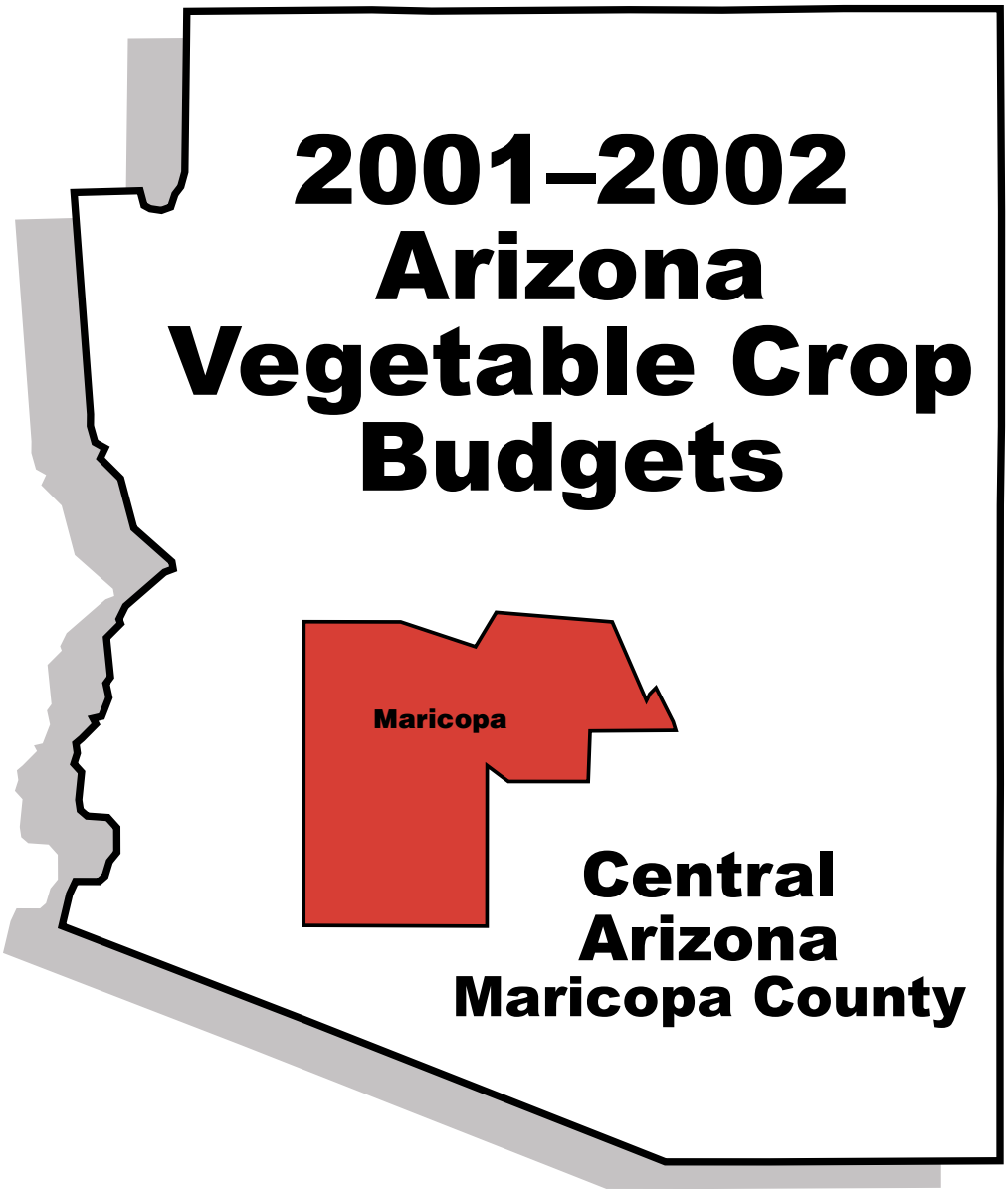
2001–2002 Arizona Vegetable Crop Budgets



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 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

1. 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).
3. 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.[1] 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.

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

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.

Returns over Cash Operating Expenses and 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 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 break-even 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 presented at the end of the table.

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 Headings for Table E

Column Heading	Description
No.	The sequence number of each operation is provided for the ordering of operations.
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 are identical (e.g., job rate or quantity of materials) then the operations will be combined into a single entry.
Operation	The operation name is identified. Some abbreviations are necessary to fit the limited space available in the table.
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 the actual material, refer to the alphabetical entries in Appendices A or B.
HP	The horsepower rating of the tractor used in this operation is identified. If no tractor is used, this entry is blank.
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 operation, 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.
Job Rate	Job Rate (Acres/Hr) is defined as the number of acres that can be completed per hour of *labor.* 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.
Material Use and Cost	Under this broad heading, all materials applied during a specific operation are identified using the following information.
Name	The name or names of any fertilizer, chemical, seed, water, or miscellaneous materials used in crop production are listed (one per line). In so far as possible, the names used are generic, non-trade names. This entry may be truncated. If questions about the actual material arise, refer to Appendices A and B.
Appl. Rate	Each material application rate is identified with the appropriate application unit.
$/Unit	This column specifies the cost of the material with the appropriate units at which the material is purchased.
Service Cost	The cost and purchase unit ($/unit) of any custom operation identified in the Self-Prop./Implem. column is noted here with the appropriate purchase unit.
Labor Type	The type of labor used in the operation is identified.

Table of Abbreviations

ai	Active ingredient	L	Liquid
Appl	Applications	Oper.	Operating
CST	Custom	Over.	Overhead
Defol.	Defoliant	Prop.	Propelled
Fld	Field	Rw	Row
G	Granules	Sk	Shank
Gnd	Ground	Spr	Spray
Gr	Graded	W/	With
Herb	Herbicides	X	Times
Insur	Insurance	#	Number
Irrig	Irrigation		

Units of Measure

AF	Acre-Foot	Gm	Gram
AI	Acre-Inch	HD	Head Days
Ac, AC	Acre	Hr, Hrs	Hours
Ba	Bale	Lb, Lbs	Pound
Bn	12 Bun	Lg	Lug
CW, CWT	100 Pounds	M	Meter
Cl, Cwl	100 Pounds Lint	MI, Mi	Miles
Cotton		Mu	Module
Ct, Ctn	Carton	Qt	Quart
DB	1 Dozen Bunches	Sk	Sack
Ea	Each	TF	Thousand Feet
Er	12 Ears of Corn	Th	Thousand
Fn	Feet/ton	Tn, T	Ton
Ft	Feet	Tp	Tarp
Ga, Gal	Gallon		

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

	Fall Head Lettuce		Leaf Lettuce		Sweet Corn		Cauliflower		Broccoli		Dry Onions		Green Onions		Spinach	
	Harvested Acres	Yield/Acre (Cartons)	Harvested Acres	Yield/Acre (Cartons)	Harvested Acres	Yield/Acre (Cartons)	Harvested Acres	Yield/Acre (Cartons)	Harvested Acres	Yield/Acre (Cartons)	Harvested Acres	Yield/Acre (Cartons)	Harvested Acres	Yield/Acre (Cartons)	Harvested Acres	Yield/Acre (Cartons)
Maricopa County Acreage and Yields																
1996	150	333	150	372	1,800	280	200	643	2,900	455	900	860	340	1,162	1,060	688
1997	200	313	150	520	1,640	409	200	643	3,200	450	1,000	712	240	1,142	1,650	547
1998	150	415	300	616	2,000	284	200	857	4,200	450	800	1,156	180	1,045	1,800	567
1999			200	540	2,400	296	300	890	4,400	805	800	1,020	120	1,017	2,900	445
2000					660	418	300	1,048	4,000	827	900	892	170	2,635	3,500	223
Average	100	212	160	410	1,700	337	240	816	3,740	597	880	928	210	1,400	2,182	494

Arizona Prices (Dollars per Carton)

	Fall Head Lettuce	Leaf Lettuce	Sweet Corn	Cauliflower	Broccoli	Dry Onions	Green Onions	Spinach
	Price per 40 pound carton	Price per 25 pound carton	Price per 50 pound carton	Price per 21 pound carton	Price per 22 pound carton	Price per 50 pound sack	Price per 18 pound sack	Price per 25 pound carton
1996	$5.76	$9.00	$4.40	$6.93	$5.65	$4.30	$7.20	$7.95
1997	$12.99	$7.93	$3.70	$6.97	$7.85	$6.30	$7.49	$10.11
1998	$7.88	$5.25	$10.32	$9.62	$7.88	$7.65	$17.07	$14.24
1999	$5.08	$6.65	$4.20	$7.83	$5.35	$2.77	$7.50	$7.70
2000	$6.40	$7.68	$4.30	$7.33	$5.87	$2.32	$7.00	$30.90
Average	$7.62	$7.30	$5.38	$7.74	$6.52	$4.67	$9.25	$14.18

	Carrots		Spring Honeydews		Fall Honeydews		Watermelons		Spring Cantaloupe (late)		Fall Cantaloupe		Potatoes		Cabbage	
	Harvested Acres	Yield/Acre (Cartons)	Harvested Acres	Yield/Acre (Cartons)	Harvested Acres	Yield/Acre (Cartons)	Harvested Acres	Yield/Acre (cwt)	Harvested Acres	Yield/Acre (Cartons)	Harvested Acres	Yield/Acre (Cartons)	Harvested Acres	Yield/Acre (cwt)	Harvested Acres	Yield/Acre (Cartons)
Maricopa County Acreage and Yields																
1996	2,250	1,088	1,000	593	700	567	3,550	254	5,900	389	6,000	204	3,600	295	2,400	599
1997	2,400	1,060	1,100	500	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	4,800	282	567	1,166
1999	2,500	1,000	1,700	767	1,000	697	3,600	471	8,200	360	2,000	299	7,500	320	445	750
2000	1,800	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	665	1,040	638	3,660	326	6,180	360	3,400	260	5,460	291	836	746

Arizona Prices (Dollars per Carton)

	Carrots	Spring Honeydews	Fall Honeydews	Watermelons	Spring Cantaloupe (late)	Fall Cantaloupe	Potatoes	Cabbage
	Price per 25 pound carton	Price per 30 pound carton	Price per 30 pound carton	Price per 100 pound container	Price per 75 pound carton	Price per 75 pound carton	Price per 100 pound sack	Price per 50 pound carton
1996	$3.18	$5.07	$5.43	$7.20	$15.60	$15.60	$10.20	$3.09
1997	$3.33	$5.25	$6.00	$7.80	$14.40	$14.40	$8.75	$3.46
1998	$3.13	$4.80	$4.11	$8.00	$10.43	$10.43	$11.30	$2.28
1999	$3.80	$4.98	$7.14	$5.60	$10.35	$10.35	$9.05	$3.31
2000	$2.03	$4.77	$6.51	$6.80	$14.70	$14.70	$10.60	$6.05
Average	$3.09	$4.97	$5.84	$7.08	$13.10	$13.10	$9.98	$3.64

Table 2. Representative Farm Description for Budget Estimation

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

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

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

Item	-- CASH COST BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		$5.52		$5.52
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		$0.80		$1.40
BREAK-EVEN PRICE TO COVER TOTAL COST		$6.31		$6.92

Table 3C. Variable Operating 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

No.	First Month	Operation	---- Hours * ---- Machine	Labor	---- Operating Costs ($/ACRE *) Per Operation ---- Fuel/Rps.	Labor	Cust/Serv.	Materials	Total	Times	Tot. Cash 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	H
20	Nov	Field Transport 597 Ct	1.800	2.000	17.01	19.50			36.50	1.0	36.50	H
21	Nov	Haul, Custom 597 Ct					119.40		119.40	1.0	119.40	H
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 EXPENSES (includes all times over):									3292.92	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

Land Preparation (L)	325.75
Growing (G)	774.94
Harvest (H)	2,176.48
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	25.37
Total (T)	$3,292.92

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		$4.89	$5.87	$6.52	$7.17	$8.15	Break-even Price
- 25%	447.8	-708.81	-270.91	21.02	312.95	750.85	6.47
- 10%	537.3	-597.39	-71.91	278.41	628.73	1,154.21	6.00
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
Break-even Yield		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

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs ($/ACRE *) Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total
JUL C			1.38		17.55	13.40				30.95
AUG C			0.92		9.10	8.94	66.32			84.36
SEP C	3.0	18.0	6.80		121.00	66.30	122.93	256.85	78.00	645.08
OCT C	3.0	18.0	5.57		122.78	54.35	14.98		75.00	267.11
NOV C	1.0	6.0	3.50		56.25	34.12	9.70	378.83	1761.15	2240.05
Pickup Use 60 Mi/Acre					15.25					15.25
Operating Interest at 10.0									10.12	10.12
Total	7.0	42.0	18.17		341.93	177.11	213.93	635.68	1924.27	3303.90
%					10.38	5.38	6.50	19.30	58.44	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N	151.2
Total P	157.5
Total K	22.5
Total Labor	18.2
Total Water	42.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel	47.5	Gal
Unleaded Gas	6.0	Gal
Electric / Pumping	2488.9	KWH
All Direct Energy	15.8	M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.60	Hr	Cultivator, Sweep, 3 Rw	2.81	Hr	Directed Spray Rig, 8	0.45 Hr
Directed Spray Rig, 16	0.15	Hr	Drag Scraper, 14'	0.22	Hr	Fertilizer Broadcaster,	0.38 Hr
Fertilizer Injector, 4 Row	0.90	Hr	Laser, Complete System	0.22	Hr	Lister, 5 Bottom	0.22 Hr
Moldboard Plow, 4-16 2	0.45	Hr	Offset Disk, 10.5'	0.23	Hr	Offset Disk, 16.5'	0.90 Hr
Pickup Truck, 1/2 Ton	2.00	Hr	Planter, Stanhay, 2 Row	0.60	Hr	Rowbuck, 10'	0.23 Hr
Tractor, 60 PTO HP	0.15	Hr	Tractor, 70 PTO HP	1.80	Hr	Tractor, 80 PTO HP	3.86 Hr
Tractor, 100 PTO HP	1.05	Hr	Tractor, 125 PTO HP,	0.90	Hr	Tractor, 150 PTO HP,	1.69 Hr
V-Ripper, 5 Shnk	0.11	Hr	Vegetable Trailer Flat Bed	1.80	Hr		

MATERIALS REQUIREMENT (per Acre)

10-35-05, Dry	450.00	Lb	32-00-00, URAN 32, Lqd	30.00	Ga	Broccoli Boxes	448.00 Ct
Broccoli Seed (Hybrid)	90.00	Th	Imidacloprid	16.00	Oz	Methomyl	1.50 Pt
Spinosad	6.00	Oz	Trifluralin	1.00	Pt	Water, Pump	42.00 Al

LABOR REQUIREMENT (per Acre)

Irrigators	7.00	Hr	Other	0.67	Hr	Tractor	10.50 Hr

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

Table 3E. Schedule of Operations; 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

First No.	Month	Times	Operation	Equipment/ Custom Oper HP	Self-Prop./ Implement	Job Rate	Material Use and Cost Name	Appl. Rate		$ / Unit		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'	2.00								Tractor
					Laser, Complete System									
	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	1.50	Broccoli Seed (Hybrid)	90.00	Th	2.70	Th			Tractor
					Bed Shaper, 4 Rw									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			1.00	Water, Pump	6.00	Al	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								

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

Table 3F. Operations Calendar; Broccoli, 2001

COUNTY:	Maricopa	FARM:	Maricopa Veg	WATER SOURCE:	Scottsdale, Elec.	TILLAGE:	Double Crop
CROP:	Broccoli	ACRES:	1.0	IRRIGATION SYSTEM:	Flood Furrow	SOIL	Sandy-Loam
AREA:	Scottsdale	YIELD:	597 Ct/Acre	PREVIOUS CROP:	Wheat, Winter	DATE:	09/17/2001

		----------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	Plow							1.0 C					
3	Disk							2.0 C	1.0 C				
4	Laser Level							0.5 C					
5	Apply Herbicide/Ground								1.0 C				
6	Apply Fert/Ground								1.0 C				
7	List								1.0 C				
8	Plant									1.0 C			
9	Apply Insect/Ground									1.0 C			
10	Buck Rows									3.0 C	2.0 C		
11	Irrigate									3.0 C	3.0 C	1.0 C	
12	Disk Ends									3.0 C	2.0 C		
13	Cultivate									2.0 C	3.0 C		
14	Soil Fertility									1.0 C			
15	Apply Fert/Inject									1.0 C	1.0 C		
16	Apply Insect/Ground									1.0 C			
17	Hand Weeding									1.0 C	1.0C		
18	Apply Insect/Ground											1.0 C	
19	Harvest											1.0 C	
20	Field Transport											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 4A. Income and Cash Operating Summary; 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	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 GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					131.48	_____
Tractor/Self Propelled				44.49		_____
Irrigation				68.46		_____
Other/ Contract				18.52		_____
Chemicals and Custom Applications					233.37	_____
Fertilizer				69.67		_____
Herbicide				66.28		_____
Other Chemicals				97.41		_____
Farm Machinery and Vehicles					49.65	_____
Diesel Fuel				20.99		_____
Repairs and Maintenance				28.65		_____
Irrigation Water (excluding labor)					45.75	
Water Assessment (See Note Below) **						
Other Purchased Inputs &					49.51	_____
Seed/Transplants				46.51		_____
Other Services and Rentals				3.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					509.75	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					0.24	_____
Tractor/Self Propelled				0.24		_____
Farm Machinery and Vehicles					0.21	_____
Diesel Fuel				0.08		_____
Repairs and Maintenance				0.12		_____
Custom Harvest/Post Harvest					1234.28	_____
Other Materials					1050.34	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					2285.07	_____
OPERATING OVERHEAD -> PICKUP USE					12.71	_____
OPERATING INTEREST AT 10.0%					20.31	_____
TOTAL CASH OPERATING EXPENSES					$2,827.83	_____
RETURNS OVER CASH OPERATING EXPENSES					$404.31	_____

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

Item	-- CASH COST BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		$2.70		$2.70
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		$0.42		$0.68
BREAK-EVEN PRICE TO COVER TOTAL COST		$3.13		$3.38

Table 4C. Variable Operating 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

No.	First Month	Operation	---- Hours * ---- Machine	Labor	---- Operating Costs ($/ACRE *) Per Operation ---- Fuel/Rps.	Labor	Cust/Serv.	Materials	Total	Times	Tot. Cash 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	H
19	Nov	Harvest 1046 Ct					1046.00	1050.34	2096.34	1.0	2096.34	H
20	Nov	Haul, Custom 1046 Ct					188.28		188.28	1.0	188.28	H
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 EXPENSES (includes all times over):									2827.83	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

Land Preparation (L)	201.19
Growing (G)	308.56
Harvest (H)	2,285.07
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	33.02
Total (T)	$2,827.83

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	Break-even Price
Yields		$2.32	$2.78	$3.09	$3.40	$3.86	
- 25%	784.5	-407.94	-44.33	198.08	440.49	804.11	2.84
- 10%	941.4	-387.09	49.25	340.14	631.03	1,067.37	2.73
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
Break-even Yield		3,853.60	858.83	565.73	421.78	305.27	

Table 4D. Resource and Cash Flow Requirements; 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

