310.00	Tn		Tractor
Apr	2.0 Hand Weeding	CST Hand Weeding							75.00 Ac	
Apr	<ol><li>1.0 Apply Insecticide/Air</li></ol>	CST Air Spray, 5 Gal Mix	I	Esfenvalerate	0.50		135.94	Ga	4.75 Ac	
				Endosulfan				Ga		
Apr	1.0 Apply Fungicide/Air	CST Air Spray, 5 Gal Mix	5	Sulfur	0.25	Lb	0.69	Lb	4.75 Ac	
May	1.0 Pollinate	CST Bee Hive Rental							15.00 Ac	
May	1.0 Harvest	CST Harv/pack/haul Melons		Cantaloupe Cartons	360.00	Ct	0.70	Ct	1.55 Ct	
May	1.0 Disk Residue	100 Offset Disk, 13.5'	5.00							Tractor
	Pickup use 30 Mi/Ac	Pickup Truck, 1/2 Ton	1.00							

<sup>\*</sup>NOTES: Machine times, labor times, and material rates are for one time over the designated acreage.

Table 14F. Operations Calendar; Late Spring Cantaloupe, 2001

COUNTY: Maricopa	FARM: Maricopa Veg	WATER SOURCE: SRP	TILLAGE: Double Crop
CROP: Late Spring Canta	loupe ACRES: 1.0	IRRIGATION SYSTEM: Flood Furrow	SOIL: Sandy-Loam
AREA: Salt River Project	YIELD: 360 Ct./Acre	PREVIOUS CROP: Safflower	DATE: 09/17/2001

					Montl	n and Tin	nes Ope	ration Pe	rformed -				
No.	Operation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip		0.5 C										
2	Disk		3.0 C										
3	Plow		1.0 C										
4	Laser Level		0.5 C										
5	Soil Fertility		1.0 C										
6	Apply Fert/Ground		1.0 C										
7	List		1.0 C										
8	Plant			1.0 C									
9	Buck Rows			1.0 C									
10	Irrigate			2.0 C	3.0 C	3.0 C							
11	Cultivate			3.0 C	3.0 C	1.0 C							
12	Apply Fert/Ground			1.0 C	1.0 C								
13	Hand Weeding				2.0 C								
14	Apply Insecticide/Air					1.0 C							
15	Apply Fungicide/Air					1.0 C							
16	Pollinate					1.0 C							
17	Disk Residue						1.0 C						
* NOTE:	D - Desidence Vees C - Comment Vees N - New												

<sup>\*</sup> NOTE: P = Previous Year C = Current Year N = Next Year

Table 15A. Income and Cash Operating Summary; Spinach, 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: Salt River Project TILLAGE: Double Crop 1.0 494.0 Ct / Acre CROP: Spinach IRRIGATION SYSTEM: Flood Furrow Sandy-Loam SOIL: Salt River Project AREA: YIELD: PREVIOUS CROP: Watermelons DATE: 9/11/01

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Spinach	Crtn	494.00	\$14.18	\$7,004.92	\$7,004.92	
CASH LAND PREPARATION AND GRO Paid Labor (including benefits) Tractor/Self Propelled Irrigation	OWING EXPENSES (inclu	iding sales tax)		69.39 58.49	127.88	
Chemicals and Custom Applications Fertilizer Insecticide Herbicide				134.59 24.03 73.91	232.53	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				31.55 39.40	70.95	
Irrigation Water (excluding labor) Water Assessment (See Note Below)	**				10.00	
Other Purchased Inputs & Seed/Transplants Other Services and Rentals				186.03 78.00	264.03	
TO CASH HARVEST AND POST HARVEST	OTAL CASH LAND PREF ΓEXPENSES	PARATION AND GROWIN	NG EXPENSES		705.39	
Paid Labor (including benefits) Tractor/Self Propelled				0.49	0.49	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				0.09 0.14	0.24	
Custom Harvest/Post Harvest Other Materials					1605.50 704.91	
TO OPERATING OVERHEAD -> PICKUP U OPERATING INTEREST AT 10.0%	OTAL HARVEST AND PO JSE	OST HARVEST EXPENSE			2311.14 7.63 9.84	
TOTAL CASH OPERATING EXPENSES RETURNS OVER CASH OPERAT					\$3,034.00 \$3,970.92	

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

<sup>\*\*</sup> A water assessment charge of \$10.14 per Acre is included as an ownership cost in Table B.

# Table 15B. Allocations of Ownership Costs; Spinach, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Spinach ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 494.0 Ct / Acre PREVIOUS CROP: Watermelons DATE: 9/11/01

Item	CASH COST BA	SIS (\$/ACRE) Net Returns	TOTAL COST BAS Income and Costs	SIS (\$/ACRE) Net Returns
TOTAL INCOME at \$14.18 / Ct	\$7,004.92		\$7,004.92	
TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$3,034.00	\$3,970.92	\$3,034.00	\$3,970.92
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead ( 5.0% of Total Operating Exp.) General Farm Maintenance ( 3.0% of Total Operating Exp.)	7.97 151.70 91.02		7.97 151.70 91.02	
Total Cash Overhead Expenses	250.69		250.69	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity)	3,284.69	\$3,720.23	3,284.69	\$3,720.23
Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles			42.72 19.90	
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK		> \$3,720.23	62.61	> \$3,657.61
Land Cost / Rent or Lease Water Assessment **	200.00 10.14		200.00 10.14	
Total Land Costs  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO MANAGEMENT AND RISK	210.13	> \$3,510.09	210.13	> \$3,447.48
Management Services ( 8% of Total Operation Expenses)			242.72	
TOTAL OWNERSHIP COST	460.83		766.16	
TOTAL COST  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO RISK (PROFITS)			\$3,800.16	> \$3,204.76
Item	CASH COST BAS Income and Costs	SIS (\$/ACRE) Net Returns	TOTAL COST BAS Income and Costs	IS (\$/ACRE) Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$6.14 \$0.93 \$7.07		\$6.14 \$1.55 \$7.69

Table 15C. Variable Operating Costs; Spinach, 2001

WATER SOURCE: COUNTY: Maricopa FARM: Maricopa Veg Salt River Project TILLAGE: Double Crop CROP: Spinach ACRES: Sandy-Loam 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: AREA: Salt River Project YIELD: 494.0 Ct / Acre PREVIOUS CROP: Watermelons DATE: 9/11/01

No.	First Mont	h Operation	Hour Machine	s * Labor	Operati Fuel/Rps.		(\$/ACRE * Cust/Serv.		ation Total	Times	Tot. Cash Expenses	Class	
1	Aug	Plow	0.900	1.000	15.16	9.75			24.91	1.0	24.91	1	
2	Aug	Disk	0.600	0.667	10.58	6.50			17.08	2.0	34.16	ī	
3	Aug	Laser Level	0.450	0.500	6.62	4.87			11.50	0.5	5.75	Ē	
4	Aug	Soil Fertility					3.00		3.00	1.0	3.00	Ġ	
5	Aug	Apply Fert/Ground	0.090	0.100	0.71	0.97		52.32	54.01	2.0	108.02	Ğ	
6	Sep	List	0.300	0.333	2.08	3.25			5.33	1.0	5.33	Ĺ	
7	Sep	Mulch	0.300	0.333	2.53	3.25			5.78	1.0	5.78	L	
8	Sep	Plant	0.600	0.667	4.04	6.50		186.03	196.57	1.0	196.57	L	
9	Sep	Apply Herbicide/Ground	0.150	0.167	1.62	1.62		73.91	77.15	1.0	77.15	G	
10	Sep	Buck Rows	0.045	0.050	0.19	0.49			0.68	3.0	2.05	G	
11	Sep	Irrigate		1.000		9.75		1.67	11.42	6.0	68.49	G	
12	Sep	Disk Ends	0.045	0.050	0.27	0.49			0.76	3.0	2.27	G	
13	Oct	Apply Insect./Ground	0.090	0.100	0.46	0.97		9.70	11.13	1.0	11.13	G	
14	Oct	Cultivate	0.600	0.667	2.83	6.50			9.33	2.0	18.65	G	
15	Oct	Apply Fert/Ground	0.450	0.500	3.73	4.87		29.95	38.55	1.0	38.55	G	
16	Oct	Apply Insect./Ground	0.090	0.100	0.46	0.97		14.33	15.77	1.0	15.77	G	
17	Oct	Hand Weeding					75.00		75.00	1.0	75.00	G	
18	Nov	Prepare Ends	0.045	0.050	0.24	0.49			0.73	1.0	0.73	Н	
19	Nov	Harvest, Load & Haul 494					1605.50	704.91	2310.41	1.0	2310.41	Н	
20	Dec	Disk Residue 494 Ct	0.450	0.500	7.93	4.87			12.81	1.0	12.81	L	
		Pickup Use 30 Mi/Acre	1.000		7.63						7.63		
		Operating Interest at 10.0					9.84				9.84		
		TOTAL CASH OPERATING	EXPENSE	S (includes	all times over):						3034.00	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 \$10.14 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE) Prices -> Land Preparation (L) 285.30 - 25% - 10% Budgeted + 10% + 25% Growing (G) 420.09 Yields \$10.64 \$12.76 \$14.18 \$15.60 \$17.73 Break-even Price Harvest (H) 2,311.14 Post Harvest (P) - 25% 370.5 1,493.89 2,281.95 2,807.32 3,332.69 4,120.74 6.60 0.00 Marketing (M) 444.6 1,935.28 2,880.94 5,087.49 6.28 0.00 - 10% 3,511.38 4,141.83 494.0 2,229.53 6.12 Operating Overhead (O) Budgeted 3,280.27 3,980.76 5,731.99 17.47 4,681.25 + 10% 543.4 2,523.79 3,679.60 4,450.14 5,220.68 6,376.49 5.99 + 25% 7,343.24 Total (T) \$3,034.00 617.5 2,965.17 4,278.59 5,154.21 6,029.82 5.83 Break-even Yield 119.70 88.21 75.04 65.30 54.65

Table 15D. Resource and Cash Flow Requirements; Spinach, 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: Salt River Project TILLAGE: Double Crop 1.0 IRRIGATION SYSTE 494.0 Ct / Acre PREVIOUS CROP: CROP: Spinach IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam Salt River Project DATE: AREA: YIELD: 9/11/01 Watermelons

	Number	Water Applied	Total	 Purchased	Fuel, Oil	Operati	ing Costs (\$/A	CRE *) Other			
Month *	Irrigations	(inches)	Labor (Hrs)	Water	and Repairs	Labor	Chemicals	Purchases	Services	Total	
AUG C SEP C OCT C NOV C DEC C Pickup Use : Operating Int Water Asses	erest at 10.0	12.0 18.0 6.0	2.68 3.70 4.57 1.72 0.50	5.00 5.00	40.34 11.45 8.40 3.06 7.93 7.63	26.16 36.07 44.52 16.74 4.87	126.23 53.98	186.03 704.91	3.00 75.00 1605.50 9.84	121.83 359.78 186.90 2335.22 12.80 7.63 9.84	
Total %	6.0	36.0	13.17	10.00 0.33	78.81 2.60	128.38 4.23		890.94 29.37	1693.34 55.81	3034.00 100.00	
TOTAL RES Total N Total P Total Labo Total Wate	or	172.2 288.0 13.2 36.0	(per Acre)	TOTAL ENEF Diesel Fu Unleaded All Direct	Gas	37.2 G 3.0 G	al				
Bed Shap Drag Scra Laser, Co Offset Dis Pickup Tr Rowbuck, Tractor, 7 Tractor, 1	er, 4 Rw aper, 14' mplete Systen ik, 10.5' uck, 1/2 Ton , 10' 70 PTO HP, 75 PTO HP,	0.22 0.14 0.14 1.00 0.14 1.20 2.77	0 Hr 2 Hr 2 Hr 4 Hr 0 Hr 4 Hr 0 Hr 7 Hr	Cultivator, Sweep, 3 Fert. Side Dress Ur Lister, 5 Bottom Offset Disk, 16.5' Planter, Planet Jr, 4 Saddle Tk Sprayer, Tractor, 100 PTO H	it, 0. 0. 1. 0. 2 Tk 8 0.	20 Hr 45 Hr 30 Hr 65 Hr 60 Hr 15 Hr	Fertilizer B Moldboard Offset Disk Power Mul Tractor, 50	lcher, 4 Rw	0.18 Hr 0.18 Hr 0.90 Hr 0.05 Hr 0.30 Hr 2.14 Hr 0.18 Hr		
11-48-00, Endosulfa Pronamid Waxed Ca	Dry n e artons	2.00 494.00	, O Lb O Pt O Lb	32-00-00, URAN 32 Methomyl Spinach Seed (Hyb)	1.	00 Ga 50 Pt 00 Lb	Benefin Permethrir Water, Dis	-	2.00 Pt 10.00 Oz 36.00 Al		
LABOR REC Irrigators	QUIREMENT (		0 Hr	Tractor	7.	17 Hr					

<sup>\*</sup>NOTE: P = Previous Year C = Current Year N = Next Year

<sup>\*\*</sup> A water assessment charge of \$10.14 per Acre is included as an ownership cost in Table B.

Table 15E. Schedule of Operations; Spinach, 2001

COUNTY: Maricopa FARM: Maricopa Veg TILLAGE: Double Crop WATER SOURCE: Salt River Project CROP: Spinach ACRES: IRRIGATION SYSTEM: Flood Furrow Sandy-Loam 1.0 SOIL: AREA: Salt River Project 494.0 Ct / Acre PREVIOUS CROP: DATE: YIELD: Watermelons 9/11/01

First No. Month T	imes Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Material I Name	Use and C Appl.		\$ / Unit		rvice Cost \$ / Unit	Labor Type
Aug	1.0 Plow	175 Moldboard Plow, 4-16 2	1.00						-	Tractor
Aug	2.0 Disk	175 Offset Disk, 16.5'	1.50						•	Tractor
Aug	0.5 Laser Level	175 Drag Scraper, 14'	2.00						•	Tractor
		Laser, Complete System								
Aug	1.0 Soil Fertility	CST Soil Analysis (Surface)							3.00 Ac	
Aug	2.0 Apply Fert/Ground	100 Fertilizer Broadcaster,		11-48-00, Dry	300.00	Lb	330.00	Tn		Tractor
Sep	1.0 List	70 Lister, 5 Bottom	3.00							Tractor
Sep	1.0 Mulch	70 Power Mulcher, 4 Rw	3.00						-	Tractor
Sep	1.0 Plant	70 Planter, Planet Jr, 4 Unit/2R	1.50	Spinach Seed (Hyb)	22.00	Lb	8.00	Lb	-	Tractor
		Bed Shaper, 4 Rw								
Sep	1.0 Apply Herbicide/Ground	100 Saddle Tk Sprayer, 2 Tk 8		Benefin	2.00		8.69		-	Tractor
				Pronamide	2.00	Lb	26.27	Lb		
Sep	3.0 Buck Rows	50 Rowbuck, 10'	20.00							Tractor
Sep	6.0 Irrigate			Water, District	6.00	ΑI	3.33	٩F		rrigators
Sep	3.0 Disk Ends	50 Offset Disk, 10.5'	20.00							Tractor
Oct	1.0 Apply Insect./Ground	50 Directed Spray Rig, 8 Row		Methomyl	1.50	Pt	48.94 (	За	•	Tractor
Oct	2.0 Cultivate	50 Cultivator, Sweep, 3 Rw	1.50						-	Tractor
Oct	1.0 Apply Fert/Ground	50 Fert. Side Dress Unit, 4Row	2.00	32-00-00, URAN 32,	30.00	Ga	170.80	Tn	-	Tractor
Oct	1.0 Apply Insect./Ground	50 Directed Spray Rig, 8 Row	10.00	Permethrin	10.00	Oz	120.50	Ga	•	Tractor
			E	Endosulfan	1.00	Pt	33.17	Ga		
Oct	1.0 Hand Weeding	CST Hand Weeding							75.00 Ac	
Nov	1.0 Prepare Ends	50 Offset Disk, 8'	20.00						-	Tractor
Nov	1.0 Harvest, Load & Haul	CST Harvest Spinach	\	Vaxed Cartons	494.00	Ct	1.35	Ct	3.25 Ct	
Dec	1.0 Disk Residue	175 Offset Disk, 16.5'	2.00						-	Tractor
	Pickup use 30 Mi/Ac	Pickup Truck, 1/2 Ton	1.00							

<sup>\*</sup>NOTES: Machine times, labor times, and material rates are for one time over the designated acreage.

Table 15F. Operations Calendar; Spinach, 2001COUNTY: MaricopaFARM: Maricopa Veg SRP TILLAGE: Double Crop WATER SOURCE: CROP: AREA: Spinach Salt River Project ACRES: 1.0 YIELD: 494 Ct./Acre Sandy-Loam 09/17/2001 SOIL: IRRIGATION SYSTEM: Flood Furrow PREVIOUS CROP: Watermelons DATE:

					Mont	h and Tii	nes Ope	ration Pe	erformed -				
No.	Operation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip								1.0 C				
2	Disk								2.0 C				
3	Laser Level								0.5 C				
4	Soil Fertility								1.0 C				
5	Apply Fert/Ground								1.0 C	1.0 C			
6	List									1.0 C			
7	Mulch									1.0 C			
8	Plant									1.0 C			
9	Apply Herbicide/Ground									1.0 C			
10	Buck Rows									1.0 C	2.0 C		
11	Irrigate									2.0 C	3.0 C	1.0 C	
12	Disk Ends									1.0 C	2.0 C		
13	Apply Insect./Ground										1.0 C		
14	Cultivate										1.0 C	1.0 C	
15	Apply Fert/Ground										1.0 C		
16	Apply Insect./Ground										1.0 C		
17	Hand Weeding										1.0 C		
18	Prepare Ends											1.0 C	
19	Harvest, Load & Haul											1.0 C	
20	Disk Residue												1.0 C

<sup>\*</sup> NOTE: P = Previous Year C = Current Year N = Next Year

# Table 16A. Income and Cash Operating Summary; Spring Cantaloupe, 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Cantaloupes IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: 360.0 Ct / Acre YIELD: PREVIOUS CROP: Safflower DATE: 9/11/01 Salt River Project

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Crtn	360.00	\$13.10	\$4,716.00	\$4,716.00	
CASH LAND PREPARATION AND GR Paid Labor (including benefits) Tractor/Self Propelled Irrigation Other/ Contract	OWING EXPENSES (incl	uding sales tax)		51.00 58.52 9.59	119.10	
Chemicals and Custom Applications Fertilizer Insecticide Herbicide Other Chemicals				179.62 41.24 33.76 4.42	259.04	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance Irrigation Water (excluding labor)				20.35 29.01	49.36 25.00	
Water Assessment (See Note Below	/) **				25.00	
Other Purchased Inputs & Seed/Transplants Other Services and Rentals Other Materials				20.00 168.00 386.02	574.01	
CASH HARVEST AND POST HARVES		PARATION AND GROWI	NG EXPENSES		1026.51	<del></del>
Custom Harvest/Post Harvest Other Materials	FOTAL HARVEST AND P	OST HARVEST EXPENSI	E		1116.00 266.36 1382.36	
OPERATING OVERHEAD -> PICKUP OPERATING INTEREST AT 10.0%	USE				7.63 27.84	
TOTAL CASH OPERATING EXPENSE RETURNS OVER CASH OPERA					\$2,444.34 \$2,271.66	

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

\*\* A water assessment charge of \$10.14 per Acre is included as an ownership cost in Table B.

