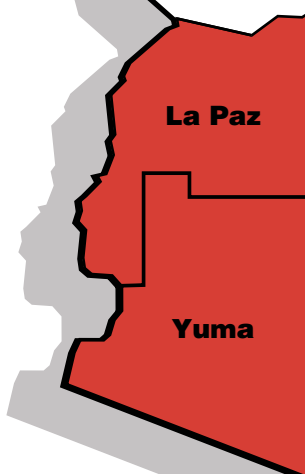


2001–2002 Arizona Vegetable Crop Budgets



**Western Arizona
Yuma County
La Paz County**

**Trent Teegerstrom
Research Specialist
The University of Arizona**

**John Palumbo
Associate Research Scientist
Yuma Agricultural Center**

**Mohammed Zerroune
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Cooperative Extension

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The University of Arizona • College of Agriculture and Life Sciences • Tucson, Arizona 85721
Department of Agricultural and Resource Economics



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Western Arizona
Yuma County La Paz County

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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 Western 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.

Disclaimer

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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	Column Heading	Description
No.	The sequence number of each operation is provided for the ordering of operations.	Job Rate	Job Rate (Acres/Hr) is defined as the number of acres that can be completed per hour of <i>labor</i> . Machinery hours are usually less than labor hours. The budgeting program adjusts all job rates to provide labor and machine hours, as shown in Table C.
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.	Material Use and Cost	Under this broad heading, all materials applied during a specific operation are identified using the following information.
Operation	The operation name is identified. Some abbreviations are necessary to fit the limited space available in the table.	Name	The name or names of any fertilizer, chemical, seed, water, or miscellaneous materials used in crop production are 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.
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 questions arise about the actual material, refer to the alphabetical entries in Appendices A or B.	Appl. Rate	Each material application rate is identified with the appropriate application unit.
HP	The horsepower rating of the tractor used in this operation is identified. If no tractor is used, this entry is blank.	\$/Unit	This column specifies the cost of the material with the appropriate units at which the material is purchased.
Self-Prop./ Implement	The implement column identifies 1) the descriptive name of an implement used in the operation, 2) the descriptive name of the self-propelled implement used in the 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.	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

				Units of Measure			
ai	Active ingredient	L	Liquid	AF	Acre-Foot	Gm	Gram
Appl	Applications	Oper.	Operating	AI	Acre-Inch	HD	Head Days
CST	Custom	Over.	Overhead	Ac, AC	Acre	Hr, Hrs	Hours
Defol.	Defoliant	Prop.	Propelled	Ba	Bale	Lb, Lbs	Pound
Fld	Field	Rw	Row	Bn	12 Bun	Lg	Lug
G	Granules	Sk	Shank	CW, CWT	100 Pounds	M	Meter
Gnd	Ground	Spr	Spray	Cl, Cwl	100 Pounds Lint	MI, Mi	Miles
Gr	Graded	W/	With	Cotton		Mu	Module
Herb	Herbicides	X	Times	Ct, Ctn	Carton	Qt	Quart
Insur	Insurance	#	Number	DB	1 Dozen Bunches	Sk	Sack
Irrig	Irrigation			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, Colorado River Vegetables

	Western Head Lettuce Harvested Acres	Leaf Lettuce Harvested Acres	Romaine Lettuce Harvested Acres	Cauliflower Harvested Acres	Broccoli Harvested Acres	Div Onion (Processing) ^{1/} Harvested Acres	La Paz Fall Cantaloup Harvested Acres
	Yield/Acre (Cartons)	Yield/Acre (Cartons)	Yield/Acre (Cartons)	Yield/Acre (Cartons)	Yield/Acre (Cartons)	Yield/Acre (Cartons)	Yield/Acre (Cartons)
Colorado River Vegetable Acreage and Yields							
1996	57,000	4,150	7,300	4,200	7,100		3,100
1997	51,800	5,550	8,100	3,700	6,700		2,500
1998	51,000	7,000	9,700	3,200	8,100	1,700	2,500
1999	44,000	5,400	10,100	3,600	8,000	1,900	2,500
2000	50,300	3,800	7,300	3,900	7,300	1,850	
Average	50,820	5,180	8,500	3,720	7,440	1,875	237
	Price per pound carton	Price per pound carton	Price per pound carton	Price per pound carton	Price per pound carton	Price per Ton	Price per pound carton
Arizona Vegetable Prices (Dollars per Carton)							
1996	\$5.24	\$9.00	\$7.80	\$7.59	\$6.68		\$8.32
1997	\$4.64	\$7.93	\$8.84	\$7.64	\$9.28	\$80.00	\$7.68
1998	\$6.32	\$5.25	\$6.04	\$10.53	\$9.31	\$100.00	\$5.56
1999	\$4.88	\$6.65	\$7.68	\$8.58	\$6.32	\$90.00	\$5.52
2000	\$5.24	\$7.68	\$7.63	\$8.03	\$6.94		\$7.84
Average	\$5.26	\$7.30	\$7.63	\$8.47	\$7.71	\$95.00	\$6.98
	Yuma Spring Honeydews Harvested Acres	La Paz Spring Honeydews Harvested Acres	Yuma Watermelons Harvested Acres	La Paz Watermelons Harvested Acres	Yuma Spring Cantaloup Harvested Acres	La Paz Spring Cantaloup Harvested Acres	Yuma Fall Cantaloup Harvested Acres
	Yield/Acre (Cartons)	Yield/Acre (Cartons)	Yield/Acre (Cartons)	Yield/Acre (Cartons)	Yield/Acre (Cartons)	Yield/Acre (Cartons)	Yield/Acre (Cartons)
Colorado River Vegetable Acreage and Yields							
1996	200	800	950	250	1,500	1,500	2,000
1997	300	1,000	950	400	3,400	2,600	2,200
1998	700	600	1,200	800	3,100	3,200	1,900
1999	600	500	1,200	900	4,200	1,000	1,800
2000	700	600	1,000	1,300	2,800	1,200	1,000
Average	500	700	1,060	730	3,000	1,900	1,780
	Price per pound carton	Price per pound carton	Price per pound container	Price per pound container	Price per pound carton	Price per pound carton	Price per pound carton
Arizona Vegetable Prices (Dollars per Carton)							
1996	\$6.76	\$3.32	\$144.00	\$144.00	\$8.32	\$8.32	\$8.32
1997	\$7.00	\$3.40	\$156.00	\$156.00	\$7.68	\$7.68	\$7.68
1998	\$6.40	\$4.16	\$160.00	\$160.00	\$5.56	\$5.56	\$5.56
1999	\$6.64	\$2.48	\$112.00	\$112.00	\$5.52	\$5.52	\$5.52
2000	\$6.36	\$3.30	\$136.00	\$136.00	\$7.84	\$7.84	\$7.84
Average	\$6.63	\$3.33	\$141.60	\$141.60	\$6.98	\$6.98	\$6.98