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs ($/ACRE *) Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total
JUL C			1.50		19.67	14.62				34.29
AUG C	5.0	27.0	5.45	2.50	13.22	53.11	203.41	46.51	3.00	321.75
SEP C	2.0	12.0	2.05	10.00	10.89	19.98				40.87
OCT C	2.0	12.0	2.44	10.00	7.61	23.75	14.98			56.33
NOV C	2.0	12.0	1.91	15.75	3.67	18.63	14.98	1050.34	1234.28	2337.65
DEC C			0.17		2.28	1.63				3.91
Pickup Use 50 Mi/Acre					12.71					12.71
Operating Interest at 10.0									20.31	20.31
Water Assessment				**						
Total	11.0	63.0	13.51	38.25	70.05	131.72	233.37	1096.85	1257.59	2820.99
%				1.35	2.48	4.66	8.25	38.79	44.47	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N	154.2
Total P	60.0
Total Labor	13.5
Total Water	63.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel	24.8	Gal
Unleaded Gas	5.0	Gal
All Direct Energy	4.1	M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.45	Hr	Cultivator, Sweep, 4 Rw	0.90	Hr	Drag Scraper, 14'	0.22	Hr
Fertilizer Broadcaster,	0.11	Hr	Fertilizer Injector, 4 Row	0.74	Hr	Laser, Complete System	0.22	Hr
Lister, 5 Bottom	0.22	Hr	Moldboard Plow, 4-16 2	0.45	Hr	Offset Disk, 10.5'	0.16	Hr
Offset Disk, 16.5'	0.60	Hr	Pickup Truck, 1/2 Ton	1.67	Hr	Rowbuck, 10'	0.18	Hr
Saddle Tk Sprayer, 2 Tk 8	0.09	Hr	Sprinkler Trailer	0.32	Hr	Subsoiler, Heavy Duty, 7	0.22	Hr
Tractor, 60 PTO HP	0.32	Hr	Tractor, 80 PTO HP	1.78	Hr	Tractor, 100 PTO HP	0.85	Hr
Tractor, 150 PTO HP,	1.27	Hr	Tractor, 175 PTO HP,	0.22	Hr			

MATERIALS REQUIREMENT (per Acre)

16-20-00, Dry	300.00	Lb	32-00-00, URAN 32, Lqd	30.00	Ga	Boxes & Supplies	1046.00	Ct
Carrot Seed (Raw/Hybrid)	200.00	Th	Dichloropropene	9.00	Ga	Linuron	1.00	Ga
Water, District	63.00	Al						

LABOR REQUIREMENT (per Acre)

Irrigators	7.02	Hr	Other	1.90	Hr	Tractor	4.59	Hr

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

** 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	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

First No.	Month	Times	Operation	Equipment/ Custom Oper HP	Self-Prop./ Implement	Job Rate Acre/Hr	Material Use and Cost Name	Appl. Rate		$ / 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'	2.00								Tractor
					Laser, Complete System									
	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	Lb	250.50	Tn			Tractor
	Aug	1.0	List/Inject	100	Lister, 5 Bottom	4.00	Dichloropropene	9.00	Ga	10.24	Ga			Tractor
					Fertilizer Injector, 4 Row									
	Aug	1.0	Plant	80	Bed Shaper, 4 Rw	2.00	Carrot Seed	200.00	Th	0.22	Th			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	AF			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	62.71	Ga			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	AF			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	170.80	Tn			Tractor
	Nov	1.0	Prepare Ends	80	Offset Disk, 10.5'	40.00								Tractor
	Nov	1.0	Harvest		CST Harvest Carrots		Boxes & Supplies	1046.00	Ct	0.95	Ct	1.00	Ct	
	Nov	1.0	Haul, Custom		CST Harv/pack/haul Carrots							0.18	Ct	
	Dec	1.0	Disk Residue	150	Offset Disk, 16.5'	6.00								Tractor
			Pickup use 50 Mi/Ac		Pickup Truck, 1/2 Ton	0.60								

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

Table 4F. Operations Calendar; Carrots, 2001

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

		----------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	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

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

Table 5A. Income and Cash Operating Summary; 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	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 GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					189.02	_____
Tractor/Self Propelled				52.54		_____
Irrigation				77.99		_____
Other/ Contract				58.49		_____
Chemicals and Custom Applications					416.80	_____
Fertilizer				123.71		_____
Insecticide				289.80		_____
Herbicide				3.30		_____
Farm Machinery and Vehicles					45.52	_____
Diesel Fuel				17.75		_____
Repairs and Maintenance				27.77		_____
Irrigation Water (excluding labor)					66.67	
Water Assessment (See Note Below) **						
Other Purchased Inputs &					387.17	_____
Seed/Transplants				309.17		_____
Other Services and Rentals				78.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					1105.19	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					2856.00	_____
Other Materials					470.12	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					3326.12	_____
OPERATING OVERHEAD -> PICKUP USE					10.17	_____
OPERATING INTEREST AT 10.0%					14.64	_____
TOTAL CASH OPERATING EXPENSES					$4,456.12	_____
RETURNS OVER CASH OPERATING EXPENSES					$1,859.72	_____

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

Item	-- CASH COST BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		$5.46		$5.46
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		$0.70		$1.19
BREAK-EVEN PRICE TO COVER TOTAL COST		$6.16		$6.65

Table 5C. Variable Operating 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

No.	First Month	Operation	---- Hours * ---- Machine	Labor	---- Operating Costs ($/ACRE *) Per Operation ---- Fuel/Rps.	Labor	Cust/Serv.	Materials	Total	Times	Tot. Cash 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	H
19	Nov	Haul, Custom 816 Ct					204.00		204.00	1.0	204.00	H
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 EXPENSES (includes all times over):									4456.12	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 $7.50 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS

Land Preparation (L)	372.41
Growing (G)	732.78
Harvest (H)	3,326.12
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	24.81
Total (T)	$4,465.12

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		$5.80	$6.97	$7.74	$8.51	$9.67	Break-even Price
- 25%	612.0	-8.54	701.99	1,175.68	1,649.36	2,359.90	5.82
- 10%	734.4	203.07	1,055.71	1,624.13	2,192.56	3,045.20	5.53
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
+ 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

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

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs ($/ACRE *) Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total
AUG C			1.77		19.46	17.22	138.83		3.00	178.51
SEP C	4.0	16.0	11.64	26.67	17.70	113.48	138.99	309.17	75.00	681.01
OCT C	3.0	12.0	3.47	20.00	6.90	33.79	108.78			169.47
NOV C	2.0	8.0	1.62	13.33	0.09	15.76	30.21	470.12	2856.00	3385.51
DEC C	1.0	4.0	0.80	6.67		7.80				14.47
JAN N			0.10		1.37	0.97				2.34
Pickup Use 40 Mi/Acre					10.17					10.17
Operating Interest at 10.0									14.64	14.64
Water Assessment				**						
Total	10.0	40.0	19.39	66.67	55.69	189.02	416.81	779.29	2948.64	4456.12
%				1.50	1.25	4.24	9.35	17.49	66.17	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N	196.5
Total P	208.0
Total Labor	19.4
Total Water	40.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel	20.9	Gal
Unleaded Gas	4.0	Gal
All Direct Energy	3.4	M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.22	Hr	Cultivator, Sweep, 4 Rw	0.90	Hr	Directed Spray Rig, 8	0.22	Hr
Drag Scraper, 14'	0.22	Hr	Fertilizer Injector, 4 Row	0.60	Hr	Fertilizer Spreader, 28'	0.01	Hr
High Clearance Sprayer,	0.03	Hr	Laser, Complete System	0.22	Hr	Lister, 5 Bottom	0.22	Hr
Moldboard Plow, 5-16 2	0.18	Hr	Offset Disk, 16.5'	0.36	Hr	Pickup Truck, 1/2 Ton	1.33	Hr
Power Mulcher, 6 Rw	0.22	Hr	Rowbuck, 10'	0.02	Hr	Saddle Tk Sprayer, 2 Tk 8	0.72	Hr
Tractor, 50 PTO HP,	0.97	Hr	Tractor, 60 PTO HP	0.01	Hr	Tractor, 70 PTO HP,	1.80	Hr
Tractor, 80 PTO HP,	0.60	Hr	Tractor, 100 PTO HP,	0.22	Hr	Tractor, 125 PTO HP,	0.22	Hr
Tractor, 150 PTO HP,	0.99	Hr	Transplanter, Veg, 4Row	0.90	Hr	V-Ripper, 5 Shnk	0.22	Hr

MATERIALS REQUIREMENT (per Acre)

11-52-00, Dry	400.00	Lb	33-00-00, Amm. Nitrate,	44.00	Ga	Boxes for Cauliflower	563.00	Ct
Cauliflower Trans	9.00	Th	Cypermethrin	20.00	Oz	Imidacloprid	16.00	Oz
Methomyl	16.00	Pt	Spinosad	12.00	Oz	Trifluralin	1.00	Pt
Water, District	40.00	Al						

LABOR REQUIREMENT (per Acre)

Irrigators	8.00	Hr	Other	6.00	Hr	Tractor	5.39	Hr

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

** 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	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

First No.	Month	Times	Operation	Equipment/ Custom Oper HP	Self-Prop./ Implement	Job Rate Acre/Hr	Material Use and Cost Name	Appl. Rate		$ / Unit		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'	2.00								Tractor
					Laser, Complete System									
	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
							Imidacloprid	16.00	Oz	588.40	Ga			
	Aug	1.0	Mulch	125	Power Mulcher, 6 Rw	4.00								Tractor
					Bed Shaper, 4 Rw									
	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	Al	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	3.00	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
							Methomyl	4.00	Pt	48.94	Ga			
	Sep	2.0	Apply Insect./Ground		High Clearance Sprayer, 18	60.00	Spinosad	6.00	Oz	609.67	Ga			Tractor
	Nov	1.0	Harvest		CST Harv/pack/haul		Boxes for Cauliflower	563.00	Ct	0.79	Ct	3.25	Ct	
	Nov	1.0	Haul, Custom		CST Haul Produce							0.25	Ct	
	Jan	1.0	Disk Residue	150	Offset Disk, 16.5'	10.00								Tractor
			Pickup use 40 Mi/Ac		Pickup Truck, 1/2 Ton	0.75								

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

Table 5F. Operations Calendar; Cauliflower (Transplant), 2001

COUNTY:	Maricopa	FARM:	Maricopa Veg	WATER SOURCE:	Roosevelt ID	TILLAGE:	Double Crop
CROP:	Cauliflower	ACRES:	1.0	IRRIGATION SYSTEM:	Flood Furrow	SOIL	Sandy-Loam
AREA:	Roosevelt ID	YIELD:	816 Ct/Acre	PREVIOUS CROP:	Pimento	DATE:	09/17/2001

		----------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	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

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

Table 6A. Income and Cash Operating Summary; 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	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 GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					115.19	_____
Tractor/Self Propelled				46.95		_____
Irrigation				58.49		_____
Other/ Contract				9.75		_____
Chemicals and Custom Applications					209.76	_____
Fertilizer				108.10		_____
Insecticide				8.20		_____
Herbicide				93.45		_____
Farm Machinery and Vehicles					48.33	_____
Diesel Fuel				18.94		_____
Repairs and Maintenance				29.39		_____
Irrigation Water (excluding labor)					17.50	
Water Assessment (See Note Below) **						
Other Purchased Inputs &					943.73	_____
Seed/Transplants				940.73		_____
Other Services and Rentals				3.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					1334.50	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					0.49	_____
Tractor/Self Propelled				0.49		_____
Farm Machinery and Vehicles					0.48	_____
Diesel Fuel				0.19		_____
Repairs and Maintenance				0.29		_____
Custom Harvest/Post Harvest					3064.64	_____
Other Materials					878.52	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					3944.13	_____
OPERATING OVERHEAD -> PICKUP USE					15.25	_____
OPERATING INTEREST AT 10.0%					66.22	_____
TOTAL CASH OPERATING EXPENSES					$5,360.10	_____
RETURNS OVER CASH OPERATING EXPENSES					($1,026.34)	_____

Notes: The above figures do not include ownership costs, see table B for detailed cost allocation.
** 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 BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
TOTAL INCOME at $4.67 / Sk	$4,333.76		$4,333.76	
TOTAL OPERATING EXPENSES	$5,360.10		$5,360.10	
RETURN OVER CASH OPERATING EXPENSES		($1,026.34)		($1,026.34)
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	6.05		6.05	
General and Office Overhead (5.0% of Total Operating Exp.)	268.01		268.01	
General Farm Maintenance (3.0% of Total Operating Exp.)	160.80		160.80	
Total Cash Overhead Expenses	434.86		434.86	
Total Cash Operating and Overhead Cost	5,794.96		5,794.96	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		($1,461.20)		($1,461.20)
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			32.61	
Interest on Equity, Machinery and Vehicles			17.79	
Total Capital Allocations			50.40	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ---------->		($1,461.20)		
RETURNS TO LAND, MANAGEMENT AND RISK ---------->				($1,511.60)
Land Cost / Rent or Lease	200.00		200.00	
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)				
Water Assessment **	20.27		20.27	
Total Land Costs	220.27		220.27	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ---------->		($1,681.47)		
RETURNS TO MANAGEMENT AND RISK ---------->				($1,731.87)
Management Services (8% of Total Operation Expenses)			428.81	
TOTAL OWNERSHIP COST	655.13		1,134.33	
TOTAL COST	$6,015.23		$6,494.44	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ---------->		($1,681.47)		
RETURNS TO RISK (PROFITS) ---------->				($2,160.68)

Item	-- CASH COST BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		$5.78		$5.78
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		$0.71		$1.22
BREAK-EVEN PRICE TO COVER TOTAL COST		$6.48		$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:	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

No.	First Month	Operation	---- Hours * ---- Machine	Labor	---- Operating Costs ($/ACRE *) Per Operation ---- Fuel/Rps.	Labor	Cust/Serv.	Materials	Total	Times	Tot. Cash 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	H
18	May	Dig					11.52		11.52	1.0	11.52	H
19	May	Harvest 928 Sk					2013.76	505.77	2519.53	1.0	2519.53	H
20	May	Field Grade 928 Sk					928.00	372.74	1300.74	1.0	1300.74	H
21	May	Haul, Custom 928 Sk					111.36		111.36	1.0	111.36	H
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 EXPENSES (includes all times over):									5360.10	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

Land Preparation (L)	1,011.50
Growing (G)	323.00
Harvest (H)	3,944.13
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	81.47
Total (T)	$5,360.1

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		$3.50	$4.20	$4.67	$5.14	$5.84	Break-even Price
- 25%	696.0	-1,870.11	-1,382.56	-1,057.53	-732.50	-244.95	6.19
- 10%	835.2	-1,974.18	-1,389.12	-999.09	-609.05	-23.99	5.87
Budgeted	928.0	-2,043.56	-1,393.50	-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
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

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

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs ($/ACRE *) Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total
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		1068.88
NOV P	3.0	9.0	1.50	7.50	1.34	14.62	28.13			51.60
DEC P	2.0	6.0	0.80	5.00		7.80				12.80
JAN C	2.0	6.0	1.05		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				4.87
MAY C								878.52	3064.64	3943.16
JUN C			0.17		2.28	1.63				3.91
Pickup Use 60 Mi/Acre					15.25					15.25
Operating Interest at 10.0									66.22	66.22
Water Assessment				**						
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 RESOURCE REQUIREMENTS (per Acre)

Total N	252.4
Total P	212.0
Total Labor	11.9
Total Water	45.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel	22.5	Gal
Unleaded Gas	6.0	Gal
All Direct Energy	3.9	M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.90	Hr	Cultivator, Sweep, 4 Rw	0.45	Hr	Directed Spray Rig, 8	0.45	Hr
Drag Scraper, 14'	0.22	Hr	Fertilizer Broadcaster,	0.18	Hr	Fertilizer Injector, 4 Row	0.60	Hr
Laser, Complete System	0.22	Hr	Lister, 5 Bottom	0.22	Hr	Moldboard Plow, 4-16 2	0.45	Hr
Offset Disk, 10.5'	0.09	Hr	Offset Disk, 13.5'	0.05	Hr	Offset Disk, 16.5'	0.45	Hr
Pickup Truck, 1/2 Ton	2.00	Hr	Planter/Gramor, 4 Bd,8	0.90	Hr	Rowbuck, 10'	0.09	Hr
Tractor, 50 PTO HP,	0.63	Hr	Tractor, 70 PTO HP,	0.63	Hr	Tractor, 100 PTO HP,	1.77	Hr
Tractor, 150 PTO HP,	1.35	Hr	V-Ripper, 5 Shnk	0.22	Hr			

MATERIALS REQUIREMENT (per Acre)

10-53-00, Dry	400.00	Lb	32-00-00, URAN 32, Lqd	60.00	Ga	Bensulide	5.00	Pt
Burlap Sacks	957.00	Sk	DCPA	10.00	Lb	Methyl Parathion	1.00	Pt
Onion Bags 50# Mesh	928.00	Sk	Onion Seed (Pelletized)	1000.00	Th	Water, District	45.00	Al

LABOR REQUIREMENT (per Acre)

Irrigators	6.00	Hr	Other	1.00	Hr	Tractor	4.87	Hr

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

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

Table 6E. Schedule of Operations; 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

First No.	Month	Times	Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Material Use and Cost Name	Appl. Rate		$ / Unit		Service Cost $ / Unit		Labor Type
	Sep	0.5	Rip	150 V-Ripper, 5 Shnk	2.00								Tractor
	Sep	1.0	Plow	150 Moldboard Plow, 4-16 2	2.00								Tractor
	Sep	2.0	Disk	150 Offset Disk, 16.5'	6.00								Tractor
	Sep	0.5	Laser Level	150 Drag Scraper, 14'	2.00								Tractor
				Laser, Complete System									
	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			Tractor
	Oct	1.0	List	100 Lister, 5 Bottom	4.00								Tractor
	Oct	1.0	Plant	100 Planter/Gramor, 4 Bd,8	1.00	Onion Seed (Pelletized)	1000.00	Th	0.89	Th			Tractor
				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			Tractor
	Oct	2.0	Buck Rows	50 Rowbuck, 10'	20.00								Tractor
	Oct	15.0	Irrigate		2.50	Water, District	3.00	Al	4.67	AF			Irrigators
	Oct	2.0	Disk Ends	50 Offset Disk, 10.5'	20.00								Tractor
	Oct	2.0	Cultivate	70 Cultivator, Sweep, 4 Rw	4.00								Tractor
	Nov	1.0	Apply Herbicide/Ground	50 Directed Spray Rig, 8 Row	4.00	Bensulide	5.00	Pt	42.58	Ga			Tractor
	Feb	2.0	Apply Fert/Ground	100 Fertilizer Injector, 4 Row	3.00	32-00-00, URAN 32,	30.00	Ga	170.80	Tn			Tractor
	Mar	1.0	Apply Insecticide/Air	CST Air Spray, 3 Gal Mix		Methyl Parathion	1.00	Pt	30.00	Ga	4.24	Ac	
	Apr	1.0	Prepare Ends	100 Offset Disk, 13.5'	20.00								Tractor
	May	1.0	Dig	CST Digging							11.52	Ac	
	May	1.0	Harvest	CST Cut/Top/Field Sack Dry		Burlap Sacks	957.00	Sk	0.50	Sk	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								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 6F. Operations Calendar; Dry Onions, 2001

COUNTY:	Maricopa	FARM:	Maricopa Veg	WATER SOURCE:	SRP	TILLAGE:	Conventional
CROP:	Onions, Dry	ACRES:	1.0	IRRIGATION SYSTEM:	Flood Furrow	SOIL:	Sandy-Loam
AREA:	Salt River Project	YIELD:	928 Sk/Acre	PREVIOUS CROP:	Cantaloupe	DATE:	09/17/2001

		Month and Times Operation Performed											
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