# Table 16B. Allocations of Ownership Costs; Spring Cantaloupe, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 360.0 Ct / Acre PREVIOUS CROP: Safflower DATE: 9/11/01

Item	CASH COST BAS Income and Costs	SIS (\$/ACRE) Net Returns	TOTAL COST BA	SIS (\$/ACRE) Net Returns
TOTAL INCOME at \$13.10 / Ct TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$4,716.00 \$2,444.34	\$2,271.66	\$4,716.00 \$2,444.34	\$2,271.66
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead ( 5.0% of Total Operating Exp.) General Farm Maintenance ( 3.0% of Total Operating Exp.)	5.69 122.22 73.33		5.69 122.22 73.33	
Total Cash Overhead Expenses	201.24		201.24	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity)	2,645.58	\$2,070.42	2,645.58	\$2,070.42
Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles			31.04 13.44	
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK			44.47	> \$2,025.95
Land Cost / Rent or Lease Water Assessment **	200.00 10.14		200.00 10.14	
Total Land Costs  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO MANAGEMENT AND RISK	210.13	> \$1,860.28	210.13	> \$1,815.81
Management Services ( 8% of Total Operation Expenses)			195.55	
TOTAL OWNERSHIP COST	411.38		651.40	
TOTAL COST  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO RISK (PROFITS)			\$3,095.74	> \$1,620.26
Item	CASH COST BAS Income and Costs		TOTAL COST BAS Income and Costs	SIS (\$/ACRE) Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST ( PER Lb ) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$6.79 \$1.14 \$7.93		\$6.79 \$1.81 \$8.60

Table 16C. Variable Operating Costs; Spring Cantaloupe, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: YIELD: 360.0 Ct / Acre PREVIOUS CROP: 9/11/Ó1 Salt River Project Safflower DATE:

No.	First Mont	h Operation	Hour Machine		Operati Fuel/Rps.		(\$/ACRE *) Cust/Serv.		ation Total	Times	Tot. Cash Expenses	Class	
1	Feb	Rip	0.450	0.500	5.71	4.87			10.59	0.5	5.29	L	
2	Feb	Disk	0.150	0.167	2.44	1.63			4.07	3.0	12.20	L	
3	Feb	Plow	0.450	0.500	6.50	4.87			11.37	1.0	11.37	L	
4	Feb	Laser Level	0.450	1.000	4.49	9.75			14. <u>2</u> 4	0.5	7.12	L	
5	Feb	Soil Fertility					3.00		3.00	1.0	3.00	G	
6	Feb	Apply Fert/Ground	0.180	0.200	1.43	1.95		52.32	55.70	1.0	55.70	G	
7	Feb	List	0.225	0.250	2.02	2.44			4.46	1.0	4.46	L	
8	Feb	Plant	0.360	0.800	6.51	7.80		53.75	68.07	1.0	68.07	L	
9	Feb	Apply Mulch	0.150	0.333	0.89	3.25		386.02	390.15	1.0	390.15	G	
10	Mar	Buck Rows	0.023	0.025	0.10	0.24			0.34	1.0	0.34	G	
11	Mar	Irrigate		0.667		6.50		2.78	9.28	9.0	83.52	G	
12	Mar	Remove Mulch	0.150	0.333	1.24	3.25			4.49	1.0	4.49	G	
13	Mar	Cultivate	0.225	0.250	1.49	2.44			3.93	7.0	27.51	G	
14	Mar	Apply Fert/Ground	0.257	0.286	2.93	2.79		63.65	69.37	2.0	138.73	G	
15	Apr	Apply Insecticide/Air					4.75	15.87	20.62	2.0	41.24	G	
16	Apr	Apply Fungicide/Air					4.24	0.18	4.42	1.0	4.42	G	
17	Apr	Hand Weeding					75.00		75.00	2.0	150.00	G	
18	Apr	Pollinate					15.00		15.00	1.0	15.00	G	
19	May	Harvest, Load & Haul 720					1116.00	266.36	1382.36	1.0	1382.36	Н	
20	May	Disk Residue 720 Ct	0.180	0.200	1.94	1.95			3.88	1.0	3.88	L	
	-	Pickup Use 30 Mi/Acre	1.000		7.63						7.63		
		Operating Interest at 10.0					27.84				27.84		
		TOTAL CASH OPERATING	EXPENSE:	S (includes	all times over):						2444.34	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 \$10.14 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY B	Y CLASS	SENSITIVITY	OF THE N	<b>IET REVEN</b>	<b>UES OVER</b>	<b>TOTAL CASI</b>	H EXPENSE	S (\$/ACRE	)
Land Preparation (L)	112.39	Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Growing (G)	914.12	Yields		\$9.83	\$11.79	\$13.10	\$14.41	\$16.38	Break-even Price
Harvest (H)	1,382.36								
Post Harvest (P)	0.00	- 25%	270.0	422.34	952.89	1,306.59	1,660.29	2,190.84	8.26
Marketing (M)	0.00	- 10%	324.0	745.54	1,382.20	1,806.64	2,231.08	2,867.74	7.52
Operating Overhead (O)	35.47	Budgeted	360.0	961.00	1,668.40	2,140.00	2,611.60	3,319.00	7.16
		+ 10%	396.0	1,176.46	1,954.60	2,473.36	2,992.12	3,770.26	6.85
Total (T)	\$2,444.34	+ 25%	450.0	1,499.66	2,383.91	2,973.41	3,562.91	4,447.16	6.49
		Break-even Y	ïeld	199.43	150.14	128.90	112.93	95.22	

Table 16D. Resource and Cash Flow Requirements; Spring Cantaloupe, 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Cantaloupes IRRIGATION SYSTEM: Flood Furrow Sandy-Loam SOIL: Salt River Project DATE: AREA: YIELD: 360.0 Ct / Acre PREVIOUS CROP: Safflower 9/11/Ó1

		Water				Ope	rating	Costs (\$/A	CRE *)			
	Number	Applied	Total	Purchased	Fuel, Oil	•	•	•	Other			
Month *	Irrigations	(inches)	Labor (Hrs)	Water	and Repairs	Lab	or	Chemicals	Purchases	Services	Total	
FED 0	4.0	0.0	0.75		07.75	00		00.00	400.04	0.00	550.44	
FEB C	1.0	6.0	3.75		27.75		3.57	86.08	406.01	3.00	559.41	
MAR C APR C	2.0 3.0	12.0 18.0	2.73 3.04	10.00	8.75 7.41		6.60 9.61	63.65 79.70		173.99	99.00 300.71	
MAY C	3.0	18.0	3.0 <del>4</del> 2.25	15.00	7.41 1.49		1.94	79.70 15.87	87.90	373.03	500.71 515.23	
JUN C	3.0	10.0	2.25 0.45	15.00	3.95		1.3 <del>4</del> 1.39	15.67	67.90 178.46	747.72	934.52	
Pickup Use	30 Mi/Acre		0.45		7.63	-	+.59		170.40	141.12	7.63	
	erest at 10.0				7.00					27.84	27.84	
Water Asses				**						21.04	21.04	
Water Asses	Sincin											
Total	9.0	54.0	12.22	25.00	56.98		9.11	245.30	672.37	1325.58	2444.34	
%				1.02	2.33		4.87	10.04	27.51	54.23	100.00	
	OURCE REQ		S ( per Acre)		RGY REQUIREM			e)				
Total N		149.6		Diesel Fu		23.9	Gal					
Total P		206.2		Unleaded		3.0	Gal					
Total K		31.1		All Direct	Energy	3.7	МВТ	TU				
Total Labo		12.2										
Total Wate	er	54.0										
	T REQUIREM											
Bed Shap			36 Hr	Cultivator, Sweep, 4		57 Hr		Drag Scrap		0.22 Hr		
	Broadcaster,		18 Hr	Fertilizer Injector, 4		51 Hr		Flat Trailer		0.15 Hr		
	mplete Systen		22 Hr	Lister, 5 Bottom		22 Hr			Plow, 4-16 2	0.45 Hr		
Mulch Lay			15 Hr	Offset Disk, 13.5'		18 Hr		Offset Disk		0.45 Hr		
	uck, 1/2 Ton		00 Hr	Planter/Gramor, 4 B	- / -	36 Hr 02 Hr		Rowbuck,		0.02 Hr 1.87 Hr		
	k Sprayer, 2 Tk 00 PTO HP,		36 Hr 10 Hr	Tractor, 50 PTO HI Tractor, 125 PTO H		л2 гл 59 Hr		Tractor, 70 Tractor, 15		1.07 FT 1.13 Hr		
V-Ripper,			22 Hr	Hacior, 125 FTO H	r, u.	וח פכ		Hacioi, 15	UPTO HP,	1.13 П1		
	REQUIREM			45 00 04 Ll	70.	20. 0-		Daniel III		0.00 5		
11-48-00,	,		00 Lb	15-08-04, Lqd		00 Ga		Bensulide		6.00 Pt		
	e Cartons		00 Ct	Cantaloupe Sd		00 Lb		Endosulfan		3.00 Pt		
Esfenvale			00 Pt	Plastic Mulch	8.8	30 TF		Sulfur		0.25 Lb		
Water, Di	SUICL	54.	00 AI									
	QUIREMENT (											
Irrigators		6.	00 Hr	Other	0.9	98 Hr		Tractor		5.23 Hr		

<sup>\*</sup>NOTE: P = Previous Year C = Current Year N = Next Year

<sup>\*\*</sup> A water assessment charge of \$10.14 per Acre is included as an ownership cost in Table B.

Table 16E. Schedule of Operations; Spring Cantaloupe, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: TILLAGE: Double Crop Salt River Project CROP: Cantaloupes ACRES: IRRIGATION SYSTEM: Flood Furrow Sandy-Loam 1.0 SOIL: AREA: Salt River Project 360.0 Ct / Acre PREVIOUS CROP: DATE: 9/11/01 YIELD: Safflower

First No. Month 1	Fimes Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Material Name	Use and C Appl.		\$ / Un		Service Cost \$ / Unit	Labor Type
Feb	0.5 Rip	150 V-Ripper, 5 Shnk	2.00							Tractor
Feb	3.0 Disk	150 Offset Disk, 18'	6.00							Tractor
Feb	1.0 Plow	150 Moldboard Plow, 4-16 2	2.00							Tractor
Feb	0.5 Laser Level	125 Drag Scraper, 10'	2.00							Tractor
		Laser, Complete System								Other
Feb	1.0 Soil Fertility	CST Soil Analysis (Surface)							3.00 Ac	
Feb	1.0 Apply Fert/Ground	100 Fertilizer Broadcaster,		11-48-00, Dry	300.00	Lb	330.00	Tn		Tractor
Feb	1.0 List	100 Lister, 5 Bottom	4.00							Tractor
Feb	1.0 Plant	125 Planter/Gramor, 4 Bd,6		Cantaloupe Sd	2.00			Lb		Tractor
		Bed Shaper, 6 Rw	E	Bensulide	6.00	Pt	42.58	Ga		Other
		Saddle Tk Sprayer, 2 Tk 8 Row								
Feb	1.0 Apply Mulch	70 Mulch Layer, 1 Rw	6.00	Plastic Mulch	8.80	TF	41.50	TF		Tractor
										Other
Mar	1.0 Buck Rows	50 Rowbuck, 10'	40.00							Tractor
Mar	9.0 Irrigate			Water, District	6.00	ΑI	5.56	AF		Irrigators
Mar	1.0 Remove Mulch	70 Flat Trailer	6.00							Tractor
										Other
Mar	7.0 Cultivate	70 Cultivator, Sweep, 4 Rw	4.00			_		_		Tractor
Mar	2.0 Apply Fert/Ground	100 Fertilizer Injector, 4 Row		15-08-04, Lqd	35.00		310.00			Tractor
Apr	2.0 Apply Insecticide/Air	CST Air Spray, 5 Gal Mix		Esfenvalerate	0.50		140.69		4.75 Ac	
				Endosulfan	1.50		33.17			
Apr	1.0 Apply Fungicide/Air	CST Air Spray, 3 Gal Mix		Sulfur	0.25	Lb	0.69	Lb	4.24 Ac	
Apr	2.0 Hand Weeding	CST Hand Weeding							75.00 Ac	
Apr	1.0 Pollinate	CST Bee Hive Rental							15.00 Ac	
May	1.0 Harvest, Load & Haul	CST Harv/pack/haul Melons		Cantaloupe Cartons	360.00	Ct	0.70	Ct	1.55 Ct	
May	1.0 Disk Residue Pickup use 30 Mi/Ac	100 Offset Disk, 13.5' Pickup Truck, 1/2 Ton	5.00 1.00							Tractor

<sup>\*</sup>NOTES: Machine times, labor times, and material rates are for one time over the designated acreage.

Table 16F. Operations Calendar; Spring Cantaloupe, 2001COUNTY:MaricopaFARM:Maricopa VegCROP:Spring CantaloupeACRES:1.0AREA:Salt River ProjectYIELD:360 Ct./Acre WATER SOURCE: SRP TILLAGE: Double Crop Sandy-Loam 09/17/2001 SOIL: IRRIGATION SYSTEM: Flood Furrow PREVIOUS CROP: Safflower DATE:

					Month	n and Tin	nes Oper	ation Pe	rformed				
No.	Operation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip		0.5 C										
2	Disk		3.0 C										
3	Plow		1.0 C										
4	Laser Level		0.5 C										
5	Soil Fertility		1.0 C										
6	Apply Fert/Ground		1.0 C										
7	List		1.0 C										
8	Plant		1.0 C										
9	Apply Mulch		1.0 C										
10	Buck Rows			1.0 C									
11	Irrigate			2.0 C	3.0 C	3.0 C							
12	Remove Mulch			1.0 C									
13	Cultivate			3.0 C	3.0 C	1.0 C							
14	Apply Fert/Ground			1.0 C	1.0 C								
15	Apply Insecticide/Air				1.0 C	1.0 C							
16	Apply Fungicide/Air				1.0 C								
17	Hand Weeding				2.0 C								
18	Pollinate					1.0 C							
19	Harvest, Load & Haul					0.33 C	0.67 C						
20	Disk Residue						1.0 C						

<sup>\*</sup> NOTE: P = Previous Year C = Current Year N = Next Year

# Table 17A. Income and Cash Operating Summary; Spring Honeydew, 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Honeydew Melons IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project 665.0 Ct / Acre YIELD: PREVIOUS CROP: Safflower DATE: 9/11/01

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Crtn	665.00	\$4.97	\$3,305.05	\$3,305.05	
CASH LAND PREPARATION AND G Paid Labor (including benefits) Tractor/Self Propelled Irrigation Other/ Contract	GROWING EXPENSES (inclu	ding sales tax)		51.00 58.52 9.59	119.10	
Chemicals and Custom Applicatio Fertilizer Insecticide Herbicide Other Chemicals	ns			179.62 41.24 33.76 4.42	259.04	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance Irrigation Water (excluding labor)				20.35 29.01	49.36 25.00	
Water Assessment (See Note Bell Other Purchased Inputs &	OW) **				596.87	
Seed/Transplants Other Services and Rentals Other Materials				42.85 168.00 386.02	300.01	
CASH HARVEST AND POST HARVI	TOTAL CASH LAND PREPA EST EXPENSES	ARATION AND GROWIN	IG EXPENSES		1049.36	<del></del>
Custom Harvest/Post Harvest Other Materials	TOTAL HARVEST AND PO	ST HARVEST EXPENSE			2061.50 266.36 2327.86	
OPERATING OVERHEAD -> PICKU OPERATING INTEREST AT 10.0%	PUSE				7.63 32.25	
TOTAL CASH OPERATING EXPENS RETURNS OVER CASH OPER					\$3,417.10 (\$112.05)	

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

\*\* A water assessment charge of \$10.14 per Acre is included as an ownership cost in Table B.

Table 17B. Allocations of Ownership Costs; Spring Honeydew, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Honeydew Melons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 665.0 Ct / Acre PREVIOUS CROP: Safflower DATE: 9/11/01

ltem	CASH COST BAS Income and Costs	IS (\$/ACRE) Net Returns	TOTAL COST BASIS (\$/ACRE) Income and Costs Net Returns
TOTAL INCOME at \$4.97 / Ct TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$3,305.05 \$3,417.10	(\$112.05)	\$3,305.05 \$3,417.10 (\$112.05)
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead ( 5.0% of Total Operating Exp.) General Farm Maintenance ( 3.0% of Total Operating Exp.)	5.69 170.85 102.51		5.69 170.85 102.51
Total Cash Overhead Expenses	279.06		279.06
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles	3,696.16	(\$391.11)	3,696.16 (\$391.11) 31.04
Interest on Equity, Machinery and Vehicles			13.44
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK		> (\$391.11) 	44.47 > (\$435.58)
Land Cost / Rent or Lease Water Assessment **	200.00 10.14		200.00 10.14
Total Land Costs  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO MANAGEMENT AND RISK			210.13 > (\$645.72)
Management Services ( 8% of Total Operation Expenses)			273.37
TOTAL OWNERSHIP COST	489.20		807.04
TOTAL COST RETURNS TO CAPITAL, MANAGEMENT AND RISK			\$4,224.14
RETURNS TO RISK (PROFITS)			> (\$919.09)
Item	CASH COST BASI Income and Costs	S (\$/ACRE) Net Returns	TOTAL COST BASIS (\$/ACRE) Income and Costs Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST ( PER Lb ) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$5.14 \$0.74 \$5.87	\$5.14 \$1.21 \$6.35

Table 17C. Variable Operating Costs; Spring Honeydew, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Honeydew Melons ACRES: IRRIGATION SYSTEM: Flood Furrow Sandy-Loam 1.0 SOIL: AREA: Salt River Project YIELD: 665.0 Ct / Acre PREVIOUS CROP: Safflower DATE: 9/11/01

No.	First Mont	h Operation	Hour Machine	s * Labor	Operati Fuel/Rps.		(\$/ACRE *) Cust/Serv.		ation Total	Times	Tot. Cash Expenses	Class	
1	Feb	Rip	0.450	0.500	5.71	4.87			10.59	0.5	5.29	L	
2	Feb	Disk	0.150	0.167	2.44	1.63			4.07	3.0	12.20	L	
3	Feb	Plow	0.450	0.500	6.50	4.87			11.37	1.0	11.37	L	
4	Feb	Laser Level	0.450	1.000	4.49	9.75			14. <u>2</u> 4	0.5	7.12	L	
5	Feb	Soil Fertility					3.00		3.00	1.0	3.00	G	
6	Feb	Apply Fert/Ground	0.180	0.200	1.43	1.95		52.32	55.70	1.0	55.70	G	
7	Feb	List	0.225	0.250	2.02	2.44			4.46	1.0	4.46	L	
8	Feb	Plant	0.360	0.800	6.51	7.80		76.61	90.92	1.0	90.92	L	
9	Feb	Apply Mulch	0.150	0.333	0.89	3.25		386.02	390.15	1.0	390.15	G	
10	Mar	Buck Rows	0.023	0.025	0.10	0.24			0.34	1.0	0.34	G	
11	Mar	Irrigate		0.667		6.50		2.78	9.28	9.0	83.52	G	
12	Mar	Remove Mulch	0.150	0.333	1.24	3.25			4.49	1.0	4.49	G	
13	Mar	Cultivate	0.225	0.250	1.49	2.44			3.93	7.0	27.51	G	
14	Mar	Apply Fert/Ground	0.257	0.286	2.93	2.79		63.65	69.37	2.0	138.73	G	
15	Apr	Apply Insecticide/Air					4.75	15.87	20.62	2.0	41.24	G	
16	Apr	Apply Fungicide/Air					4.24	0.18	4.42	1.0	4.42	G	
17	Apr	Hand Weeding					75.00		75.00	2.0	150.00	G	
18	Apr	Pollinate					15.00		15.00	1.0	15.00	G	
19	May	Harvest, Load & Haul					2061.50	266.36	2327.86	1.0	2327.86	Н	
20	May	Disk Residue 1330 Ct	0.180	0.200	1.94	1.95			3.88	1.0	3.88	L	
	-	Pickup Use 30 Mi/Acre	1.000		7.63						7.63		
		Operating Interest at 10.0					32.25				32.25		
		TOTAL CASH OPERATING	EXPENSE:	S (includes	all times over):						3417.10	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 \$10.14 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE) Prices -> Land Preparation (L) 135.25 - 25% - 10% Budgeted + 10% + 25% Growing (G) 914.11 Yields \$3.73 \$4.47 \$4.97 \$5.47 \$6.21 Break-even Price Harvest (H) 2,327.86 Post Harvest (P) - 25% 498.8 -1,103.30 -731.48 -235.72 136.10 5.94 0.00 -483.60 598.5 -634.48 406.61 Marketing (M) 0.00 - 10% -1,080.66 -337.02 -39.57 5.53 665.0 5.33 Operating Overhead (O) Budgeted -569.81 91.20 586.96 39.87 -1,065.57 -239.30 + 10% 731.5 -1,050.47 -505.14 -141.58 221.97 767.30 5.16 + 25% Total (T) \$3,417.10 831.3 -1,027.83 -408.14 4.99 418.12 1,037.82 4.96 Break-even Yield 5,360.10 1,250.95 827.85 618.62 448.57

Table 17D. Resource and Cash Flow Requirements; Spring Honeydew, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Double Crop CROP: Honeydew Melons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 665.0 Ct / Acre PREVIOUS CROP: Safflower DATE: 9/11/01

	Number:	Water	Total	 Purchased	Fuel Oil	Opera	iting Costs	(\$/ACRE *) - Other			
Month *	Number Irrigations	Applied (inches)	Labor (Hrs)	Water	Fuel, Oil and Repairs	Labo	r Chemica		s Services	Total	
FEB C MAR C APR C	1.0 2.0 3.0	6.0 12.0 18.0	3.75 2.73 3.04	10.00	27.75 8.75 7.41	36.9 26.0 29.0	63.0	35	7 3.00 173.99	582.26 99.00 300.70	
MAY C JUN C Pickup Use 3	3.0 30 Mi/Acre erest at 10.0	18.0	2.25 0.45	15.00	1.49 3.95 7.63	21.9 4.3		37 87.9 178.4		827.25 1568.01 7.63 32.25	
Water Asses				**					32.23	32.23	
Total %	9.0	54.0	12.22	25.00 0.73	56.98 1.67	119. 3.		.30 695.2 .18 20.3		3417.10 100.00	
TOTAL RES Total N Total P Total K Total Labo Total Wate		UIREMENTS 149.6 206.2 31.1 12.2 54.0	(per Acre)	TOTAL ENEF Diesel Fu Unleaded All Direct	Gas	23.9 3.0	Acre) Gal Gal M BTU				
EQUIPMEN'	T REQUIREM	ENTS (per Ac	cre)								
Bed Shap Fertilizer I Laser, Co Mulch Lay Pickup Tri Saddle Tk Tractor, 1 V-Ripper,	er, 6 Rw Broadcaster, mplete Systen yer, 1 Rw uck, 1/2 Ton x Sprayer, 2 Tk 00 PTO HP, 5 Shnk	0.3 0.1 0.2 0.1 1.0 8 0.3 1.1 0.2	6 Hr 8 Hr 2 Hr 5 Hr 0 Hr 6 Hr 0 Hr 2 Hr	Cultivator, Sweep, 4 Fertilizer Injector, 4 Lister, 5 Bottom Offset Disk, 13.5' Planter/Gramor, 4 E Tractor, 50 PTO HI Tractor, 125 PTO H	Row 0.5 0.2 0.1 dd,6 0.3 c, 0.0	7 Hr 1 Hr 2 Hr 8 Hr 6 Hr 2 Hr 9 Hr	Flat T Moldb Offset Rowb Tracto	Scraper, 10' railer pard Plow, 4-16 2 Disk, 18' uck, 10' r, 70 PTO HP, r, 150 PTO HP,	0.22 Hi 0.15 Hi 0.45 Hi 0.45 Hi 0.02 Hi 1.87 Hi 1.13 Hi		
11-48-00,	oe Ćartons v Seeds	" 300.0 360.0 2.0	Ó Lb O Ct	15-08-04, Lqd Endosulfan Plastic Mulch	3.0	0 Ga 0 Pt 0 TF	Bensu Esfen Sulfur	lide ⁄alerate	6.00 Pt 1.00 Pt 0.25 Lb		
LABOR REC Irrigators	QUIREMENT (	per Acre) 6.0	0 Hr	Other	0.9	8 Hr	Tracto	r	5.23 Hi	r	

<sup>\*</sup>NOTE: P = Previous Year C = Current Year N = Next Year

<sup>\*\*</sup> A water assessment charge of \$10.14 per Acre is included as an ownership cost in Table B.