^{1/} Price, Yields and Acres were obtained from Processors, Extension Agents, and Growers. Price includes Seed and Harvesting costs.

Table 2. Representative Farm Description for Budget Estimation

	Vegetables		
	Yuma County	La Paz County	
General Characteristics			
Farm Size	500	1000	Acres
Land Rent	\$550	\$150	/Acre
Property Tax Rate (Average)	\$13.2183	\$10.6451	/\$100 Assessment
Assessment Rate	16%	16%	16% of Appraised Value
Appraised Land Value	\$1,314	\$450	/Acre
Land Cash Value	\$7,800	\$2,000	/Acre
Land Equity	100%	100%	
Sales Tax	6%	6%	of Material Purchases
General Overhead	3%	3%	of Operating Costs
Office Overhead	2%	2%	of Operating Costs
Maintenance Overhead	3%	3%	of Operating Costs
Management Overhead	6%	8%	of Operating Costs
Energy and Equipment			
Equipment Equity			
Machine Hours	90%	90%	
Unleaded Gasoline	\$1.110	\$1.140	/Gallon
Diesel Fuel	\$0.757	\$0.800	/Gallon
L P Gas	\$1.034	\$1.075	/Gallon
Natural Gas	\$0.37065	\$0.37065	/Cu. Ft.
Electricity	\$0.07035	\$0.05800	/kwh
Lubrication Factor	15%	15%	of Fuel Costs
Interest Rates			
Operating Credit	10%	10%	
Long Term	6%	6%	
Average Investment	10%	10%	
Labor Benefits			
FICA	7.65%	7.65%	of Cash Wages
Worker Compensation	8.45%	11.28%	of Cash Wages
FUTA	1.56%	1.56%	of Cash Wages
Fringe Benefits	13%	13%	of Cash Wages

2001–2002 Arizona Vegetable Crop Budgets Tables

Western Arizona La Paz and Yuma Counties

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; Cauliflower, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Cauliflower ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 955.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Cauliflower	Crtm	955.00	\$8.47	\$8,088.85	\$8,088.85	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					112.25	_____
Tractor/Self Propelled				47.14		_____
Irrigation				34.81		_____
Other/ Contract				30.31		_____
Chemicals and Custom Applications					584.92	_____
Fertilizer				155.06		_____
Insecticide				414.68		_____
Herbicide				3.89		_____
Other Chemicals				11.29		_____
Farm Machinery and Vehicles					73.05	_____
Diesel Fuel				20.02		_____
Gasoline				13.59		_____
Repairs and Maintenance				39.44		_____
Irrigation Water (excluding labor)					0.00	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs &					372.11	_____
Seed/Transplants				196.11		_____
Other Services and Rentals				176.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					1142.33	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					1.46	_____
Tractor/Self Propelled				1.46		_____
Farm Machinery and Vehicles					2.85	_____
Diesel Fuel				1.25		_____
Repairs and Maintenance				1.60		_____
Custom Harvest/Post Harvest					4327.25	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					4331.56	_____
OPERATING OVERHEAD -> PICKUP USE					13.17	_____
OPERATING INTEREST AT 10.0%					22.86	_____
TOTAL CASH OPERATING EXPENSES					\$5,509.92	_____
RETURNS OVER CASH OPERATING EXPENSES					\$2,578.93	_____

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

** A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 3B. Allocations of Ownership Costs; Cauliflower, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Cauliflower ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 955.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$8.47 / Ct	\$8,088.85		\$8,088.85	
TOTAL OPERATING EXPENSES	\$5,509.92		\$5,509.92	
RETURN OVER CASH OPERATING EXPENSES		\$2,578.93		\$2,578.93
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	7.74		7.74	
General and Office Overhead (5.0%of Total Operating Exp.)	275.50		275.50	
General Farm Maintenance (3.0% of Total Operating Exp.)	165.30		165.30	
Total Cash Overhead Expenses	448.54		448.54	
Total Cash Operating and Overhead Cost	5,958.45		5,958.45	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$2,130.40		\$2,130.40
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			36.72	
Interest on Equity, Machinery and Vehicles			10.46	
Total Capital Allocations			47.18	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		\$2,130.40		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				\$2,083.22
Land Cost / Rent or Lease	550.00		550.00	
Water Assessment **	31.00		31.00	
Total Land Costs	581.00		581.00	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$1,549.40		
RETURNS TO MANAGEMENT AND RISK ----->				\$1,502.22
Management Services (8% of Total Operation Expenses)			440.79	
TOTAL OWNERSHIP COST	1,029.54		1,517.51	
TOTAL COST	\$6,539.45		\$7,027.43	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$1,549.40		
RETURNS TO RISK (PROFITS) ----->				\$1,061.42
Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		\$5.77		\$5.77
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$1.08		\$1.59
BREAK-EVEN PRICE TO COVER TOTAL COST		\$6.85		\$7.36

Table 3C. Variable Operating Costs; Cauliflower, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Cauliflower ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 955.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