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	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 GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					153.63	_____
Tractor/Self Propelled				66.78		_____
Irrigation				54.99		_____
Other/ Contract				31.86		_____
Chemicals and Custom Applications					149.94	_____
Fertilizer				101.26		_____
Insecticide				11.36		_____
Herbicide				4.94		_____
Other Chemicals				32.37		_____
Farm Machinery and Vehicles					72.64	_____
Diesel Fuel				24.18		_____
Gasoline				3.51		_____
Repairs and Maintenance				44.95		_____
Irrigation Water (excluding labor)					516.51	_____
Pump Energy - Electric				480.48		_____
Repairs and Maintenance				36.03		_____
Water Assessment (See Note Below) **						
Other Purchased Inputs &					697.62	_____
Seed/Transplants				697.62		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					1590.33	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					59.47	_____
Tractor/Self Propelled				30.22		_____
Other/Contract				29.25		_____
Farm Machinery and Vehicles					46.33	_____
Diesel Fuel				10.50		_____
Repairs and Maintenance				35.83		_____
TOTAL HARVEST AND POST HARVEST EXPENSE					105.80	_____
OPERATING OVERHEAD -> PICKUP USE					15.25	_____
OPERATING INTEREST AT 10.0%32.17					_____	
TOTAL CASH OPERATING EXPENSES					$1,743.54	_____
RETURNS OVER CASH OPERATING EXPENSES					$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 BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
TOTAL INCOME at $9.98 / CW	$2,904.18		$2,904.18	
TOTAL OPERATING EXPENSES	$1,743.54		$1,743.54	
RETURN OVER CASH OPERATING EXPENSES		$1,160.64		$1,160.64
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	13.98		13.98	
Wells and Irrigation System	13.29		13.29	
General and Office Overhead (5.0% of Total Operating Exp.)	87.18		87.18	
General Farm Maintenance (3.0% of Total Operating Exp.)	52.31		52.31	
Total Cash Overhead Expenses	166.75		166.75	
Total Cash Operating and Overhead Cost	1,910.29		1,910.29	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		$993.89		$993.89
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			84.17	
Wells and Irrigation System			48.91	
Interest on Equity, Machinery and Vehicles			36.10	
Wells and Irrigation System			29.75	
Total Capital Allocations			198.93	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ---------->		$993.89		
RETURNS TO LAND, MANAGEMENT AND RISK ---------->				$794.96
Land Cost / Rent or Lease	200.00		200.00	
Total Land Costs	200.00		200.00	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ---------->		$793.89		
RETURNS TO MANAGEMENT AND RISK ---------->				$594.96
Management Services (8% of Total Operation Expenses)			139.48	
TOTAL OWNERSHIP COST	366.75		705.16	
TOTAL COST	$2,110.29		$2,448.71	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ---------->		$793.89		
RETURNS TO RISK (PROFITS) ---------->				$455.47

Item	-- CASH COST BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		$5.99		$5.99
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		$1.26		$2.42
BREAK-EVEN PRICE TO COVER TOTAL COST		$7.25		$8.41

Table 7C. Variable Operating 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

No.	First Month	Operation	---- Hours * ---- Machine	Labor	---- Operating Costs ($/ACRE *) Per Operation ---- Fuel/Rps.	Labor	Cust/Serv.	Materials	Total	Times	Tot. Cash Expenses	Class
1	Nov	Rip	0.225	0.250	2.86	2.44			5.29	0.5	2.65	L
2	Nov	Plow	0.450	0.500	6.50	4.87			11.37	1.0	11.37	L
3	Nov	Disk	0.225	0.250	3.43	2.44			5.86	3.0	17.59	L
4	Nov	List	0.225	0.250	2.02	2.44			4.46	1.0	4.46	L
5	Nov	Buck Rows	0.045	0.050	0.23	0.49			0.72	3.0	2.15	G
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	L
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	H
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	H
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	H
22	Apr	Haul 10	1.800	4.000	14.06	38.99			53.05	1.0	53.05	H
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 EXPENSES (includes all times over):									1743.54	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

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%	Budgeted	+ 10%	+ 25%	
Yields		$7.48	$8.98	$9.98	$10.98	$12.47	Break-even Price
- 25%	218.3	-43.21	283.51	501.32	719.13	1,045.85	7.68
- 10%	261.9	267.64	659.70	921.08	1,182.45	1,574.52	6.46
Budgeted	291.0	474.87	910.50	1,200.92	1,491.33	1,926.96	5.85
+ 10%	320.1	682.11	1,161.30	1,480.76	1,800.22	2,279.40	5.35
Break-even Yield		224.32	185.35	166.12	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

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs ($/ACRE *) Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total
NOV P	1.0	4.0	1.80		52.38	17.57				69.95
DEC P			8.92		31.01	55.41	65.14	697.62		849.18
JAN C	1.0	7.0	1.49		68.76	14.54	29.68			112.98
FEB C	3.0	21.0	1.97		181.00	19.24	24.73			224.97
MAR C	2.0	14.0	1.72		122.17	16.73				138.90
APR C	2.0	14.0	8.94		176.72	87.17	25.63		4.75	294.27
MAY C			0.25		3.43	2.44				5.87
Pickup Use 60 Mi/Acre					15.25					15.25
Operating Interest at 10.0									32.17	32.17
Total	9.0	60.0	25.09		650.72	213.10	145.18	697.62	36.92	1743.54
%					37.32	12.22	8.33	40.01	2.12	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N	150.0
Total P	184.0
Total Labor	25.1
Total Water	60.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel	40.7	Gal
Unleaded Gas	8.7	Gal
Electric / Pumping	5688.9	KWH
All Direct Energy	26.2	M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Roller, 4 Rw	0.13 Hr	Blade Scraper, 10'	0.05 Hr	Flat Trailer	0.90 Hr
Hiller, 4 Row	1.08 Hr	Lister, 5 Bottom	0.22 Hr	Moldboard Plow, 4-16 2	0.45 Hr
Offset Disk, 13.5'	0.14 Hr	Offset Disk, 16.5'	0.90 Hr	Offset Disk, 8'	0.05 Hr
Pickup Truck, 1/2 Ton	2.90 Hr	Planter, Potato 3 Comp. 4	0.75 Hr	Potato Harvester, 4 Row	0.90 Hr
Power Mulcher, 4 Rw	0.30 Hr	Rolling Cultivator, 4 Rw	0.30 Hr	Root Cutter-Puller, 4 Row	0.75 Hr
Rowbuck, 10'	0.14 Hr	Saddle Tk Sprayer, 2 Tk 8	0.30 Hr	Tractor, 50 PTO HP,	0.05 Hr
Tractor, 60 PTO HP,	2.41 Hr	Tractor, 100 PTO HP,	3.24 Hr	Tractor, 150 PTO HP,	2.36 Hr
V-Ripper, 5 Shnk	0.11 Hr	Vegetable Trailer Flat Bed	1.80 Hr		

MATERIALS REQUIREMENT (per Acre)

18-46-00, Dry	400.00 Lb	20-0-0-45, Nitro-Sul	40.00 Ga	Carbaryl	2.00 Pt
Metalaxyl	0.50 Pt	Paraquat	0.50 Ga	Potato Seed	30.00 C
Trifluralin	1.50 Pt	Water, Pump	60.00 Al		

LABOR REQUIREMENT (per Acre)

Cutter	4.00 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	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

No.	First Month	Times	Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Material Use and Cost Name	Appl. Rate		$ / Unit		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		2.65	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	1.20	Potato Seed	30.00	C	22.00	CW			Tractor
						18-46-00, Dry	400.00	Lb	245.00	Tn			Other
						Metalaxyl	0.50	Pt	202.05	Ga			
	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			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	Al	106.05	AF			Irrigators
						20-0-0-45, Nitro-Sul	20.00	Ga	240.00	Tn			
	Feb	6.0	Irrigate		1.52	Water, Pump	7.00	Al	106.05	AF			Irrigators
	Apr	1.0	Apply Insecticide/Air	CST Air Spray, 5 Gal Mix		Carbaryl	2.00	Pt	25.00	Ga	4.75	Ac	
						Paraquat	0.50	Ga	36.00	Ga			
	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, 2001

COUNTY:	Maricopa	FARM:	Maricopa Veg	WATER SOURCE:	Queen Creek, Elect	TILLAGE:	Conventional
CROP:	Red Potatoes	ACRES:	1.0	IRRIGATION SYSTEM:	Flood Furrow	SOIL:	Sandy-Loam
AREA:	Queen Creek	YIELD:	291 CW/Acre	PREVIOUS CROP:	Wheat, Winter	DATE:	09/17/2001

		----------Month and Times Operation Performed----------											
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: P = Previous Year C = Current Year N = Next Year

Table 8A. Income and Cash Operating Summary; 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	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 GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					152.98	_____
Tractor/Self Propelled				78.24		_____
Irrigation				68.24		_____
Other/ Contract				6.50		_____
Chemicals and Custom Applications					315.16	_____
Fertilizer				180.45		_____
Insecticide				131.41		_____
Herbicide				3.30		_____
Farm Machinery and Vehicles					62.28	_____
Diesel Fuel				23.86		_____
Repairs and Maintenance				38.43		_____
Irrigation Water (excluding labor)					15.00	
Water Assessment (See Note Below) **						
Other Purchased Inputs &					469.63	_____
Seed/Transplants				241.63		_____
Other Services and Rentals				228.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					1015.06	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					2685.60	_____
Other Materials					749.10	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					3434.70	_____
OPERATING OVERHEAD -> PICKUP USE					12.71	_____
OPERATING INTEREST AT 10.0%					18.67	_____
TOTAL CASH OPERATING EXPENSES					$4,481.13	_____
RETURNS OVER CASH OPERATING EXPENSES					($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 BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
TOTAL INCOME at $3.64 / Ct	$2,715.44		$2,715.44	
TOTAL OPERATING EXPENSES	$4,481.13		$4,481.13	
RETURN OVER CASH OPERATING EXPENSES		($1,765.69)		($1,765.69)
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	7.39		7.39	
General and Office Overhead (5.0% of Total Operating Exp.)	224.06		224.06	
General Farm Maintenance (3.0% of Total Operating Exp.)	134.43		134.43	
Total Cash Overhead Expenses	365.88		365.88	
Total Cash Operating and Overhead Cost	4,847.01		4,847.01	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		($2,131.57)		($2,131.57)
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			41.18	
Interest on Equity, Machinery and Vehicles			16.75	
Total Capital Allocations			57.92	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ---------->		($2,131.57)		
RETURNS TO LAND, MANAGEMENT AND RISK ---------->				($2,189.49)
Land Cost / Rent or Lease	200.00		200.00	
Water Assessment **	10.14		10.14	
Total Land Costs	210.13		210.13	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ---------->		($2,341.70)		
RETURNS TO MANAGEMENT AND RISK ---------->				($2,399.62)
Management Services (8% of Total Operation Expenses)			358.49	
TOTAL OWNERSHIP COST	576.01		992.42	
TOTAL COST	$5,057.14		$5,473.55	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ---------->		($2,341.70)		
RETURNS TO RISK (PROFITS) ---------->				($2,758.11)

Item	-- CASH COST BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		$6.01		$6.01
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		$0.77		$1.33
BREAK-EVEN PRICE TO COVER TOTAL COST		$6.78		$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
AREA:	Salt River Project	YIELD:	746.0 Ct / Acre	PREVIOUS CROP:	Watermelons	DATE:	9/11/01

No.	First Month	Operation	---- Hours * ---- Machine	Labor	---- Operating Costs ($/ACRE *) Per Operation ---- Fuel/Rps.	Labor	Cust/Serv.	Materials	Total	Times	Tot. Cash 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	H
23	Dec	Haul, Custom 746 Ct					261.10		261.10	1.0	261.10	H
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 EXPENSES (includes all times over):									4481.13	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

Land Preparation (L)	307.59
Growing (G)	707.47
Harvest (H)	3,434.70
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	31.38
Total (T)	$4,481.13

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		$2.73	$3.28	$3.64	$4.00	$4.55	Break-even Price
- 25%	559.5	-2,226.36	-1,920.87	-1,717.21	-1,513.55	-1,208.07	6.71
- 10%	671.4	-2,436.07	-2,069.49	-1,825.10	-1,580.71	-1,214.12	6.36
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
Break-even Yield		-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

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs ($/ACRE *) Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total
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	173.57	241.63	153.00	650.65
OCT C	3.0	18.0	6.45	10.00	19.03	62.88	127.83		75.00	294.74
NOV C	1.0	6.0	1.30	5.00	1.42	12.67	13.76			32.85
DEC C			0.25		3.43	2.44		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	152.99	315.16	990.73	2932.27	4481.15
%				0.33	1.67	3.41	7.03	22.11	65.44	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N	411.3
Total P	230.0
Total Labor	15.7
Total Water	42.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel	28.0	Gal
Unleaded Gas	5.0	Gal
All Direct Energy	4.6	M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.60	Hr	Cultivator, Sweep, 4 Rw	1.49	Hr	Directed Spray Rig, 8	0.45	Hr
Directed Spray Rig, 16	0.15	Hr	Drag Scraper, 14'	0.22	Hr	Fert. Side Dress Unit,	1.26	Hr
Fertilizer Broadcaster,	1.13	Hr	High Clearance Sprayer,	0.15	Hr	Laser, Complete System	0.22	Hr
Lister, 5 Bottom	0.22	Hr	Moldboard Plow, 4-16 2	0.45	Hr	Offset Disk, 10.5'	0.23	Hr
Offset Disk, 16.5'	0.90	Hr	Pickup Truck, 1/2 Ton	1.67	Hr	Planter, Stanhay, 2 Row	0.60	Hr
Rowbuck, 10'	0.23	Hr	Tractor, 50 PTO HP,	3.08	Hr	Tractor, 60 PTO HP,	1.13	Hr
Tractor, 70 PTO HP,	0.60	Hr	Tractor, 80 PTO HP,	0.36	Hr	Tractor, 100 PTO HP,	0.22	Hr
Tractor, 150 PTO HP,	1.69	Hr	V-Ripper, 5 Shnk	0.11	Hr			

MATERIALS REQUIREMENT (per Acre)

18-46-00, Dry	500.00	Lb	32-00-00, URAN 32, Lqd	60.00	Ga	33-00-00, Amm. Nitrate,	330.00	Lb
Boxes & Supplies	746.00	Ct	BT	4.00	Lb	Cabbage Seed (Hybrid)	90.00	Th
Imidacloprid	16.00	Oz	Methomyl	3.00	Pt	Spinosad	6.00	Oz
Trifluralin	1.00	Pt	Water, District	42.00	Al			

LABOR REQUIREMENT (per Acre)

Irrigators	7.00	Hr	Other	0.67	Hr	Tractor	8.03	Hr

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

** 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	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

First No.	Month	Times	Operation	Equipment/ Custom Oper HP	Self-Prop./ Implement	Job Rate Acre/Hr	Material Use and Cost Name	Appl. Rate		$ / Unit		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
	Aug	0.5	Laser Level	150	Drag Scraper, 14'	2.00								Tractor
					Laser, Complete System									
	Sep	1.0	Soil Fertility		CST Soil Analysis (Surface)							3.00	Ac	
	Sep	1.0	Apply Herbicide/Ground	50	Fertilizer Broadcaster,	4.00	Trifluralin	1.00	Pt	24.95	Ga			Tractor
	Sep	1.0	List	100	Lister, 5 Bottom	4.00								Tractor
	Sep	1.0	Plant	70	Planter, Stanhay, 2 Row	1.50	Cabbage Seed (Hybrid)	90.00	Th	2.54	Th			Tractor
					Bed Shaper, 4 Rw									Other
	Sep	1.0	Apply Insect./Ground	50	Directed Spray Rig, 16 Row	6.00	Imidacloprid	16.00	Oz	588.40	Ga			Tractor
	Sep	5.0	Buck Rows	50	Rowbuck, 10'	20.00								Tractor
	Sep	7.0	Irrigate			1.00	Water, District	6.00	Al	4.29	AF			Irrigators
	Sep	5.0	Disk Ends	50	Offset Disk, 10.5'	20.00								Tractor
	Sep	1.0	Apply Insect./Ground		High Clearance Sprayer, 18	6.00	Spinosad	6.00	Oz	609.67	Ga			Tractor
	Sep	1.0	Thinning		CST Thinning							75.00	Ac	
	Sep	2.0	Cultivate/Side Dress	80	Cultivator, Sweep, 4 Rw	5.00	32-00-00, URAN 32,	30.00	Ga	170.80	Tn			Tractor
					Fert. Side Dress Unit, 4Row									
	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	4.00	Methomyl	1.50	Pt	48.94	Ga			Tractor
	Sep	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	Lb	320.00	Tn			Tractor
	Nov	1.0	Apply Insect./Ground	50	Directed Spray Rig, 8 Row	4.00	Methomyl	1.50	Pt	48.94	Ga			Tractor
							BT	4.00	Lb	0.96	Lb			
	Dec	1.0	Harvest/Field Pack		CST Harvest Cabbage		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								

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

Table 8F. Operations Calendar; Fall Cabbage, 2001

COUNTY: Maricopa FARM: Maricopa Veg WATER SOURCE: SRP TILLAGE: Conventional
CROP: Cabbage ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
AREA: Salt River Project YIELD: 746 Ct./Acre PREVIOUS CROP: Watermelons DATE: 09/17/2001

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

Table 9A. Income and Cash Operating Summary; 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	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Crtn	260.00	$13.10	$3,406.00	$3,406.00	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					109.82	_____
Tractor/Self Propelled				40.89		_____
Irrigation				65.02		_____
Other/ Contract				3.90		_____
Chemicals and Custom Applications					377.62	_____
Fertilizer				164.58		_____
Insecticide				143.55		_____
Herbicide				69.48		_____
Farm Machinery and Vehicles					47.40	_____
Diesel Fuel				19.44		_____
Repairs and Maintenance				27.96		_____
Irrigation Water (excluding labor)					242.81	_____
Natural Gas/Pumping				211.18		_____
Repairs and Maintenance				31.63		_____
Other Purchased Inputs &					189.00	_____
Seed/Transplants				15.00		_____
Other Services and Rentals				174.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					966.64	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					403.00	_____
Other Materials					192.37	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					595.37	_____
OPERATING OVERHEAD -> PICKUP USE					7.63	_____
OPERATING INTEREST AT 10.0%7.76					_____	
TOTAL CASH OPERATING EXPENSES					$1,577.40	_____
RETURNS OVER CASH OPERATING 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 BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
TOTAL INCOME at $13.10 / Ct	$3,406.00		$3,406.00	
TOTAL OPERATING EXPENSES	$1,577.40		$1,577.40	
RETURN OVER CASH OPERATING EXPENSES		$1,828.60		$1,828.60
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	4.20		4.20	
Wells and Irrigation System	12.01		12.01	
General and Office Overhead (5.0% of Total Operating Exp.)	78.87		78.87	
General Farm Maintenance (3.0% of Total Operating Exp.)	47.32		47.32	
Total Cash Overhead Expenses	142.40		142.40	
Total Cash Operating and Overhead Cost	1,719.80		1,719.80	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		$1,686.20		$1,686.20
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			23.91	
Wells and Irrigation System			67.97	
Interest on Equity, Machinery and Vehicles			11.61	
Wells and Irrigation System			36.41	
Total Capital Allocations			139.91	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ---------->		$1,686.20		
RETURNS TO LAND, MANAGEMENT AND RISK ---------->				$1,546.30
Land Cost / Rent or Lease	200.00		200.00	
Total Land Costs	200.00		200.00	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ---------->		$1,486.20		
RETURNS TO MANAGEMENT AND RISK ---------->				$1,346.30
Management Services (8% of Total Operation Expenses)			126.19	
TOTAL OWNERSHIP COST	342.40		608.50	
TOTAL COST	$1,919.80		$2,185.90	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ---------->		$1,486.20		
RETURNS TO RISK (PROFITS) ---------->				$1,220.10

Item	-- CASH COST BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		$6.07		$6.07
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		$1.32		$2.34
BREAK-EVEN PRICE TO COVER TOTAL COST		$7.38		$8.41

Table 9C. Variable Operating 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

No.	First Month	Operation	---- Hours * ---- Machine	Labor	---- Operating Costs ($/ACRE *) Per Operation ---- Fuel/Rps.	Labor	Cust/Serv.	Materials	Total	Times	Tot. Cash 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	H
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 EXPENSES (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