Table 17E. Schedule of Operations; Spring Honeydew, 2001

COUNTY: Maricopa FARM: Maricopa Veg TILLAGE: Double Crop WATER SOURCE: Salt River Project CROP: Honeydew Melons ACRES: IRRIGATION SYSTEM: Flood Furrow Sandy-Loam 1.0 SOIL: AREA: Salt River Project 665.0 Ct / Acre PREVIOUS CROP: DATE: 9/11/01 YIELD: Safflower

First No. Month 1	Times Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Material Name	Use and C Appl.		\$ / Un		Service Cost \$ / Unit	Labor Type
Feb	0.5 Rip	150 V-Ripper, 5 Shnk	2.00							Tractor
Feb	3.0 Disk	150 Offset Disk, 18'	6.00							Tractor
Feb	1.0 Plow	150 Moldboard Plow, 4-16 2	2.00							Tractor
Feb	0.5 Laser Level	125 Drag Scraper, 10'	2.00							Tractor
		Laser, Complete System								Other
Feb	1.0 Soil Fertility	CST Soil Analysis (Surface)							3.00 Ac	
Feb	1.0 Apply Fert/Ground	100 Fertilizer Broadcaster,		11-48-00, Dry	300.00	Lb	330.00	Tn		Tractor
Feb	1.0 List	100 Lister, 5 Bottom	4.00							Tractor
Feb	1.0 Plant	125 Planter/Gramor, 4 Bd,6		Honeydew Seeds	2.00			Th		Tractor
		Bed Shaper, 6 Rw	E	Bensulide	6.00	Pt	42.58	Ga		Other
		Saddle Tk Sprayer, 2 Tk 8 Row								
Feb	1.0 Apply Mulch	70 Mulch Layer, 1 Rw	6.00	Plastic Mulch	8.80	TF	41.50	TF		Tractor
										Other
Mar	1.0 Buck Rows	50 Rowbuck, 10'	40.00							Tractor
Mar	9.0 Irrigate			Water, District	6.00	Αl	5.56	AF		Irrigators
Mar	1.0 Remove Mulch	70 Flat Trailer	6.00							Tractor
										Other
Mar	7.0 Cultivate	70 Cultivator, Sweep, 4 Rw	4.00			_		_		Tractor
Mar	2.0 Apply Fert/Ground	100 Fertilizer Injector, 4 Row		15-08-04, Lqd	35.00		310.00			Tractor
Apr	2.0 Apply Insecticide/Air	CST Air Spray, 5 Gal Mix		Esfenvalerate	0.50		140.69		4.75 Ac	
		007.41.0		Endosulfan	1.50		33.17			
Apr	1.0 Apply Fungicide/Air	CST Air Spray, 3 Gal Mix	,	Sulfur	0.25	Lb	0.69	Lb	4.24 Ac	
Apr	2.0 Hand Weeding	CST Hand Weeding							75.00 Ac	
Apr	1.0 Pollinate	CST Bee Hive Rental		2	000.00	٥.	0.70	٥,	15.00 Ac	
May	1.0 Harvest, Load & Haul	CST Harv/pack/haul Melons		Cantaloupe Cartons	360.00	Ct	0.70	Ct	1.55 Ct	Tt
May	1.0 Disk Residue Pickup use 30 Mi/Ac	100 Offset Disk, 13.5' Pickup Truck, 1/2 Ton	5.00 1.00							Tractor

<sup>\*</sup>NOTES: Machine times, labor times, and material rates are for one time over the designated acreage.

Table 17F. Operations Calendar; Spring Honeydew, 2001COUNTY:MaricopaFARM:Maricopa VegCROP:Spring HoneydewACRES:1.0AREA:Salt River ProjectYIELD:665 Ct./Acre WATER SOURCE: SRP TILLAGE: Double Crop SOIL: DATE: Sandy-Loam 09/17/2001 Flood Furrow IRRIGATION SYSTEM: PREVIOUS CROP: Safflower

		Month and Times Operation Performed											
No.	Operation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip		0.5 C										
2	Disk		3.0 C										
3	Plow		1.0 C										
4	Laser Level		0.5 C										
5	Soil Fertility		1.0 C										
6	Apply Fert/Ground		1.0 C										
7	List		1.0 C										
8	Plant		1.0 C										
9	Apply Mulch		1.0 C										
10	Buck Rows			1.0 C									
11	Irrigate			2.0 C	3.0 C	3.0 C							
12	Remove Mulch			1.0 C									
13	Cultivate			3.0 C	3.0 C	1.0 C							
14	Apply Fert/Ground			1.0 C	1.0 C								
15	Apply Insecticide/Air				1.0 C	1.0 C							
16	Apply Fungicide/Air				1.0 C								
17	Hand Weeding				2.0 C								
18	Pollinate					1.0 C							
19	Harvest, Load & Haul					0.33 C	0.67 C						
20	Disk Residue						1.0 C						
20		North											

<sup>\*</sup> NOTE: P = Previous Year C = Current Year N = Next Year

Table 18A. Income and Cash Operating Summary; Spring Sweet Corn, 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: Salt River Project TILLAGE: Conventional 1.0 337.0 Ct / Acre CROP: Corn, Sweet IRRIGATION SYSTEM: Flood Furrow Sandy-Loam SOIL: Salt River Project PREVIOUS CROP: Sorghum Silage 9/11/01 AREA: YIELD: DATE:

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Ears	Crtn	337.00	\$5.38	\$1,813.06	\$1,813.06	
CASH LAND PREPARATION AND GRO' Paid Labor (including benefits) Tractor/Self Propelled Irrigation	WING EXPENSES (inclu	iding sales tax)		29.08 70.06	99.14	
Chemicals and Custom Applications Fertilizer Insecticide				66.41 67.30	133.71	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				11.50 16.17	27.68	
Irrigation Water (excluding labor) Water Assessment (See Note Below)	**				10.00	
Other Purchased Inputs & Seed/Transplants				107.81	107.81	
TO CASH HARVEST AND POST HARVEST		PARATION AND GROWIN	G EXPENSES		378.34	
Paid Labor (including benefits) Tractor/Self Propelled Other/Contract				97.48 204.72	302.20	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				18.91 44.58	63.49	
Other Materials  TO OPERATING OVERHEAD -> PICKUP US OPERATING INTEREST AT 10.0%		OST HARVEST EXPENSE			378.83 744.52 5.08 4.11	
TOTAL CASH OPERATING EXPENSES RETURNS OVER CASH OPERATI	NG EXPENSES				\$1,132.06 \$681.00	

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

<sup>\*\*</sup> A water assessment charge of \$20.27 per Acre is included as an ownership cost in Table B.

Table 18B. Allocations of Ownership Costs; Spring Sweet Corn, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Conventional CROP: Corn, Sweet ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 337.0 Ct / Acre PREVIOUS CROP: Sorghum Silage DATE: 9/11/01

Mana.	CASH COST BAS		TOTAL COST BASIS (\$/ACRE) Income and Costs Net Returns				
Item	Income and Costs	Net Returns	income and Costs	Net Returns			
TOTAL INCOME at \$5.38 / Ct	\$1,813.06		\$1,813.06				
TOTAL OPERATING EXPENSES	\$1,132.06	#004.00	\$1,132.06	2004.00			
RETURN OVER CASH OPERATING EXPENSES		\$681.00		\$681.00			
CASH OVERHEAD EXPENSES	8.35		8.35				
Taxes, Housing and Insurance, Farm Machinery General and Office Overhead ( 5.0% of Total Operating Exp.)	56.60		56.60				
General Farm Maintenance ( 3.0% of Total Operating Exp.)	33.96		33.96				
Total Cash Overhead Expenses	98.92		98.92				
Total Cash Operating and Overhead Cost	1,230.98		1,230.98				
RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity)		\$582.08		\$582.08			
Capital Replacement, Machinery and Vehicles			55.39				
Interest on Equity, Machinery and Vehicles			23.05				
Total Capital Allocations			78.44				
RÉTURNS TO LAND, CAPITAL, MANAGEMENT AND RISK		> \$582.08		#F00.04			
RETURNS TO LAND, MANAGEMENT AND RISK				> \$503.64			
Land Cost / Rent or Lease Water Assessment **	200.00 20.27		200.00 20.27				
Total Land Costs RETURNS TO CAPITAL, MANAGEMENT AND RISK	220.27	> \$361.81	220.27				
RETURNS TO MANAGEMENT AND RISK				> \$283.37			
Management Services ( 8% of Total Operation Expenses)			90.56				
TOTAL OWNERSHIP COST	319.19		488.20				
TOTAL COST	\$1,451.25		\$1,620.25				
RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO RISK (PROFITS)				> \$192.81			
NETURING TO KISK (FROITIS)				γ 1 <del>3</del> 2.01			
	0401100075	0 (0(4.005)	TOTAL 0007 7:0	10 (014 ODE)			
Item	CASH COST BASI Income and Costs	S (\$/ACRE) Net Returns	TOTAL COST BAS Income and Costs	IS (\$/ACRE) Net Returns			
BREAK-EVEN PRICE TO COVER OPERATING COST ( PER Lb )		\$3.36		\$3.36			
BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$0.95 \$4.31		\$1.45 \$4.81			
DREAR-EVEN PRICE TO COVER TOTAL COST		Φ <del>4</del> .51	<u> </u>	Ψ <del>4</del> .01			

Table 18C. Variable Operating Costs; Spring Sweet Corn, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Conventional CROP: Corn, Sweet ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: YIELD: 337.0 Ct / Acre PREVIOUS CROP: Salt River Project Sorghum Silage DATE: 9/11/01

No.	First Mont	h Operation	Hour Machine		Operati Fuel/Rps.		(\$/ACRE *) sust/Serv.		tion Total	Times	Tot. Cash	Class	
1	Feb	Rip	0.225	0.250	2.86	2.44			5.29	1.0	5.29	L	
2	Feb	Disk	0.225	0.250	3.30	2.44			5.73	1.0	5.73	L	
3	Feb	Apply Fert/Ground	0.090	0.100	0.71	0.97		34.88	36.57	1.0	36.57	G	
4	Feb	List	0.225	0.250	2.02	2.44			4.46	1.0	4.46	L	
5	Feb	Disk Ends	0.045	0.050	0.48	0.49			0.97	5.0	4.86	G	
6	Feb	Buck Rows	0.045	0.050	0.19	0.49			0.68	6.0	4.09	G	
7	Feb	Preirrigate		1.587		15.47			15.47	1.0	15.47	G	
8	Mar	Plant	0.360	0.400	4.75	3.90		107.81	116.47	1.0	116.47	L	
9	Mar	Cultivate	0.180	0.200	1.56	1.95			3.51	3.0	10.52	G	
10	Mar	Apply Fert/Ground	0.300	0.333	2.48	3.25		31.53	37.26	1.0	37.26	G	
11	Mar	Irrigate		0.800		7.80		1.43	9.23	7.0	64.59	G	
12	Apr	Apply Insecticide/Air					4.75	6.47	11.22	6.0	67.32	G	
13	May	Pick and Haul	9.000	20.00	63.49	292.45		378.83	734.77	1.0	734.77	Н	
14	May	Unload Produce		1.000		9.75			9.75	1.0	9.75	Н	
15	Jun	Disk Residue	0.225	0.250	3.30	2.44			5.73	1.0	5.73	L	
		Pickup Use 20 Mi/Acre	0.667		5.08						5.08		
		Operating Interest at 10.0					4.11				4.11		
		TOTAL CASH OPERATING	EXPENSE:	S (includes	all times over):						1132.06	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 \$20.27 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY	CLASS	SENSITIVIT
Land Preparation (L)	137.68	Prices ->
Growing (G)	240.66	Yields
Harvest (H)	744.52	
Post Harvest (P)	0.00	- 25%
Marketing (M)	0.00	- 10%
Operating Overhead (O)	9.19	Budgeted
		+ 10%
Total (T)	\$1,132.05	+ 25%

SENSITIVITY	Y OF THE N	IET REVENU	JES OVER	TOTAL CASH	HEXPENSE:	S (\$/ACRE	)
Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		\$4.03	\$4.84	\$5.38	\$5.92	\$6.73	Break-even Price
- 25%	252.8	8.64	212.61	348.59	484.57	688.54	4.00
- 10%	303.3	115.56	360.32	523.49	686.67	931.43	3.65
Budgeted	337.0	186.83	458.79	640.10	821.40	1,093.36	3.48
+ 10%	370.7	258.11	557.26	756.70	956.14	1,255.29	3.34
+ 25%	421.3	365.02	704.97	931.60	1,158.23	1,498.18	3.17
Break-even Y	'ield	248.66	179.99	152.00	131.55	109.45	

Table 18D. Resource and Cash Flow Requirements; Spring Sweet Corn, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Salt River Project TILLAGE: Conventional CROP: Corn, Sweet ACRES: IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project 337.0 Ct / Acre PREVIOUS CROP: Sorghum Silage DATE: 9/11/01 YIELD:

		Water				Opera	ting Costs (				
Month *	Number Irrigations	Applied (inches)	Total Labor (Hrs)	Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total	
FEB C MAR C APR C MAY C JUN C Pickup Use 2 Operating Int Water Asses	terest at 10.0	8.0 8.0 8.0 12.0	2.64 12.93 1.90 33.45 0.25	10.00	10.24 11.71 2.24 63.68 3.30 5.08	25.7 28.5 18.5 326.0 2.4	9 31.53 2 6.47 9 32.33	107.81	4.75 23.75 4.11	70.83 179.64 31.98 834.68 5.74 5.08 4.11	
Total %	8.0	36.0	51.17	10.00 0.88	96.25 8.50	401.3 35.4			32.61 2.88	1132.06 100.00	
TOTAL RES Total N Total P Total Labo Total Wate		UIREMENTS 123.2 96.0 51.2 36.0	S (per Acre)	TOTAL ENER Diesel Fu Unleaded All Direct	l Gas	35.7 ( 2.0 (	Acre) Sal Sal 1 BTU				
Fert. Side Offset Dis Rolling Cu Tractor, 10	T REQUIREM Dress Unit, sk, 13.5' ultivator, 4 Rw 00 PTO HP, Trailer Flat Be	" 0. 0. 0. 1.	ocre) 30 Hr 67 Hr 54 Hr 44 Hr 00 Hr	Fertilizer Broadcas: Pickup Truck, 1/2 T Rowbuck, 10' Tractor, 150 PTO H	on 0.67 0.27	Hr Hr Hr Hr	Tractor,	Bottom Drill Type, 4 Row 50 PTO HP, r, 5 Shnk	0.22 Hr 0.36 Hr 9.57 Hr 0.22 Hr		
11-48-00,	REQUIREME Dry orn Seed + Fund	" 200.	e) 00 Lb 00 Lb	46-00-00, Urea 46 Water, District	220.00 36.00		Methor Wirebou	yl ınd Crates	6.00 Pt 224.00 Ct		
Irrigators	QUIREMENT (	7.	19 Hr	Other	21.00	) Hr	Tractor		12.98 Hr		

<sup>\*</sup>NOTE: P = Previous Year C = Current Year N = Next Year

<sup>\*\*</sup> A water assessment charge of \$20.27 per Acre is included as an ownership cost in Table B.

Table 18E. Schedule of Operations; Spring Sweet Corn, 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: Salt River Project TILLAGE: Conventional CROP: Corn, Sweet IRRIGATION SYSTEM: Flood Furrow Sandy-Loam SOIL: Salt River Project 337.0 Ct / Acre PREVIOUS CROP: Sorghum Silage DATE: 9/11/01 AREA: YIELD:

First No. Month	Times Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate		Material Use and 0 ime Appl.		 \$ / Un		Service Cost	Labor
Feb	1.0 Rip	150 V-Ripper, 5 Shnk	4.00						Т	ractor
Feb	1.0 Disk	150 Offset Disk, 13.5'	4.00						T	ractor
Feb	1.0 Apply Fert/Ground	100 Fertilizer Broadcaster,	10.00	11-48-00, Dry	y 200.00	Lb	330.00	Tn	Т	ractor
Feb	1.0 List	100 Lister, 5 Bottom	4.00	•					Т	ractor
Feb	5.0 Disk Ends	100 Offset Disk, 13.5'	20.00						Т	ractor
Feb	6.0 Buck Rows	50 Rowbuck, 10'	20.00						Т	ractor
Feb	1.0 Preirrigate		0.63	Water, Distric	ct 8.00	Αl	0.00	ΑF	Ir	rigators
Mar	1.0 Plant	100 Planter, Drill Type, 4 Row	2.50	Sweet Corn S	Seed + 12.00	Lb	8.50	Lb	T	ractor
Mar	3.0 Cultivate	100 Rolling Cultivator, 4 Rw	5.00						T	ractor
Mar	1.0 Apply Fert/Ground	50 Fert. Side Dress Unit, 4Row	3.00	46-00-00, Ure	ea 46 220.00	Lb	271.17	Tn	T	ractor
Mar	7.0 Irrigate		1.25	Water, Distric	ct 4.00	Αl	4.29	ΑF	Ir	rigators
Apr	6.0 Apply Insecticide/Air	CST Air Spray, 5 Gal Mix		Methomyl	1.00	Pt	48.94	Ga	4.75 Ac	
May	1.0 Pick and Haul	50 Vegetable Trailer Flat Bed	0.10	Wirebound C	rates 224.00	Ct	1.60	Ct	Т	ractor
-		_							C	Other
May	1.0 Unload Produce		1.00						C	Other
Jun	1.0 Disk Residue	150 Offset Disk, 13.5'	4.00						Т	ractor
	Pickup use 20 Mi/Ac	Pickup Truck, 1/2 Ton	1.50							

<sup>\*</sup>NOTES: Machine times, labor times, and material rates are for one time over the designated acreage.

Table 18F. Operations Calendar; Sweet Corn, 2001

COUNTY	: Maricopa	FARM:	Maricopa Veg	WATER SOURCE:	SRP	TILLAGE	: Conventional
CROP:	Corn, Sweet	ACRES:	1.0	IRRIGATION SYSTEM:	Flood Furrow	SOIL:	Sandy-Loam
AREA:	Salt River Project	YIELD:	337 Ct./Acre	PREVIOUS CROP:	Sorghum Silage	DATE:	09/17/2001

					Montl	n and Tir	nes Ope	ration Pe	rformed -				
No.	Operation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip		1.0 C										
2	Disk		1.0 C										
3	Apply Fert/Ground		1.0 C										
4	List		1.0 C										
5	Disk Ends		2.0 C	2.0 C	1.0 C								
6	Buck Rows		2.0 C	2.0 C	1.0 C	1.0 C							
7	Preirrigate		1.0 C										
8	Plant			1.0 C									
9	Cultivate			2.0 C	1.0 C								
10	Apply Fert/Ground			1.0 C									
11	Irrigate			2.0 C	2.0 C	3.0 C							
12	Apply Insecticide/Air				1.0 C	5.0 C							
13	Pick and Haul					1.0 C							
14	Unload Produce					1.0 C							
15	Disk Residue						1.0 C						

<sup>\*</sup> NOTE: P = Previous Year C = Current Year N = Next Year

Table 19A. Income and Cash Operating Summary; Watermelon Seedless, 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: Roosevelt Water TILLAGE: Conventional 1.0 16.3 Tn / Acre CROP: Watermelons IRRIGATION SYSTEM: Flood Furrow Sandy-loam SOIL: 9/11/01 AREA: Roosevelt WCD YIELD: PREVIOUS CROP: Wheat, Winter DATE:

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Ton	16.30	\$141.60	\$2,308.08	\$2,308.08	
CASH LAND PREPARATION AND G Paid Labor (including benefits) Tractor/Self Propelled Hand Irrigation Other/ Contract	ROWING EXPENSES (includ	ding sales tax)		43.96 76.69 63.72 6.50	190.86	
Chemicals and Custom Application Fertilizer Insecticide Herbicide Other Chemicals	ns			75.88 41.68 16.88 25.64	160.08	
Farm Machinery and Vehicles Diesel Fuel Gasoline Repairs and Maintenance Irrigation Water (excluding labor) Water Assessment (See Note Bel	nw) **			17.15 1.82 26.15	45.12 75.00	
Other Purchased Inputs & Seed/Transplants Other Services and Rentals Other Materials			IO EVDENOSO	332.96 93.00 386.02	811.97	
CASH HARVEST AND POST HARVE	TOTAL CASH LAND PREPA EST EXPENSES	ARATION AND GROWIN	IG EXPENSES		1283.03	
Paid Labor (including benefits) Tractor/Self Propelled Other/Contract				116.98 84.85	201.83	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				34.50 57.26	91.77	
OPERATING OVERHEAD -> PICKU OPERATING INTEREST AT 10.0%	TOTAL HARVEST AND PO PUSE	ST HARVEST EXPENSE			293.60 15.25 35.64	
TOTAL CASH OPERATING EXPENS RETURNS OVER CASH OPER					\$1,627.53 \$680.55	

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

<sup>\*\*</sup> A water assessment charge of \$17.00 per Acre is included as an ownership cost in Table B.