No.	First Month	Operation	---- Hours * ----		---- Operating Costs (\$/ACRE *) Per Operation ----					Tot. Cash Expense	Class	
			Machine	Labor	Fuel/Rps.	Labor	Cust/Serv.	Materials	Total			Times
1	Jul	Disk	0.150	0.167	2.48	1.47			3.94	3.0	11.83	L
2	Jul	Rip	0.225	0.250	3.62	2.19			5.81	1.0	5.81	L
3	Jul	Laser Level	0.450	0.500	6.78	4.39			11.17	1.0	11.17	L
4	Jul	Make Borders	0.023	0.025	0.13	0.22			0.35	1.0	0.35	G
5	Jul	Preirrigate		0.909		6.97			6.97	1.0	6.97	G
6	Jul	Knock Borders	0.023	0.025	0.13	0.22			0.35	1.0	0.35	G
7	Jul	Dust Control	0.009	0.010	0.16	0.16			0.32	155.0	49.17	G
8	Jul	Apply Herbicide/Ground	0.015	0.017	0.11	0.15		3.89	4.14	1.0	4.14	G
9	Aug	Soil Fertility					3.00		3.00	2.0	6.00	G
10	Aug	Apply Fert/Ground	0.015	0.017	0.17	0.15		57.95	58.26	1.0	58.26	G
11	Aug	List	0.150	0.167	1.69	1.46			3.15	1.0	3.15	L
12	Aug	Mulch	0.150	0.167	1.91	1.46			3.37	1.0	3.37	L
13	Aug	Shape Beds	0.138	0.154	1.64	1.35		77.97	80.96	1.0	80.96	L
14	Aug	Plant	0.300	0.333	4.90	2.92		196.11	203.94	1.0	203.94	L
15	Aug	Set Sprinklers	0.158	0.351	0.65	2.88			3.53	1.0	3.53	G
16	Aug	Irrigate/Sec Sys		1.205		9.24			9.24	1.0	9.24	G
17	Aug	Field Scouting					10.00		20.00	2.0	20.00	G
18	Sep	Apply Insecticide/Air					4.75	9.38	14.13	1.0	14.13	G
19	Sep	Remove Sprinklers	0.158	0.351	0.65	2.88			3.53	1.0	3.53	G
20	Sep	Make Basins	0.045	0.050	0.26	0.44			0.70	8.0	5.62	G
21	Sep	Irrigate/Run Fertilizer		0.125		0.96		6.20	7.16	5.0	35.80	G
22	Sep	Knock Basins	0.045	0.050	0.26	0.44			0.70	8.0	5.62	G
23	Sep	Cultivate	0.300	0.333	2.11	2.92			5.04	1.0	5.04	G
24	Sep	Spike Furrows	0.225	0.250	1.52	2.19			3.72	3.0	11.15	G
25	Sep	Apply Insecticide/Air					4.75	38.02	42.77	3.0	128.31	G
26	Sep	Cultivate	0.180	0.200	1.26	1.75			3.02	2.0	6.03	G
27	Sep	Apply Insect./Ground	0.015	0.017	0.09	0.15		30.29	30.53	1.0	30.53	G
28	Sep	Apply Fert/Ground	0.225	0.250	2.20	2.19		33.06	37.45	2.0	74.89	G
29	Oct	Hand Weeding					75.00		150.00	2.0	150.00	G
30	Nov	Apply Fungicide/Ground	0.015	0.017	0.09	0.15		11.29	11.52	1.0	11.52	G
31	Nov	Apply Insect./Ground	0.015	0.017	0.09	0.15		54.66	54.89	3.0	164.68	G
32	Nov	Shovel Ends		0.400		3.07			3.07	2.0	6.14	G
33	Nov	Irrigate		0.200		1.53			1.53	2.0	3.07	G
34	Dec	Harvest 911 Ct					4327.25		4327.25	1.0	4327.25	H
35	Jan	Residue Disposal 911 Ct	0.150	0.167	2.85	1.46			4.31	1.0	4.31	P
		Pickup Use 50 Mi/Acre	1.667		13.17						13.17	
		Operating Interest at 10.0						22.86			22.86	
		TOTAL CASH OPERATING EXPENSES (includes all times over):									5509.92	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.
 A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 3C. Variable Operating Costs; Cauliflower, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Cauliflower ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 955.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

OPERATING COST SUMMARY BY CLASS

Land Preparation (L)	319.85
Growing (G)	822.48
Harvest (H)	4,327.25
Post Harvest (P)	4.31
Marketing (M)	0.00
Operating Overhead (O)	36.03
Total (T)	\$5,509.92

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		\$6.35	\$7.62	\$8.47	\$9.32	\$10.59	Break-even Price
- 25%	716.3	-50.65	859.35	1,466.01	2,072.68	2,982.67	6.42
- 10%	859.5	209.62	1,301.61	2,029.61	2,757.60	3,849.60	6.11
Budgeted	955.0	383.12	1,596.45	2,405.34	3,214.22	4,427.55	5.95
+ 10%	1,050.5	556.63	1,891.29	2,781.06	3,670.84	5,005.50	5.82
+ 25%	1,193.8	816.89	2,333.55	3,344.66	4,355.77	5,872.42	5.67
Break-even Yield		744.13	437.90	343.63	282.76	223.40	

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

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Cauliflower ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 955.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