Land Preparation (L)	68.74
Growing (G)	897.90
Harvest (H)	595.37
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	15.39
Total (T)	$1,577.40

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		$9.83	$11.79	$13.10	$14.41	$16.38	Break-even Price
- 25%	195.0	485.58	868.75	1,124.20	1,379.65	1,762.83	7.33
- 10%	234.0	779.45	1,239.26	1,545.80	1,852.34	2,312.15	6.49
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
Break-even Yield		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

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs ($/ACRE *) Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total
JUN C			1.66		24.01	16.17	43.87		7.24	91.29
JUL C	4.0	20.0	4.52		108.70	44.04	110.50	15.00	81.00	359.24
AUG C	5.0	25.0	4.22		129.35	41.15	124.68		94.75	389.93
SEP C	1.0	5.0	0.87		28.15	8.45	84.83	192.37	407.75	721.55
Pickup Use 30 Mi/Acre					7.63					7.63
Operating Interest at 10.0									7.76	7.76
Total	10.0	50.0	11.26		297.84	109.81	363.88	207.37	598.50	1577.40
%					18.88	6.96	23.07	13.15	37.94	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N	370.5
Total P	126.0
Total K	15.0
Total Labor	11.3
Total Water	50.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel	22.8	Gal
Unleaded Gas	3.0	Gal
Nat Gas/Pumping	500.8	Therms
All Direct Energy	53.6	M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.36	Hr	Cultivator, Sweep, 4 Rw	0.90	Hr	Directed Spray Rig, 8	0.18	Hr
Drag Scraper, 14'	0.22	Hr	Fertilizer Broadcaster,	0.18	Hr	Fertilizer Injector, 4 Row	0.26	Hr
Laser, Complete System	0.22	Hr	Lister, 5 Bottom	0.22	Hr	Moldboard Plow, 4-16 2	0.45	Hr
Offset Disk, 18'	0.48	Hr	Pickup Truck, 1/2 Ton	1.00	Hr	Planter, Flex 2 Line	0.36	Hr
Rowbuck, 10'	0.18	Hr	Saddle Tk Sprayer, 2 Tk 8	0.22	Hr	Tractor, 80 PTO HP	1.49	Hr
Tractor, 100 PTO HP	1.02	Hr	Tractor, 150 PTO HP	0.67	Hr	Tractor, 175 PTO HP	0.59	Hr
V-Ripper, 5 Shnk	0.11	Hr						

MATERIALS REQUIREMENT (per Acre)

10-10-05, Lqd	30.00	Ga	11-48-00, Dry	200.00	Lb	32-00-00, URAN 32, Lqd	90.00	Ga
Abamectin	10.00	Oz	Bensulide	10.00	Pt	Bifenthrin	10.00	Oz
Cantaloupe Cartons	260.00	Ct	Cantaloupe Sd	1.50	Lb	Endosulfan	2.00	Pt
Imidacloprid	5.00	Oz	Metam-sodium	10.00	Pt	Water, Pump	50.00	Al

LABOR REQUIREMENT (per Acre)

Irrigators	6.67	Hr	Other	0.40	Hr	Tractor	4.19	Hr

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

Table 9E. Schedule of Operations; 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

First No.	Month	Times	Operation	Equipment/ Custom Oper HP	Self-Prop./ Implement	Job Rate Acre/Hr	Material Use and Cost Name	Appl. Rate		$ / 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'	2.00								Tractor
					Laser, Complete System									
	Jun	1.0	Soil Fertility		CST Soil Analysis (Surface)							3.00	Ac	
	Jun	1.0	Apply Fungicide/Ground		CST Air Spray, 3 Gal Mix		Metam-sodium	10.00	Pt	6.80	Ga	4.24	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, Flex 2 Line	2.50	Cantaloupe Sd	1.50	Lb	9.46	Lb			Tractor
					Bed Shaper, 4 Rw									Other
	Jul	1.0	Apply Herbicide/Ground		80 Saddle Tk Sprayer, 2 Tk 8	4.00	Bensulide	10.00	Pt	42.58	Ga			Tractor
	Jul	1.0	Apply Insect./Ground		80 Directed Spray Rig, 8 Row	5.00	Imidacloprid	5.00	Oz	588.40	Ga			Tractor
	Jul	4.0	Buck Rows		80 Rowbuck, 10'	20.00								Tractor
	Jul	7.0	Irrigate			1.50	Water, Pump	5.00	Al	58.27	AF			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	Ac	
	Jul	3.0	Irrigate/Run Fertilizer			1.50	Water, Pump	5.00	Al	58.27	AF			Irrigators
							32-00-00, URAN 32,	30.00	Ga	170.80	Tn			
	Jul	1.0	Thinning		CST Thinning							75.00	Ac	
	Aug	2.0	Apply Insecticide/Air		CST Air Spray, 5 Gal Mix		Bifenthrin	5.00	Oz	490.00	Ga	4.75	Ac	
							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		Cantaloupe Cartons	260.00	Ct	0.70	Ct	1.55	Ct	
	Sep	1.0	Disk Residue		175 Offset Disk, 18'	5.00								Tractor
			Pickup use 30 Mi/Ac		Pickup Truck, 1/2 Ton	1.00								

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

Table 9F. Operations Calendar; Fall Cantaloupe, 2001

COUNTY:	Maricopa	FARM:	Maricopa Veg	WATER SOURCE:	AguiNG	TILLAGE:	Double Crop
CROP:	Cantaloupe	ACRES:	1.0	IRRIGATION SYSTEM:	Flood Furrow	SOIL:	Sandy-Loam
AREA:	Aguila	YIELD:	260 Ct./Acre	PREVIOUS CROP:	Carrots	DATE:	09/17/2001

		----------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						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			
17	Thinning							1.0 C					
18	Apply Insecticide/Air								1.0 C	1.0 C			
19	Hand Weeding								1.0 C				
20	Apply Fert/Ground								1.0 C				
21	Pollinate								1.0 C				
22	Harvest, Load & Haul									1.0 C			
23	Disk Residue									1.0 C			

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

Table 10A. Income and Cash Operating Summary; 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

Item	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 GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					102.17	_____
Tractor/Self Propelled				46.26		_____
Irrigation				52.02		_____
Other/ Contract				3.90		_____
Chemicals and Custom Applications					303.47	_____
Fertilizer				104.68		_____
Insecticide				142.53		_____
Herbicide				56.26		_____
Farm Machinery and Vehicles					41.00	_____
Diesel Fuel				17.20		_____
Repairs and Maintenance				23.80		_____
Irrigation Water (excluding labor)					0.00	
Water Assessment (See Note Below) **						
Other Purchased Inputs &					206.14	_____
Seed/Transplants				32.14		_____
Other Services and Rentals				174.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					652.78	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					988.90	_____
Other Materials					910.39	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					1899.29	_____
OPERATING OVERHEAD -> PICKUP USE					7.63	_____
OPERATING INTEREST AT 10.0%					5.70	_____
TOTAL CASH OPERATING EXPENSES					$2,565.41	_____
RETURNS OVER CASH OPERATING EXPENSES					$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

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

Item	-- CASH COST BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		$4.02		$4.02
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		$0.65		$1.03
BREAK-EVEN PRICE TO COVER TOTAL COST		$4.68		$5.06

Table 10C. Variable Operating 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

No.	First Month	Operation	---- Hours * ---- Machine	Labor	---- Operating Costs ($/ACRE *) Per Operation ---- Fuel/Rps.	Labor	Cust/Serv.	Materials	Total	Times	Tot. Cash 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	H
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 EXPENSES (includes all times over):									2565.41	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 $7.50 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS

Land Preparation (L)	80.70
Growing (G)	572.09
Harvest (H)	1,899.29
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	13.33
Total (T)	$2,565.41

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		$4.38	$5.26	$5.84	$6.42	$7.30	Break-even Price
- 25%	478.5	2.47	421.64	701.08	980.52	1,399.69	4.37
- 10%	574.2	136.74	639.74	975.07	1,310.41	1,813.41	4.14
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
Break-even Yield		476.74	293.49	233.63	194.05	154.73	

Table 10D. Resource and Cash Flow Requirements; 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

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs ($/ACRE *) Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total
JUN C			1.66		19.02	16.17	34.88		3.00	73.07
JUL C	4.0	20.0	4.77		12.05	46.48	110.51	32.14	81.00	282.18
AUG C	4.0	20.0	3.85		7.99	37.57	94.73		94.24	234.53
SEP C			0.20		1.94	1.95	54.88	910.39	993.14	1962.30
Pickup Use 30 Mi/Acre					7.63					7.63
Operating Interest at 10.0									5.70	5.70
Water Assessment				**						
Total	8.0	40.0	10.48		48.63	102.17	295.00	942.53	1177.08	2565.48
%					1.90	3.98	11.50	36.74	45.88	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N	158.2
Total P	126.0
Total K	15.0
Total Labor	10.5
Total Water	40.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel	20.2	Gal
Unleaded Gas	3.0	Gal
All Direct Energy	3.2	M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.36	Hr	Cultivator, Sweep, 4 Rw	1.35	Hr	Directed Spray Rig, 8	0.18	Hr
Drag Scraper, 14'	0.22	Hr	Fertilizer Broadcaster,	0.18	Hr	Fertilizer Injector, 4 Row	0.26	Hr
Laser, Complete System	0.22	Hr	Lister, 5 Bottom	0.22	Hr	Moldboard Plow, 4-16 2	0.45	Hr
Offset Disk, 13.5'	0.18	Hr	Offset Disk, 18'	0.30	Hr	Pickup Truck, 1/2 Ton	1.00	Hr
Planter, Drill Type, 4 Row	0.36	Hr	Rowbuck, 10'	0.23	Hr	Saddle Tk Sprayer, 2 Tk 8	0.22	Hr
Tractor, 50 PTO HP,	0.63	Hr	Tractor, 70 PTO HP,	1.35	Hr	Tractor, 100 PTO HP,	1.20	Hr
Tractor, 150 PTO HP,	1.09	Hr	V-Ripper, 5 Shnk	0.11	Hr			

MATERIALS REQUIREMENT (per Acre)

10-10-05, Lqd	30.00	Ga	11-48-00, Dry	200.00	Lb	32-00-00, URAN 32, Lqd	30.00	Ga
Abamectin	10.00	Oz	Bensulide	10.00	Pt	Bifenthrin	10.00	Oz
Endosulfan	2.00	Pt	Honeydew Seeds	1.50	Th	Imidacloprid	5.00	Oz
Water, Pump	40.00	Al	Waxed Cartons	638.00	Ct			

LABOR REQUIREMENT (per Acre)

Irrigators	5.34	Hr	Other	0.40	Hr	Tractor	4.74	Hr

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

** 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	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

First No.	Month	Times	Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Material Use and Cost Name	Appl. Rate		$ / Unit		Service Cost $ / Unit		Labor Type
	Jun	0.5	Rip	150 V-Ripper, 5 Shnk	4.00								Tractor
	Jun	2.0	Disk	150 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'	2.00								Tractor
				Laser, Complete System									
	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	Al	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	Al	0.00	AF			Irrigators
						32-00-00, URAN 32,	30.00	Ga	170.80	Tn			
	Jul	1.0	Thinning	CST Thinning							75.00	Ac	
	Aug	2.0	Apply Insecticide/Air	CST Air Spray, 3 Gal Mix		Bifenthrin	5.00	Oz	490.00	Ga	4.24	Ac	
						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		Waxed 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								

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

Table 10F. Operations Calendar; Fall Honeydew, 2001

COUNTY:	Maricopa	FARM:	Maricopa Veg	WATER SOURCE:	Roosevelt ID	TILLAGE:	Conventional
CROP:	Honeydew Melons	ACRES:	1.0	IRRIGATION SYSTEM:	Flood Furrow	SOIL:	Sandy-Loam
AREA:	Roosevelt ID	YIELD:	638 Ct./Acre	PREVIOUS CROP:	Wheat/Winter	DATE:	09/17/2001

		----------Month and Times Operation Performed ----------											
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: P = Previous Year C = Current Year N = Next Year

Table 11A. Income and Cash Operating Summary; 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

Item	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 GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					156.36	_____
Tractor/Self Propelled				45.12		_____
Irrigation				93.69		_____
Other/ Contract				17.55		_____
Chemicals and Custom Applications					344.21	_____
Fertilizer				88.26		_____
Insecticide				196.08		_____
Herbicide				55.53		_____
Other Chemicals				4.33		_____
Farm Machinery and Vehicles					47.50	_____
Diesel Fuel				17.82		_____
Repairs and Maintenance				29.68		_____
Irrigation Water (excluding labor)					10.00	
Water Assessment (See Note Below) **						
Other Purchased Inputs &					179.47	_____
Seed/Transplants				101.47		_____
Other Services and Rentals				78.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					737.55	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					0.32	_____
Tractor/Self Propelled				0.32		_____
Farm Machinery and Vehicles					0.49	_____
Diesel Fuel				0.19		_____
Repairs and Maintenance				0.30		_____
Custom Harvest/Post Harvest					508.80	_____
Other Materials					197.19	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					706.80	_____
OPERATING OVERHEAD -> PICKUP USE					15.25	_____
OPERATING INTEREST AT 10.0%					9.54	_____
TOTAL CASH OPERATING EXPENSES					$1,469.14	_____
RETURNS OVER CASH OPERATING EXPENSES					$146.30	_____

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 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

Item	-- CASH COST BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
TOTAL INCOME at $7.62 / Ct	$1,615.44		$1,615.44	
TOTAL OPERATING EXPENSES	$1,469.14		$1,469.14	
RETURN OVER CASH OPERATING EXPENSES		$146.30		$146.30
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	5.48		5.48	
General and Office Overhead (5.0% of Total Operating Exp.)	73.46		73.46	
General Farm Maintenance (3.0% of Total Operating Exp.)	44.07		44.07	
Total Cash Overhead Expenses	123.01		123.01	
Total Cash Operating and Overhead Cost	1,592.15		1,592.15	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		$23.29		$23.29
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			30.53	
Interest on Equity, Machinery and Vehicles			14.21	
Total Capital Allocations			44.74	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ---------->		$23.29		
RETURNS TO LAND, MANAGEMENT AND RISK ---------->				($21.45)
Land Cost / Rent or Lease	200.00		200.00	
Water Assessment **	10.14		10.14	
Total Land Costs	210.13		210.13	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ---------->		($186.85)		
RETURNS TO MANAGEMENT AND RISK ---------->				($231.59)
Management Services (8% of Total Operation Expenses)			117.53	
TOTAL OWNERSHIP COST	333.15		495.42	
TOTAL COST	$1,802.29		$1,964.56	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ---------->		($186.85)		
RETURNS TO RISK (PROFITS) ---------->				($349.12)

Item	-- CASH COST BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		$6.93		$6.93
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		$1.57		$2.34
BREAK-EVEN PRICE TO COVER TOTAL COST		$8.50		$9.27

Table 11C. Variable Operating 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

No.	First Month	Operation	---- Hours * ---- Machine	Labor	---- Operating Costs ($/ACRE *) Per Operation ---- Fuel/Rps.	Labor	Cust/Serv.	Materials	Total	Times	Tot. Cash 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	H
25	Nov	Harvest, Load & Haul 212					508.80	197.19	705.99	1.0	705.99	H
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 EXPENSES (includes all times over):									1469.14	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

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)

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 Yield		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

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs ($/ACRE *) Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total
JUN C			0.96		12.80	9.35				22.15
AUG C			0.83		9.04	8.13	43.34		3.00	63.51
SEP C	7.0	12.0	10.60		17.69	103.33	215.00	101.47	75.00	512.49
OCT C	3.0	18.0	2.76	5.00	5.20	26.92	85.88			123.00
NOV C	1.0	6.0	0.75	5.00	0.83	7.31		197.19	508.80	719.13
DEC C			0.17		2.44	1.63				4.07
Pickup Use 60 Mi/Acre					15.25					15.25
Operating Interest at 10.0									9.54	9.54
Water Assessment				**						
Total	11.0	36.0	16.07	10.00	63.25	156.67	344.22	298.66	596.34	1468.67
%				0.68	4.31	10.66	23.43	20.33	40.59	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N	192.3
Total P	156.0
Total Labor	16.1
Total Water	36.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel	21.2	Gal
Unleaded Gas	6.0	Gal
All Direct Energy	3.7	M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.36	Hr	Cultivator, Sweep, 6 Rw	0.60	Hr	Directed Spray Rig, 8	0.30	Hr
Drag Scraper, 14'	0.22	Hr	Fert. Side Dress Unit,	0.60	Hr	Fertilizer Broadcaster,	0.38	Hr
High Clearance Sprayer,	0.07	Hr	Laser, Complete System	0.22	Hr	Lister, 5 Bottom	0.22	Hr
Moldboard Plow, 4-16 2	0.45	Hr	Offset Disk, 10.5'	0.14	Hr	Offset Disk, 18'	0.63	Hr
Pickup Truck, 1/2 Ton	2.00	Hr	Planter, Stanhay, 4 Row	0.36	Hr	Power Mulcher, 4 Rw	0.30	Hr
Rowbuck, 10'	0.09	Hr	Sprinkler Trailer	0.32	Hr	Tractor, 60 PTO HP	1.88	Hr
Tractor, 100 PTO HP,	0.60	Hr	Tractor, 150 PTO HP,	1.64	Hr	V-Ripper, 5 Shnk	0.11	Hr

MATERIALS REQUIREMENT (per Acre)

11-52-00, Dry	300.00	Lb	32-00-00, URAN 32, Lqd	45.00	Ga	BT	10.00	Lb
Esfenvalerate	15.00	Oz	Head Lettuce Sd	160.00	Th	Imidacloprid	16.00	Oz
Lettuce Cartons	212.00	Ct	Methomyl	10.00	Pt	Pronamide	2.00	Lb
Spinosad	6.00	Oz	Surfactant (spreader)	2.00	Pt	Water, District	36.00	Al

LABOR REQUIREMENT (per Acre)

Irrigators	9.61	Hr	Other	1.80	Hr	Tractor	4.66	Hr

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

** 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:	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

First No.	Month	Times	Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Material Use and Cost Name	Appl. Rate		$ / Unit		Service Cost $ / Unit		Labor Type
	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	Head Lettuce Sd	160.00	Th	0.60	Th			Tractor
				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	Ga			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	Al	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		1.50	Water, District	6.00	Al	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	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	170.80	Tn			Tractor
				Cultivator, Sweep, 6 Rw									
	Sep	2.0	Apply Insect./Ground	High Clearance Sprayer, 18	60.00	Methomyl	2.00	Pt	48.94	Ga			Tractor
						BT	2.00	Lb	0.96	Lb			
						Surfactant (spreader)	1.00	Pt	16.40	Ga			
	Oct	3.0	Apply Insect./Ground	High Clearance Sprayer, 18	60.00	Esfenvalerate	5.00	Oz	107.50	Ga			Tractor
						Methomyl	2.00	Pt	48.94	Ga			
						BT	2.00	Lb	0.96	Lb			
	Oct	1.0	Irrigate/Run Fertilizer		1.06	Water, District	6.00	Al	10.00	AF			Irrigators
						32-00-00, URAN 32,	15.00	Ga	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		Lettuce Cartons	212.00	Ct	0.88	Ct	2.40	Ct	
	Dec	1.0	Disk Residue	150 Offset Disk, 18'	6.00								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 11F. Operations Calendar; Fall Iceberg Lettuce, 2001

COUNTY:	Maricopa	FARM:	Maricopa Veg	WATER SOURCE:	SRP	TILLAGE:	Double Crop
CROP:	Lettuce, Iceberg	ACRES:	1.0	IRRIGATION SYSTEM:	Flood Furrow	SOIL:	Sandy-Loam
AREA:	Salt River Project	YIELD:	212 Ct/Acre	PREVIOUS CROP:	Potatoes, Early	DATE:	09/17/2001

		----------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	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		
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