## Table 19B. Allocations of Ownership Costs; Watermelon Seedless, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Roosevelt Water TILLAGE: Conventional IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-loam AREA: Roosevelt WCD YIELD: 16.3 Tn / Acre PREVIOUS CROP: Wheat, Winter DATE: 9/11/01

Item	CASH COST BAS	SIS (\$/ACRE) Net Returns	TOTAL COST BAS	SIS (\$/ACRE) Net Returns
TOTAL INCOME at \$141.60 / Tn	\$2,308.08		\$2,308.08	
TOTAL INGOMIL AT \$141.00 / 111  TOTAL OPERATING EXPENSES	\$2,500.00 \$1,627.53		\$1,627.53	
RETURN OVER CASH OPERATING EXPENSES	ψ1,021.00	\$680.55	ψ1,027.00	\$680.55
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead ( 5.0% of Total Operating Exp.) General Farm Maintenance ( 3.0% of Total Operating Exp.)	11.36 81.38 48.83		11.36 81.38 48.83	
Total Cash Overhead Expenses	141.56		141.56	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity)	1,769.09	\$538.99	1,769.09	\$538.99
Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles			70.19 19.27	
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK			89.46	> \$449.53
Land Cost / Rent or Lease Water Assessment **	200.00 17.00		200.00 17.00	
Total Land Costs  RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK	217.00	> \$321.99	217.00	> \$232.53
Management Services ( 8% of Total Operation Expenses)			130.20	
TOTAL OWNERSHIP COST	358.56		578.22	
TOTAL COST  RETURNS TO CAPITAL, MANAGEMENT AND RISK  RETURNS TO RISK (PROFITS)	\$1,986.09 	> \$321.99	\$2,205.75	× ¢402.22
RETURNS TO RISK (PROFITS)				> \$102.33
ltem	CASH COST BASI Income and Costs	IS (\$/ACRE) Net Returns	TOTAL COST BAS Income and Costs	IS (\$/ACRE) Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST ( PER Lb ) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$99.85 \$22.00 \$121.85		\$99.85 \$35.47 \$135.32

Total (T)

Table 19C. Variable Operating Costs; Watermelon Seedless, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: TILLAGE: Conventional Roosevelt Water CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-loam Roosevelt WCD 16.3 Tn / Acre AREA: YIELD: PREVIOUS CROP: Wheat, Winter DATE: 9/11/01

	First		Hour	s *	Operati	na Costs (	\$/ACRE *)	Per Opera	tion		Tot. Cash		
No.		h Operation	Machine	Labor	Fuel/Rps.		ust/Serv.		Total	Times		Class	
1	Dec	Rip	0.450	0.500	6.80	4.87			11.67	0.5	5.84	L	
2	Dec	Disk	0.225	0.250	3.97	2.44			6.40	2.0	12.81	L	
3	Dec	Laser Level	0.450	0.500	6.62	4.87			11.50	0.5	5.75	L	
4	Dec	List	0.300	0.333	3.25	3.25		16.88	23.37	1.0	23.37	L	
5	Jan	Apply Fert/Ground	0.300	0.333	2.48	3.25		32.37	38.10	1.0	38.10	G	
6	Jan	Soil Fertility					3.00		3.00	1.0	3.00	G	
7	Jan	Plant	0.300	0.666	2.88	6.49		332.96	342.32	1.0	342.32	L	
8	Jan	Apply Mulch	0.150	0.333	0.89	3.25		386.02	390.15	1.0	390.15	G	
9	Feb	Buck Rows	0.045	0.050	0.19	0.49			0.68	5.0	3.41	G	
10	Feb	Irrigate		0.667		6.50		7.50	14.00	8.0	112.02	G	
11	Feb	Disk Ends	0.045	0.050	0.48	0.49			0.97	4.0	3.88	G	
12	Mar	Remove Mulch	0.150	0.333	1.24	3.25			4.49	1.0	4.49	G	
13	Mar	Cultivate	0.257	0.286	1.71	2.79			4.49	4.0	17.98	G	
14	Mar	Hand Weeding					75.00		75.00	1.0	75.00	G	
15	Apr	Apply Fert/Ground	0.300	0.333	2.48	3.25		31.53	37.26	1.0	37.26	G	
16	Apr	Pollinate					15.00		15.00	1.0	15.00	G	
17	Apr	Turn Vines	0.100	5.000	2.05	38.34			40.39	2.0	80.78	G	
18	Apr	Apply Fungicide/Air					4.24	21.40	25.64	1.0	25.64	G	
19	Apr	Irrigate/Run Fertilizer		0.400		3.90		8.99	12.89	3.0	38.68	G	
20	Apr	Apply Insecticide/Air					9.75	16.09	20.84	2.0	41.68	G	
21	Jun	Harvest, Load & Haul	3.600	8.000	30.59	67.28			97.87	3.0	293.60	Н	
22	Jul	Disk Residue	0.225	0.250	3.43	2.44			5.86	1.0	5.86	L	
		Pickup Use 60 Mi/Acre	2.000		15.25						15.25		
		Operating Interest at 10.0					35.64				35.64		
		TOTAL CASH OPERATING	EXPENSE	S (includes	all times over):						1627.53	T	

90.95

\*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 \$17.00 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY	Y CLASS	SENSITIVI	TY OF THE	NET REVE	NUES OVE	R TOTAL CAS	SH EXPENS	ES (\$/ACR	E)
Land Preparation (L)	395.95	Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Growing (G)	887.09	Yields		\$106.20	\$127.44	\$141.60	\$155.76	\$177.00	Break-even Price
Harvest (H)	293.60								
Post Harvest (P)	0.00	- 25%	12.2	-229.69	29.97	203.08	376.18	635.84	124.99
Marketing (M)	0.00	- 10%	14.7	-14.07	297.52	505.25	712.98	1,024.57	107.16
Operating Overhead (O)	50.89	Budgeted	16.3	129.68	475.89	706.70	937.50	1,283.72	98.24

+ 10% 17.9 273.42 654.26 908.14 1,162.03 1,542.87 \$1,627.53 Break-even Yield 14.83 11.95 10.58 9.49 8.23

Table 19D. Resource and Cash Flow Requirements; Watermelon Seedless, 2001

FARM: Maricopa Veg ACRES: 1.0 COUNTY: Maricopa WATER SOURCE: Roosevelt Water TILLAGE: Conventional CROP: Watermelons IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-loam AREA: Roosevelt WCD YIELD: 16.3 Tn / Acre PREVIOUS CROP: Wheat, Winter DATE: 9/11/01

		Water				Operatin	g Costs (\$/A	CRE *)		
Month *	Number Irrigations	Applied (inches)	Total Labor (Hrs)	Purchased Water	Fuel, Oil and Repairs	Labor		Other Purchases	Somiooo	Total
Month *	irrigations	(IIICHES)	Labor (HIS)	vvaler	anu Repairs	Labor	Chemicals	Pulchases	Services	Total
DEC P JAN C FEB C	3.0	18.0	1.33 1.38 2.10	22.50	17.89 6.44 0.68	12.99 13.48 20.48	16.88 32.37	718.97	3.00	47.76 774.26 43.66
MAR C APR C	3.0 2.0	18.0 8.0	3.06 6.76	22.50 10.00	5.81 8.14	29.79 55.45	77.01		75.00 23.99	133.10 174.59
MAY C JUN C JUL C	2.0 1.0	10.0 6.0	6.17 24.67 0.25	12.50 7.50	2.73 91.77 3.43	49.72 208.35 2.44	20.08		4.75	89.78 307.62 5.87
Pickup Use	terest at 10.0			**	15.25				35.64	15.25 35.64
Total %	11.0	60.0	45.71	75.00 4.61	152.14 9.35	392.70 24.13	146.34 8.99	718.97 44.18	142.38 8.75	1629.05 100.00
TOTAL RES Total N Total P Total Labo Total Wate		UIREMENTS 188.7 115.0 45.7 60.0	S (per Acre)	TOTAL ENEF Diesel Fu Unleaded All Direct	Gas	NTS (per Ac 60.7 Gal 7.4 Gal 9.4 M E				
	T REQUIREM									
Fert. Side Lister, 5 B		0. 0.	20 Hr 60 Hr 30 Hr	Cultivator, Sweep, 4 Flat Trailer Mulch Layer, 1 Rw	0.1 0.1	3 Hr 5 Hr 5 Hr	Offset Disk	nplete System x, 13.5'	0.22 Hr 0.22 Hr 0.18 Hr	
Tractor, 7	k Sprayer, 2 Tk 70 PTO HP,	( 8 0. 1.	67 Hr 30 Hr 63 Hr	Pickup Truck, 1/2 Tractor, 50 PTO HI Tractor, 100 PTO H	P, 0.8 P, 0.4	OHr Hr Hr		OPTO HP 0PTO HP,	0.23 Hr 10.80 Hr 0.22 Hr	
	75 PTO HP, e Trailer, Custo		90 Hr 80 Hr	Transplanter, Veg, 4	#ROW 0.3	) Hr	V-Ripper, 5	o Shrik	0.22 Hr	
MATERIALS	S REQUIREMI	ENT (per Acr	e)							
18-46-00, Benomyl Esfenvale	, Dry	250. 1. 16.	00 Lb 00 Lb 00 Oz 00 Th	32-00-00, URAN 32 Bensulide Plastic Mulch	3.0	O Ga O Pt O TF	46-00-00, l Endosulfan Water, Dis		220.00 Lb 3.00 Pt 60.00 Al	
LABOR REC Hand Weed Other	QUIREMENT ( ders	" ´10.	00 Hr 67 Hr	Irrigators Tractor		4 Hr 1 Hr	Loader/Wa	atermelons	12.00 Hr	

<sup>\*</sup>NOTE: P = Previous Year C = Current Year N = Next Year

<sup>\*\*</sup> A water assessment charge of \$17.00 per Acre is included as an ownership cost in Table B.

Table 19E. Schedule of Operations; Watermelon Seedless, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: Roosevelt Water TILLAGE: Conventional CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-loam 16.3 Tn / Acre PREVIOUS CROP: DATE: 9/11/01 AREA: Roosevelt WCD YIELD: Wheat, Winter

First o. Month T	imes Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Material Us Name	se and Co Appl. F		\$ / Un		Service Cost \$ / Unit	Labor Type
Dec	0.5 Rip	175 V-Ripper, 5 Shnk	2.00							Tractor
Dec	2.0 Disk	175 Offset Disk, 16.5'	4.00							Tractor
Dec	0.5 Laser Level	175 Drag Scraper, 14' Laser, Complete System	2.00							Tractor
Dec	1.0 List	100 Lister, 5 Bottom Saddle Tk Sprayer, 2 Tk 8 Row	3.00	Bensulide	3.00	Pt	42.58	Ga		Tractor
Jan	1.0 Apply Fert/Ground	50 Fert. Side Dress Unit, 4Row	3.00	18-46-00, Dry	250.00	Lb	245.00	Tn		Tractor
Jan	1.0 Soil Fertility	CST Soil Analysis (Surface)							3.00 Ac	
Jan	1.0 Plant	70 Transplanter, Veg, 4Row	3.00	Watermelon Transplant	9.00	Th	35.00	Th		Tractor
		,		•						Other
Jan	1.0 Apply Mulch	70 Mulch Layer, 1 Rw	6.00	Plastic Mulch	8.80	TF	41.50	TF		Tractor
		•								Other
Feb	5.0 Buck Rows	50 Rowbuck, 10'	20.00							Tractor
Feb	8.0 Irrigate		1.50	Water, District	6.00	Αl	15.00	AF		Irrigators
Feb	4.0 Disk Ends	100 Offset Disk, 13.5'	20.00							Tractor
Mar	1.0 Remove Mulch	70 Flat Trailer	6.00							Tractor
										Other
Mar	4.0 Cultivate	70 Cultivator, Sweep, 4 Rw	3.50							Tractor
Mar	1.0 Hand Weeding	CST Hand Weeding							75.00 Ac	
Apr	1.0 Apply Fert/Ground	50 Fert. Side Dress Unit, 4Row	3.00	46-00-00, Urea 46	220.00	Lb	271.17	Tn		Tractor
Apr	1.0 Pollinate	CST Bee Hive Rental							15.00 Ac	
Apr	2.0 Turn Vines	Crew Bus, 44 Passenger	0.20							Hand
Apr	1.0 Apply Fungicide/Air	CST Air Spray, 3 Gal Mix		Benomyl	1.00	Lb	20.25	Lb	4.24 Ac	
Apr	3.0 Irrigate/Run Fertilizer		2.50	Water, District	4.00	Αl	15.00	ΑF		Irrigators
				32-00-00, URAN 32,	4.00		170.80			
Apr	2.0 Apply Insecticide/Air	CST Air Spray, 5 Gal Mix		Esfenvalerate Endosulfan	8.00 1.50	Oz Pt	144.04 33.17		4.75 Ac	
Jun	3.0 Harvest, Load & Haul	70 Vegetable Trailer, Custom	0.25							Tractor
	-	•								Loader/Wat
Jul	1.0 Disk Residue	150 Offset Disk, 16.5'	4.00							Tractor
	Pickup use 60 Mi/Ac	Pickup Truck, 1/2 Ton	0.50							

<sup>\*</sup>NOTES: Machine times, labor times, and material rates are for one time over the designated acreage.

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Table 19F. Operations Calendar; Watermelons, 2001COUNTY:MaricopaFARM:Maricopa VegCROP:WatermelonsACRES:1.0AREA:Roosevelt WCDYIELD:16.3 Tn/Acre TILLAGE: Conventional WATER SOURCE: Roosevelt WCD Sandy-Loam 09/17/2001 SOIL: IRRIGATION SYSTEM: Flood Furrow DATE: PREVIOUS CROP: Wheat, Winter

/ ti tL/ t.	TROOSEVER TYOB TILE	_D. 10.0 111// tolc		1 1 1 1	300 OI (OI		vviicat,	VVIIICI		D/ (IL.	00/11/2	.001	
					Mont	h and Tir	nes Opei	ration Pe	erformed				
No.	Operation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip												0.5 P
2	Disk												2.0 P
3	Laser Level												0.5 P
4	List												1.0 P
5	Soil Fertility	1.0 C											
6	Apply Fert/Ground	1.0 C											
7	Plant	1.0 C											
8	Apply Mulch	1.0 C											
9	Buck Rows	1.0 C	1.0 C	1.0 C	1.0 C	1.0 C							
10	Irrigate		3.0 C	3.0 C		1.0 C	1.0 C						
11	Disk Ends		1.0 C	2.0 C		1.0 C							
12	Remove Mulch			1.0 C									
13	Cultivate			2.0 C	2.0 C								
14	Hand Weeding			1.0 C									
15	Apply Fert/Ground				1.0 C								
16	Pollinate				1.0 C								
17	Turn Vines				1.0 C	1.0 C							
18	Apply Fungicide/Air				1.0 C								
19	Irrigate/Run Fertilizer				2.0 C	1.0 C							
20	Apply Insecticide/Air				1.0 C	1.0 C							
21	Harvest, Load & Haul						3.0 C						
22	Disk Residue							1.0 C					
* NOTE:	D = Provious Voor C = Current Vo	oar N = Novt Voor											

<sup>\*</sup> NOTE: P = Previous Year C = Current Year N = Next Year

## Appendix A. Tables of Prices of Selected Inputs for Maricopa County, Arizona

Table A.1	Estimated Costs of Pumping Irrigation Water	A-2
Table A.2	Water Cost in Irrigation Districts	A-2
Table A.3	Selected Labor and Price Rates	A-2
Table A.4	Property Taxes and Tax Assessments	A-3
Table A.5	Costs of Selected Custom Operations	A-4
Table A.6	Costs of Owning and Operating Irrigation Systems (This table is included only when such irrigation systems are included in the budget tables.)	A-5

Table A.1 Estimated Cost of Pumping Irrigation Water in Central Arizona, 2001

Area			Pump	Pump Case			Overall	Well	Ownership	Annual	Cost	Cost of Pumping I	ping Irrig	g Water	Je.	TOTAL
	Energy	Price	Ħ	Rate	Diam	Depth	Pump	Cost	Cost	Pump	Fixed		Variable Cost/Al	ost/AF		COST
			(F	(GPM)	(in)		Efficiency		(\$/Yr)	(AF)	/AF	Energy	Repairs	Р Тах	Total	AF _
Maricopa County																
AGUILA D	iesel	\$0.84080 /Gal	545	1,800	16	1,800	0.188	\$320,174	\$32,144	1,432	\$22.45		\$7.59		\$66.73	\$89.18
AGUILA	Electric	\$0.08733 /Kwh	545	1,800	16	1,800	0.540	\$258,657	\$24,666	1,432	\$17.22		\$6.55		\$96.80	\$114.02
AGUILA	Nat. Gas	\$0.42168 /Th	545	1,800	16	1,800	0.154	\$388,479	\$40,001	1,432	\$27.93		\$7.59		\$58.27	\$86.20
DEER VALLEY	Electric	\$0.08475 /Kwh	720	1,300	16	1,800	0.540	\$236,878	\$24,112	1,379	\$17.49		\$8.65	\$2.75	\$127.11	\$144.59
GILA BEND D	Diesel	\$0.84080 /Gal	310	2,950	20	900	0.188	\$178,153	\$19,481	2,347	\$8.30		\$4.32		\$37.96	\$46.26
GILA BEND	Electric	\$0.02854 /Kwh	310	2,950	20	009	0.540	\$124,848	\$12,832	2,347	\$5.47		\$3.72		\$20.50	\$25.97
GILA BEND N	Nat. Gas	\$0.42097 /Th	310	2,950	20	009	0.154	\$204,228	\$22,805	2,347	\$9.72		\$4.32		\$33.10	\$42.81
HARQUAHALA VALLEY D	Diesel	\$0.84080 /Gal	009	1,650	16	1,800	0.188	\$304,609	\$31,844	1,313	\$24.25		\$8.36		\$73.47	\$97.72
HARQUAHALA VALLEY E	Electric	\$0.08402 /Kwh	009	1,650	16	1,800	0.540	\$236,482	\$23,594	1,313	\$17.97		\$7.21		\$102.80	\$120.77
HARQUAHALA VALLEY N	Nat. Gas	\$0.42080 /Th	009	1,650	16	1,800	0.154	\$329,701	\$35,104	1,313	\$26.74	\$55.68	\$8.36		\$64.04	\$90.77
QUEEN CREEK D	Diesel	\$0.84080 /Gal	009	1,000	16	1,200	0.188	\$179,901	\$18,733	795	\$23.56		\$8.36	\$2.75	\$76.22	\$265.18
QUEEN CREEK	Electric	\$0.08446 /Kwh	009	1,000	16	1,200	0.540	\$148,883	\$14,620	795	\$18.39		\$7.21	\$2.75	\$106.05	\$124.44
QUEEN CREEK N	Nat. Gas	\$0.42219 /Th	009	1,000	16	1,200	0.154	\$229,692	\$24,590	795	\$30.93		\$8.36	\$2.75	\$66.97	\$97.90
RAINBOW VALLEY D	Diesel	\$0.84080 /Gal	495	1,750	16	1,000	0.188	\$193,737	\$21,390	1,392	\$15.37		\$6.89	\$2.75	\$63.36	\$78.73
RAINBOW VALLEY E	Electric	\$0.08590 /Kwh	495	1,750	16	1,000	0.540	\$152,870	\$16,125	1,392	\$11.58		\$5.94	\$2.75	\$89.33	\$100.92
RAINBOW VALLEY N	Nat. Gas	\$0.42110 /Th	495	1,750	16	1,000	0.154	\$246,266	\$27,574	1,392	\$19.81		\$6.89	\$2.75	\$55.61	\$75.42
SCOTTSDALE	Electric	\$0.08529 /Kwh	375	2,400	16	1,000	0.540	\$149,802	\$14,901	1,909	\$7.81		\$4.50	\$2.75	\$67.90	\$75.71
SCOTTSDALE	Nat. Gas	\$0.42101 /Th	375	2,400	16	1,000	0.154	\$237,626	\$25,565	1,909	\$13.39		\$5.22	\$2.75	\$42.79	\$56.19

Table A.2 Estimated Cost of Surface Irrigation Water in Central Arizona, 2001

Name		Assess		Surface Water Costs	iter Co	sts		
		ment	□ * * *	ment   **** Dollars per Acre Foot (AF) ****	e Foot (,	AF) ***		
Buckeye WCD	BWCD	\$1.00 plus	snld	\$9.00 /AF				
Chandler Heights	ChanHg	\$51.00 plus	snId	\$45.00 /AF				
Harquahala Valley ID	HVID	\$9.67 snld	snId	\$35.00 /AF	Pull 1	\$35.00 Pull 3	Pull 3	
Maricopa County Muni	MCMWD	\$6.00 plus	snId	\$36.00 /AF				
New Magma ID	NMID	\$24.00 plus	snId	\$31.00 /AF				
Roosevelt ID	RID	\$15.00 plus	snId	\$20.00 /AF				
Roosevelt WCD	RWCD	\$17.00 plus	snId	\$15.00 /AF				
Salt River Project	SRP	\$20.00		2 free + 3 more @	\$10 /	\$10 /AF + more @	@ @	\$33.00
		+ \$44.7	+ \$44.74 per account	count				

Group Unit act Labor Hr Weeders Hr st Operators Hr or Operators Hr or Operators Hr Hr or Operators Hr Hr Hr Hr			r \$7.50	r \$5.50			46 72
Labor Contra Hand Harve, Irrigate Tracto	Table A.3 Wage Rates in Central Arizona, 2001	Labor Group Un	Contract Labor Hi	Hand Weeders Hi	Harvest Operators Hi	perators	Other

**Table A.4 Maricopa Property Taxes, 2000/2001** 

State Code	Area Description	2000 Primary	2000 Secondary	2000 Total
Marico	opa County (07) Property Tax	es, Vegetable Cr	ops	
4800	Scottsdale	\$5.8933	\$2.2929	\$8.1862
7900 1100	Litchfield Park Peoria Outside Waddell/Peoria	\$7.3361 \$6.4990 <b>\$6.9176</b>	\$12.4146 \$7.9200 <b>\$10.1673</b>	\$19.7507 \$14.4190 <b>\$17.0849</b>
Vegetak	ole Crop Average	\$6.4054	\$6.2301	\$12.7810
	For All Districts	Assessment		
755	CAWCD	\$0.2800		
	Special District Tax	Assessment		
701	Aguila	\$5.2399		
707	Chandler Heights	\$57.4871		
711	New State ID	\$0.5694		
712	Queen Creek ID	\$10.0000		
714	Roosevelt ID	\$17.7281		
716	St John ID	\$28.3237		
750	Harq. Valley ID	\$11.3752		
751	McMicken ID	\$2.2468		
753	New Magma ID	\$24.0000		
	Western Meadows	\$172.9950		
756 757	Tonopah ID	\$10.0000		

**Table A.5 Maricopa Custom Operations, 2000/2001** 

Operation	Custom Service	Old Cost	New Cost
Apply Insecticide/Air	Air Spray, 5 Gal Mix	\$3.52 / Acre	\$4.73
Apply Insecticide/Air	Air Spray, 7 Gal Mix	\$4.32 / Acre	\$5.23
Pollenate	Bee Hive Rental	\$15.00 / Acre	\$15.00
Pick and Load	Cut & Load Melons	\$1.20 / Crtn	\$1.55
Harvest	Cut/Pack/Load Broccoli	\$2.45 / Crtn	\$2.75
Harvest	Cut/Top/Field Sack Dry Onions	\$1.10 / Sack	\$2.17
Field Grade	Grade/Size/Pack Onions	\$0.65 / Sack	\$1.00
Haul, Custom	Field Haul Dry Onions	\$0.12 / Sack	\$0.20
Hand Weeding	Hand Weeding	\$75.00 / Acre	\$75.00
Thinning	Thinning	\$75.00 / Acre	\$75.00
Harvest	Harvest Carrots	\$1.00 / Crtn	\$3.25
Harvest	Harvest Cauliflower	\$2.65 / Crtn	\$3.25
Harvest, Load & Haul	Harvest Green Onions	\$3.00 / Crtn	\$5.00
Harvest	Harvest Mixed Greens	\$3.25 / Crtn	\$3.25
Harvest, Load & Haul	Harvest Spinach	\$3.25 / Crtn	\$3.25
Harvest, Load & Haul	Harvest-Load-Haul Lettuce	\$2.40 / Crtn	\$2.40
Haul, Custom	Haul Broccoli	\$0.20 / Crtn	\$0.20
Haul, Custom	Haul Cabbage	\$0.19 / Crtn	\$0.35
Haul, Custom	Haul Carrots	\$0.18 / Crtn	\$0.20
Haul, Custom	Haul Melons	\$0.20 / Crtn	\$0.25
Haul, Custom	Haul Produce	\$0.25 / Crtn	\$0.25
Harvest, Load & Haul	Pick & Haul Rapini	\$4.00 / Crtn	\$4.00
Plant Fertility	Plant Tissue Anal.(Petiol)	\$6.00 / Acre	\$6.00
Soil Fertility	Soil Analysis (Surface)	\$3.00 / Acre	\$3.00

## **Appendix B. Tables of Prices of Selected Inputs, Arizona**

Table B.1	Prices of Materials Used	B-2
Table B.2	Cost Data for Equipment and Implements	B-6

Note: These average input prices are used for all Arizona counties when appropriate. Not all items listed are used in all counties.