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	1.0	12.0	1.93		13.94	16.24					30.18
AUG C	1.0	6.0	3.57		20.86	31.25	139.80	196.11	13.00		401.02
SEP C	1.0	3.0	2.70		14.71	24.83	154.97		24.25		218.76
OCT C	2.0	6.0	1.45		10.87	14.49	83.47		157.75		266.59
NOV C	3.0	8.0	1.40		6.15	13.39	133.01				152.55
DEC C	1.0	2.0	1.22		6.50	12.06	54.66		4327.25		4400.48
JAN N			0.17		2.85	1.46					4.31
Pickup Use 50 Mi/Acre					13.17						13.17
Operating Interest at 10.0 Water Assessment				**					22.86		22.86
Total	9.0	37.0	12.43		89.06	113.72	565.92	196.11	4545.11		5509.92
%					1.62	2.06	10.27	3.56	82.49		100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 245.2
 Total P 208.0
 Total Labor 12.4
 Total Water 37.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 24.0 Gal
 Regular Gas 0.3 Gal
 Unleaded Gas 14.8 Gal
 All Direct Energy 5.2 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.14 Hr	Blade Scraper, 10'	0.45 Hr	Border Disk, 6' Disk	0.77 Hr
Cultivator, Sweep, 4 Rw	0.30 Hr	Fertilizer Injector, 4 Row	0.45 Hr	Fertilizer Spreader, 28'	0.01 Hr
Furrow Spike, 4 Rw	0.67 Hr	High Clearance Sprayer,	0.07 Hr	Laser, Complete System	0.45 Hr
Lister, 5 Bottom	0.15 Hr	Offset Disk, 18'	0.60 Hr	Pickup Truck, 1/2 Ton	1.67 Hr
Planter, Stanhay, 4 Row	0.30 Hr	Power Mulcher, 4 Rw	0.15 Hr	Rolling Cultivator, 4 Rw	0.36 Hr
Saddle Tk Sprayer, 2 Tk 8	0.15 Hr	Sprinkler Trailer	0.32 Hr	Tractor, 40 PTO HP	0.32 Hr
Tractor, 60 PTO HP	2.58 Hr	Tractor, 100 PTO HP	0.74 Hr	Tractor, 150 PTO HP,	0.45 Hr
Tractor, 175 PTO HP,	0.15 Hr	Tractor, 235 Eng HP, Art.	0.67 Hr	Truck, 5 Ton w/1000 Gal	1.39 Hr
V-Ripper, 7 Shnk	0.22 Hr				

MATERIALS REQUIREMENT (per Acre)

11-52-00, Dry	400.00 Lb	20-0-0-45, Nitro-Sul	25.00 Ga	33-00-00, Amm. Nitrate,	44.00 Ga
Cauliflower Seed	3.00 Lb	Chlorothalonil	2.00 Pt	Chlorpyrifos	0.80 Lb
Cypermethrin	15.00 Oz	Imidacloprid	16.00 Oz	Methomyl	14.01 Pt
Permethrin	10.50 Pt	Permethrin	8.00 Oz	Spinosad	6.00 Oz
Trifluralin	1.00 Pt	Water, District	37.00 Al		

LABOR REQUIREMENT (per Acre)

Irrigators	4.54 Hr	Other	0.80 Hr	Tractor	5.54 Hr
Truck Driver	1.55 Hr				

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

** A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 3E. Schedule of Operations; Cauliflower, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Cauliflower ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 955.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

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First No. Month Times	Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acres/Hr	Material Use and Cost Name	Appl. Rate \$ / Unit	Service Cost \$ / Unit	Labor Type
Jul 3.0	Disk	150 Offset Disk, 18'	6.00				Tractor
Jul 1.0	Rip	175 V-Ripper, 7 Shnk	4.00				Tractor
Jul 1.0	Laser Level	175 Blade Scraper, 10' Laser, Complete System	2.00				Tractor
Jul 1.0	Make Borders	60 Border Disk, 6' Disk	40.00				Tractor
Jul 1.0	Preirrigate		1.10	Water, District	12.00 Al 0.00 AF		Irrigators
Jul 1.0	Knock Borders	60 Border Disk, 6' Disk	40.00				Tractor
Jul 155.0	Dust Control	Truck, 5 Ton w/1000 Gal Tank	100.00				Tractor
Jul 1.0	Apply Herbicide/Ground	60 Saddle Tk Sprayer, 2 Tk 8	60.00	Trifluralin	1.00 Pt 29.35 Ga		Tractor
Aug 2.0	Soil Fertility	CST Soil Analysis (Surface)				3.00 Ac	
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	6.00				Tractor
Aug 1.0	Mulch	100 Power Mulcher, 4 Rw	6.00				Tractor
Aug 1.0	Shape Beds	100 Saddle Tk Sprayer, 2 Tk 8 Bed Shaper, 4 Rw	6.50	Imidacloprid	16.00 Oz 588.40 Ga		Tractor
Aug 1.0	Plant	100 Planter, Stanhay, 4 Row	3.00	Cauliflower Seed	3.00 Lb 61.67 Lb		Tractor
Aug 1.0	Set Sprinklers	40 Sprinkler Trailer	5.70				Tractor
Aug 1.0	Irrigate/Sec Sys		0.83	Water, District	6.00 Al 0.00 AF		Irrigators
Aug 2.0	Field Scouting	CST Scout For Insects				10.00 Ac	
Sep 1.0	Apply Insecticide/Air	CST Air Spray, 5 Gal Mix		Chlorpyrifos	0.80 Lb 1.65 Lb	4.75 Ac	
				Permethrin	8.00 Oz 120.50 Ga		
Sep 1.0	Remove Sprinklers	40 Sprinkler Trailer	5.70				Tractor
Sep 8.0	Make Basins	60 Border Disk, 6' Disk	20.00				Irrigators
Sep 5.0	Irrigate/Run Fertilizer		8.00	Water, District	3.00 Al 0.00 AF		Irrigators
				20-0-0-45, Nitro-Sul	5.00 Ga 240.00 Tn		
Sep 8.0	Knock Basins	60 Border Disk, 6' Disk	20.00				Tractor
Sep 1.0	Cultivate	60 Cultivator, Sweep, 4 Rw	3.00				Tractor
Sep 3.0	Spike Furrows	60 Furrow Spike, 4 Rw	4.00				Tractor
Sep 3.0	Apply Insecticide/Air	CST Air Spray, 5 Gal Mix		Cypermethrin	5.00 Oz 291.66 Ga	4.75 Ac	
				Methomyl	4.00 Pt 48.94 Ga		
Sep 2.0	Cultivate	60 Rolling Cultivator, 4 Rw	5.00				Tractor
Sep 1.0	Apply Insect./Ground	High Clearance Sprayer, 18	60.00	Spinosad	6.00 Oz 609.67 Ga		Tractor
Sep 2.0	Apply Fert/Ground	60 Fertilizer Injector, 4 Row	4.00	33-00-00, Amm. Nitrate,	22.00 Ga 270.00 Tn		Tractor
Oct 2.0	Hand Weeding	CST Hand Weeding				75.00 Ac	
Nov 1.0	Apply Fungicide/Ground	High Clearance Sprayer, 18	60.00	Chlorothalonil	2.00 Pt 42.60 Ga		Tractor
Nov 3.0	Apply Insect./Ground	High Clearance Sprayer, 18	60.00	Methomyl	0.67 Pt 48.94 Ga		Tractor
				Permethrin	3.50 Pt 108.50 Ga		
Nov 2.0	Shovel Ends		2.50				Other
Nov 2.0	Irrigate		5.00	Water, District	2.00 Al 0.00 AF		Irrigators
Dec 1.0	Harvest	CST Harv/pack/haul				4.75 Ct	
Jan 1.0	Residue Disposal	175 Offset Disk, 18'	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 3F Operations Calendar; Cauliflower, 2001