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	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 GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					156.36	_____
Tractor/Self Propelled				45.12		_____
Irrigation				93.69		_____
Other/ Contract				17.55		_____
Chemicals and Custom Applications					344.21	_____
Fertilizer				88.26		_____
Insecticide				196.08		_____
Herbicide				55.53		_____
Other Chemicals				4.33		_____
Farm Machinery and Vehicles					47.50	_____
Diesel Fuel				17.82		_____
Repairs and Maintenance				29.68		_____
Irrigation Water (excluding labor)					10.00	
Water Assessment (See Note Below) **						
Other Purchased Inputs &					382.42	_____
Seed/Transplants				304.42		_____
Other Services and Rentals				78.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					940.49	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					0.32	_____
Tractor/Self Propelled				0.32		_____
Farm Machinery and Vehicles					0.49	_____
Diesel Fuel				0.19		_____
Repairs and Maintenance				0.30		_____
Custom Harvest/Post Harvest					984.00	_____
Other Materials					381.37	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					1366.18	_____
OPERATING OVERHEAD -> PICKUP USE					10.17	_____
OPERATING INTEREST AT 10.0%					11.97	_____
TOTAL CASH OPERATING EXPENSES					$2,328.81	_____
RETURNS OVER CASH OPERATING EXPENSES					$664.19	_____

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

Item	-- CASH COST BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		$5.68		$5.68
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		$0.98		$1.54
BREAK-EVEN PRICE TO COVER TOTAL COST		$6.66		$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
AREA:	Salt River Project	YIELD:	410.0 Ct / Acre	PREVIOUS CROP:	Mixed Greens	DATE:	9/7/01

No.	First Month	Operation	---- Hours * ---- Machine	Labor	---- Operating Costs ($/ACRE *) Per Operation ---- Fuel/Rps.	Labor	Cust/Serv.	Materials	Total	Times	Tot. Cash 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	H
25	Nov	Harvest, Load & Haul 410					984.00	381.37	1365.37	1.0	1365.37	H
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 EXPENSES (includes all times over):									2328.81	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

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 REVENUES OVER TOTAL CASH EXPENSES ($/ACRE)

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 Yield		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:	9/7/01

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs ($/ACRE *) Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total
JUN C			0.96		12.80	9.35				22.15
AUG C			0.83		9.04	8.13	43.34		3.00	63.51
SEP C	7.0	12.0	10.60		17.69	103.33	215.00	304.42	75.00	715.44
OCT C	3.0	18.0	2.76	5.00	5.20	26.91	85.88			122.99
NOV C	1.0	6.0	0.75	5.00	0.83	7.31		381.37	984.00	1378.51
DEC C			0.17		2.44	1.63				4.07
Pickup Use 40 Mi/Acre					10.17					10.17
Operating Interest at 10.0									11.97	11.97
Water Assessment				**						
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	14.78	29.45	46.12	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N	192.3
Total P	156.0
Total Labor	16.1
Total Water	36.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel	21.2	Gal
Unleaded Gas	4.0	Gal
All Direct Energy	3.5	M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.36	Hr	Cultivator, Sweep, 6 Rw	0.60	Hr	Directed Spray Rig, 8	0.30	Hr
Drag Scraper, 14'	0.22	Hr	Fert. Side Dress Unit,	0.60	Hr	Fertilizer Broadcaster,	0.38	Hr
High Clearance Sprayer,	0.07	Hr	Laser, Complete System	0.22	Hr	Lister, 5 Bottom	0.22	Hr
Moldboard Plow, 4-16 2	0.45	Hr	Offset Disk, 10.5'	0.14	Hr	Offset Disk, 18'	0.63	Hr
Pickup Truck, 1/2 Ton	1.33	Hr	Planter, Stanhay, 4 Row	0.36	Hr	Power Mulcher, 4 Rw	0.30	Hr
Rowbuck, 10'	0.09	Hr	Sprinkler Trailer	0.32	Hr	Tractor, 60 PTO HP	1.88	Hr
Tractor, 100 PTO HP,	0.60	Hr	Tractor, 150 PTO HP,	1.64	Hr	V-Ripper, 5 Shnk	0.11	Hr

MATERIALS REQUIREMENT (per Acre)

11-52-00, Dry	300.00	Lb	32-00-00, URAN 32, Lqd	45.00	Ga	BT	10.00	Lb
Esfenvalerate	15.00	Oz	Imidacloprid	16.00	Oz	Leaf Lettuce Sd (coated)	800.00	Th
Lettuce Cartons	410.00	Ct	Methomyl	10.00	Pt	Pronamide	2.00	Lb
Spinosad	6.00	Oz	Surfactant (spreader)	2.00	Pt	Water, District	36.00	Al

LABOR REQUIREMENT (per Acre)

Irrigators	9.61	Hr	Other	1.80	Hr	Tractor	4.66	Hr

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

** 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	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

First No.	Month	Times	Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Material Use and Cost Name	Appl. Rate		$ / Unit		Service Cost $ / Unit		Labor Type
	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	0.36	Th			Tractor
				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	Ga			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	Al	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		1.50	Water, District	6.00	Al	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	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	170.80	Tn			Tractor
				Cultivator, Sweep, 6 Rw									
	Sep	2.0	Apply Insect./Ground	High Clearance Sprayer, 18	60.00	Methomyl	2.00	Pt	48.94	Ga			Tractor
						BT	2.00	Lb	0.96	Lb			
						Surfactant (spreader)	1.00	Pt	16.40	Ga			
	Oct	3.0	Apply Insect./Ground	High Clearance Sprayer, 18	60.00	Esfenvalerate	5.00	Oz	107.50	Ga			Tractor
						Methomyl	2.00	Pt	48.94	Ga			
						BT	2.00	Lb	0.96	Lb			
	Oct	1.0	Irrigate/Run Fertilizer		1.06	Water, District	6.00	Al	10.00	AF			Irrigators
						32-00-00, URAN 32,	15.00	Ga	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		Lettuce Cartons	410.00	Ct	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								

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

Table 12F Operations Calendar; Fall Leaf Lettuce, 2001

COUNTY:	Maricopa	FARM:	Maricopa Veg	WATER SOURCE:	SRP	TILLAGE:	Double Crop
CROP:	Lettuce, Leaf	ACRES:	1.0	IRRIGATION SYSTEM:	Flood Furrow	SOIL:	Sandy-Loam
AREA:	Salt River Project	YIELD:	410 Ct/Acre	PREVIOUS CROP:	Mixed Greens	DATE:	09/17/2001

		----------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	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		
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 13A. Income and Cash Operating Summary; 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	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 GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					164.33	_____
Tractor/Self Propelled				87.59		_____
Irrigation				70.24		_____
Other/ Contract				6.50		_____
Chemicals and Custom Applications					162.41	_____
Fertilizer				95.89		_____
Insecticide				27.33		_____
Herbicide				39.19		_____
Farm Machinery and Vehicles					58.53	_____
Diesel Fuel				23.16		_____
Repairs and Maintenance				35.37		_____
Irrigation Water (excluding labor)					17.50	
Water Assessment (See Note Below) **						
Other Purchased Inputs &					570.52	_____
Seed/Transplants				492.52		_____
Other Services and Rentals				78.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					973.29	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					0.49	_____
Tractor/Self Propelled				0.49		_____
Farm Machinery and Vehicles					0.24	_____
Diesel Fuel				0.09		_____
Repairs and Maintenance				0.14		_____
Custom Harvest/Post Harvest					7000.00	_____
Other Materials					1997.73	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					8998.46	_____
OPERATING OVERHEAD -> PICKUP USE					7.63	_____
OPERATING INTEREST AT 10.0%					19.76	_____
TOTAL CASH OPERATING EXPENSES					$9,999.13	_____
RETURNS OVER CASH OPERATING EXPENSES					$2,950.87	_____

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 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 BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
TOTAL INCOME at $9.25 / Ct	$12,950.00		$12,950.00	
TOTAL OPERATING EXPENSES	$9,999.13		$9,999.13	
RETURN OVER CASH OPERATING EXPENSES		$2,950.87		$2,950.87
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	6.47		6.47	
General and Office Overhead (5.0% of Total Operating Exp.)	499.96		499.96	
General Farm Maintenance (3.0% of Total Operating Exp.)	299.97		299.97	
Total Cash Overhead Expenses	806.40		806.40	
Total Cash Operating and Overhead Cost	10,805.53		10,805.53	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		$2,144.47		$2,144.47
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			36.28	
Interest on Equity, Machinery and Vehicles			14.44	
Total Capital Allocations			50.73	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ---------->		$2,144.47		
RETURNS TO LAND, MANAGEMENT AND RISK ---------->				$2,093.74
Land Cost / Rent or Lease	200.00		200.00	
Water Assessment **	10.14		10.14	
Total Land Costs	210.13		210.13	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ---------->		$1,934.34		
RETURNS TO MANAGEMENT AND RISK ---------->				$1,883.61
Management Services (8% of Total Operation Expenses)			799.93	
TOTAL OWNERSHIP COST	1,016.54		1,867.19	
TOTAL COST	$11,015.66		$11,866.32	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ---------->		$1,934.34		
RETURNS TO RISK (PROFITS) ---------->				$1,083.68

Item	-- CASH COST BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		$7.14		$7.14
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		$0.73		$1.33
BREAK-EVEN PRICE TO COVER TOTAL COST		$7.87		$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
AREA:	Salt River Project	YIELD:	1,400.0 Ct / Acre	PREVIOUS CROP:	Honeydew Melons	DATE:	9/11/01

No.	First Month	Operation	---- Hours * ---- Machine	Labor	---- Operating Costs ($/ACRE *) Per Operation ---- Fuel/Rps.	Labor	Cust/Serv.	Materials	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	H
19	Dec	Harvest, Load & Haul					7000.00	1997.73	8997.73	1.0	8997.73	H
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 EXPENSES (includes all times over):									9999.13	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

Land Preparation (L)	596.37
Growing (G)	376.91
Harvest (H)	8,998.46
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	27.38
Total (T)	$9,999.13

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		$6.94	$8.32	$9.25	$10.18	$11.56	Break-even Price
- 25%	1,050.0	-445.38	1,011.49	1,982.74	2,953.99	4,410.87	7.36
- 10%	1,260.0	-338.28	1,409.97	2,575.47	3,740.97	5,489.22	7.21
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
+ 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

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

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs ($/ACRE *) Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total
MAY C			1.67		15.26	16.25				31.51
JUN C			0.92		6.37	8.94				15.31
JUL C			0.67		4.01	6.50			3.00	13.51
AUG C			1.83		12.34	17.87	26.48			56.69
SEP C	3.0	21.0	4.93		6.78	48.10	52.86	492.52		600.25
OCT C	2.0	14.0	3.47	9.17	7.95	33.80	77.08		75.00	203.00
NOV C	2.0	10.0	2.87	8.33	2.83	28.00	5.99			45.15
DEC C			0.05		0.24	0.49		1997.73	7000.00	8998.46
JAN N			0.50		3.01	4.87				7.88
Pickup Use 30 Mi/Acre					7.63					7.63
Operating Interest at 10.0									19.76	19.76
Water Assessment				**						
Total	7.0	45.0	16.91	17.50	66.40	164.82	162.41	2490.25	7097.78	9999.13
%				0.18	0.66	1.65	1.62	24.90	70.98	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N	177.0
Total P	40.0
Total Labor	16.9
Total Water	45.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel	27.3	Gal
Unleaded Gas	3.0	Gal
All Direct Energy	4.2	M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.60	Hr	Cultivator, Sweep, 3 Rw	1.20	Hr	Directed Spray Rig, 8	0.59 Hr
Drag Scraper, 14'	0.22	Hr	Fert. Side Dress Unit,	0.90	Hr	Laser, Complete System	0.22 Hr
Lister, 5 Bottom	0.30	Hr	Moldboard Plow, 3-16 2	0.90	Hr	Offset Disk, 8'	3.08 Hr
Pickup Truck, 1/2 Ton	1.00	Hr	Planter, Planet Jr, 4	0.60	Hr	Power Mulcher, 4 Rw	0.30 Hr
Rowbuck, 10'	0.05	Hr	Tractor, 50 PTO HP,	2.96	Hr	Tractor, 70 PTO HP,	4.05 Hr
Tractor, 100 PTO HP	1.13	Hr					

MATERIALS REQUIREMENT (per Acre)

16-20-00, Dry	200.00	Lb	32-00-00, URAN 32, Lqd	6.00	Ga	33-00-00, Amm. Nitrate,	375.00 Lb
DCPA	6.00	Lb	Green Onion Seed	22.00	Lb	Methomyl	3.00 Pt
Methyl Parathion	2.00	Pt	Water, District	45.00	Al	Waxed Cartons	1400.00 Ct

LABOR REQUIREMENT (per Acre)

Irrigators	7.20	Hr	Other	0.67	Hr	Tractor	9.03 Hr

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

** 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	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

First No.	Month	Times	Operation	Equipment/ Custom Oper HP	Self-Prop./ Implement	Job Rate	Material Use and Cost Name	Appl. Rate		$ / Unit		Service 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'	2.00							Tractor
					Laser, Complete System								
	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	1.50	Green Onion Seed	22.00	Lb	21.18	Lb		Tractor
					Bed Shaper, 4 Rw								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	Al	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	5.00	Methomyl	1.50	Pt	48.94	Ga		Tractor
							Methyl Parathion	1.00	Pt	30.00	Ga		
	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			0.83	Water, District	3.00	Al	10.00	AF		Irrigators
							32-00-00, URAN 32,	6.00	Ga	170.80	Tn		
	Dec	1.0	Prepare Ends	50	Offset Disk, 8'	20.00							Tractor
	Dec	1.0	Harvest, Load & Haul		CST Harvest Green Onions		Waxed 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							

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

Table 13F. Operations Calendar; Green Onions, 2001

COUNTY:	Maricopa	FARM:	Maricopa Veg	WATER SOURCE:	SRP	TILLAGE:	Double Crop
CROP:	Green Onions	ACRES:	1.0	IRRIGATION SYSTEM:	Flood Furrow	SOIL:	Sandy-Loam
AREA:	Salt River Project	YIELD:	1400 Ct./Acre	PREVIOUS CROP:	Honeydew Melons	DATE:	09/17/2001

				----------Month and Times Operation Performed ----------									
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												

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

Table 14A. Income and Cash Operating Summary; 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	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 GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					106.10	_____
Tractor/Self Propelled				47.75		_____
Irrigation				52.02		_____
Other/ Contract				6.34		_____
Chemicals and Custom Applications					238.61	_____
Fertilizer				179.62		_____
Insecticide				20.30		_____
Herbicide				33.76		_____
Other Chemicals				4.93		_____
Farm Machinery and Vehicles					45.70	_____
Diesel Fuel				19.46		_____
Repairs and Maintenance				26.24		_____
Irrigation Water (excluding labor)					20.00	
Water Assessment (See Note Below) **						
Other Purchased Inputs &					188.00	_____
Seed/Transplants				20.00		_____
Other Services and Rentals				168.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					598.42	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					1116.00	_____
Other Materials					266.36	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					1382.36	_____
OPERATING OVERHEAD -> PICKUP USE					7.63	_____
OPERATING INTEREST AT 10.0%					15.45	_____
TOTAL CASH OPERATING EXPENSES					$2,003.86	_____
RETURNS OVER CASH OPERATING EXPENSES					$2,712.14	_____

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 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 BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
TOTAL INCOME at $13.10 / Ct	$4,716.00		$4,716.00	
TOTAL OPERATING EXPENSES	$2,003.86		$2,003.86	
RETURN OVER CASH OPERATING EXPENSES		$2,712.14		$2,712.14
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	5.17		5.17	
General and Office Overhead (5.0% of Total Operating Exp.)	100.19		100.19	
General Farm Maintenance (3.0% of Total Operating Exp.)	60.12		60.12	
Total Cash Overhead Expenses	165.48		165.48	
Total Cash Operating and Overhead Cost	2,169.34		2,169.34	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		$2,546.66		$2,546.66
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			28.04	
Interest on Equity, Machinery and Vehicles			11.87	
Total Capital Allocations			39.91	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ---------->		$2,546.66		
RETURNS TO LAND, MANAGEMENT AND RISK ---------->				$2,506.75
Land Cost / Rent or Lease	200.00		200.00	
Water Assessment **	10.14		10.14	
Total Land Costs	210.13		210.13	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ---------->		$2,336.52		
RETURNS TO MANAGEMENT AND RISK ---------->				$2,296.61
Management Services (8% of Total Operation Expenses)			160.31	
TOTAL OWNERSHIP COST	375.62		575.83	
TOTAL COST	$2,379.48		$2,579.70	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ---------->		$2,336.52		
RETURNS TO RISK (PROFITS) ---------->				$2,136.30

Item	-- CASH COST BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		$5.57		$5.57
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		$1.04		$1.60
BREAK-EVEN PRICE TO COVER TOTAL COST		$6.61		$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:	Salt River Project	YIELD:	360.0 Ct / Acre	PREVIOUS CROP:	Safflower	DATE:	9/19/01

No.	First Month	Operation	---- Hours * ---- Machine	Labor	---- Operating Costs ($/ACRE *) Per Operation ---- Fuel/Rps.	Labor	Cust/Serv.	Materials	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	H
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 EXPENSES (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

Land Preparation (L)	110.87
Growing (G)	637.55
Harvest (H)	1,382.36
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	23.08
Total (T)	$2,153.8

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		$9.83	$11.79	$13.10	$14.41	$16.38	Break-even Price
- 25%	270.0	859.93	1,390.48	1,744.18	2,097.88	2,628.43	6.64
- 10%	324.0	1,183.13	1,819.79	2,244.23	2,668.67	3,305.33	6.17
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
+ 25%	450.0	1,937.25	2,821.50	3,411.00	4,000.50	4,884.75	5.52
Break-even Yield		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

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs ($/ACRE *) Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total
FEB C			2.20		22.37	21.46	52.32		3.00	99.14
MAR C	2.0	12.0	3.19		12.50	31.15	97.41	20.00		161.05
APR C	3.0	18.0	3.04	5.00	7.41	29.61	63.65		150.00	255.67
MAY C	3.0	18.0	2.25	15.00	1.49	21.94	15.74	87.90	392.78	534.85
JUN C			0.20		1.94	1.95		178.46	747.72	930.07
Pickup Use 30 Mi/Acre					7.63					7.63
Operating Interest at 10.0									15.45	15.45
Water Assessment				**						
Total	8.0	48.0	10.88	20.00	53.33	106.10	229.11	286.36	1304.72	1999.62
%				1.00	2.67	5.31	11.46	14.32	65.25	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N	149.6
Total P	206.2
Total K	31.1
Total Labor	10.9
Total Water	48.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel	22.9	Gal
Unleaded Gas	3.0	Gal
All Direct Energy	3.5	M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.36	Hr	Cultivator, Sweep, 4 Rw	1.57	Hr	Drag Scraper, 10'	0.22 Hr
Fertilizer Broadcaster,	0.18	Hr	Fertilizer Injector, 4 Row	0.51	Hr	Laser, Complete System	0.22 Hr
Lister, 5 Bottom	0.22	Hr	Moldboard Plow, 4-16 2	0.45	Hr	Offset Disk, 13.5'	0.18 Hr
Offset Disk, 18'	0.45	Hr	Pickup Truck, 1/2 Ton	1.00	Hr	Planter, Planet Jr, 4 Row	0.36 Hr
Rowbuck, 10'	0.02	Hr	Saddle Tk Sprayer, 2 Tk 8	0.36	Hr	Tractor, 50 PTO HP,	0.02 Hr
Tractor, 70 PTO HP,	1.57	Hr	Tractor, 100 PTO HP,	1.10	Hr	Tractor, 125 PTO HP,	0.59 Hr
Tractor, 150 PTO HP,	1.13	Hr	V-Ripper, 5 Shnk	0.22	Hr		