**Table B.1 Prices of Materials Used** 

Common Name	Example Trade Name	1998 Price	2001 Price
	Fertilizers		
0.0.404.00		055.00 / 5	<b>^</b>
0-0-12 LQD 7.5-26-0-8 LQD	0-0-12 LQD 7.5-26-0-8 LQD	\$55.00 / Tn	\$55.00 \$260.00
· · · · · · ·		\$260.00 / Tn	
00-45-00, TREBLE SUPER 00-52-00 LQD	00-45-00, TREBLE SUPER 00-52-00 LQD	\$317.50 / Tn \$317.00 / Tn	\$260.00 \$299.50
05-26-00-08 PHOSFURIC	05-26-00-08 PHOSFURIC	\$290.00 / Tn	\$299.00
10-34-00 LQD	10-34-00 LQD	\$266.40 / Tn	\$263.33
11-48-00 DRY	11-48-00 DRY	\$330.00 / Tn	\$330.00
11-52-00 DRY	11-52-00 DRY	\$284.00 / Tn	\$273.33
15-0-0-16 N-phuric ACID	15-0-0-16 N-phuric ACID	\$205.00 / Tn	\$205.00
15-15-15 DRY	15-15-15 DRY	\$320.00 / Tn	\$320.00
16-20-00 DRY	16-20-00 DRY	\$240.67 / Tn	\$250.50
16-20-00 LQD	16-20-00 LQD	\$220.00 / Tn	\$220.00
17-00-00 LQD, CAN 17	17-00-00 LQD, CAN 17	\$0.00 / Tn	\$175.00
18-46-00 DRY	18-46-00 DRY	\$275.00 / Tn	\$245.00
20-0-0-40 Nitro-Sul	20-0-0-40 Nitro-Sul	\$0.00 / Tn	\$280.00
20-00-00 Amm. NITRATE, DRY	20-00-00 Amm. NITRATE, DRY	\$0.00 / Tn	\$222.50
20-00-00 Amm. NITRATE, LQD	20-00-00 Amm. NITRATE, LQD	\$0.00 / Tn	\$155.00
21-00-00 Amm SULFATE	21-00-00 Amm SULFATE	\$0.00 / Tn	\$184.00
28-0-0-9 N-Phuric ACID	28-0-0-9 N-Phuric ACID	\$0.00 / Tn	\$240.00
32-00-00 URAN 32, LQD	32-00-00 URAN 32, LQD	\$173.00 / Tn	\$170.80
33-00-00 Amm. NITRATE, DRY	33-00-00 Amm. NITRATE, DRY	\$320.00 / Tn	\$320.00
46-00-00 L B UREA	46-00-00 L B UREA	\$0.00 / Tn	\$30.00
46-00-00 UREA 46	46-00-00 UREA 46	\$257.00 / Tn	\$271.17
82-00-00 Anhyd. AMMONIA	82-00-00 Anhyd. AMMONIA	\$317.00 / Tn	\$306.67
	Herbicides		
Atrazine	AATREX, 4L, 2.5 GAL	\$0.00 / Lb	\$15.75
Atrazine	AATREX, 80W, 5 LB	\$2.18 / Lb	\$2.98
I		·	
Benefin	BALAN, 1.5EC, 2.5 GAL	\$14.95 / Ga	\$8.69
Dicamba	BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL	\$14.95 / Ga \$85.76 / Ga	\$8.69 \$97.06
Dicamba Cyanazine	BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL	\$14.95 / Ga \$85.76 / Ga \$25.26 / Ga	\$8.69 \$97.06 \$31.25
Dicamba Cyanazine Bromoxynil	BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL	\$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga	\$8.69 \$97.06 \$31.25 \$53.30
Dicamba Cyanazine Bromoxynil Bromoxynil	BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL	\$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga	\$8.69 \$97.06 \$31.25 \$53.30 \$105.81
Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn	BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL	\$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga	\$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63
Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d	BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL	\$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga	\$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15
Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor	BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL	\$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga	\$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50
Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor	BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL	\$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga	\$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23
Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC	BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL	\$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga	\$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09
Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop	BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E)	\$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga \$120.00 / Ga	\$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00
Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl	BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL	\$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga \$120.00 / Ga \$55.54 / Ga	\$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00 \$67.75
Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl Pronamide	BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL KERB, 50W, 3LB	\$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga \$120.00 / Ga \$55.54 / Ga \$22.75 / Lb	\$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00 \$67.75 \$26.27
Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl Pronamide MSMA	BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL KERB, 50W, 3LB BUENO 6	\$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga \$120.00 / Ga \$55.54 / Ga \$22.75 / Lb \$0.00 / Ga	\$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00 \$67.75 \$26.27 \$20.60
Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl Pronamide MSMA MSMA	BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL KERB, 50W, 3LB BUENO 6 MSMA ANY BRAND, 6S, 5 GAL	\$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga \$120.00 / Ga \$55.54 / Ga \$22.75 / Lb \$0.00 / Ga \$18.33 / Ga	\$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00 \$67.75 \$26.27 \$20.60 \$18.00
Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl Pronamide MSMA	BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL KERB, 50W, 3LB BUENO 6 MSMA ANY BRAND, 6S, 5 GAL PREFAR, 4E, 5 GAL	\$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$120.00 / Ga \$55.54 / Ga \$22.75 / Lb \$0.00 / Ga \$18.33 / Ga \$38.12 / Ga	\$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00 \$67.75 \$26.27 \$20.60 \$18.00 \$42.58
Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl Pronamide MSMA MSMA Bensulide Pendimethalin	BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL KERB, 50W, 3LB BUENO 6 MSMA ANY BRAND, 6S, 5 GAL PREFAR, 4E, 5 GAL PROWL, 4E, 5 GAL	\$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga \$120.00 / Ga \$55.54 / Ga \$22.75 / Lb \$0.00 / Ga \$18.33 / Ga \$38.12 / Ga \$27.52 / Ga	\$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00 \$67.75 \$26.27 \$20.60 \$18.00 \$42.58
Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl Pronamide MSMA MSMA Bensulide	BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL KERB, 50W, 3LB BUENO 6 MSMA ANY BRAND, 6S, 5 GAL PREFAR, 4E, 5 GAL PROWL, 4E, 5 GAL STAPLE OZ.	\$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$120.00 / Ga \$55.54 / Ga \$22.75 / Lb \$0.00 / Ga \$18.33 / Ga \$38.12 / Ga	\$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00 \$67.75 \$26.27 \$20.60 \$18.00 \$42.58 \$22.23
Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl Pronamide MSMA MSMA Bensulide Pendimethalin Pyritiodac-sodium	BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL KERB, 50W, 3LB BUENO 6 MSMA ANY BRAND, 6S, 5 GAL PREFAR, 4E, 5 GAL PROWL, 4E, 5 GAL	\$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga \$120.00 / Ga \$55.54 / Ga \$22.75 / Lb \$0.00 / Ga \$18.33 / Ga \$38.12 / Ga \$27.52 / Ga \$23.00 / Oz	\$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00 \$67.75 \$26.27 \$20.60 \$42.58 \$22.23 \$24.72 \$18.75
Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl Pronamide MSMA MSMA Bensulide Pendimethalin Pyritiodac-sodium Butylate	BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL KERB, 50W, 3LB BUENO 6 MSMA ANY BRAND, 6S, 5 GAL PREFAR, 4E, 5 GAL PROWL, 4E, 5 GAL STAPLE OZ. SUTAN+, 6.7E, 2.5 GAL TREFLAN, 4E, 30 GAL	\$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga \$120.00 / Ga \$55.54 / Ga \$22.75 / Lb \$0.00 / Ga \$18.33 / Ga \$38.12 / Ga \$27.52 / Ga \$27.52 / Ga \$23.00 / Oz \$17.98 / Ga \$0.00 / Ga	\$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00 \$67.75 \$26.27 \$20.60 \$42.58 \$22.23 \$24.72 \$18.75 \$24.95
Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl Pronamide MSMA MSMA Bensulide Pendimethalin Pyritiodac-sodium Butylate Trifluralin	BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL KERB, 50W, 3LB BUENO 6 MSMA ANY BRAND, 6S, 5 GAL PREFAR, 4E, 5 GAL PROWL, 4E, 5 GAL STAPLE OZ. SUTAN+, 6.7E, 2.5 GAL TREFLAN, 4E, 30 GAL TREFLAN, 4E, 30 GAL	\$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga \$120.00 / Ga \$55.54 / Ga \$22.75 / Lb \$0.00 / Ga \$18.33 / Ga \$38.12 / Ga \$27.52 / Ga \$27.52 / Ga \$27.52 / Ga \$23.00 / Oz \$17.98 / Ga \$0.00 / Ga	\$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00 \$67.75 \$26.27 \$20.60 \$18.00 \$42.58 \$22.23 \$24.72 \$18.75 \$24.95 \$21.15
Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl Pronamide MSMA MSMA Bensulide Pendimethalin Pyritiodac-sodium Butylate Trifluralin Trifluralin Trifluralin	BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL KERB, 50W, 3LB BUENO 6 MSMA ANY BRAND, 6S, 5 GAL PREFAR, 4E, 5 GAL PROWL, 4E, 5 GAL STAPLE OZ. SUTAN+, 6.7E, 2.5 GAL TREFLAN, 4E, 30 GAL TREFLAN, 4E, 2.5 GAL TREFLAN, 4E, 2.5 GAL TREFLAN, 4E, 2.5 GAL	\$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga \$120.00 / Ga \$55.54 / Ga \$22.75 / Lb \$0.00 / Ga \$18.33 / Ga \$38.12 / Ga \$27.52 / Ga	\$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00 \$67.75 \$26.27 \$20.60 \$18.00 \$42.58 \$22.23 \$24.72 \$18.75 \$24.95 \$21.15
Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl Pronamide MSMA MSMA Bensulide Pendimethalin Pyritiodac-sodium Butylate Trifluralin Trifluralin	BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL KERB, 50W, 3LB BUENO 6 MSMA ANY BRAND, 6S, 5 GAL PREFAR, 4E, 5 GAL PROWL, 4E, 5 GAL STAPLE OZ. SUTAN+, 6.7E, 2.5 GAL TREFLAN, 4E, 30 GAL TREFLAN, 4E, 30 GAL	\$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga \$120.00 / Ga \$55.54 / Ga \$22.75 / Lb \$0.00 / Ga \$18.33 / Ga \$38.12 / Ga \$27.52 / Ga \$27.52 / Ga \$27.52 / Ga \$23.00 / Oz \$17.98 / Ga \$0.00 / Ga	\$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00 \$67.75 \$26.27 \$20.60 \$18.00 \$42.58 \$22.23 \$24.72 \$18.75 \$24.95 \$21.15

**Table B.1 Prices of Materials Used** 

Common Name	Example Trade Name	1998	2001
		Price	Price
	Herbicides Continued		
Oryzalin	SURFLAN	\$0.00 / Ga	\$80.86
Napropamide	DEVRINOL	\$0.00 / Ga	\$8.75
Simazine	PRINCEP 4L	\$0.00 / Ga	\$19.50
Carfentrazone-ethyl	AIM	\$0.00 / Oz	\$8.80
Diglycolamine	CLARITY	\$0.00 / Ga	\$91.30
Clethodim	SELECT 2 EC	\$0.00 / Ga	\$192.71
Pronamide	COTTON PRO	\$0.00 / Ga	\$28.00
Imazethapyr	PURSUIT DG	\$0.00 / Oz	\$10.65
Sethoxydim	POAST	\$0.00 / Ga	\$67.85
	Insecticides		
Imidacloprid	ADMIRE, F	\$591.67 / Ga	\$588.40
Abamectin	AGRI-MEK, 15EC, 1 GAL	\$706.00 / Ga	\$732.91
Permethrin	AMBUSH,2E, 1GAL	\$115.83 / Ga	\$120.50
Cypermethrin	AMMO, 2.5EC, 1GAL	\$285.64 / Ga	\$291.66
Fenvalerate	ASANA, XL, 1 GAL	\$146.61 / Ga	\$144.04
Cyfluthrin	BAYTHROID, 2E, 1 GAL	\$496.00 / Ga	\$520.67
Sulprophos	BOLSTAR, 6E, 5 GAL	\$490.00 / Ga	\$288.38
Bifenthrin	CAPTURE, 2EC, 1 GAL	\$549.00 / Ga	\$490.00
Profenofos	CURACRON, 6E, 2.5 GAL	\$120.00 / Ga	\$120.00
Profenofos	CURACRON, 8E, 2.5 GAL	\$0.00 / Ga	\$113.00
Dimethoate	CYGON,'267', 5 GAL	\$26.50 / Ga	\$26.50
Dimethoate	CYGON,'400', 2.5 GAL	\$35.13 / Ga	\$35.59
Dimethoate	CYGON,'400', 5 GAL	\$38.00 / Ga	\$38.00
Malathion	CYTHION, ULV, 5 GAL	\$29.42 / Ga	\$32.00
Fenpropathrin	DANITOL	\$174.00 / Ga	\$167.83
Dimethoate	DIMETHONATE, 4E, 2.5 GAL	\$24.75 / Ga	\$12.00
BT	DIPEL, 2X, 1 LB	\$10.50 / Lb	\$11.02
Disulfoton	DISYSTON, 15G, 10 LB	\$1.79 / Lb	\$1.74
Disulfoton	DISYSTON, 15G, 50 LB	\$0.00 / Lb	\$20.50
Disulfoton	DISYSTON, 8E, 5 GAL	\$71.08 / Ga	\$66.44
Carbofuran	FURADAN, 15G, 50 LB	\$1.65 / Lb	\$1.17
Carbofuran	FURADAN,4F,2.5GAL	\$75.95 / Ga	\$76.85
Azinphos Methyl	GUTHION, 2L, 5 GAL	\$31.25 / Ga	\$30.30
Lambdacyhalothrin	KARATE, 1E, 1 GAL	\$278.75 / Ga	\$270.00
Methomyl	LANNATE, 24%L, 2.5 GAL	\$49.05 / Ga	\$48.94
Chlorpyrifos	LOCK - ON	\$37.08 / Ga	\$37.73 \$47.21
Chlorpyrifos Malathion	LORSBAN, 4E, 2.5 GAL	\$50.95 / Ga \$20.00 / Ga	\$47.21 \$21.50
Malathion	MALATHION, 5S, 2.5 GAL MALATHION, 8E, 5 GAL	\$20.00 / Ga \$30.73 / Ga	\$21.50 \$31.69
Methamidophos	MONITOR, 4L, 2 GAL	\$76.50 / Ga	\$77.00
Methamidophos	MONITOR, 4L, 2 GAL MONITOR, 4L, 5 GAL	\$86.48 / Ga	\$77.00 \$82.98
Zetacypermethrin	MUSTANG (FURY)	\$317.83 / Ga	\$321.18
Acephate	ORTHENE, 75S, 10 LB	\$9.00 / Lb	\$9.61
Acephate	ORTHENE, 90S, 10 LB	\$10.31 / Lb	\$10.49
Amitraz	OVASYN, 5 GAL	\$47.56 / Lb	\$46.74
Methyl Parathion	PARATHION/METHYL, 4E, 5 GAL	\$0.00 / Ga	\$30.00
Methyl Parathion	PENNCAP M, 2L, 5 GAL	\$27.50 / Ga	\$25.75
Endosulfan	PHASER, 3EC, 1 GAL	\$33.47 / Ga	\$34.08
Tralomethrin	SCOUT X-TRA, 1 GAL	\$283.89 / Ga	\$330.00
Carbaryl	SEVIN, 4F, 2.5 GAL	\$28.75 / Ga	\$28.75
Carbaryl	SEVIN, 80S, 10 LB	\$4.76 / Lb	\$4.98
Carbaryl	SEVIN, XLR PLUS, 2.5 GAL	\$25.00 / Ga	\$25.00
Spinosad	SUCCESS	\$600.00 / Ga	\$609.67
Phorate	THIMET, 20G, 50 LB	\$2.18 / Lb	\$2.03
Endosulfan	THIODAN, 3EC, 2.5 GAL	\$34.80 / Ga	\$33.17
Abamectin	ZEPHYR, 15EC, 2.5 GAL	\$550.00 / Ga	\$550.00
Lambdacyhalothrin	WARRIOR T	\$0.00 / Ga	\$336.00
		\$0.00 / Ou	<b>4000.00</b>

**Table B.1 Prices of Materials Used** 

Common Name	Example Trade Name	1998 Price	2001 Price
	Fungicides		
Triadimefon Benomyl Chlorothalonil Mancozeb Mancozeb Metalaxyl Vinclozolin	BAYETON, 50WP, 5 LB BENLATE, 50WP, 2 LB BRAVO 500, 2.5 GAL DITHANE, M45, 80W, 3 LB DITHANE, M45, 80W, 50 LB RIDOMIL, 2E, 1 GAL RONILAN, 50DF, 5 LB	\$61.50 / Lb \$19.03 / Lb \$59.00 / Ga \$0.00 / Lb \$3.20 / Lb \$204.58 / Ga \$23.20 / Lb	\$70.12 \$20.25 \$42.60 \$3.20 \$3.10 \$202.05 \$24.59
	Defoliants		
Endothall Tribufos Thidiazuron Merphos Thidiazuron/Diuron Paraquat Paraquat	ACCELERATE, 0.5S, 5 GAL DEF-6, 6E, 2.5 GAL DROPP, 50WP, 1 LB FOLEX, 6E, 5 GAL GINSTAR GRAMOXONE EXTRA, 2.5L, 2.5 GAL GRAMOXONE, 2S, 5 GAL SODIUM CHLORATE 3, 1 GAL SODIUM CHLORATE #2, 3, 1 GAL	\$24.33 / Ga \$45.92 / Ga \$56.16 / Lb \$46.88 / Ga \$200.00 / Lb \$0.00 / Ga \$40.00 / Ga \$1.40 / Ga \$0.00 / Ga	\$24.35 \$46.28 \$59.00 \$50.78 \$216.71 \$43.00 \$40.78 \$1.25 \$6.50
	Miscellaneous		
Chlorine Comp. Gas Mepiquat Chloride Ethephon Spreader-Activator Sulfuric Acid Surfactant Vegetable Oil	Chlorine Comp. Gas PIX, .35L, 1 GAL PREP, 6E, 5 GAL Sorba Spray Zip Sulfuric Acid Bulk Surfactant (Spreader) Vegetable Oil Concentrate	\$0.80 / Lb \$107.75 / Ga \$62.67 / Ga \$13.50 / Ga \$75.00 / Tn \$16.13 / Ga \$13.00 / Ga	\$0.80 \$118.60 \$64.33 \$13.50 \$75.00 \$16.40 \$14.75