COUNTY: Yuma FARM: Western Arizona Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop
 CROP: Cauliflower ACRES: 1 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 911 Ct/Acre PREVIOUS CROP: Wheat, Winter DATE: 03/25/2001

No.	Operation	Month and Times Operation Performed												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	Disk							1 C	2 C					
2	Rip							1 C						
3	Laser Level							1 C						
4	Make Borders							1 C						
5	Preirrigate							1 C						
6	Knock Borders							1 C						
7	Dust Control							5 C	30 C	30 C	30 C	30 C	30 C	
8	Apply Herbicide/Ground								1 C					
9	Soil Fertility								1 C		1 C			
10	Apply Fert/Ground								1 C					
11	List								1 C					
12	Mulch								1 C					
13	Shape Beds								1 C					
14	Plant								1 C					
15	Set Sprinklers								1 C					
16	Irrigate/Sec Sys								1 C					
17	Field Scouting								1 C	1 C				
18	Apply Insecticide/Air										1 C			
19	Remove Sprinklers									1 C				
20	Make Basins									1 C	2 C	2 C		3 C
21	Irrigate/Run Fertilizer									1 C	2 C	2 C		
22	Knock Basins									1 C	2 C	2 C		3 C
23	Cultivate									1 C				
24	Spike Furrows									2 C	1 C			
25	Apply Insecticide/Air										2 C	1 C		
26	Cultivate									1 C	1 C			
27	Apply Insect/Ground										1 C			
28	Apply Insect/Ground										1 C	1 C		
29	Hand Weeding										2 C			
30	Apply Fungicide/Ground											1 C		
31	Apply Insect./Ground													2 C
32	Shovel Ends												1 C	1 C
33	Irrigate												1 C	1 C
34	Harvest													1 C
35	Residue Disposal													1 N

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

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

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Lettuce, Romaine ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 712.0 Ct / Acre PREVIOUS CROP: Mixed Greens DATE: 8/13/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Lettuce	Crtn	712.00	\$7.63	\$5,432.56	\$5,432.56	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					189.22	_____
Tractor/Self Propelled				74.66		_____
Irrigation				114.56		_____
Chemicals and Custom Applications					377.67	_____
Fertilizer				98.67		_____
Insecticide				222.58		_____
Herbicide				56.42		_____
Farm Machinery and Vehicles					96.54	_____
Diesel Fuel				40.35		_____
Repairs and Maintenance				56.19		_____
Irrigation Water (excluding labor)					0.00	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs & Seed/Transplants				636.00	711.00	_____
Other Services and Rentals				75.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					1374.43	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					3150.00	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					3150.00	_____
OPERATING OVERHEAD -> PICKUP USE					13.17	_____
OPERATING INTEREST AT 10.0%					13.98	_____
TOTAL CASH OPERATING EXPENSES					\$4,551.57	_____
RETURNS OVER CASH OPERATING EXPENSES					\$880.99	_____

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

** A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 4B. Allocations of Ownership Costs; Romaine Lettuce, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Lettuce, Romaine ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 712.0 Ct / Acre PREVIOUS CROP: Mixed Greens DATE: 8/13/01

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Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$7.63 / Ct	\$5,432.56		\$5,432.56	
TOTAL OPERATING EXPENSES	\$4,551.57		\$4,551.57	
RETURN OVER CASH OPERATING EXPENSES		\$880.99		\$880.99
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	9.99		9.99	
General and Office Overhead (5.0%of Total Operating Exp.)	227.58		227.58	
General Farm Maintenance (3.0% of Total Operating Exp.)	136.55		136.55	
Total Cash Overhead Expenses	374.11		374.11	
Total Cash Operating and Overhead Cost	4,925.69		4,925.69	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$506.87		\$506.87
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			57.25	
Interest on Equity, Machinery and Vehicles			25.44	
Total Capital Allocations			82.69	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		\$506.87		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				\$424.18
Land Cost / Rent or Lease	550.00		550.00	
Land Cost / Ownership (100% Equity)				
Water Assessment **	31.00		31.00	
Total Land Costs	581.00		581.00	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		(\$74.13)		
RETURNS TO MANAGEMENT AND RISK ----->				(\$156.82)
Management Services (8% of Total Operation Expenses)			364.13	
TOTAL OWNERSHIP COST	955.11		1,401.93	
TOTAL COST	\$5,506.69		\$5,953.51	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		(\$74.13)		
RETURNS TO RISK (PROFITS) ----->				(\$520.95)
Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		\$6.39		\$6.39
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$1.34		\$1.97
BREAK-EVEN PRICE TO COVER TOTAL COST		\$7.73		\$8.36

Table 4C. Variable Operating Costs; Romaine Lettuce, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Lettuce, Romaine ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 712.0 Ct / Acre PREVIOUS CROP: Mixed Greens DATE: 8/13/01