MATERIALS REQUIREMENT (per Acre)

11-48-00, Dry	300.00	Lb	15-08-04, Lqd	70.00	Ga	Bensulide	6.00 Pt
Cantaloupe Cartons	360.00	Ct	Cantaloupe Sd	2.00	Lb	Endosulfan	1.50 Pt
Esfenvalerate	0.50	Pt	Sulfur	0.25	Lb	Water, District	48.00 Al

LABOR REQUIREMENT (per Acre)

Irrigators	5.34	Hr	Other	0.65	Hr	Tractor	4.90 Hr

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

** 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:	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

No.	First Month	Times	Operation	Equipment/ Custom Oper HP	Self-Prop./ Implement	Job Rate Acre/Hr	Material Use and Cost Name	Appl. Rate		$ / Unit		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			1.50	Water, District	6.00	Al	5.00	AF			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	1.0	Apply Insecticide/Air	CST	Air Spray, 5 Gal Mix		Esfenvalerate	0.50	Pt	135.94	Ga	4.75	Ac	
							Endosulfan	1.50	Pt	33.17	Ga			
	Apr	1.0	Apply Fungicide/Air	CST	Air Spray, 5 Gal Mix		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								

*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 Cantaloupe	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

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

Table 15A. Income and Cash Operating Summary; 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	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 GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					127.88	_____
Tractor/Self Propelled				69.39		_____
Irrigation				58.49		_____
Chemicals and Custom Applications					232.53	_____
Fertilizer				134.59		_____
Insecticide				24.03		_____
Herbicide				73.91		_____
Farm Machinery and Vehicles					70.95	_____
Diesel Fuel				31.55		_____
Repairs and Maintenance				39.40		_____
Irrigation Water (excluding labor)					10.00	
Water Assessment (See Note Below) **						
Other Purchased Inputs &					264.03	_____
Seed/Transplants				186.03		_____
Other Services and Rentals				78.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					705.39	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					0.49	_____
Tractor/Self Propelled				0.49		_____
Farm Machinery and Vehicles					0.24	_____
Diesel Fuel				0.09		_____
Repairs and Maintenance				0.14		_____
Custom Harvest/Post Harvest					1605.50	_____
Other Materials					704.91	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					2311.14	_____
OPERATING OVERHEAD -> PICKUP USE					7.63	_____
OPERATING INTEREST AT 10.0%					9.84	_____
TOTAL CASH OPERATING EXPENSES					$3,034.00	_____
RETURNS OVER CASH OPERATING EXPENSES					$3,970.92	_____

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 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 BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
TOTAL INCOME at $14.18 / Ct	$7,004.92		$7,004.92	
TOTAL OPERATING EXPENSES	$3,034.00		$3,034.00	
RETURN OVER CASH OPERATING EXPENSES		$3,970.92		$3,970.92
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	7.97		7.97	
General and Office Overhead (5.0% of Total Operating Exp.)	151.70		151.70	
General Farm Maintenance (3.0% of Total Operating Exp.)	91.02		91.02	
Total Cash Overhead Expenses	250.69		250.69	
Total Cash Operating and Overhead Cost	3,284.69		3,284.69	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		$3,720.23		$3,720.23
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			42.72	
Interest on Equity, Machinery and Vehicles			19.90	
Total Capital Allocations			62.61	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ---------->		$3,720.23		
RETURNS TO LAND, MANAGEMENT AND RISK ---------->				$3,657.61
Land Cost / Rent or Lease	200.00		200.00	
Water Assessment **	10.14		10.14	
Total Land Costs	210.13		210.13	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ---------->		$3,510.09		
RETURNS TO MANAGEMENT AND RISK ---------->				$3,447.48
Management Services (8% of Total Operation Expenses)			242.72	
TOTAL OWNERSHIP COST	460.83		766.16	
TOTAL COST	$3,494.83		$3,800.16	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ---------->		$3,510.09		
RETURNS TO RISK (PROFITS) ---------->				$3,204.76

Item	-- CASH COST BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		$6.14		$6.14
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		$0.93		$1.55
BREAK-EVEN PRICE TO COVER TOTAL COST		$7.07		$7.69

Table 15C. Variable Operating 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

No.	First Month	Operation	---- Hours * ---- Machine	Labor	---- Operating Costs ($/ACRE *) Per Operation ---- Fuel/Rps.	Labor	Cust/Serv.	Materials	Total	Times	Tot. Cash Expenses	Class
1	Aug	Plow	0.900	1.000	15.16	9.75			24.91	1.0	24.91	L
2	Aug	Disk	0.600	0.667	10.58	6.50			17.08	2.0	34.16	L
3	Aug	Laser Level	0.450	0.500	6.62	4.87			11.50	0.5	5.75	L
4	Aug	Soil Fertility					3.00		3.00	1.0	3.00	G
5	Aug	Apply Fert/Ground	0.090	0.100	0.71	0.97		52.32	54.01	2.0	108.02	G
6	Sep	List	0.300	0.333	2.08	3.25			5.33	1.0	5.33	L
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	H
19	Nov	Harvest, Load & Haul 494					1605.50	704.91	2310.41	1.0	2310.41	H
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 EXPENSES (includes all times over):									3034.00	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

Land Preparation (L)	285.30
Growing (G)	420.09
Harvest (H)	2,311.14
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	17.47
Total (T)	$3,034.00

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		$10.64	$12.76	$14.18	$15.60	$17.73	Break-even Price
- 25%	370.5	1,493.89	2,281.95	2,807.32	3,332.69	4,120.74	6.60
- 10%	444.6	1,935.28	2,880.94	3,511.38	4,141.83	5,087.49	6.28
Budgeted	494.0	2,229.53	3,280.27	3,980.76	4,681.25	5,731.99	6.12
+ 10%	543.4	2,523.79	3,679.60	4,450.14	5,220.68	6,376.49	5.99
+ 25%	617.5	2,965.17	4,278.59	5,154.21	6,029.82	7,343.24	5.83
Break-even Yield		119.70	88.21	75.04	65.30	54.65	

Table 15D. Resource and Cash Flow Requirements; 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

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs ($/ACRE *) Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total
AUG C			2.68		40.34	26.16	52.32		3.00	121.83
SEP C	2.0	12.0	3.70		11.45	36.07	126.23	186.03		359.78
OCT C	3.0	18.0	4.57	5.00	8.40	44.52	53.98		75.00	186.90
NOV C	1.0	6.0	1.72	5.00	3.06	16.74		704.91	1605.50	2335.22
DEC C			0.50		7.93	4.87				12.80
Pickup Use 30 Mi/Acre					7.63					7.63
Operating Interest at 10.0									9.84	9.84
Water Assessment				**						
Total	6.0	36.0	13.17	10.00	78.81	128.38	232.53	890.94	1693.34	3034.00
%				0.33	2.60	4.23	7.66	29.37	55.81	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N	172.2
Total P	288.0
Total Labor	13.2
Total Water	36.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel	37.2	Gal
Unleaded Gas	3.0	Gal
All Direct Energy	5.5	M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.60	Hr	Cultivator, Sweep, 3 Rw	1.20	Hr	Directed Spray Rig, 8	0.18	Hr
Drag Scraper, 14'	0.22	Hr	Fert. Side Dress Unit,	0.45	Hr	Fertilizer Broadcaster,	0.18	Hr
Laser, Complete System	0.22	Hr	Lister, 5 Bottom	0.30	Hr	Moldboard Plow, 4-16 2	0.90	Hr
Offset Disk, 10.5'	0.14	Hr	Offset Disk, 16.5'	1.65	Hr	Offset Disk, 8'	0.05	Hr
Pickup Truck, 1/2 Ton	1.00	Hr	Planter, Planet Jr, 4	0.60	Hr	Power Mulcher, 4 Rw	0.30	Hr
Rowbuck, 10'	0.14	Hr	Saddle Tk Sprayer, 2 Tk 8	0.15	Hr	Tractor, 50 PTO HP,	2.14	Hr
Tractor, 70 PTO HP,	1.20	Hr	Tractor, 100 PTO HP	0.15	Hr	Tractor, 100 PTO HP,	0.18	Hr
Tractor, 175 PTO HP,	2.77	Hr						

MATERIALS REQUIREMENT (per Acre)

11-48-00, Dry	600.00	Lb	32-00-00, URAN 32, Lqd	30.00	Ga	Benefin	2.00	Pt
Endosulfan	1.00	Pt	Methomyl	1.50	Pt	Permethrin	10.00	Oz
Pronamide	2.00	Lb	Spinach Seed (Hyb)	22.00	Lb	Water, District	36.00	Al
Waxed Cartons	494.00	Ct						

LABOR REQUIREMENT (per Acre)

Irrigators	6.00	Hr	Tractor	7.17	Hr

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

** 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	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

No.	First Month	Times	Operation	Equipment/ Custom Oper HP	Self-Prop./ Implement	Job Rate Acre/Hr	Material Use and Cost Name	Appl. Rate		$ / Unit		Service 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,	10.00	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	6.00	Benefin	2.00	Pt	8.69	Ga			Tractor
							Pronamide	2.00	Lb	26.27	Lb			
	Sep	3.0	Buck Rows	50	Rowbuck, 10'	20.00								Tractor
	Sep	6.0	Irrigate			1.00	Water, District	6.00	Al	3.33	AF			Irrigators
	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	10.00	Methomyl	1.50	Pt	48.94	Ga			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
							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		Waxed 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								

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

Table 15F. Operations Calendar; Spinach, 2001

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

		----------Month and Times Operation Performed ----------											
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

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

Table 16A. Income and Cash Operating Summary; 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	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 GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					119.10	_____
Tractor/Self Propelled				51.00		_____
Irrigation				58.52		_____
Other/ Contract				9.59		_____
Chemicals and Custom Applications					259.04	_____
Fertilizer				179.62		_____
Insecticide				41.24		_____
Herbicide				33.76		_____
Other Chemicals				4.42		_____
Farm Machinery and Vehicles					49.36	_____
Diesel Fuel				20.35		_____
Repairs and Maintenance				29.01		_____
Irrigation Water (excluding labor)					25.00	
Water Assessment (See Note Below) **						
Other Purchased Inputs &					574.01	_____
Seed/Transplants				20.00		_____
Other Services and Rentals				168.00		_____
Other Materials				386.02		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					1026.51	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					1116.00	_____
Other Materials					266.36	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					1382.36	_____
OPERATING OVERHEAD -> PICKUP USE					7.63	_____
OPERATING INTEREST AT 10.0%					27.84	_____
TOTAL CASH OPERATING EXPENSES					$2,444.34	_____
RETURNS OVER CASH OPERATING EXPENSES					$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 BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
TOTAL INCOME at $13.10 / Ct	$4,716.00		$4,716.00	
TOTAL OPERATING EXPENSES	$2,444.34		$2,444.34	
RETURN OVER CASH OPERATING EXPENSES		$2,271.66		$2,271.66
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	5.69		5.69	
General and Office Overhead (5.0% of Total Operating Exp.)	122.22		122.22	
General Farm Maintenance (3.0% of Total Operating Exp.)	73.33		73.33	
Total Cash Overhead Expenses	201.24		201.24	
Total Cash Operating and Overhead Cost	2,645.58		2,645.58	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		$2,070.42		$2,070.42
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			31.04	
Interest on Equity, Machinery and Vehicles			13.44	
Total Capital Allocations			44.47	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ---------->		$2,070.42		
RETURNS TO LAND, MANAGEMENT AND RISK ---------->				$2,025.95
Land Cost / Rent or Lease	200.00		200.00	
Water Assessment **	10.14		10.14	
Total Land Costs	210.13		210.13	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ---------->		$1,860.28		
RETURNS TO MANAGEMENT AND RISK ---------->				$1,815.81
Management Services (8% of Total Operation Expenses)			195.55	
TOTAL OWNERSHIP COST	411.38		651.40	
TOTAL COST	$2,855.72		$3,095.74	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ---------->		$1,860.28		
RETURNS TO RISK (PROFITS) ---------->				$1,620.26

Item	-- CASH COST BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		$6.79		$6.79
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		$1.14		$1.81
BREAK-EVEN PRICE TO COVER TOTAL COST		$7.93		$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:	Salt River Project	YIELD:	360.0 Ct / Acre	PREVIOUS CROP:	Safflower	DATE:	9/11/01

No.	First Month	Operation	---- Hours * ---- Machine	Labor	---- Operating Costs ($/ACRE *) Per Operation ---- Fuel/Rps.	Labor	Cust/Serv.	Materials	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	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	H
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 EXPENSES (includes all times over):									2444.34	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

Land Preparation (L)	112.39
Growing (G)	914.12
Harvest (H)	1,382.36
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	35.47
Total (T)	$2,444.34

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		$9.83	$11.79	$13.10	$14.41	$16.38	Break-even Price
- 25%	270.0	422.34	952.89	1,306.59	1,660.29	2,190.84	8.26
- 10%	324.0	745.54	1,382.20	1,806.64	2,231.08	2,867.74	7.52
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
+ 25%	450.0	1,499.66	2,383.91	2,973.41	3,562.91	4,447.16	6.49
Break-even Yield		199.43	150.14	128.90	112.93	95.22	

Table 16D. Resource and Cash Flow Requirements; 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

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs ($/ACRE *) Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total
FEB C	1.0	6.0	3.75		27.75	36.57	86.08	406.01	3.00	559.41
MAR C	2.0	12.0	2.73		8.75	26.60	63.65			99.00
APR C	3.0	18.0	3.04	10.00	7.41	29.61	79.70		173.99	300.71
MAY C	3.0	18.0	2.25	15.00	1.49	21.94	15.87	87.90	373.03	515.23
JUN C			0.45		3.95	4.39		178.46	747.72	934.52
Pickup Use 30 Mi/Acre					7.63					7.63
Operating Interest at 10.0									27.84	27.84
Water Assessment				**						
Total	9.0	54.0	12.22	25.00	56.98	119.11	245.30	672.37	1325.58	2444.34
%				1.02	2.33	4.87	10.04	27.51	54.23	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N	149.6
Total P	206.2
Total K	31.1
Total Labor	12.2
Total Water	54.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel	23.9	Gal
Unleaded Gas	3.0	Gal
All Direct Energy	3.7	M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 6 Rw	0.36	Hr	Cultivator, Sweep, 4 Rw	1.57	Hr	Drag Scraper, 10'	0.22 Hr
Fertilizer Broadcaster,	0.18	Hr	Fertilizer Injector, 4 Row	0.51	Hr	Flat Trailer	0.15 Hr
Laser, Complete System	0.22	Hr	Lister, 5 Bottom	0.22	Hr	Moldboard Plow, 4-16 2	0.45 Hr
Mulch Layer, 1 Rw	0.15	Hr	Offset Disk, 13.5'	0.18	Hr	Offset Disk, 18'	0.45 Hr
Pickup Truck, 1/2 Ton	1.00	Hr	Planter/Gramor, 4 Bd,6	0.36	Hr	Rowbuck, 10'	0.02 Hr
Saddle Tk Sprayer, 2 Tk 8	0.36	Hr	Tractor, 50 PTO HP,	0.02	Hr	Tractor, 70 PTO HP,	1.87 Hr
Tractor, 100 PTO HP,	1.10	Hr	Tractor, 125 PTO HP,	0.59	Hr	Tractor, 150 PTO HP,	1.13 Hr
V-Ripper, 5 Shnk	0.22	Hr					

MATERIALS REQUIREMENT (per Acre)

11-48-00, Dry	300.00	Lb	15-08-04, Lqd	70.00	Ga	Bensulide	6.00 Pt
Cantaloupe Cartons	360.00	Ct	Cantaloupe Sd	2.00	Lb	Endosulfan	3.00 Pt
Esfenvalerate	1.00	Pt	Plastic Mulch	8.80	TF	Sulfur	0.25 Lb
Water, District	54.00	Al					

LABOR REQUIREMENT (per Acre)

Irrigators	6.00	Hr	Other	0.98	Hr	Tractor	5.23 Hr

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

** 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:	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

No.	First Month	Times	Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Material Use and Cost Name	Appl. Rate		$ / Unit		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
	Feb	1.0	Plant	125 Planter/Gramor, 4 Bd,6	2.50	Cantaloupe Sd	2.00	Lb	9.46	Lb			Tractor
				Bed Shaper, 6 Rw		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		1.50	Water, District	6.00	Al	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	3.50	15-08-04, Lqd	35.00	Ga	310.00	Tn			Tractor
	Apr	2.0	Apply Insecticide/Air	CST Air Spray, 5 Gal Mix		Esfenvalerate	0.50	Pt	140.69	Ga	4.75	Ac	
						Endosulfan	1.50	Pt	33.17	Ga			
	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	100 Offset Disk, 13.5'	5.00								Tractor
			Pickup use 30 Mi/Ac	Pickup Truck, 1/2 Ton	1.00								

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

Table 16F. Operations Calendar; Spring Cantaloupe, 2001

COUNTY:	Maricopa	FARM:	Maricopa Veg	WATER SOURCE:	SRP	TILLAGE:	Double Crop
CROP:	Spring Cantaloupe	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

		----------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						

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

Table 17A. Income and Cash Operating Summary; 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

Item	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 GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					119.10	_____
Tractor/Self Propelled				51.00		_____
Irrigation				58.52		_____
Other/ Contract				9.59		_____
Chemicals and Custom Applications					259.04	_____
Fertilizer				179.62		_____
Insecticide				41.24		_____
Herbicide				33.76		_____
Other Chemicals				4.42		_____
Farm Machinery and Vehicles					49.36	_____
Diesel Fuel				20.35		_____
Repairs and Maintenance				29.01		_____
Irrigation Water (excluding labor)					25.00	
Water Assessment (See Note Below) **						
Other Purchased Inputs &					596.87	_____
Seed/Transplants				42.85		_____
Other Services and Rentals				168.00		_____
Other Materials				386.02		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					1049.36	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					2061.50	_____
Other Materials					266.36	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					2327.86	_____
OPERATING OVERHEAD -> PICKUP USE					7.63	_____
OPERATING INTEREST AT 10.0%					32.25	_____
TOTAL CASH OPERATING EXPENSES					$3,417.10	_____
RETURNS OVER CASH OPERATING EXPENSES					($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

Item	-- CASH COST BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
TOTAL INCOME at $4.97 / Ct	$3,305.05		$3,305.05	
TOTAL OPERATING EXPENSES	$3,417.10		$3,417.10	
RETURN OVER CASH OPERATING EXPENSES		($112.05)		($112.05)
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	5.69		5.69	
General and Office Overhead (5.0% of Total Operating Exp.)	170.85		170.85	
General Farm Maintenance (3.0% of Total Operating Exp.)	102.51		102.51	
Total Cash Overhead Expenses	279.06		279.06	
Total Cash Operating and Overhead Cost	3,696.16		3,696.16	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		($391.11)		($391.11)
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			31.04	
Interest on Equity, Machinery and Vehicles			13.44	
Total Capital Allocations			44.47	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ---------->		($391.11)		
RETURNS TO LAND, MANAGEMENT AND RISK ---------->				($435.58)
Land Cost / Rent or Lease	200.00		200.00	
Water Assessment **	10.14		10.14	
Total Land Costs	210.13		210.13	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ---------->		($601.25)		
RETURNS TO MANAGEMENT AND RISK ---------->				($645.72)
Management Services (8% of Total Operation Expenses)			273.37	
TOTAL OWNERSHIP COST	489.20		807.04	
TOTAL COST	$3,906.30		$4,224.14	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ---------->		($601.25)		
RETURNS TO RISK (PROFITS) ---------->				($919.09)

Item	-- CASH COST BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		$5.14		$5.14
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		$0.74		$1.21
BREAK-EVEN PRICE TO COVER TOTAL COST		$5.87		$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:	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