**Table B.1 Prices of Materials Used** 

Common Name	Example Trade Name	1998	2001		
		Price	Price		
	Cartons & Boxes				
Boxes & Supplies	Boxes & Supplies	\$0.95 / Ct	\$0.95		
Boxes for Cauliflower	Boxes for Cauliflower	\$0.95 / Ct	\$0.95		
Boxes for Leaf Lettuce	Boxes for Leaf Lettuce	\$1.05 / Ct	\$1.09		
Broccoli Boxes	Broccoli Boxes	\$0.82 / Ct	\$0.90		
Field Crates (Bu)	Field Crates (Bu)	\$0.00 / Sk	\$7.58		
Cantaloupe Cartons	Cantaloupe Cartons	\$0.87 / Ct \$0.49 / Sk	\$1.00		
Corn Sacks 5 Dz Cap Lettuce Cartons	Corn Sacks 5 Dz Cap Lettuce Cartons	\$0.49 / Sk \$1.00 / Ct	\$0.84 \$1.15		
Onion Bags	Onion Bags	\$1.10 / Sk	\$1.10		
Plastic Mulch (Average)	Plastic Mulch (Average)	\$75.00 / Roll	\$85.00		
Watermelon Bins	Watermelon Bins	\$9.00 / Ea	\$11.00		
Waxed Cartons	Waxed Cartons	\$1.20 / Ct	\$1.30		
Wirebound Crates	Wirebound Crates	\$1.60 / Ct	\$1.70		
	Vegetable Seeds				
Beet Seed	Beet Seed	\$5.67 / Lb	\$6.08		
Bell Pepper (OP)	Bell Pepper (OP)	\$31.67 / Lb	\$32.67		
Broccoli Seed (Hybrid)	Broccoli Seed (Hybrid)	\$2.36 / Th	\$2.65		
Broccoli Seed (OP)	Broccoli Seed (OP)	\$15.00 / Lb	\$15.00		
Butternut Squash Sd	Butternut Squash Sd	\$11.18 / Lb	\$11.80		
Cabbage Sd (OP)	Cabbage Sold (Hybrid)	\$16.75 / Lb	\$17.13		
Cabbage Seed (Hybrid)	Cabbage Seed (Hybrid)	\$2.54 / Th	\$2.89 \$9.90		
Cantaloupe Sd (Hybrid) Carrot Seed (Raw/Hybrid)	Cantaloupe Sd (Hybrid) Carrot Seed (Raw/Hybrid)	\$9.46 / Lb \$0.22 / Th	\$9.90 \$0.25		
Carrot Seed (Raw/Hybrid) Cauliflower Sd (Hyb)	Carrot Seed (Raw/Hybrid) Cauliflower Sd (Hyb)	\$0.22 / 111 \$4.80 / Th	\$0.23 \$5.10		
Cauliflower Seed	Cauliflower Seed	\$61.67 / Lb	\$71.6		
Cauliflower Trans	Cauliflower Trans	\$32.50 / Th	\$33.00		
Chile Pepper Sd (OP)	Chile Pepper Sd (OP)	\$34.23 / Lb	\$32.67		
Chinese Cabbage Sd	Chinese Cabbage Sd	\$0.87 / Lb	\$1.0		
Collard Seed	Collard Seed	\$5.50 / Lb	\$5.50		
Egg Plant (Hybrid)	Egg Plant (Hybrid)	\$2.86 / Th	\$2.95		
Garlic Cloves	Garlic Cloves	\$10.00 / Cw	\$10.00		
Green Bean Sd	Green Bean Sd	\$2.49 / Lb	\$3.00		
Green Onion Seed	Green Onion Seed	\$21.18 / Lb	\$12.33		
Head Lettuce Sd	Head Lettuce Sd	\$0.60 / Th	\$0.60		
Head Lettuce Sd, Coated	Head Lettuce Sd, Coated	\$0.77 / Th	\$0.77		
Head Lettuce Sd, Pellet	Head Lettuce Sd, Pellet	\$0.77 / Th	\$0.7		
Honeydew Melons(Hybrid)	Honeydew Melons(Hybrid)	\$20.27 / Lb	\$21.43		
Leaf Lettuce Sd (raw)	Leaf Lettuce Sd (raw)	\$0.36 / Th	\$0.54		
Okra Seed	Okra Seed	\$4.83 / Lb	\$4.42		
Okra Seed (Hybrid)	Okra Seed (Hybrid)	\$61.33 / Lb	\$61.3		
Onion Seed (Pelletized) Parslev Seed	Onion Seed (Pelletized) Parsley Seed	\$0.87 / Th \$11.83 / Lb	\$0.87 \$12.67		
Pickling Cucumber (Hyb)	Pickling Cucumber (Hyb)	\$11.63 / Lb \$19.48 / Lb	\$12.67 \$19.48		
Potato Seed	Potato Seed	\$16.00 / Cw	\$16.00		
Potato Seed + Fung.	Potato Seed + Fung.	\$0.00 / Cw	\$0.00		
Pumpkin Seed (Hyb)	Pumpkin Seed (Hyb)	\$19.88 / Th	\$20.25		
Radish Seed	Radish Seed	\$4.51 / Lb	\$5.7		
Rappini Seed	Rappini Seed	\$16.50 / Lb	\$19.0		
Slicer Cucumber (Hyb)	Slicer Cucumber (Hyb)	\$44.67 / Lb	\$44.6		
Snap Bean Seed	Snap Bean Seed	\$2.55 / Lb	\$2.5		
Spinach Seed (Hyb)	Spinach Seed (Hyb)	\$2.84 / Lb	\$2.84		
Summer Squash	Summer Squash	\$38.14 / Lb	\$38.1		
Sweet Corn (Super Sweets)	Sweet Corn (Super Sweets)	\$9.21 / Lb	\$9.2		
Sweet Corn Seed	Sweet Corn Seed	\$7.58 / Lb	\$7.5		
Sweet Corn Seed + Fung.	Sweet Corn Seed + Fung.	\$8.50 / Lb	\$8.5		
Sweet Potato Slips	Sweet Potato Slips	\$20.00 / Th	\$20.0		
Γomato Seed (Hybrid)	Tomato Seed (Hybrid)	\$10.34 / Th	\$10.0		
Γurnip Sd (Hyb)	Turnip Sd (Hyb)	\$25.17 / Lb	\$25.1		
Turnip Seed (OP)	Turnip Seed (OP)	\$4.75 / Lb	\$4.7		
Watermelon Seed (Hyb)	Watermelon Seed (Hyb)	\$30.26 / Th	\$31.5		
Watermelon Seed (OP)	Watermelon Seed (OP)	\$27.70 / Th	\$27.7		
Watermelon, Seedless	Watermelon, Seedless	\$186.00 / Lb	\$189.0		
Zucchini Seed (Hybrid)	Zucchini Seed (Hybrid)	\$50.00 / Lb	\$47.0		