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No.	First Month	Operation	---- Hours * ----		---- Operating Costs (\$/ACRE *) Per Operation ----					Tot. Cash Expenses	Class	
			Machine	Labor	Fuel/Rps.	Labor	Cust/Serv.	Materials	Total			Times
1	Aug	Rip	0.900	1.000	14.46	8.77			23.24	1.0	23.24	L
2	Aug	Disk	0.600	0.667	11.39	5.85			17.24	2.0	34.49	L
3	Sep	Laser Level	0.450	0.500	6.59	4.39			10.98	1.0	10.98	L
4	Sep	Make Borders	0.180	0.200	1.05	1.75			2.81	1.0	2.81	G
5	Sep	Preirrigate		0.800		6.14			6.14	1.0	6.14	G
6	Sep	Knock Borders	0.180	0.200	1.05	1.75			2.81	1.0	2.81	G
7	Sep	Apply Fert/Ground	0.450	0.500	4.52	4.39		58.43	67.34	1.0	67.34	G
8	Sep	List	0.300	0.333	3.37	2.92			6.30	1.0	6.30	L
9	Sep	Shape Beds	0.180	0.200	2.14	1.75		77.97	81.86	1.0	81.86	L
10	Sep	Apply Insect./Ground					9.13	41.72	50.85	1.0	50.85	G
11	Sep	Plant	0.360	0.400	5.04	3.51		636.00	644.55	1.0	644.55	L
12	Sep	Set Sprinklers	0.158	0.351	0.91	2.88			3.80	1.0	3.80	G
13	Sep	Apply Herbicide/Ground	0.180	0.200	1.28	1.75		56.42	59.45	1.0	59.45	G
14	Sep	Irrigate/Sec Sys		0.091		0.70			0.70	5.0	3.49	G
15	Sep	Remove Sprinklers	0.158	0.351	0.91	2.88			3.80	1.0	3.80	G
16	Sep	Make Ditches	0.023	0.025	0.33	0.22			0.55	1.0	0.55	G
17	Sep	Irrigate		1.333		10.23			10.23	10.0	102.25	G
18	Sep	Cultivate	0.900	1.000	6.34	8.77			15.11	1.0	15.11	G
19	Sep	Thinning					75.00		75.00	1.0	75.00	G
20	Oct	Apply Insect./Ground	0.180	0.200	1.15	1.75		80.79	83.69	1.0	83.69	G
21	Oct	Apply Fert/Side Dress	0.900	1.000	10.65	8.77		40.24	59.67	1.0	59.67	G
22	Oct	Apply Insect./Ground	0.180	0.200	1.28	1.75		6.48	9.52	2.0	19.04	G
23	Nov	Harvest, Load & Haul 700					3150.00		3150.00	1.0	3150.00	H
24	Nov	Disk Residue 700 Ct	0.600	0.667	11.39	5.85			17.24	1.0	17.24	L
		Pickup Use 50 Mi/Acre	1.667		13.17						13.17	
		Operating Interest at 10.0					13.98				13.98	
TOTAL CASH OPERATING EXPENSES (includes all times over):											4551.57	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 \$31.00 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS

Land Preparation (L)	818.64
Growing (G)	555.78
Harvest (H)	3,150.00
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	27.15
Total (T)	\$4,551.57

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

Prices ->	- 25% - 10% Budgeted + 10% + 25%					Break-even Price	
	Yields	\$5.72	\$6.87	\$7.63	\$8.39		\$9.54
- 25%	534.0	-694.28	-83.12	324.32	731.77	1,342.93	7.02
- 10%	640.8	-555.62	177.78	666.71	1,155.64	1,889.03	6.59
Budgeted	712.0	-463.18	351.71	894.96	1,438.22	2,253.10	6.37
+ 10%	783.2	-370.73	525.64	1,123.22	1,720.80	2,617.17	6.20
Break-even Yield		1,068.74	568.03	432.83	349.62	271.37	

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

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Lettuce, Romaine ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 712.0 Ct / Acre PREVIOUS CROP: Mixed Greens DATE: 8/13/01

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			2.33		37.25	20.47				57.72
SEP C	9.0	23.5	9.51		33.54	77.29	234.54	636.00	84.13	1065.50
OCT C	4.0	16.0	6.93		14.35	54.94	134.00			203.29
NOV C	3.0	12.0	4.67		11.39	36.52			3150.00	3197.91
Pickup Use 50 Mi/Acre					13.17					13.17
Operating Interest at 10.0									13.98	13.98
Water Assessment				**						
Total	16.0	51.5	23.45		109.70	189.22	368.54	636.00	3248.11	4551.57
%					2.41	4.16	8.10	13.97	71.36	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 209.8
 Total P 207.0
 Total Labor 23.4
 Total Water 51.5

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 45.6 Gal
 Unleaded Gas 5.0 Gal
 All Direct Energy 7.0 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.18 Hr	Border Disk, 6' Disk	0.36 Hr	Cultivator, Sweep, 4 Rw	1.80 Hr
Drag Scraper, 10'	0.45 Hr	Fert. Side Dress Unit,	1.35 Hr	Laser, Complete System	0.45 Hr
Lister, 5 Bottom	0.30 Hr	Manual Spray Rig, 150 g	0.18 Hr	Motor Grader, 12'	0.02 Hr
Offset Disk, 18'	1.80 Hr	Pickup Truck, 1/2 Ton	1.67 Hr	Planter, Stanhay, 4 Row	0.36 Hr
Saddle Tk Sprayer, 2 Tk 8	0.72 Hr	Sprinkler Trailer	0.32 Hr	Tractor, 60 PTO HP	3.65 Hr
Tractor, 80 PTO HP	0.36 Hr	Tractor, 100 PTO HP	0.48 Hr	Tractor, 175 PTO HP,	1.80 Hr
Tractor, 235 Eng HP, Art.	1.35 Hr	V-Ripper, 7 Shnk	0.90 Hr		

MATERIALS REQUIREMENT (per Acre)