No.	First Month	Operation	---- Hours * ---- Machine	Labor	---- Operating Costs ($/ACRE *) Per Operation ---- Fuel/Rps.	Labor	Cust/Serv.	Materials	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	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	H
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 EXPENSES (includes all times over):									3417.10	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

Land Preparation (L)	135.25
Growing (G)	914.11
Harvest (H)	2,327.86
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	39.87
Total (T)	$3,417.10

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		$3.73	$4.47	$4.97	$5.47	$6.21	Break-even Price
- 25%	498.8	-1,103.30	-731.48	-483.60	-235.72	136.10	5.94
- 10%	598.5	-1,080.66	-634.48	-337.02	-39.57	406.61	5.53
Budgeted	665.0	-1,065.57	-569.81	-239.30	91.20	586.96	5.33
+ 10%	731.5	-1,050.47	-505.14	-141.58	221.97	767.30	5.16
+ 25%	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

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs ($/ACRE *) Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total
FEB C	1.0	6.0	3.75		27.75	36.56	86.08	428.87	3.00	582.26
MAR C	2.0	12.0	2.73		8.75	26.60	63.65			99.00
APR C	3.0	18.0	3.04	10.00	7.41	29.60	79.70		173.99	300.70
MAY C	3.0	18.0	2.25	15.00	1.49	21.94	15.87	87.90	685.05	827.25
JUN C			0.45		3.95	4.39		178.46	1381.21	1568.01
Pickup Use 30 Mi/Acre					7.63					7.63
Operating Interest at 10.0									32.25	32.25
Water Assessment				**						
Total	9.0	54.0	12.22	25.00	56.98	119.09	245.30	695.23	2275.50	3417.10
%				0.73	1.67	3.49	7.18	20.35	66.59	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N	149.6
Total P	206.2
Total K	31.1
Total Labor	12.2
Total Water	54.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel	23.9	Gal
Unleaded Gas	3.0	Gal
All Direct Energy	3.7	M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 6 Rw	0.36	Hr	Cultivator, Sweep, 4 Rw	1.57	Hr	Drag Scraper, 10'	0.22 Hr
Fertilizer Broadcaster,	0.18	Hr	Fertilizer Injector, 4 Row	0.51	Hr	Flat Trailer	0.15 Hr
Laser, Complete System	0.22	Hr	Lister, 5 Bottom	0.22	Hr	Moldboard Plow, 4-16 2	0.45 Hr
Mulch Layer, 1 Rw	0.15	Hr	Offset Disk, 13.5'	0.18	Hr	Offset Disk, 18'	0.45 Hr
Pickup Truck, 1/2 Ton	1.00	Hr	Planter/Gramor, 4 Bd,6	0.36	Hr	Rowbuck, 10'	0.02 Hr
Saddle Tk Sprayer, 2 Tk 8	0.36	Hr	Tractor, 50 PTO HP,	0.02	Hr	Tractor, 70 PTO HP,	1.87 Hr
Tractor, 100 PTO HP,	1.10	Hr	Tractor, 125 PTO HP,	0.59	Hr	Tractor, 150 PTO HP,	1.13 Hr
V-Ripper, 5 Shnk	0.22	Hr					

MATERIALS REQUIREMENT (per Acre)

11-48-00, Dry	300.00	Lb	15-08-04, Lqd	70.00	Ga	Bensulide	6.00 Pt
Cantaloupe Cartons	360.00	Ct	Endosulfan	3.00	Pt	Esfenvalerate	1.00 Pt
Honeydew Seeds	2.00	Th	Plastic Mulch	8.80	TF	Sulfur	0.25 Lb
Water, District	54.00	Al					

LABOR REQUIREMENT (per Acre)

Irrigators	6.00	Hr	Other	0.98	Hr	Tractor	5.23 Hr

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

** 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	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

First No.	Month	Times	Operation	Equipment/ Custom Oper HP	Self-Prop./ Implement	Job Rate Acre/Hr	Material Use and Cost Name	Appl. Rate		$ / Unit		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
	Feb	1.0	Plant	125	Planter/Gramor, 4 Bd,6	2.50	Honeydew Seeds	2.00	Th	20.27	Th			Tractor
					Bed Shaper, 6 Rw		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			1.50	Water, District	6.00	Al	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	3.50	15-08-04, Lqd	35.00	Ga	310.00	Tn			Tractor
	Apr	2.0	Apply Insecticide/Air		CST Air Spray, 5 Gal Mix		Esfenvalerate	0.50	Pt	140.69	Ga	4.75	Ac	
							Endosulfan	1.50	Pt	33.17	Ga			
	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	100	Offset Disk, 13.5'	5.00								Tractor
			Pickup use 30 Mi/Ac		Pickup Truck, 1/2 Ton	1.00								

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

Table 17F. Operations Calendar; Spring Honeydew, 2001

COUNTY:	Maricopa	FARM:	Maricopa Veg	WATER SOURCE:	SRP	TILLAGE:	Double Crop
CROP:	Spring Honeydew	ACRES:	1.0	IRRIGATION SYSTEM:	Flood Furrow	SOIL:	Sandy-Loam
AREA:	Salt River Project	YIELD:	665 Ct./Acre	PREVIOUS CROP:	Safflower	DATE:	09/17/2001

		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						

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

Table 18A. Income and Cash Operating Summary; 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

Item	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 GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					99.14	_____
Tractor/Self Propelled				29.08		_____
Irrigation				70.06		_____
Chemicals and Custom Applications					133.71	_____
Fertilizer				66.41		_____
Insecticide				67.30		_____
Farm Machinery and Vehicles					27.68	_____
Diesel Fuel				11.50		_____
Repairs and Maintenance				16.17		_____
Irrigation Water (excluding labor)					10.00	
Water Assessment (See Note Below) **						
Other Purchased Inputs &					107.81	_____
Seed/Transplants				107.81		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					378.34	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					302.20	_____
Tractor/Self Propelled				97.48		_____
Other/Contract				204.72		_____
Farm Machinery and Vehicles					63.49	_____
Diesel Fuel				18.91		_____
Repairs and Maintenance				44.58		_____
Other Materials					378.83	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					744.52	_____
OPERATING OVERHEAD -> PICKUP USE					5.08	_____
OPERATING INTEREST AT 10.0%					4.11	_____
TOTAL CASH OPERATING EXPENSES					$1,132.06	_____
RETURNS OVER CASH OPERATING EXPENSES					$681.00	_____

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

Item	-- CASH COST BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
TOTAL INCOME at $5.38 / Ct	$1,813.06		$1,813.06	
TOTAL OPERATING EXPENSES	$1,132.06		$1,132.06	
RETURN OVER CASH OPERATING EXPENSES		$681.00		$681.00
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	8.35		8.35	
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		$582.08		$582.08
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			55.39	
Interest on Equity, Machinery and Vehicles			23.05	
Total Capital Allocations			78.44	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ---------->		$582.08		
RETURNS TO LAND, MANAGEMENT AND RISK ---------->				$503.64
Land Cost / Rent or Lease	200.00		200.00	
Water Assessment **	20.27		20.27	
Total Land Costs	220.27		220.27	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ---------->		$361.81		
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 ---------->		$361.81		
RETURNS TO RISK (PROFITS) ---------->				$192.81

Item	-- CASH COST BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		$3.36		$3.36
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		$0.95		$1.45
BREAK-EVEN PRICE TO COVER TOTAL COST		$4.31		$4.81

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:	Salt River Project	YIELD:	337.0 Ct / Acre	PREVIOUS CROP:	Sorghum Silage	DATE:	9/11/01

No.	First Month	Operation	---- Hours * ---- Machine	Labor	---- Operating Costs ($/ACRE *) Per Operation ---- Fuel/Rps.	Labor	Cust/Serv.	Materials	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	H
14	May	Unload Produce		1.000		9.75			9.75	1.0	9.75	H
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 EXPENSES (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

Land Preparation (L)	137.68
Growing (G)	240.66
Harvest (H)	744.52
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	9.19
Total (T)	$1,132.05

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	Break-even Price
Yields		$4.03	$4.84	$5.38	$5.92	$6.73	
- 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 Yield		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:	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

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs ($/ACRE *) Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total
FEB C	1.0	8.0	2.64		10.24	25.71	34.88			70.83
MAR C	2.0	8.0	12.93		11.71	28.59	31.53	107.81		179.64
APR C	2.0	8.0	1.90		2.24	18.52	6.47		4.75	31.98
MAY C	3.0	12.0	33.45	10.00	63.68	326.09	32.33	378.83	23.75	834.68
JUN C			0.25		3.30	2.44				5.74
Pickup Use 20 Mi/Acre					5.08					5.08
Operating Interest at 10.0									4.11	4.11
Water Assessment				**						
Total	8.0	36.0	51.17	10.00	96.25	401.35	105.21	486.64	32.61	1132.06
%				0.88	8.50	35.45	9.29	42.99	2.88	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N	123.2
Total P	96.0
Total Labor	51.2
Total Water	36.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel	35.7	Gal
Unleaded Gas	2.0	Gal
All Direct Energy	5.2	M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Fert. Side Dress Unit,	0.30	Hr	Fertilizer Broadcaster,	0.09	Hr	Lister, 5 Bottom	0.22 Hr
Offset Disk, 13.5'	0.67	Hr	Pickup Truck, 1/2 Ton	0.67	Hr	Planter, Drill Type, 4 Row	0.36 Hr
Rolling Cultivator, 4 Rw	0.54	Hr	Rowbuck, 10'	0.27	Hr	Tractor, 50 PTO HP,	9.57 Hr
Tractor, 100 PTO HP,	1.44	Hr	Tractor, 150 PTO HP,	0.67	Hr	V-Ripper, 5 Shnk	0.22 Hr
Vegetable Trailer Flat Bed	9.00	Hr					

MATERIALS REQUIREMENT (per Acre)

11-48-00, Dry	200.00	Lb	46-00-00, Urea 46	220.00	Lb	Methomyl	6.00 Pt
Sweet Corn Seed + Fung.	12.00	Lb	Water, District	36.00	Al	Wirebound Crates	224.00 Ct

LABOR REQUIREMENT (per Acre)

Irrigators	7.19	Hr	Other	21.00	Hr	Tractor	12.98 Hr

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

** 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

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

No.	First Month	Times	Operation	Equipment/ Custom Oper HP	Self-Prop./ Implement	Job Rate	Material Use and Cost Name	Appl. Rate		$ / Unit		Service Cost	Labor
	Feb	1.0	Rip	150	V-Ripper, 5 Shnk	4.00							Tractor
	Feb	1.0	Disk	150	Offset Disk, 13.5'	4.00							Tractor
	Feb	1.0	Apply Fert/Ground	100	Fertilizer Broadcaster,	10.00	11-48-00, Dry	200.00	Lb	330.00	Tn		Tractor
	Feb	1.0	List	100	Lister, 5 Bottom	4.00							Tractor
	Feb	5.0	Disk Ends	100	Offset Disk, 13.5'	20.00							Tractor
	Feb	6.0	Buck Rows	50	Rowbuck, 10'	20.00							Tractor
	Feb	1.0	Preirrigate			0.63	Water, District	8.00	Al	0.00	AF		Irrigators
	Mar	1.0	Plant	100	Planter, Drill Type, 4 Row	2.50	Sweet Corn Seed +	12.00	Lb	8.50	Lb		Tractor
	Mar	3.0	Cultivate	100	Rolling Cultivator, 4 Rw	5.00							Tractor
	Mar	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
	Mar	7.0	Irrigate			1.25	Water, District	4.00	Al	4.29	AF		Irrigators
	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 Crates	224.00	Ct	1.60	Ct		Tractor
													Other
	May	1.0	Unload Produce			1.00							Other
	Jun	1.0	Disk Residue	150	Offset Disk, 13.5'	4.00							Tractor
			Pickup use 20 Mi/Ac		Pickup Truck, 1/2 Ton	1.50							

*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

		----------Month and Times Operation Performed ----------											
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						

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

Table 19A. Income and Cash Operating Summary; 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
AREA:	Roosevelt WCD	YIELD:	16.3 Tn / Acre	PREVIOUS CROP:	Wheat, Winter	DATE:	9/11/01

Item	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 GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					190.86	_____
Tractor/Self Propelled				43.96		_____
Hand				76.69		_____
Irrigation				63.72		_____
Other/ Contract				6.50		_____
Chemicals and Custom Applications					160.08	_____
Fertilizer				75.88		_____
Insecticide				41.68		_____
Herbicide				16.88		_____
Other Chemicals				25.64		_____
Farm Machinery and Vehicles					45.12	_____
Diesel Fuel				17.15		_____
Gasoline				1.82		_____
Repairs and Maintenance				26.15		_____
Irrigation Water (excluding labor)					75.00	
Water Assessment (See Note Below) **						
Other Purchased Inputs &					811.97	_____
Seed/Transplants				332.96		_____
Other Services and Rentals				93.00		_____
Other Materials				386.02		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					1283.03	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					201.83	_____
Tractor/Self Propelled				116.98		_____
Other/Contract				84.85		_____
Farm Machinery and Vehicles					91.77	_____
Diesel Fuel				34.50		_____
Repairs and Maintenance				57.26		_____
TOTAL HARVEST AND POST HARVEST EXPENSE					293.60	_____
OPERATING OVERHEAD -> PICKUP USE					15.25	_____
OPERATING INTEREST AT 10.0%					35.64	_____
TOTAL CASH OPERATING EXPENSES					$1,627.53	_____
RETURNS OVER CASH OPERATING EXPENSES					$680.55	_____

Notes: The above figures do not include ownership costs, see table B for detailed cost allocation.
** 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
CROP:	Watermelons	ACRES:	1.0	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 BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
TOTAL INCOME at $141.60 / Tn	$2,308.08		$2,308.08	
TOTAL OPERATING EXPENSES	$1,627.53		$1,627.53	
RETURN OVER CASH OPERATING EXPENSES		$680.55		$680.55
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	11.36		11.36	
General and Office Overhead (5.0% of Total Operating Exp.)	81.38		81.38	
General Farm Maintenance (3.0% of Total Operating Exp.)	48.83		48.83	
Total Cash Overhead Expenses	141.56		141.56	
Total Cash Operating and Overhead Cost	1,769.09		1,769.09	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		$538.99		$538.99
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			70.19	
Interest on Equity, Machinery and Vehicles			19.27	
Total Capital Allocations			89.46	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ---------->		$538.99		
RETURNS TO LAND, MANAGEMENT AND RISK ---------->				$449.53
Land Cost / Rent or Lease	200.00		200.00	
Water Assessment **	17.00		17.00	
Total Land Costs	217.00		217.00	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ---------->		$321.99		
RETURNS TO MANAGEMENT AND RISK ---------->				$232.53
Management Services (8% of Total Operation Expenses)			130.20	
TOTAL OWNERSHIP COST	358.56		578.22	
TOTAL COST	$1,986.09		$2,205.75	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ---------->		$321.99		
RETURNS TO RISK (PROFITS) ---------->				$102.33

Item	-- CASH COST BASIS ($/ACRE) -- Income and Costs	Net Returns	-- TOTAL COST BASIS ($/ACRE) -- Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		$99.85		$99.85
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		$22.00		$35.47
BREAK-EVEN PRICE TO COVER TOTAL COST		$121.85		$135.32

Table 19C. Variable Operating Costs; 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
AREA:	Roosevelt WCD	YIELD:	16.3 Tn / Acre	PREVIOUS CROP:	Wheat, Winter	DATE:	9/11/01

No.	First Month	Operation	---- Hours * ---- Machine	Labor	---- Operating Costs ($/ACRE *) Per Operation ---- Fuel/Rps.	Labor	Cust/Serv.	Materials	Total	Times	Tot. Cash	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	H
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 EXPENSES (includes all times over):									1627.53	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 $17.00 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS

Land Preparation (L)	395.95
Growing (G)	887.09
Harvest (H)	293.60
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	50.89
Total (T)	$1,627.53

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		$106.20	$127.44	$141.60	$155.76	$177.00	Break-even Price
- 25%	12.2	-229.69	29.97	203.08	376.18	635.84	124.99
- 10%	14.7	-14.07	297.52	505.25	712.98	1,024.57	107.16
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	90.95
Break-even Yield		14.83	11.95	10.58	9.49	8.23	

Table 19D. Resource and Cash Flow Requirements; 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
AREA:	Roosevelt WCD	YIELD:	16.3 Tn / Acre	PREVIOUS CROP:	Wheat, Winter	DATE:	9/11/01

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs ($/ACRE *) Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total
DEC P			1.33		17.89	12.99	16.88			47.76
JAN C			1.38		6.44	13.48	32.37	718.97	3.00	774.26
FEB C	3.0	18.0	2.10	22.50	0.68	20.48				43.66
MAR C	3.0	18.0	3.06	22.50	5.81	29.79			75.00	133.10
APR C	2.0	8.0	6.76	10.00	8.14	55.45	77.01		23.99	174.59
MAY C	2.0	10.0	6.17	12.50	2.73	49.72	20.08		4.75	89.78
JUN C	1.0	6.0	24.67	7.50	91.77	208.35				307.62
JUL C			0.25		3.43	2.44				5.87
Pickup Use 60 Mi/Acre					15.25					15.25
Operating Interest at 10.0									35.64	35.64
Water Assessment				**						
Total	11.0	60.0	45.71	75.00	152.14	392.70	146.34	718.97	142.38	1629.05
%				4.61	9.35	24.13	8.99	44.18	8.75	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N	188.7
Total P	115.0
Total Labor	45.7
Total Water	60.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel	60.7	Gal
Unleaded Gas	7.4	Gal
All Direct Energy	9.4	M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Crew Bus, 44 Passenger	0.20	Hr	Cultivator, Sweep, 4 Rw	1.03	Hr	Drag Scraper, 14'	0.22 Hr
Fert. Side Dress Unit,	0.60	Hr	Flat Trailer	0.15	Hr	Laser, Complete System	0.22 Hr
Lister, 5 Bottom	0.30	Hr	Mulch Layer, 1 Rw	0.15	Hr	Offset Disk, 13.5'	0.18 Hr
Offset Disk, 16.5'	0.67	Hr	Pickup Truck, 1/2 Ton	2.00	Hr	Rowbuck, 10'	0.23 Hr
Saddle Tk Sprayer, 2 Tk 8	0.30	Hr	Tractor, 50 PTO HP,	0.83	Hr	Tractor, 70 PTO HP	10.80 Hr
Tractor, 70 PTO HP,	1.63	Hr	Tractor, 100 PTO HP,	0.48	Hr	Tractor, 150 PTO HP,	0.22 Hr
Tractor, 175 PTO HP,	0.90	Hr	Transplanter, Veg, 4Row	0.30	Hr	V-Ripper, 5 Shnk	0.22 Hr
Vegetable Trailer, Custom	10.80	Hr					

MATERIALS REQUIREMENT (per Acre)

18-46-00, Dry	250.00	Lb	32-00-00, URAN 32, Lqd	12.00	Ga	46-00-00, Urea 46	220.00 Lb
Benomyl	1.00	Lb	Bensulide	3.00	Pt	Endosulfan	3.00 Pt
Esfenvalerate	16.00	Oz	Plastic Mulch	8.80	TF	Water, District	60.00 Al
Watermelon Transplant	9.00	Th					

LABOR REQUIREMENT (per Acre)

Hand Weeders	10.00	Hr	Irrigators	6.54	Hr	Loader/Watermelons	12.00 Hr
Other	0.67	Hr	Tractor	16.51	Hr		

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

** 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
AREA:	Roosevelt WCD	YIELD:	16.3 Tn / Acre	PREVIOUS CROP:	Wheat, Winter	DATE:	9/11/01