**Table B.2 Cost Data for Equipment and Implements** 

	New	Hrs to	Annual		Dolla	ır Cost ı	er Hour o	f Use	
Name	Price	Wearout	Hours	Deprec	Opp. Int.	THI	Repairs	Fuel	Total
Tractors									
Tractor, 25 PTO HP	\$13,003	12,000	1200	\$0.76	\$0.59	\$0.14	\$1.09	\$1.12	\$3.71
Tractor, 25 PTO HP, MFWD	\$16,577	16,000	1200	\$0.80	\$0.71	\$0.17	\$0.80	\$1.03	\$3.51
Tractor, 35 PTO HP	\$20,550	12,000	1200	\$1.21	\$0.94	\$0.22	\$1.73	\$1.57	\$5.66
Tractor, 35 PTO HP, MFWD	\$22,786	16,000	1200	\$1.11	\$0.97	\$0.23	\$1.09	\$1.45	\$4.85
Tractor, 40 PTO HP	\$21,942	12,000	1200	\$1.29	\$1.00	\$0.24	\$1.84	\$1.80	\$6.17
Tractor, 40 PTO HP , MFWD	\$25,371	16,000	1200	\$1.23	\$1.08	\$0.26	\$1.22	\$1.66	\$5.45
Tractor, 50 PTO HP	\$25,307	12,000	1200	\$1.49	\$1.15	\$0.27	\$2.13	\$2.25	\$7.29
Tractor, 50 PTO HP, MFWD	\$29,041	16,000	1200	\$1.41	\$1.24	\$0.30	\$1.39	\$2.07	\$6.41
Tractor, 60 PTO HP	\$29,285	12,000	1200	\$1.72	\$1.33	\$0.32	\$2.46	\$2.70	\$8.53
Tractor, 60 PTO HP, MFWD	\$35,664	16,000	1200	\$1.73	\$1.52	\$0.36	\$1.71	\$2.48	\$7.81
Tractor, 70 PTO HP	\$32,461	12,000	1200	\$1.91	\$1.48	\$0.35	\$2.73	\$3.15	\$9.61
Tractor, 70 PTO HP, MFWD	\$39,646	16,000	1200	\$1.92	\$1.69	\$0.40	\$1.90	\$2.90	\$8.82
Tractor, 80 PTO HP	\$36,784	12,000	1200	\$2.16	\$1.67	\$0.40	\$3.09	\$3.60	\$10.92
Tractor, 80 PTO HP, MFWD	\$45,029	16,000	1200	\$2.18	\$1.92	\$0.46	\$2.16	\$3.31	\$10.04
Tractor, 100 PTO HP	\$50,344	12,000	1200	\$2.96	\$2.29	\$0.54	\$4.23	\$4.50	\$14.52
Tractor, 100 PTO HP, MFWD	\$61,243	16,000	1200	\$2.97	\$2.62	\$0.62	\$2.94	\$4.14	\$13.29
Tractor, 125 PTO HP	\$65,746	12,000	1200	\$3.86	\$2.99	\$0.71	\$5.52	\$6.07	\$19.16
Tractor, 125 PTO HP, MFWD	\$76,656	16,000	1200	\$3.72	\$3.28	\$0.78	\$3.68	\$5.59	\$17.04
Tractor, 150 PTO HP	\$81,578	12,000	1200	\$4.79	\$3.71	\$0.88	\$6.85	\$6.74	\$22.98
Tractor, 150 PTO HP, MFWD	\$92,268	16,000	1200	\$4.48	\$3.94	\$0.94	\$4.43	\$6.21	\$20.00
Tractor, 175 PTO HP	\$98,877	12,000	1200	\$5.81	\$4.50	\$1.07	\$8.31	\$7.87	\$27.55
Tractor, 175 PTO HP, MFWD	\$110,999 \$119,274	16,000 16,000	1200 2000	\$5.39 \$4.85	\$4.74 \$3.41	\$1.13 \$0.80	\$5.33 \$5.73	\$7.24 \$8.99	\$23.83 \$23.79
Tractor, 200 PTO HP, 4WD Tractor, 85 hp "MUDDER"	\$42,913	12,000	1200	\$4.65 \$2.52	\$3.41 \$1.95	\$0.46	\$3.73 \$3.60	\$3.73	\$23.79 \$12.27
Tractor, 235 Eng HP, Art.	\$118,900	16,000	2000	\$4.84	\$3.40	\$0.40	\$5.00 \$5.71	\$3.73 \$7.87	\$22.62
Tractor, 300 Eng HP, Art.	\$1134,560	16,000	2000	\$5.48	\$3. <del>4</del> 0 \$3.85	\$0.80	\$6.46	\$10.12	\$26.81
Tractor, 335 Eng HP, Art.	\$137,034	16,000	2000	\$5.58	\$3.92	\$0.92	\$6.58	\$11.02	\$28.01
Tractor, 375 Eng HP, Art.	\$151,900	16,000	2000	\$6.18	\$4.35	\$1.02	\$7.29	\$12.81	\$31.66
Tractor, Crawler, Rubber Track	\$160,240	16,000	2000	\$6.52	\$4.58	\$1.08	\$7.69	\$10.57	\$30.44
Skip Loader, Wheeled	\$89,426	12,000	1000	\$5.59	\$4.69	\$1.12	\$7.51	\$4.05	\$22.96
Motor Grader, 12'	\$184,230	16,000	1200	\$8.94	\$7.87	\$1.88	\$8.84	\$5.62	\$33.15
Self Propelled Harvest Equipment		-,		***					,
Bale Wagon, SP PRC	\$107,880	3,000	300	\$30.02	\$17.96	\$4.19	\$59.75	\$4.44	\$116.37
Bale Wagon, SP PRC W/Squeeze	\$110,680	3,000	300	\$30.80	\$18.43	\$4.30	\$61.30	\$4.44	\$119.28
Combine, Sm. Gr., PL20, 155 Bu	\$126,986	3,000	400	\$31.49	\$17.21	\$3.99	\$17.01	\$4.19	\$73.89
Combine, Sm. Gr., PL20, 190 Bu	\$140,511	3,000	400	\$34.85	\$19.04	\$4.41	\$18.82	\$4.61	\$81.73
Combine, Corn, 190 Bu, 6 Row	\$157,934	3,000	400	\$39.17	\$21.40	\$4.96	\$21.15	\$4.61	\$91.29
Cotton Picker, 4Rw, HDC C PC	\$232,671	3,000	500	\$53.71	\$26.49	\$6.09	\$61.64	\$6.71	\$154.62
Cotton Picker, 5Rw, HDC C PC	\$244,800	3,000	500	\$56.51	\$27.87	\$6.40	\$64.85	\$6.71	\$162.33
Cotton Picker, 2Rw	\$139,749	3,000	500	\$32.26	\$15.91	\$3.66	\$37.02		
Cotton Stripper, 4Rw PSB PC	\$122,138				Ψ10.01	φ3.00	\$37.02	\$4.61	\$93.45
	Ψ.ΖΕ, 100	3,000	500	\$28.19	\$13.90	\$3.00 \$3.19	\$32.35	\$4.61 \$5.53	\$93.45 \$83.18
Forage Harv,SP RC 3.0 PSB FC	\$173,618	3,000 4,000	500 400						
Forage Harv,SP RC 3.0 PSB FC Forage Harv,SP SB 14.0 PSB FC				\$28.19	\$13.90	\$3.19	\$32.35	\$5.53	\$83.18
Forage Harv,SP SB 14.0 PSB FC Windrower, 14.0', HS, SC	\$173,618 \$208,616 \$62,738	4,000	400	\$28.19 \$36.24	\$13.90 \$21.68 \$32.73 \$10.44	\$3.19 \$5.06	\$32.35 \$20.83 \$25.03 \$11.29	\$5.53 \$4.19	\$83.18 \$88.00 \$116.10 \$44.57
Forage Harv,SP SB 14.0 PSB FC Windrower, 14.0', HS, SC Lettuce Harvester, 12Rw	\$173,618 \$208,616 \$62,738 \$89,000	4,000 4,000 3,000 12,000	400 300 300 1000	\$28.19 \$36.24 \$46.43 \$17.46 \$6.32	\$13.90 \$21.68 \$32.73 \$10.44 \$4.34	\$3.19 \$5.06 \$7.72 \$2.44 \$1.02	\$32.35 \$20.83 \$25.03 \$11.29 \$64.08	\$5.53 \$4.19 \$4.19 \$2.93 \$3.82	\$83.18 \$88.00 \$116.10 \$44.57 \$79.58
Forage Harv,SP SB 14.0 PSB FC Windrower, 14.0', HS, SC	\$173,618 \$208,616 \$62,738 \$89,000 \$105,000	4,000 4,000 3,000	400 300 300	\$28.19 \$36.24 \$46.43 \$17.46	\$13.90 \$21.68 \$32.73 \$10.44 \$4.34 \$5.12	\$3.19 \$5.06 \$7.72 \$2.44	\$32.35 \$20.83 \$25.03 \$11.29	\$5.53 \$4.19 \$4.19 \$2.93	\$83.18 \$88.00 \$116.10 \$44.57
Forage Harv,SP SB 14.0 PSB FC Windrower, 14.0', HS, SC Lettuce Harvester, 12Rw Cauliflower Harvester, 18 Row Chili Harvester, SP 2 Row	\$173,618 \$208,616 \$62,738 \$89,000 \$105,000 \$125,000	4,000 4,000 3,000 12,000	400 300 300 1000	\$28.19 \$36.24 \$46.43 \$17.46 \$6.32 \$7.46 \$18.98	\$13.90 \$21.68 \$32.73 \$10.44 \$4.34	\$3.19 \$5.06 \$7.72 \$2.44 \$1.02 \$1.21 \$1.74	\$32.35 \$20.83 \$25.03 \$11.29 \$64.08 \$75.60 \$30.00	\$5.53 \$4.19 \$4.19 \$2.93 \$3.82	\$83.18 \$88.00 \$116.10 \$44.57 \$79.58 \$93.20 \$62.18
Forage Harv,SP SB 14.0 PSB FC Windrower, 14.0', HS, SC Lettuce Harvester, 12Rw Cauliflower Harvester, 18 Row Chili Harvester, SP 2 Row Chili Harvester, SP 2 Row	\$173,618 \$208,616 \$62,738 \$89,000 \$105,000 \$125,000 \$125,000	4,000 4,000 3,000 12,000 12,000 4,000 4,000	400 300 300 1000 1000 1000 1000	\$28.19 \$36.24 \$46.43 \$17.46 \$6.32 \$7.46 \$18.98 \$18.98	\$13.90 \$21.68 \$32.73 \$10.44 \$4.34 \$5.12 \$7.72 \$7.72	\$3.19 \$5.06 \$7.72 \$2.44 \$1.02 \$1.21 \$1.74	\$32.35 \$20.83 \$25.03 \$11.29 \$64.08 \$75.60 \$30.00 \$30.00	\$5.53 \$4.19 \$4.19 \$2.93 \$3.82 \$3.82 \$3.73 \$3.82	\$83.18 \$88.00 \$116.10 \$44.57 \$79.58 \$93.20 \$62.18 \$62.27
Forage Harv,SP SB 14.0 PSB FC Windrower, 14.0', HS, SC Lettuce Harvester, 12Rw Cauliflower Harvester, 18 Row Chili Harvester, SP 2 Row Chili Harvester, SP 2 Row Chili Harvester, SP 4 Row	\$173,618 \$208,616 \$62,738 \$89,000 \$105,000 \$125,000 \$125,000 \$188,000	4,000 4,000 3,000 12,000 12,000 4,000 4,000	400 300 300 1000 1000 1000 1000	\$28.19 \$36.24 \$46.43 \$17.46 \$6.32 \$7.46 \$18.98 \$18.98 \$28.55	\$13.90 \$21.68 \$32.73 \$10.44 \$4.34 \$5.12 \$7.72 \$7.72 \$11.61	\$3.19 \$5.06 \$7.72 \$2.44 \$1.02 \$1.21 \$1.74 \$1.74 \$2.62	\$32.35 \$20.83 \$25.03 \$11.29 \$64.08 \$75.60 \$30.00 \$30.00 \$45.12	\$5.53 \$4.19 \$4.19 \$2.93 \$3.82 \$3.82 \$3.73 \$3.82 \$4.05	\$83.18 \$88.00 \$116.10 \$44.57 \$79.58 \$93.20 \$62.18 \$62.27 \$91.95
Forage Harv,SP SB 14.0 PSB FC Windrower, 14.0', HS, SC Lettuce Harvester, 12Rw Cauliflower Harvester, 18 Row Chili Harvester, SP 2 Row Chili Harvester, SP 2 Row Chili Harvester, SP 4 Row Nut Harvester, w/4' Head	\$173,618 \$208,616 \$62,738 \$89,000 \$105,000 \$125,000 \$125,000 \$188,000 \$29,500	4,000 4,000 3,000 12,000 4,000 4,000 4,000 4,000	400 300 300 1000 1000 1000 1000 400	\$28.19 \$36.24 \$46.43 \$17.46 \$6.32 \$7.46 \$18.98 \$18.98 \$28.55 \$5.98	\$13.90 \$21.68 \$32.73 \$10.44 \$4.34 \$5.12 \$7.72 \$7.72 \$11.61 \$3.75	\$3.19 \$5.06 \$7.72 \$2.44 \$1.02 \$1.21 \$1.74 \$1.74 \$2.62 \$0.88	\$32.35 \$20.83 \$25.03 \$11.29 \$64.08 \$75.60 \$30.00 \$30.00 \$45.12 \$7.08	\$5.53 \$4.19 \$4.19 \$2.93 \$3.82 \$3.73 \$3.82 \$4.05 \$3.47	\$83.18 \$88.00 \$116.10 \$44.57 \$79.58 \$93.20 \$62.18 \$62.27 \$91.95 \$21.15
Forage Harv,SP SB 14.0 PSB FC Windrower, 14.0', HS, SC Lettuce Harvester, 12Rw Cauliflower Harvester, 18 Row Chili Harvester, SP 2 Row Chili Harvester, SP 2 Row Chili Harvester, SP 4 Row Nut Harvester, w/4' Head Catch Frame Harvester	\$173,618 \$208,616 \$62,738 \$89,000 \$105,000 \$125,000 \$125,000 \$188,000 \$29,500 \$133,493	4,000 4,000 3,000 12,000 4,000 4,000 4,000 4,000 4,000	400 300 300 1000 1000 1000 1000 400 400	\$28.19 \$36.24 \$46.43 \$17.46 \$6.32 \$7.46 \$18.98 \$18.98 \$28.55 \$5.98 \$27.08	\$13.90 \$21.68 \$32.73 \$10.44 \$4.34 \$5.12 \$7.72 \$7.72 \$11.61 \$3.75 \$16.95	\$3.19 \$5.06 \$7.72 \$2.44 \$1.02 \$1.21 \$1.74 \$1.74 \$2.62 \$0.88 \$3.97	\$32.35 \$20.83 \$25.03 \$11.29 \$64.08 \$75.60 \$30.00 \$30.00 \$45.12 \$7.08 \$32.04	\$5.53 \$4.19 \$4.19 \$2.93 \$3.82 \$3.82 \$3.73 \$3.82 \$4.05 \$3.47 \$2.52	\$83.18 \$88.00 \$116.10 \$44.57 \$79.58 \$93.20 \$62.18 \$62.27 \$91.95 \$21.15 \$82.55
Forage Harv,SP SB 14.0 PSB FC Windrower, 14.0', HS, SC Lettuce Harvester, 12Rw Cauliflower Harvester, 18 Row Chili Harvester, SP 2 Row Chili Harvester, SP 2 Row Chili Harvester, SP 4 Row Nut Harvester, W/4' Head Catch Frame Harvester Tree Shaker, SP 7'	\$173,618 \$208,616 \$62,738 \$89,000 \$105,000 \$125,000 \$125,000 \$188,000 \$29,500 \$133,493 \$80,157	4,000 4,000 3,000 12,000 4,000 4,000 4,000 4,000 4,000 4,000	400 300 300 1000 1000 1000 1000 400 400 400	\$28.19 \$36.24 \$46.43 \$17.46 \$6.32 \$7.46 \$18.98 \$18.98 \$28.55 \$5.98 \$27.08 \$16.26	\$13.90 \$21.68 \$32.73 \$10.44 \$4.34 \$5.12 \$7.72 \$7.72 \$11.61 \$3.75 \$16.95 \$10.18	\$3.19 \$5.06 \$7.72 \$2.44 \$1.02 \$1.21 \$1.74 \$1.74 \$2.62 \$0.88 \$3.97 \$2.38	\$32.35 \$20.83 \$25.03 \$11.29 \$64.08 \$75.60 \$30.00 \$30.00 \$45.12 \$7.08 \$32.04 \$19.24	\$5.53 \$4.19 \$4.19 \$2.93 \$3.82 \$3.82 \$3.73 \$3.82 \$4.05 \$3.47 \$2.52 \$2.52	\$83.18 \$88.00 \$116.10 \$44.57 \$79.58 \$93.20 \$62.18 \$62.27 \$91.95 \$21.15 \$82.55 \$50.57
Forage Harv,SP SB 14.0 PSB FC Windrower, 14.0', HS, SC Lettuce Harvester, 12Rw Cauliflower Harvester, 18 Row Chili Harvester, SP 2 Row Chili Harvester, SP 2 Row Chili Harvester, SP 4 Row Nut Harvester, w/4' Head Catch Frame Harvester	\$173,618 \$208,616 \$62,738 \$89,000 \$105,000 \$125,000 \$125,000 \$188,000 \$29,500 \$133,493	4,000 4,000 3,000 12,000 4,000 4,000 4,000 4,000 4,000	400 300 300 1000 1000 1000 1000 400 400	\$28.19 \$36.24 \$46.43 \$17.46 \$6.32 \$7.46 \$18.98 \$18.98 \$28.55 \$5.98 \$27.08	\$13.90 \$21.68 \$32.73 \$10.44 \$4.34 \$5.12 \$7.72 \$7.72 \$11.61 \$3.75 \$16.95	\$3.19 \$5.06 \$7.72 \$2.44 \$1.02 \$1.21 \$1.74 \$1.74 \$2.62 \$0.88 \$3.97	\$32.35 \$20.83 \$25.03 \$11.29 \$64.08 \$75.60 \$30.00 \$30.00 \$45.12 \$7.08 \$32.04	\$5.53 \$4.19 \$4.19 \$2.93 \$3.82 \$3.82 \$3.73 \$3.82 \$4.05 \$3.47 \$2.52	\$83.18 \$88.00 \$116.10 \$44.57 \$79.58 \$93.20 \$62.18 \$62.27 \$91.95 \$21.15 \$82.55
Forage Harv,SP SB 14.0 PSB FC Windrower, 14.0', HS, SC Lettuce Harvester, 12Rw Cauliflower Harvester, 18 Row Chili Harvester, SP 2 Row Chili Harvester, SP 2 Row Chili Harvester, SP 4 Row Nut Harvester, w/4' Head Catch Frame Harvester Tree Shaker, SP 7' Sweeper, 7.5' w/30 HP Wisc	\$173,618 \$208,616 \$62,738 \$89,000 \$105,000 \$125,000 \$125,000 \$188,000 \$29,500 \$133,493 \$80,157	4,000 4,000 3,000 12,000 4,000 4,000 4,000 4,000 4,000 4,000	400 300 300 1000 1000 1000 1000 400 400 400	\$28.19 \$36.24 \$46.43 \$17.46 \$6.32 \$7.46 \$18.98 \$18.98 \$28.55 \$5.98 \$27.08 \$16.26	\$13.90 \$21.68 \$32.73 \$10.44 \$4.34 \$5.12 \$7.72 \$7.72 \$11.61 \$3.75 \$16.95 \$10.18	\$3.19 \$5.06 \$7.72 \$2.44 \$1.02 \$1.21 \$1.74 \$1.74 \$2.62 \$0.88 \$3.97 \$2.38	\$32.35 \$20.83 \$25.03 \$11.29 \$64.08 \$75.60 \$30.00 \$30.00 \$45.12 \$7.08 \$32.04 \$19.24	\$5.53 \$4.19 \$4.19 \$2.93 \$3.82 \$3.82 \$3.73 \$3.82 \$4.05 \$3.47 \$2.52 \$2.52	\$83.18 \$88.00 \$116.10 \$44.57 \$79.58 \$93.20 \$62.18 \$62.27 \$91.95 \$21.15 \$82.55 \$50.57
Forage Harv,SP SB 14.0 PSB FC Windrower, 14.0', HS, SC Lettuce Harvester, 12Rw Cauliflower Harvester, 18 Row Chili Harvester, SP 2 Row Chili Harvester, SP 2 Row Chili Harvester, SP 4 Row Nut Harvester, W/4' Head Catch Frame Harvester Tree Shaker, SP 7'	\$173,618 \$208,616 \$62,738 \$89,000 \$105,000 \$125,000 \$125,000 \$188,000 \$29,500 \$133,493 \$80,157	4,000 4,000 3,000 12,000 4,000 4,000 4,000 4,000 4,000 4,000	400 300 300 1000 1000 1000 1000 400 400 400	\$28.19 \$36.24 \$46.43 \$17.46 \$6.32 \$7.46 \$18.98 \$18.98 \$28.55 \$5.98 \$27.08 \$16.26	\$13.90 \$21.68 \$32.73 \$10.44 \$4.34 \$5.12 \$7.72 \$7.72 \$11.61 \$3.75 \$16.95 \$10.18	\$3.19 \$5.06 \$7.72 \$2.44 \$1.02 \$1.21 \$1.74 \$1.74 \$2.62 \$0.88 \$3.97 \$2.38	\$32.35 \$20.83 \$25.03 \$11.29 \$64.08 \$75.60 \$30.00 \$30.00 \$45.12 \$7.08 \$32.04 \$19.24	\$5.53 \$4.19 \$4.19 \$2.93 \$3.82 \$3.82 \$3.73 \$3.82 \$4.05 \$3.47 \$2.52 \$2.52	\$83.18 \$88.00 \$116.10 \$44.57 \$79.58 \$93.20 \$62.18 \$62.27 \$91.95 \$21.15 \$82.55 \$50.57
Forage Harv,SP SB 14.0 PSB FC Windrower, 14.0', HS, SC Lettuce Harvester, 12Rw Cauliflower Harvester, 18 Row Chili Harvester, SP 2 Row Chili Harvester, SP 2 Row Chili Harvester, SP 4 Row Nut Harvester, W/4' Head Catch Frame Harvester Tree Shaker, SP 7' Sweeper, 7.5' w/30 HP Wisc	\$173,618 \$208,616 \$62,738 \$89,000 \$105,000 \$125,000 \$125,000 \$188,000 \$29,500 \$133,493 \$80,157 \$33,400	4,000 4,000 3,000 12,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000	400 300 300 1000 1000 1000 1000 400 400 400 400	\$28.19 \$36.24 \$46.43 \$17.46 \$6.32 \$7.46 \$18.98 \$18.98 \$28.55 \$5.98 \$27.08 \$16.26 \$6.77	\$13.90 \$21.68 \$32.73 \$10.44 \$4.34 \$5.12 \$7.72 \$11.61 \$3.75 \$16.95 \$10.18 \$4.24	\$3.19 \$5.06 \$7.72 \$2.44 \$1.02 \$1.21 \$1.74 \$1.74 \$2.62 \$0.88 \$3.97 \$2.38 \$0.99	\$32.35 \$20.83 \$25.03 \$11.29 \$64.08 \$75.60 \$30.00 \$45.12 \$7.08 \$32.04 \$19.24 \$8.02	\$5.53 \$4.19 \$4.19 \$2.93 \$3.82 \$3.82 \$3.73 \$3.82 \$4.05 \$3.47 \$2.52 \$2.52 \$2.18	\$83.18 \$88.00 \$116.10 \$44.57 \$79.58 \$93.20 \$62.18 \$62.27 \$91.95 \$21.15 \$82.55 \$50.57 \$22.20
Forage Harv,SP SB 14.0 PSB FC Windrower, 14.0', HS, SC Lettuce Harvester, 12Rw Cauliflower Harvester, 18 Row Chili Harvester, SP 2 Row Chili Harvester, SP 2 Row Chili Harvester, SP 4 Row Nut Harvester, W/4' Head Catch Frame Harvester Tree Shaker, SP 7' Sweeper, 7.5' w/30 HP Wisc  Trucks Pickup Truck, Mini	\$173,618 \$208,616 \$62,738 \$89,000 \$105,000 \$125,000 \$125,000 \$188,000 \$29,500 \$133,493 \$80,157 \$33,400	4,000 4,000 3,000 12,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000	400 300 300 1000 1000 1000 1000 400 400 400 400	\$28.19 \$36.24 \$46.43 \$17.46 \$6.32 \$7.46 \$18.98 \$18.98 \$28.55 \$5.98 \$27.08 \$16.26 \$6.77	\$13.90 \$21.68 \$32.73 \$10.44 \$4.34 \$5.12 \$7.72 \$11.61 \$3.75 \$16.95 \$10.18 \$4.24	\$3.19 \$5.06 \$7.72 \$2.44 \$1.02 \$1.21 \$1.74 \$1.74 \$2.62 \$0.88 \$3.97 \$2.38 \$0.99	\$32.35 \$20.83 \$25.03 \$11.29 \$64.08 \$75.60 \$30.00 \$45.12 \$7.08 \$32.04 \$19.24 \$8.02	\$5.53 \$4.19 \$4.19 \$2.93 \$3.82 \$3.82 \$3.73 \$3.82 \$4.05 \$3.47 \$2.52 \$2.52 \$2.18	\$83.18 \$88.00 \$116.10 \$44.57 \$79.58 \$93.20 \$62.18 \$62.27 \$91.95 \$21.15 \$82.55 \$50.57 \$22.20
Forage Harv,SP SB 14.0 PSB FC Windrower, 14.0', HS, SC Lettuce Harvester, 12Rw Cauliflower Harvester, 18 Row Chili Harvester, SP 2 Row Chili Harvester, SP 2 Row Chili Harvester, SP 4 Row Nut Harvester, W/4' Head Catch Frame Harvester Tree Shaker, SP 7' Sweeper, 7.5' w/30 HP Wisc  Trucks Pickup Truck, Mini Pickup Truck, 1/2 Ton	\$173,618 \$208,616 \$62,738 \$89,000 \$105,000 \$125,000 \$125,000 \$188,000 \$29,500 \$133,493 \$80,157 \$33,400 \$14,703 \$17,860 \$21,212	4,000 4,000 3,000 12,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000	400 300 300 1000 1000 1000 1000 400 400 400 400 600	\$28.19 \$36.24 \$46.43 \$17.46 \$6.32 \$7.46 \$18.98 \$18.98 \$28.55 \$5.98 \$27.08 \$16.26 \$6.77	\$13.90 \$21.68 \$32.73 \$10.44 \$4.34 \$5.12 \$7.72 \$11.61 \$3.75 \$16.95 \$10.18 \$4.24	\$3.19 \$5.06 \$7.72 \$2.44 \$1.02 \$1.21 \$1.74 \$1.74 \$2.62 \$0.88 \$3.97 \$2.38 \$0.99	\$32.35 \$20.83 \$25.03 \$11.29 \$64.08 \$75.60 \$30.00 \$45.12 \$7.08 \$32.04 \$19.24 \$8.02	\$5.53 \$4.19 \$4.19 \$2.93 \$3.82 \$3.82 \$3.73 \$3.82 \$4.05 \$3.47 \$2.52 \$2.52 \$2.18	\$83.18 \$88.00 \$116.10 \$44.57 \$79.58 \$93.20 \$62.18 \$62.27 \$91.95 \$21.15 \$82.55 \$50.57 \$22.20
Forage Harv, SP SB 14.0 PSB FC Windrower, 14.0', HS, SC Lettuce Harvester, 12Rw Cauliflower Harvester, 18 Row Chili Harvester, SP 2 Row Chili Harvester, SP 2 Row Chili Harvester, SP 4 Row Nut Harvester, W/4' Head Catch Frame Harvester Tree Shaker, SP 7' Sweeper, 7.5' w/30 HP Wisc  Trucks Pickup Truck, Mini Pickup Truck, 3/4 Ton	\$173,618 \$208,616 \$62,738 \$89,000 \$105,000 \$125,000 \$125,000 \$188,000 \$29,500 \$133,493 \$80,157 \$33,400 \$14,703 \$17,860	4,000 4,000 3,000 12,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000	400 300 300 1000 1000 1000 1000 400 400 400 400 600 600	\$28.19 \$36.24 \$46.43 \$17.46 \$6.32 \$7.46 \$18.98 \$18.98 \$28.55 \$5.98 \$27.08 \$16.26 \$6.77 \$4.17 \$3.80 \$4.51	\$13.90 \$21.68 \$32.73 \$10.44 \$4.34 \$5.12 \$7.72 \$11.61 \$3.75 \$16.95 \$10.18 \$4.24 \$1.29 \$1.52 \$1.81	\$3.19 \$5.06 \$7.72 \$2.44 \$1.02 \$1.21 \$1.74 \$1.74 \$2.62 \$0.88 \$3.97 \$2.38 \$0.99	\$32.35 \$20.83 \$25.03 \$11.29 \$64.08 \$75.60 \$30.00 \$45.12 \$7.08 \$32.04 \$19.24 \$8.02 \$2.95 \$3.69 \$4.39	\$5.53 \$4.19 \$4.19 \$2.93 \$3.82 \$3.82 \$3.73 \$3.82 \$4.05 \$3.47 \$2.52 \$2.52 \$2.18	\$83.18 \$88.00 \$116.10 \$44.57 \$79.58 \$93.20 \$62.18 \$62.27 \$91.95 \$21.15 \$82.55 \$50.57 \$22.20 \$11.79 \$13.87 \$16.39
Forage Harv, SP SB 14.0 PSB FC Windrower, 14.0', HS, SC Lettuce Harvester, 12Rw Cauliflower Harvester, 18 Row Chili Harvester, SP 2 Row Chili Harvester, SP 2 Row Chili Harvester, SP 4 Row Nut Harvester, W/4' Head Catch Frame Harvester Tree Shaker, SP 7' Sweeper, 7.5' w/30 HP Wisc  Trucks Pickup Truck, Mini Pickup Truck, 3/4 Ton Pickup Truck, 3/4 Ton Pickup Truck, 3/4 Ton	\$173,618 \$208,616 \$62,738 \$89,000 \$105,000 \$125,000 \$125,000 \$125,000 \$188,000 \$29,500 \$133,493 \$80,157 \$33,400 \$14,703 \$17,860 \$21,212 \$23,169	4,000 4,000 3,000 12,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 5,500	400 300 300 1000 1000 1000 1000 400 400 400 400 600 600 600	\$28.19 \$36.24 \$46.43 \$17.46 \$6.32 \$7.46 \$18.98 \$18.98 \$28.55 \$5.98 \$27.08 \$16.26 \$6.77 \$4.17 \$3.80 \$4.51 \$3.58	\$13.90 \$21.68 \$32.73 \$10.44 \$4.34 \$5.12 \$7.72 \$11.61 \$3.75 \$16.95 \$10.18 \$4.24 \$1.29 \$1.52 \$1.81 \$1.92	\$3.19 \$5.06 \$7.72 \$2.44 \$1.02 \$1.21 \$1.74 \$1.74 \$2.62 \$0.88 \$3.97 \$2.38 \$0.99 \$0.70 \$0.86 \$1.02 \$1.11	\$32.35 \$20.83 \$25.03 \$11.29 \$64.08 \$75.60 \$30.00 \$45.12 \$7.08 \$32.04 \$19.24 \$8.02 \$2.95 \$3.69 \$4.39 \$4.95	\$5.53 \$4.19 \$4.19 \$2.93 \$3.82 \$3.82 \$3.73 \$3.82 \$4.05 \$3.47 \$2.52 \$2.52 \$2.18 \$2.67 \$4.00 \$4.67 \$5.34	\$83.18 \$88.00 \$116.10 \$44.57 \$79.58 \$93.20 \$62.18 \$62.27 \$91.95 \$21.15 \$82.55 \$50.57 \$22.20 \$11.79 \$13.87 \$16.39 \$16.89
Forage Harv,SP SB 14.0 PSB FC Windrower, 14.0', HS, SC Lettuce Harvester, 12Rw Cauliflower Harvester, 18 Row Chili Harvester, SP 2 Row Chili Harvester, SP 2 Row Chili Harvester, SP 4 Row Nut Harvester, w/4' Head Catch Frame Harvester Tree Shaker, SP 7' Sweeper, 7.5' w/30 HP Wisc  Trucks Pickup Truck, Mini Pickup Truck, 3/4 Ton Pickup Truck, 3/4 Ton Pickup Truck, 1 Ton	\$173,618 \$208,616 \$62,738 \$89,000 \$105,000 \$125,000 \$125,000 \$188,000 \$29,500 \$133,493 \$80,157 \$33,400 \$14,703 \$17,860 \$21,212 \$23,169 \$22,875	4,000 4,000 3,000 12,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 5,500 5,500	400 300 1000 1000 1000 1000 400 400 400 400 600 600 600 600	\$28.19 \$36.24 \$46.43 \$17.46 \$6.32 \$7.46 \$18.98 \$18.98 \$28.55 \$5.98 \$27.08 \$16.26 \$6.77 \$4.17 \$3.80 \$4.51 \$3.58 \$3.54	\$13.90 \$21.68 \$32.73 \$10.44 \$4.34 \$5.12 \$7.72 \$11.61 \$3.75 \$16.95 \$10.18 \$4.24 \$1.29 \$1.52 \$1.81 \$1.92 \$1.90	\$3.19 \$5.06 \$7.72 \$2.44 \$1.02 \$1.21 \$1.74 \$2.62 \$0.88 \$3.97 \$2.38 \$0.99 \$0.70 \$0.86 \$1.02 \$1.11 \$1.10	\$32.35 \$20.83 \$25.03 \$11.29 \$64.08 \$75.60 \$30.00 \$45.12 \$7.08 \$32.04 \$19.24 \$8.02 \$2.95 \$3.69 \$4.39 \$4.95 \$4.88	\$5.53 \$4.19 \$4.19 \$2.93 \$3.82 \$3.73 \$3.82 \$4.05 \$3.47 \$2.52 \$2.52 \$2.18 \$2.67 \$4.00 \$4.67 \$5.34 \$7.34	\$83.18 \$88.00 \$116.10 \$44.57 \$79.58 \$93.20 \$62.18 \$62.27 \$91.95 \$21.15 \$82.55 \$50.57 \$22.20 \$11.79 \$13.87 \$16.39 \$16.89 \$18.75
Forage Harv, SP SB 14.0 PSB FC Windrower, 14.0', HS, SC Lettuce Harvester, 12Rw Cauliflower Harvester, 18 Row Chili Harvester, SP 2 Row Chili Harvester, SP 2 Row Chili Harvester, SP 4 Row Nut Harvester, W/4' Head Catch Frame Harvester Tree Shaker, SP 7' Sweeper, 7.5' w/30 HP Wisc  Trucks Pickup Truck, Mini Pickup Truck, 3/4 Ton Pickup Truck, 3/4 Ton Pickup Truck, 1 Ton Truck, 5 Ton w/1000 Gal Tank	\$173,618 \$208,616 \$62,738 \$89,000 \$105,000 \$125,000 \$125,000 \$188,000 \$29,500 \$133,493 \$80,157 \$33,400 \$14,703 \$17,860 \$21,212 \$23,169 \$22,875 \$39,638	4,000 4,000 3,000 12,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 5,500 5,500 5,500	400 300 1000 1000 1000 1000 400 400 400 400 600 600 600 600 600	\$28.19 \$36.24 \$46.43 \$17.46 \$6.32 \$7.46 \$18.98 \$18.98 \$28.55 \$5.98 \$27.08 \$16.26 \$6.77 \$4.17 \$3.80 \$4.51 \$3.58 \$3.54 \$6.13	\$13.90 \$21.68 \$32.73 \$10.44 \$4.34 \$5.12 \$7.72 \$11.61 \$3.75 \$16.95 \$10.18 \$4.24 \$1.29 \$1.52 \$1.81 \$1.92 \$1.90 \$3.28	\$3.19 \$5.06 \$7.72 \$2.44 \$1.02 \$1.21 \$1.74 \$2.62 \$0.88 \$3.97 \$2.38 \$0.99 \$0.70 \$0.86 \$1.02 \$1.11 \$1.10 \$1.90	\$32.35 \$20.83 \$25.03 \$11.29 \$64.08 \$75.60 \$30.00 \$45.12 \$7.08 \$32.04 \$19.24 \$8.02 \$2.95 \$3.69 \$4.39 \$4.95 \$4.88 \$8.46	\$5.53 \$4.19 \$4.19 \$2.93 \$3.82 \$3.73 \$3.82 \$4.05 \$3.47 \$2.52 \$2.52 \$2.18 \$2.67 \$4.00 \$4.67 \$5.34 \$7.34 \$9.34	\$83.18 \$88.00 \$116.10 \$44.57 \$79.58 \$93.20 \$62.18 \$62.27 \$91.95 \$21.15 \$82.55 \$50.57 \$22.20 \$11.79 \$13.87 \$16.39 \$16.89 \$18.75
Forage Harv, SP SB 14.0 PSB FC Windrower, 14.0', HS, SC Lettuce Harvester, 12Rw Cauliflower Harvester, 18 Row Chili Harvester, SP 2 Row Chili Harvester, SP 2 Row Chili Harvester, SP 4 Row Nut Harvester, W/4' Head Catch Frame Harvester Tree Shaker, SP 7' Sweeper, 7.5' w/30 HP Wisc  Trucks Pickup Truck, Mini Pickup Truck, 1/2 Ton Pickup Truck, 3/4 Ton Pickup Truck, 3/4 Ton 4WD Pickup Truck, 1 Ton Truck, 5 Ton w/1000 Gal Tank Truck, 5 Ton, Grain	\$173,618 \$208,616 \$62,738 \$89,000 \$105,000 \$125,000 \$125,000 \$133,493 \$80,157 \$33,400 \$14,703 \$17,860 \$21,212 \$23,169 \$22,875 \$39,638 \$48,138	4,000 4,000 3,000 12,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 5,500 5,500 5,500	400 300 1000 1000 1000 1000 400 400 400 400 600 600 600 600 600	\$28.19 \$36.24 \$46.43 \$17.46 \$6.32 \$7.46 \$18.98 \$18.98 \$28.55 \$5.98 \$27.08 \$16.26 \$6.77 \$4.17 \$3.80 \$4.51 \$3.58 \$3.54 \$6.13 \$7.44	\$13.90 \$21.68 \$32.73 \$10.44 \$4.34 \$5.12 \$7.72 \$11.61 \$3.75 \$16.95 \$10.18 \$4.24 \$1.29 \$1.52 \$1.81 \$1.92 \$1.90 \$3.28 \$3.99	\$3.19 \$5.06 \$7.72 \$2.44 \$1.02 \$1.21 \$1.74 \$2.62 \$0.88 \$3.97 \$2.38 \$0.99 \$0.70 \$0.86 \$1.02 \$1.11 \$1.10 \$1.90 \$2.31	\$32.35 \$20.83 \$25.03 \$11.29 \$64.08 \$75.60 \$30.00 \$45.12 \$7.08 \$32.04 \$19.24 \$8.02 \$2.95 \$3.69 \$4.39 \$4.95 \$4.88 \$8.46 \$10.28	\$5.53 \$4.19 \$4.19 \$2.93 \$3.82 \$3.73 \$3.82 \$4.05 \$3.47 \$2.52 \$2.52 \$2.18 \$2.67 \$4.00 \$4.67 \$5.34 \$7.34 \$9.34	\$83.18 \$88.00 \$116.10 \$44.57 \$79.58 \$93.20 \$62.18 \$62.27 \$91.95 \$21.15 \$82.55 \$50.57 \$22.20 \$11.79 \$13.87 \$16.39 \$16.89 \$18.75 \$29.11 \$33.35