18-46-00, Dry	450.00 Lb	46-00-00, Urea 46	280.00 Lb	Bensulide	10.00 Pt
Imidacloprid	16.00 Oz	Methomyl	4.00 Pt	Permethrin	2.00 Pt
Romaine Lettuce Seed	800.00 Th	Spinosad	16.00 Oz	Water, District	51.50 Al

LABOR REQUIREMENT (per Acre)

Irrigators 14.94 Hr Tractor 8.51 Hr

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

** A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 4E. Schedule of Operations; Romaine Lettuce, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Lettuce, Romaine ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 712.0 Ct / Acre PREVIOUS CROP: Mixed Greens DATE: 8/13/01

First No. Month	Times	Operation	Equipment/ Custom Oper		Job Rate Acre/Hr	Material Use and Cost				Service Cost \$ / Unit	Labor Type
			HP	Self-Prop./ Implement		Name	Appl. Rate	\$ / Unit			
Aug	1.0	Rip	175	V-Ripper, 7 Shnk	1.00						Tractor
Aug	2.0	Disk	175	Offset Disk, 18'	1.50						Tractor
Sep	1.0	Laser Level	175	Drag Scraper, 10'	2.00						Tractor
Sep	1.0	Make Borders	60	Border Disk, 6' Disk	5.00						Tractor
Sep	1.0	Preirrigate			1.25	Water, District	6.00	Al	0.00	AF	Irrigators
Sep	1.0	Knock Borders	60	Border Disk, 6' Disk	5.00						Tractor
Sep	1.0	Apply Fert/Ground	60	Fert. Side Dress Unit, 4Row	2.00	18-46-00, Dry	450.00	Lb	245.00	Tn	Tractor
Sep	1.0	List	100	Lister, 5 Bottom	3.00						Tractor
Sep	1.0	Shape Beds	100	Bed Shaper, 4 Rw	5.00	Imidacloprid	16.00	Oz	588.40	Ga	Tractor
Sep	1.0	Apply Insect./Ground		Saddle Tk Sprayer, 2 Tk 8 Row CST Grnd Spray Insecticide		Methomyl	2.00	Pt	48.94	Ga	9.13 Ac
Sep	1.0	Plant	80	Planter, Stanhay, 4 Row	2.50	Romaine Lettuce Seed	800.00	Th	0.75	Th	Tractor
Sep	1.0	Set Sprinklers	60	Sprinkler Trailer	5.70						Tractor
Sep	1.0	Apply Herbicide/Ground	60	Saddle Tk Sprayer, 2 Tk 8	5.00	Bensulide	10.00	Pt	42.58	Ga	Tractor
Sep	5.0	Irrigate/Sec Sys			11.00	Water, District	1.10	Al	0.00	AF	Irrigators
Sep	1.0	Remove Sprinklers	60	Sprinkler Trailer	5.70						Tractor
Sep	1.0	Make Ditches		Motor Grader, 12'	40.00						Irrigators
Sep	10.0	Irrigate			0.75	Water, District	4.00	Al	0.00	AF	Irrigators
Sep	1.0	Cultivate	60	Cultivator, Sweep, 4 Rw	1.00						Tractor
Sep	1.0	Thinning		CST Thinning							75.00 Ac
Oct	1.0	Apply Insect./Ground	60	Manual Spray Rig, 150 g on	5.00	Spinosad	16.00	Oz	609.67	Ga	Tractor
Oct	1.0	Apply Fert/Side Dress	60	Cultivator, Sweep, 4 Rw Fert. Side Dress Unit, 4Row	1.00	46-00-00, Urea 46	280.00	Lb	271.17	Tn	Tractor
Oct	2.0	Apply Insect./Ground	60	Saddle Tk Sprayer, 2 Tk 8	5.00	Methomyl	1.00	Pt	48.94	Ga	Tractor
Nov	1.0	Harvest, Load & Haul		CST Harv/pack/haul Leaf							4.50 Ct
Nov	1.0	Disk Residue	175	Offset Disk, 18'	1.50						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; Romaine Lettuce, 2001

COUNTY: Yuma FARM: Western Arizona Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop
 CROP: Lettuce, Romaine ACRES: 1 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 700 Ct/Acre PREVIOUS CROP: Mixed Greens DATE: 03/25/2001

No.	Operation	Month and Times Operation Performed											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip								1 C				
2	Disk								2 C				
3	Laser Level									1 C			
4	Make Borders									1 C			
5	Preirrigate									1 C			
6	Knock Borders									1 C			
7	Apply Fert/Ground									1 C			
8	List									1 C			
9	Shape Beds									1 C			
10	Apply Insecticide/Ground									1 C			
11	Plant									1 C			
12	Set Sprinklers									1 C			
13	Apply Herbicide/Ground									1 C			
14	Irrigate/Sec Sys									5 C			
15	Remove Sprinklers									1 C			
16	Make Ditches									1 C			
17	Irrigate									3 C	4 C	3 C	
18	Cultivate									1 C			
19	Thinning									1 C			
20	Apply Insect/Ground										1 C		
21	Apply Fert/Side Dress										2 C		
22	Apply Insect/Ground												
23	Harvest, Load & Haul												1 C
24	Disk Residue												1 C

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

Table 5A. Income and Cash Operating Summary; Fall Broccoli, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Broccoli ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 608.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Broccoli	Crtn	608.00	\$7.71	\$4,687.68	\$4,687.68	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					117.45	_____
Tractor/Self Propelled				36.47		_____
Irrigation				30.03		_____
Other/ Contract				50.95		_____
Chemicals and Custom Applications					1175.35	_____
Fertilizer				144.66		_____
Insecticide				919.72		_____
Herbicide				3.89		_____
Other Chemicals				107.09		_____
Farm Machinery and Vehicles					62.19	_____
Diesel Fuel				16.82		_____
Gasoline				11.40		_____
Repairs and Maintenance				33.98		_____
Irrigation Water (excluding labor)					0.00	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs &					490.13	_____
Seed/Transplants				412.13		_____
Other Services and Rentals				78.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					1845.13	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					2.19	_____
Tractor/Self Propelled				2.19		_____
Farm Machinery and Vehicles					2.42	_____
Diesel Fuel				0.98		_____
Repairs and Maintenance				1.44		_____
Custom Harvest/Post Harvest					2652.00	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					2656.62	_____
OPERATING OVERHEAD -> PICKUP USE					13.17	_____
OPERATING INTEREST AT 10.0%					24.37	_____
TOTAL CASH OPERATING EXPENSES					\$4,539.29	_____
RETURNS OVER CASH OPERATING EXPENSES					\$148.39	_____