First No.	Month	Times	Operation	Equipment/ Custom Oper HP	Self-Prop./ Implement	Job Rate Acre/Hr	Material Use and Cost Name	Appl. Rate		$ / Unit		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'	2.00								Tractor
					Laser, Complete System									
	Dec	1.0	List	100	Lister, 5 Bottom	3.00	Bensulide	3.00	Pt	42.58	Ga			Tractor
					Saddle Tk Sprayer, 2 Tk 8 Row									
	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	Al	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	Al	15.00	AF			Irrigators
							32-00-00, URAN 32,	4.00	Ga	170.80	Tn			
	Apr	2.0	Apply Insecticide/Air	CST	Air Spray, 5 Gal Mix		Esfenvalerate	8.00	Oz	144.04	Ga	4.75	Ac	
							Endosulfan	1.50	Pt	33.17	Ga			
	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								

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

Table 19F. Operations Calendar; Watermelons, 2001

COUNTY:	Maricopa	FARM:	Maricopa Veg	WATER SOURCE:	Roosevelt WCD	TILLAGE:	Conventional
CROP:	Watermelons	ACRES:	1.0	IRRIGATION SYSTEM:	Flood Furrow	SOIL:	Sandy-Loam
AREA:	Roosevelt WCD	YIELD:	16.3 Tn/Acre	PREVIOUS CROP:	Wheat, Winter	DATE:	09/17/2001

		----------Month and Times Operation Performed ----------											
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: 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	Energy	Price	Pump Lift (Ft)	Pump Rate (GPM)	Case Diam (in)	Depth (Ft)	Overall Pump Efficiency	Well Cost	Ownership Cost ($/Yr)	Annual Pump (AF)	Cost of Pumping Irrig Water: Fixed /AF	Variable Cost/AF: Energy	Repairs	P Tax	Total	TOTAL COST /AF
Maricopa County																
AGUILA	Diesel	$0.84080 /Gal	545	1,800	16	1,800	0.188	$320,174	$32,144	1,432	$22.45	$59.14	$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	$90.25	$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	$50.68	$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	$115.71	$8.65	$2.75	$127.11	$144.59
GILA BEND	Diesel	$0.84080 /Gal	310	2,950	20	600	0.188	$178,153	$19,481	2,347	$8.30	$33.64	$4.32		$37.96	$46.26
GILA BEND	Electric	$0.02854 /Kwh	310	2,950	20	600	0.540	$124,848	$12,832	2,347	$5.47	$16.78	$3.72		$20.50	$25.97
GILA BEND	Nat. Gas	$0.42097 /Th	310	2,950	20	600	0.154	$204,228	$22,805	2,347	$9.72	$28.78	$4.32		$33.10	$42.81
HARQUAHALA VALLEY	Diesel	$0.84080 /Gal	600	1,650	16	1,800	0.188	$304,609	$31,844	1,313	$24.25	$65.11	$8.36		$73.47	$97.72
HARQUAHALA VALLEY	Electric	$0.08402 /Kwh	600	1,650	16	1,800	0.540	$236,482	$23,594	1,313	$17.97	$95.59	$7.21		$102.80	$120.77
HARQUAHALA VALLEY	Nat. Gas	$0.42080 /Th	600	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	Diesel	$0.84080 /Gal	600	1,000	16	1,200	0.188	$179,901	$18,733	795	$23.56	$65.11	$8.36	$2.75	$76.22	$99.78
QUEEN CREEK	Electric	$0.08446 /Kwh	600	1,000	16	1,200	0.540	$148,883	$14,620	795	$18.39	$96.09	$7.21	$2.75	$106.05	$124.44
QUEEN CREEK	Nat. Gas	$0.42219 /Th	600	1,000	16	1,200	0.154	$229,692	$24,590	795	$30.93	$55.86	$8.36	$2.75	$66.97	$97.90
RAINBOW VALLEY	Diesel	$0.84080 /Gal	495	1,750	16	1,000	0.188	$193,737	$21,390	1,392	$15.37	$53.71	$6.89	$2.75	$63.36	$78.73
RAINBOW VALLEY	Electric	$0.08590 /Kwh	495	1,750	16	1,000	0.540	$152,870	$16,125	1,392	$11.58	$80.64	$5.94	$2.75	$89.33	$100.92
RAINBOW VALLEY	Nat. Gas	$0.42110 /Th	495	1,750	16	1,000	0.154	$246,266	$27,574	1,392	$19.81	$45.97	$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	$60.65	$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	$34.82	$5.22	$2.75	$42.79	$56.19

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

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

Table A.3 Wage Rates in Central Arizona, 2001

Labor Group	Unit	2001 Rate
Contract Labor	Hr	$7.50
Hand Weeders	Hr	$5.50
Harvest Operators	Hr	$7.50
Irrigators	Hr	$5.50
Tractor Operators	Hr	$6.72
Other	Hr	$6.72

Table A.4 Maricopa Property Taxes, 2000/2001

State Code	Area Description	2000 Primary	2000 Secondary	2000 Total
Maricopa County (07) Property Taxes, Vegetable Crops				
4800	Scottsdale	$5.8933	$2.2929	$8.1862
7900	Litchfield Park	$7.3361	$12.4146	$19.7507
1100	Peoria Outside	$6.4990	$7.9200	$14.4190
	Waddell/Peoria	**$6.9176**	**$10.1673**	**$17.0849**
Vegetable 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
756	Western Meadows	$172.9950
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			
0-0-12 LQD	0-0-12 LQD	$55.00	/ Tn	$55.00
7.5-26-0-8 LQD	7.5-26-0-8 LQD	$260.00	/ Tn	$260.00
00-45-00, TREBLE SUPER	00-45-00, TREBLE SUPER	$317.50	/ Tn	$260.00
00-52-00 LQD	00-52-00 LQD	$317.00	/ Tn	$299.50
05-26-00-08 PHOSFURIC	05-26-00-08 PHOSFURIC	$290.00	/ Tn	$290.00
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
Benefin	BALAN, 1.5EC, 2.5 GAL	$14.95	/ Ga	$8.69
Dicamba	BANVEL, 4E, 1 GAL	$85.76	/ Ga	$97.06
Cyanazine	BLADEX, 4L, 2.5 GAL	$25.26	/ Ga	$31.25
Bromoxynil	BRONCO, 2.6/1.4L, 2.5 GAL	$52.93	/ Ga	$53.30
Bromoxynil	BUCTRIL, 4E, 2,5 GAL	$67.93	/ Ga	$105.81
Prometryn	CAPAROL, 4L, 2.5 GAL	$30.00	/ Ga	$29.63
2,4-d	D - 2,4-D AMINE, 4E, 1 GAL	$11.71	/ Ga	$15.15
Metolachlor	DUAL, 8E, 2.5 GAL	$0.00	/ Ga	$82.50
Metolachlor	DUAL, 8E, 30 GAL	$60.84	/ Ga	$65.23
EPTC	EPTAM, 7E, 5 GAL	$26.08	/ Ga	$34.09
Fluazifop	FUSILADE, 2000 (1E)	$120.00	/ Ga	$125.00
Diclofop Methyl	HOELON, 3EC, 5 GAL	$55.54	/ Ga	$67.75
Pronamide	KERB, 50W, 3LB	$22.75	/ Lb	$26.27
MSMA	BUENO 6	$0.00	/ Ga	$20.60
MSMA	MSMA ANY BRAND, 6S, 5 GAL	$18.33	/ Ga	$18.00
Bensulide	PREFAR, 4E, 5 GAL	$38.12	/ Ga	$42.58
Pendimethalin	PROWL, 4E, 5 GAL	$27.52	/ Ga	$22.23
Pyritiodac-sodium	STAPLE Oz.	$23.00	/ Oz	$24.72
Butylate	SUTAN+, 6.7E, 2.5 GAL	$17.98	/ Ga	$18.75
Trifluralin	TREFLAN, 4E, 30 GAL	$0.00	/ Ga	$24.95
Trifluralin	TREFLAN, 4E, 2.5 GAL	$29.75	/ Ga	$21.15
Trifluralin	TREFLAN, TR10, 50 LB	$0.00	/ Ga	$0.85
Glyphosate	ROUNDUP, 4S, 2.5 GAL	$44.00	/ Ga	$42.00
Glyphosate	ROUND UP ULTRA	$0.00	/ Ga	$47.20
Thiazopyr	VISOR	$0.00	/ Ga	$241.81

Table B.1 Prices of Materials Used

Common Name	Example Trade Name	1998 Price		2001 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
Chlorpyrifos	LORSBAN, 4E, 2.5 GAL	$50.95	/ Ga	$47.21
Malathion	MALATHION, 5S, 2.5 GAL	$20.00	/ Ga	$21.50
Malathion	MALATHION, 8E, 5 GAL	$30.73	/ Ga	$31.69
Methamidophos	MONITOR, 4L, 2 GAL	$76.50	/ Ga	$77.00
Methamidophos	MONITOR, 4L, 5 GAL	$86.48	/ Ga	$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

Table B.1 Prices of Materials Used

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

Table B.1 Prices of Materials Used

Common Name	Example Trade Name	1998 Price	2001 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	$1.00
Corn Sacks 5 Dz Cap	Corn Sacks 5 Dz Cap	$0.49 / Sk	$0.84
Lettuce Cartons	Lettuce Cartons	$1.00 / Ct	$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 Sd (OP)	$16.75 / Lb	$17.13
Cabbage Seed (Hybrid)	Cabbage Seed (Hybrid)	$2.54 / Th	$2.89
Cantaloupe Sd (Hybrid)	Cantaloupe Sd (Hybrid)	$9.46 / Lb	$9.90
Carrot Seed (Raw/Hybrid)	Carrot Seed (Raw/Hybrid)	$0.22 / Th	$0.25
Cauliflower Sd (Hyb)	Cauliflower Sd (Hyb)	$4.80 / Th	$5.10
Cauliflower Seed	Cauliflower Seed	$61.67 / Lb	$71.67
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	$1.07
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	$0.77
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	$61.33
Onion Seed (Pelletized)	Onion Seed (Pelletized)	$0.87 / Th	$0.87
Parsley Seed	Parsley Seed	$11.83 / Lb	$12.67
Pickling Cucumber (Hyb)	Pickling Cucumber (Hyb)	$19.48 / Lb	$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	$5.75
Rappini Seed	Rappini Seed	$16.50 / Lb	$19.00
Slicer Cucumber (Hyb)	Slicer Cucumber (Hyb)	$44.67 / Lb	$44.67
Snap Bean Seed	Snap Bean Seed	$2.55 / Lb	$2.55
Spinach Seed (Hyb)	Spinach Seed (Hyb)	$2.84 / Lb	$2.84
Summer Squash	Summer Squash	$38.14 / Lb	$38.14
Sweet Corn (Super Sweets)	Sweet Corn (Super Sweets)	$9.21 / Lb	$9.21
Sweet Corn Seed	Sweet Corn Seed	$7.58 / Lb	$7.58
Sweet Corn Seed + Fung.	Sweet Corn Seed + Fung.	$8.50 / Lb	$8.50
Sweet Potato Slips	Sweet Potato Slips	$20.00 / Th	$20.00
Tomato Seed (Hybrid)	Tomato Seed (Hybrid)	$10.34 / Th	$10.09
Turnip Sd (Hyb)	Turnip Sd (Hyb)	$25.17 / Lb	$25.17
Turnip Seed (OP)	Turnip Seed (OP)	$4.75 / Lb	$4.75
Watermelon Seed (Hyb)	Watermelon Seed (Hyb)	$30.26 / Th	$31.58
Watermelon Seed (OP)	Watermelon Seed (OP)	$27.70 / Th	$27.70
Watermelon, Seedless	Watermelon, Seedless	$186.00 / Lb	$189.00
Zucchini Seed (Hybrid)	Zucchini Seed (Hybrid)	$50.00 / Lb	$47.01

Table B.2 Cost Data for Equipment and Implements

Name	New Price	Hrs to Wearout	Annual Hours	Dollar Cost per Hour of Use					
				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	16,000	1200	$5.39	$4.74	$1.13	$5.33	$7.24	$23.83
Tractor, 200 PTO HP, 4WD	$119,274	16,000	2000	$4.85	$3.41	$0.80	$5.73	$8.99	$23.79
Tractor, 85 hp "MUDDER"	$42,913	12,000	1200	$2.52	$1.95	$0.46	$3.60	$3.73	$12.27
Tractor, 235 Eng HP, Art.	$118,900	16,000	2000	$4.84	$3.40	$0.80	$5.71	$7.87	$22.62
Tractor, 300 Eng HP, Art.	$134,560	16,000	2000	$5.48	$3.85	$0.91	$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	$4.61	$93.45
Cotton Stripper, 4Rw PSB PC	$122,138	3,000	500	$28.19	$13.90	$3.19	$32.35	$5.53	$83.18
Forage Harv,SP RC 3.0 PSB FC	$173,618	4,000	400	$36.24	$21.68	$5.06	$20.83	$4.19	$88.00
Forage Harv,SP SB 14.0 PSB FC	$208,616	4,000	300	$46.43	$32.73	$7.72	$25.03	$4.19	$116.10
Windrower, 14.0', HS, SC	$62,738	3,000	300	$17.46	$10.44	$2.44	$11.29	$2.93	$44.57
Lettuce Harvester, 12Rw	$89,000	12,000	1000	$6.32	$4.34	$1.02	$64.08	$3.82	$79.58
Cauliflower Harvester, 18 Row	$105,000	12,000	1000	$7.46	$5.12	$1.21	$75.60	$3.82	$93.20
Chili Harvester, SP 2 Row	$125,000	4,000	1000	$18.98	$7.72	$1.74	$30.00	$3.73	$62.18
Chili Harvester, SP 2 Row	$125,000	4,000	1000	$18.98	$7.72	$1.74	$30.00	$3.82	$62.27
Chili Harvester, SP 4 Row	$188,000	4,000	1000	$28.55	$11.61	$2.62	$45.12	$4.05	$91.95
Nut Harvester, w/4' Head	$29,500	4,000	400	$5.98	$3.75	$0.88	$7.08	$3.47	$21.15
Catch Frame Harvester	$133,493	4,000	400	$27.08	$16.95	$3.97	$32.04	$2.52	$82.55
Tree Shaker, SP 7'	$80,157	4,000	400	$16.26	$10.18	$2.38	$19.24	$2.52	$50.57
Sweeper, 7.5' w/30 HP Wisc	$33,400	4,000	400	$6.77	$4.24	$0.99	$8.02	$2.18	$22.20
Trucks									
Pickup Truck, Mini	$14,703	3,000	600	$4.17	$1.29	$0.70	$2.95	$2.67	$11.79
Pickup Truck, 1/2 Ton	$17,860	4,000	600	$3.80	$1.52	$0.86	$3.69	$4.00	$13.87
Pickup Truck, 3/4 Ton	$21,212	4,000	600	$4.51	$1.81	$1.02	$4.39	$4.67	$16.39
Pickup Truck, 3/4 Ton 4WD	$23,169	5,500	600	$3.58	$1.92	$1.11	$4.95	$5.34	$16.89
Pickup Truck, 1 Ton	$22,875	5,500	600	$3.54	$1.90	$1.10	$4.88	$7.34	$18.75
Truck, 5 Ton w/1000 Gal Tank	$39,638	5,500	600	$6.13	$3.28	$1.90	$8.46	$9.34	$29.11
Truck, 5 Ton, Grain	$48,138	5,500	600	$7.44	$3.99	$2.31	$10.28	$9.34	$33.35
Crew Bus, 44 Passenger	$54,638	5,500	600	$8.44	$4.53	$2.62	$11.66	$9.34	$36.59
Truck, Module Hauler	$144,955	5,500	1000	$22.40	$7.56	$4.17	$30.94	$5.03	$70.11
Truck, Mixer/Feeder w/Scales	$41,524	12,000	1000	$2.94	$2.03	$0.48	$3.49	$5.03	$13.96

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

Table B.2 Cost Data for Equipment and Implements

Name	New Price	Hrs to Wearout	Annual Hours	Dollar Cost per Hour of Use					
				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	$8,250	1,500	200	$4.27	$2.19	$0.51	$3.82		$10.78
Manual Spray Rig, 150 g on ski	$2,400	1,500	200	$1.24	$0.64	$0.15	$1.11		$3.14
Sprayer, Air Blast 500 GAL ENG	$51,000	2,000	500	$16.74	$6.15	$1.37	$15.46	$4.67	$44.39
Sprayer, Air Blast 500 GAL PTO	$14,818	2,000	500	$4.86	$1.79	$0.40	$4.49		$11.54
Spraycab	$12,000	3,000	500	$2.85	$1.35	$0.31	$0.25		$4.76
Trailed Harvest Equipment									
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
Drag Scraper, 14'	$5,127	2,500	130	$1.93	$1.75	$0.42	$1.08		$5.18
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									
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	$2,551	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	$0.82	$4.09		$14.18
Dbl. Offset Disk, 13'	$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									
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	$0.23	$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
Cultivator, Sweep, 6 Rw	$6,527	2,000	250	$2.53	$1.38	$0.32	$2.33		$6.55
Cultivator, 6 Row	$6,100	2,000	250	$2.36	$1.29	$0.30	$2.17		$6.12
Spring Tooth Revovator, 16'	$7,497	2,000	200	$3.09	$1.89	$0.44	$2.67		$8.09

Table B.2 Cost Data for Equipment and Implements

Name	New Price	Hrs to Wearout	Annual Hours	Dollar Cost per Hour of Use					
				Deprec	Opp. Int.	THI	Repairs	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	$6,628	2,000	200	$2.73	$1.67	$0.39	$3.35		$8.14
Mulch Layer, 1 Rw	$1,225	2,500	200	$0.43	$0.29	$0.07	$1.10		$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	$12,704	2,000	110	$5.94	$5.16	$1.23	$2.50		$14.83
Root Cutter-Puller, 2 Rw	$4,005	2,000	250	$1.55	$0.85	$0.20	$1.22		$3.81
Root Cutter-Puller, 4 Rw	$6,190	2,000	250	$2.40	$1.31	$0.30	$1.88		$5.89
Root Cutter-Puller, 6 Row	$8,734	2,000	250	$3.38	$1.85	$0.43	$2.65		$8.31
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									
Air Planter 8 Row	$30,000	1,500	300.00	$13.49	$5.84	$3.32	$15.00		$37.64
Seeder, Broadcast	$15,643	1,500	80.00	$9.80	$8.69	$5.19	$13.20		$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	$32,000	1,500	120.00	$18.55	$12.80	$7.54	$16.00		$54.89
Planter, Potato 3 Comp. 6 Row	$43,000	1,500	120.00	$24.93	$17.20	$10.13	$21.49		$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	$5,129	2,000	200	$2.11	$1.29	$0.30	$1.89		$5.60
Rotary Stalk Cutter, 4 Rw	$9,152	2,000	200	$3.77	$2.30	$0.54	$3.38		$9.99
Row Crop Shredder, 4 Row	$12,600	2,000	200	$5.19	$3.17	$0.74	$4.66		$13.76
Rotary Mower, Offset 10.7'	$8,007	2,000	200	$3.30	$2.02	$0.47	$7.05		$12.83
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	$3.15		$9.27
Bin Trailer	$1,275	3,000	200	$0.38	$0.29	$0.07	$0.34		$1.09
Cattle Trailer, Gooseneck	$3,012	3,000	500	$0.71	$0.34	$0.08	$0.80		$1.93
Vineyard Tiller 8'	$13,500	2,000	200	$5.56	$3.40	$0.79	$4.99		$14.74
Vineyard Tiller 6'	$9,142	2,000	200	$3.76	$2.30	$0.54	$3.38		$9.98
Orchard Trimmer Heavy Duty	$147,300	3,000	300	$41.00	$24.52	$5.72	$99.32	$3.86	$174.43
Orchard Trimmer Mid Range	$89,030	3,000	300	$24.78	$14.82	$3.46	$60.03	$3.86	$106.95
Orchard Trimmer Small Range	$36,816	2,000	200	$15.37	$9.19	$2.15	$12.69		$39.40