Fuel Prices: Diesel (D) \$0.729, Gasoline (UG) \$1.16

**Table B.2 Cost Data for Equipment and Implements** 

Na	New	Hrs to	Annual	-			per Hour o		T-4-1
Name	Price	Wearout	Hours	Deprec	Opp. Int.	THI	Repairs	Fuel	Total
Spray Equipment									
High Clearance Sprayer, 18 Rw	\$70,308	12,000	900	\$5.22	\$3.68	\$0.87	\$5.91	\$5.34	\$21.00
Over Vine Sprayer, 2 row	\$22,100	1,500	200	\$11.43	\$5.87	\$1.35	\$10.23		\$28.89
Directed Spray Rig, 8 Row	\$3,775	1,500	500	\$1.54	\$0.48	\$0.10	\$1.75		\$3.87
Directed Spray Rig, 16 Row	\$8,250	1,500	500	\$3.37	\$1.05	\$0.23	\$3.82		\$8.47
Saddle Tk Sprayer, 2 Tk 8 Row Manual Spray Rig, 150 g on ski	\$8,250 \$2,400	1,500 1,500	200 200	\$4.27 \$1.24	\$2.19 \$0.64	\$0.51 \$0.15	\$3.82 \$1.11		\$10.78 \$3.14
Sprayer, Air Blast 500 GAL ENG	\$51,000	2,000	500	\$16.74	\$6.15	\$1.37	\$1.11 \$15.46	\$4.67	\$3.14 \$44.39
Sprayer, Air Blast 500 GAL ENG Sprayer, Air Blast 500 GAL PTO	\$14,818	2,000	500	\$4.86	\$1.79	\$0.40	\$4.49	φ4.07	\$44.39 \$11.54
Spraycab	\$12,000	3,000	500	\$2.85	\$1.75	\$0.40	\$0.25		\$4.76
Trailed Harvest Equipment	Ψ12,000	3,000	300	Ψ2.00	ψ1.55	ψ0.51	ψ0.25		ψ4.70
Bale Wagon, Pull	\$32,284	3,000	300	\$8.99	\$5.37	\$1.25	\$8.53		\$24.14
Baler, 1 Tn, 'BIG BALE'	\$90,000	3,000	500	\$21.93	\$10.01	\$2.28	\$21.67		\$55.90
Baler, 2 Wire Auto PTO	\$21,935	2,000	300	\$8.25	\$3.98	\$0.91	\$8.78		\$21.92
Baler, 3 wire w/motor	\$51,045	2,000	300	\$19.19	\$9.26	\$2.12	\$20.44	\$3.34	\$54.35
Forage Harvester PTO RC2	\$36,672	2,500	300	\$11.70	\$6.35	\$1.47	\$9.53		\$29.05
Forage Harvester PTO SB8.0	\$36,873	2,500	300	\$11.77	\$6.38	\$1.48	\$9.58		\$29.21
Forage Harvester PTO WP6.2	\$32,023	2,500	300	\$10.22	\$5.54	\$1.28	\$8.32		\$25.37
Forage Wagon PTO Unloader	\$30,000	2,000	400	\$10.44	\$4.33	\$0.98	\$6.82		\$22.57
Tree Shaker, PTO	\$7,635	2,500	400	\$2.26	\$1.05	\$0.24	\$2.41		\$5.96
Nut Harvester	\$14,835	2,500	400	\$4.39	\$2.05	\$0.47	\$4.63		\$11.53
Module Builder	\$28,339	3,000	400	\$7.33	\$3.76	\$0.87	\$7.49		\$19.45
Module Handler	\$62,000	3,000	200	\$18.81	\$14.26	\$3.38	\$16.38		\$52.84
Mower, 7'	\$3,903	2,000	300	\$1.47	\$0.71	\$0.16	\$2.92		\$5.25
Potato Harvester, 2 Rw	\$70,350	2,500	450	\$20.15	\$8.84	\$2.01	\$19.28		\$50.27
Potato Harvester, 4 Rw	\$92,000	2,500	450	\$26.35	\$11.55	\$2.63	\$25.22		\$65.75
Combine Pickup Regular Head	\$10,239	2,000	450	\$3.45	\$1.34	\$0.30	\$2.33		\$7.43
Bean Knife Rig - 3 Pt/8 Row	\$13,040	2,000	450	\$4.25	\$1.73	\$0.39	\$3.95		\$10.32
Bean Rod/Windrower 10 Row	\$6,589	2,000	450	\$2.15	\$0.88	\$0.20	\$2.00		\$5.22
Rake, 9.5' LH	\$13,619	2,500	300	\$4.35	\$2.36	\$0.55	\$3.34		\$10.59
Rake, 9.5' LH AND RH	\$17,600	2,500	300	\$5.62	\$3.05	\$0.71	\$4.32		\$13.68
Sweeper, 13' Tractor Mounted	\$22,475	250	200	\$46.69	\$8.52	\$1.67	\$4.91		\$61.78
Leveling Equipment									
Blade Scraper, 10'	\$4,560	2,500	130	\$1.72	\$1.55	\$0.37	\$0.96		\$4.60
Blade Scraper, 8'	\$3,145	2,500	130	\$1.19	\$1.07	\$0.26	\$0.66		\$3.17
•			130	\$1.19		\$0.42			\$5.17
Drag Scraper, 14'	\$5,127	2,500			\$1.75		\$1.08		
Landplane 14'X 60'	\$25,600	2,500	200	\$8.91	\$6.14	\$1.45	\$14.03		\$30.53
Laser Receiver, Complete Syste	\$24,500	20,000	1500	\$1.08	\$0.77	\$0.18	\$0.49		\$2.53
Plows									
Moldboard Plow, 3-16 2 Way	\$7,235	2,000	200	\$2.98	\$1.82	\$0.43	\$3.65		\$8.88
Moldboard Plow, 4-16 2 Way	\$7,470	2,000	200	\$3.07	\$1.88	\$0.44	\$3.77		\$9.17
Moldboard Plow, 5-16 2 Way	\$10,329	2,000	110	\$4.83	\$4.19	\$1.00	\$5.22		\$15.24
Switch Plow, 6-16	\$10,200	2,000	110	\$4.77	\$4.14	\$0.99	\$5.15		\$15.05
Subsoiler, Heavy Duty, 3 Shank	\$4,400	2,000	120	\$2.03	\$1.66	\$0.40	\$1.63		\$5.71
Subsoiler, Heavy Duty, 7 Shank	\$7,290	2,000	110	\$3.41	\$2.96	\$0.71	\$2.69		\$9.77
Ripper, 3 Shank	\$3,743	2,000	110	\$1.75	\$1.52	\$0.36	\$1.38		\$5.01
V-Ripper, 5 Sk	\$5,331	2,000	110	\$2.49	\$2.16	\$0.52	\$1.97		\$7.14
V-Ripper, 7 Sk	\$6,440	2,000	110	\$3.01	\$2.61	\$0.62	\$2.38		\$8.63
V-Ripper, 7 Sk with Wings	\$7,650	2,000	110	\$3.58	\$3.11	\$0.74	\$2.83		\$10.25
V-Ripper, 9 Sk	\$8,031	2,000	200	\$3.31	\$2.02	\$0.47	\$2.97		\$8.77
V-Ripper, 11 Sk	\$8,206	2,000	200	\$3.38	\$2.07	\$0.48	\$3.03		\$8.96
Disks	1	, , , , ,		,					
Border Disk, Dbl. Gang	\$5,600	2,000	200	\$2.30	\$1.41	\$0.33	\$1.64		\$5.68
Border Disk, 6 Disk	\$2,372	2,000	200	\$0.98	\$0.60	\$0.14	\$0.69		\$2.41
Border Disk, Heavy Duty	\$2,572	2,000	200	\$1.05	\$0.64	\$0.15	\$0.75		\$2.59
Dbl. Offset Disk, 11.5'	\$13,979	2,000	200	\$5.75	\$3.52	\$0.15	\$4.09		\$2.59 \$14.18
Dbl. Offset Disk, 11.5 Dbl. Offset Disk, 13'									1 -
	\$8,768	2,000	200	\$3.61	\$2.21	\$0.52	\$2.56		\$8.90
Dbl. Offset Disk, 16'	\$18,156	2,000	200	\$7.47	\$4.57	\$1.07	\$5.31		\$18.42
Dbl. Offset Disk, 21'	\$20,808	2,000	200	\$8.56	\$5.24	\$1.22	\$6.08		\$21.11
Offset Disk, 10.5'	\$8,851	2,000	200	\$3.64	\$2.23	\$0.52	\$2.59		\$8.98
Offset Disk, 12'	\$11,758	2,000	200	\$4.84	\$2.96	\$0.69	\$3.44		\$11.93
Offset Disk, 13.5'	\$13,604	2,000	200	\$5.60	\$3.43	\$0.80	\$3.98		\$13.80
Offset Disk, 16.5'	\$16,163	2,000	200	\$6.65	\$4.07	\$0.95	\$4.73		\$16.40
Offset Disk, 18'	\$19,224	2,000	200	\$7.91	\$4.84	\$1.13	\$5.62		\$19.51
Offset Disk, 21'	\$21,342	2,000	200	\$8.78	\$5.37	\$1.26	\$6.24		\$21.66
Offset Disk, 8'	\$6,787	2,000	200	\$2.79	\$1.71	\$0.40	\$1.98		\$6.89
Tandem Disk, 10'	\$7,800	2,000	200	\$3.21	\$1.96	\$0.46	\$2.28		\$7.91
Tandem Disk, 12'	\$8,600	2,000	200	\$3.54	\$2.17	\$0.51	\$2.51		\$8.73
Cultivators								·	l
Section Harrow, 3 Section	\$1,437	2,000	200	\$0.59	\$0.36	\$0.08	\$0.51		\$1.55
Section Harrow, 4 Section	\$1,699	2,000	200	\$0.70	\$0.43	\$0.10	\$0.61		\$1.83
Vegetable Cultivator, 4 Row	\$7,850	2,000	250	\$3.04	\$1.66	\$0.39	\$3.07		\$8.15
Rolling Cultivator, 4 Rw	\$4,823	2,000	250	\$1.87	\$1.02	\$0.24	\$1.88		\$5.01
Rolling Cultivator, 6 Rw	\$6,492	2,000	250	\$2.51	\$1.37	\$0.32	\$2.54		\$6.74
Rotary Hoe, 4 Rw	\$4,710	2,000	250	\$1.82	\$1.00	\$0.32	\$1.43		\$4.48
•									
Rotary Hoe, 6 Rw	\$5,587	2,000	250	\$2.16	\$1.18	\$0.27	\$1.70		\$5.31
Cultivator, Sweep, 4 Rw	\$4,721	2,000	250	\$1.83	\$1.00	\$0.23	\$1.68		\$4.74
	\$6,527	2,000	250	\$2.53	\$1.38	\$0.32	\$2.33		\$6.55
Cultivator, Sweep, 6 Rw		_	_	a	A	A			a - ·
Cultivator, 6 Row Spring Tooth Revovator, 16'	\$6,100 \$7,497	2,000 2,000	250 200	\$2.36 \$3.09	\$1.29 \$1.89	\$0.30 \$0.44	\$2.17 \$2.67		\$6.12 \$8.09

**Table B.2 Cost Data for Equipment and Implements** 

	New	Hrs to	Annual		Dolla	ar Cost r	per Hour of U	se	
Name	Price	Wearout	Hours	Deprec	Opp. Int.	THI		Fuel	Total
Miscellaneous Tillage									
Cultipacker, 13'	\$4,800	2,000	200	\$1.98	\$1.21	\$0.71	\$0.95		\$4.84
Pegasus, 4 Row	\$26,436	2,000	250	\$10.23	\$5.59	\$3.24	\$5.21		\$24.28
Pegasus, 6 Row	\$36,174	2,000	250	\$14.00	\$7.65	\$1.77	\$7.13		\$30.56
Furrow Spike, 4 Rw	\$5,200	2,000	250	\$2.01	\$1.10	\$0.26	\$1.85		\$5.22
Lister, 5 Bottom	\$5,597	2,000	200	\$2.30	\$1.41	\$0.33	\$2.83		\$6.87
Lister, 7 Bottom Mulch Layer, 1 Rw	\$6,628 \$1,225	2,000 2,500	200 200	\$2.73 \$0.43	\$1.67 \$0.29	\$0.39 \$0.07	\$3.35 \$1.10		\$8.14 \$1.89
Row Checker, 6 Row	\$1,967	2,500	200	\$0.68	\$0.47	\$0.11	\$0.49		\$1.76
Power Mulcher, 4 Rw	\$5,198	2,000	200	\$2.14	\$1.31	\$0.31	\$3.74		\$7.50
Power Mulcher, 6 Rw	\$8,538	2,000	200	\$3.51	\$2.15	\$0.50	\$6.15		\$12.31
Rowbuck, 10'	\$2,719	2,500	150	\$1.00	\$0.82	\$0.20	\$0.93		\$2.95
Rototiller, 6'	\$3,876	1,500	200	\$1.96	\$1.04	\$0.24	\$2.09		\$5.34
Disk-Lister, 2 Rw	\$9,850	2,000	200	\$4.05	\$2.48	\$0.58	\$2.88		\$9.99
Disk-Lister, 4 Rw	\$19,164	2,000	200	\$7.89	\$4.83	\$1.13	\$5.60		\$19.45
Disk-Lister, 6 Rw	\$27,026	2,000	200	\$11.12	\$6.81	\$1.59	\$7.90		\$27.42
Bed Roller, 4 Rw	\$9,367	2,000	110	\$4.38	\$3.80	\$0.91	\$1.85		\$10.93
Bed Roller, 6 Rw Root Cutter-Puller, 2 Rw	\$12,704 \$4,005	2,000 2,000	110 250	\$5.94 \$1.55	\$5.16 \$0.85	\$1.23 \$0.20	\$2.50 \$1.22		\$14.83 \$3.81
Root Cutter-Puller, 4 Rw	\$6,190	2,000	250	\$1.55	\$0.85 \$1.31	\$0.20	\$1.88		\$5.89
Root Cutter-Puller, 6 Row	\$8,734	2,000	250	\$3.38	\$1.85	\$0.43	\$2.65		\$8.31
	**,	_,		40.00	*	*****	¥=		40.0
Fertilizer Application									
Fert. Side Dress Unit, 4Rw	\$8,400	1,200	150	\$5.42	\$2.96	\$0.69	\$5.59		\$14.66
Fert. Side Dress Unit, 6Rw	\$9,300	1,200	150	\$6.00	\$3.28	\$0.76	\$6.19		\$16.23
Fertilizer Injector, 3 Rw	\$5,686	1,200	200	\$3.37	\$1.60	\$0.37	\$3.78		\$9.12
Fertilizer Injector, 4 Rw	\$7,108	1,200	200	\$4.22	\$2.00	\$0.46	\$4.73		\$11.40
Fertilizer Injector, 6 Rw	\$9,296	1,200	200	\$5.51	\$2.62	\$0.60	\$6.19		\$14.91
Planters									
	#20 000	1 500	200.00	£12.40	<b>CE 04</b>	<b>60.00</b>	£15.00		£27.64
Air Planter 8 Row Seeder, Broadcast	\$30,000 \$15,643	1,500 1,500	300.00	\$13.49 \$9.80	\$5.84 \$8.69	\$3.32 \$5.19	\$15.00 \$13.20		\$37.64 \$36.87
Grain Drill, 12'	\$9,180	1,500	140.00	\$5.13	\$3.25	\$1.91	\$4.59		\$14.88
Grain Drill, 12' W/Fert Box	\$10,614	1,500	140.00	\$5.93	\$3.76	\$2.20	\$5.31		\$17.20
Grain Drill, 14'	\$11,010	1,500	140.00	\$6.15	\$3.90	\$2.29	\$5.50		\$17.84
Flexi-Planter - 4 Units	\$3,610	1,500	150.00	\$1.98	\$1.21	\$0.71	\$1.80		\$5.71
Planter, Drill Type, 4 Rw	\$10,956	1,500	150.00	\$6.01	\$3.68	\$2.15	\$5.48		\$17.32
Planter, Drawn Drill Type 4 Rw	\$18,666	1,500	150.00	\$10.24	\$6.27	\$3.66	\$9.33		\$29.50
Planter, Drill Type, 6 Rw	\$15,643	1,500	150.00	\$8.58	\$5.25	\$3.07	\$7.82		\$24.73
Planter, Drawn Drill Type 6 Rw	\$16,481	1,500	150.00	\$9.04	\$5.53	\$3.23	\$8.24		\$26.05
Planter/Gramor, 4 Bd,6 Line/Be	\$11,958	1,500	150.00	\$6.56	\$4.02	\$2.35	\$5.98		\$18.90
Planter/Gramor, 4 Bd,8 Line/Be	\$13,891	1,500	120.00	\$8.05	\$5.56	\$3.27	\$6.94		\$23.83
Planter, Potato, 3 Comp, 4 Rw Planter, Potato 3 Comp. 6 Row	\$32,000 \$43,000	1,500 1,500	120.00 120.00	\$18.55 \$24.93	\$12.80 \$17.20	\$7.54 \$10.13	\$16.00 \$21.49		\$54.89 \$73.75
Planter, Planet Jr, 2R, 4 Unit	\$2,562	1,500	120.00	\$1.49	\$1.02	\$0.60	\$1.28		\$4.39
Planter, Planet Jr, 4 Rw	\$5,124	1,500	120.00	\$2.97	\$2.05	\$1.21	\$2.56		\$8.79
Planter, Flex 2 Line	\$886	1,500	120.00	\$0.51	\$0.35	\$0.21	\$0.44		\$1.52
Planter, Stanhay, 4 Rw	\$14,375	1,500	120.00	\$8.33	\$5.75	\$3.39	\$7.19		\$24.66
Transplanter, Veg, 2Rw	\$4,228	1,500	120.00	\$2.45	\$1.69	\$1.00	\$2.11		\$7.25
Transplanter, Veg, 4Rw	\$9,578	1,500	120.00	\$5.55	\$3.83	\$2.26	\$4.79		\$16.43
Miscellaneous									
Brush Rake	\$5,356	2,500	200	\$1.86	\$1.29	\$0.30	\$1.31		\$4.76
Cane Trimmer, 1 Head	\$1,775	2,000	200	\$0.73	\$0.45	\$0.10	\$0.66		\$1.94
Cane Trimmer, 2 Heads	\$3,013	2,000	200	\$1.24	\$0.76	\$0.18	\$1.11		\$3.29
Rotary Stalk Cutter, 2 Rw Rotary Stalk Cutter, 4 Rw	\$5,129 \$0,153	2,000	200 200	\$2.11 \$3.77	\$1.29 \$2.30	\$0.30 \$0.54	\$1.89 \$3.38		\$5.60 \$9.99
Row Crop Shredder, 4 Row	\$9,152 \$12,600	2,000 2,000	200	\$5.77 \$5.19	\$3.17	\$0.54	\$3.36 \$4.66		\$13.76
Rotary Mower, Offset 10.7'	\$8,007	2,000	200	\$3.19	\$2.02	\$0.74	\$7.05		\$13.70
3 Point Guidance Hitch	\$7,164	12,000	1200	\$0.42	\$0.33	\$0.08	\$0.09		\$0.91
Post Hole Digger, PTO Drive	\$6,445	2,500	200	\$2.24	\$1.55	\$0.36	\$5.80		\$9.95
French Plow	\$4,565	2,000	200	\$1.88	\$1.15	\$0.27	\$2.30		\$5.60
Berm Sweep	\$5,800	2,000	200	\$2.39	\$1.46	\$0.34	\$2.91		\$7.10
Water Wagon, 1000 Gal Tank	\$4,600	3,000	200	\$1.39	\$1.06	\$0.25	\$1.22		\$3.92
Mixer/Feeder Wagon w/Scales	\$42,274	3,000	1000	\$8.23	\$2.72	\$1.50	\$11.17		\$23.62
Border Blocker	\$5,200	3,000	500	\$1.23	\$0.59	\$0.13	\$1.16		\$3.11
Front End Loader	\$7,272	5,000	500	\$1.20	\$0.73	\$0.17	\$1.89		\$3.99
Flat Trailer	\$1,615	3,000	200	\$0.49	\$0.37	\$0.09	\$0.43		\$1.38
Vineyard Shredder, 7'	\$9,495	2,500	200	\$3.30	\$2.28	\$0.54 \$0.07	\$3.15		\$9.27
Bin Trailer Cattle Trailer, Gooseneck	\$1,275 \$3,012	3,000 3,000	200 500	\$0.38 \$0.71	\$0.29 \$0.34	\$0.07 \$0.08	\$0.34 \$0.80		\$1.09 \$1.93
Vineyard Tiller 8'	\$13,500	2,000	200	\$0.71 \$5.56	\$0.3 <del>4</del> \$3.40	\$0.06 \$0.79	\$0.60 \$4.99		\$1.93 \$14.74
Vineyard Tiller 6'	\$9,142	2,000	200	\$3.76	\$3.40	\$0.79	\$3.38		\$9.98
Orchard Trimmer Heavy Duty	\$147,300	3,000	300	\$41.00	\$24.52	\$5.72		3.86	\$174.43
1			300	\$24.78	\$14.82				
Orchard Trimmer Mid Range	\$89,030	3,000	300	φ <b>24</b> .70	ψ14.0Z	\$3.46	φ00.03 φ	3.86	\$106.95