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

** A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 5B. Allocations of Ownership Costs; Fall Broccoli, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Broccoli ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 608.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

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Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$7.71 / Ct	\$4,687.68		\$4,687.68	
TOTAL OPERATING EXPENSES	\$4,539.29		\$4,539.29	
RETURN OVER CASH OPERATING EXPENSES		\$148.39		\$148.39
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	6.74		6.74	
General and Office Overhead (5.0%of Total Operating Exp.)	226.96		226.96	
General Farm Maintenance (3.0% of Total Operating Exp.)	136.18		136.18	
Total Cash Overhead Expenses	369.88		369.88	
Total Cash Operating and Overhead Cost	4,909.17		4,909.17	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		(\$221.49)		(\$221.49)
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			31.92	
Interest on Equity, Machinery and Vehicles			11.39	
Total Capital Allocations			43.32	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		(\$221.49)		(\$221.49)
RETURNS TO LAND, MANAGEMENT AND RISK ----->				(\$264.81)
Land Cost / Rent or Lease	550.00		550.00	
Water Assessment **	31.00		31.00	
Total Land Costs	581.00		581.00	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		(\$802.49)		(\$802.49)
RETURNS TO MANAGEMENT AND RISK ----->				(\$845.81)
Management Services (8% of Total Operation Expenses)			363.14	
TOTAL OWNERSHIP COST	950.88		1,357.34	
TOTAL COST	\$5,490.17		\$5,896.63	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		(\$802.49)		(\$802.49)
RETURNS TO RISK (PROFITS) ----->				(\$1,208.95)
Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		\$7.47		\$7.47
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$1.56		\$2.23
BREAK-EVEN PRICE TO COVER TOTAL COST		\$9.03		\$9.70

Table 5C. Variable Operating Costs; Fall Broccoli, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Broccoli ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 608.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

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No.	First Month	Operation	---- Hours * ----		---- Operating Costs (\$/ACRE *) Per Operation ----					Tot. Cash Expenses	Class	
			Machine	Labor	Fuel/Rps.	Labor	Cust/Serv.	Materials	Total			Times
1	Jun	Disk	0.150	0.167	2.85	1.46			4.31	2.0	8.62	L
2	Jun	Rip	0.300	0.333	4.82	2.92			7.75	1.0	7.75	L
3	Aug	Laser Level	0.450	0.500	5.92	4.39			10.31	1.0	10.31	L
4	Jun	Make Borders	0.023	0.025	0.13	0.22			0.35	3.0	1.05	G
5	Jul	Preirrigate		0.690		5.29			5.29	1.0	5.29	G
6	Jul	Dust Control	0.009	0.010	0.16	0.16			0.32	130.0	41.24	G
7	Aug	Knock Borders	0.023	0.025	0.13	0.22			0.35	3.0	1.05	G
8	Aug	Soil Fertility					3.00		3.00	1.0	3.00	G
9	Aug	Apply Fert/Ground	0.112	0.125	1.88	1.10		63.74	66.71	1.0	66.71	G
10	Aug	Apply Herbicide/Ground	0.075	0.083	0.53	0.73		3.89	5.15	1.0	5.15	G
11	Aug	List	0.150	0.167	1.69	1.46			3.15	1.0	3.15	L
12	Sep	Shape Beds	0.180	0.200	2.14	1.75		77.97	81.86	1.0	81.86	L
13	Sep	Plant	0.409	0.455	3.79	3.99		412.13	419.90	1.0	419.90	L
14	Sep	Shovel Ends		2.000		15.34			15.34	2.0	30.68	G
15	Sep	Apply Insect./Ground	0.015	0.017	0.09	0.15		88.88	89.11	2.0	178.23	G
16	Sep	Thinning					75.00		75.00	1.0	75.00	G
17	Sep	Cultivate	0.400	0.444	2.82	3.90			6.72	1.0	6.72	G
18	Sep	Spike Furrows	0.346	0.385	2.34	3.37			5.72	2.0	11.44	G
19	Sep	Apply Insecticide/Air						4.75	30.29	1.0	35.04	G
20	Sep	Apply Insecticide/Air						4.75	309.72	2.0	628.45	G
21	Sep	Apply Fert/Ground	0.327	0.364	3.29	3.19		50.88	57.36	1.0	57.36	G
22	Sep	Irrigate		0.461		3.53			3.53	5.0	17.67	G
23	Oct	Irrigate/Run Fertilizer		0.461		3.53		15.02	18.55	2.0	37.10	G
24	Oct	Apply Fungicide/Ground	0.015	0.017	0.09	0.15		53.54	53.78	2.0	107.55	G
25	Nov	Prepare Ends	0.023	0.025	0.17	0.22			0.39	2.0	0.79	H
26	Nov	Harvest 624 Ct					2652.00		2652.00	1.0	2652.00	H
27	Nov	Cut Stalks 624 Ct	0.180	0.200	2.07	1.75			3.83	1.0	3.83	P
28	Nov	Disk Residue 624 Ct	0.150	0.167	2.85	1.46			4.31	1.0	4.31	L
		Pickup Use 50 Mi/Acre	1.667		13.17						13.17	
		Operating Interest at 10.0					24.37				24.37	
TOTAL CASH OPERATING EXPENSES (includes all times over):											4539.29	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 \$31.00 per Acre is included as an ownership cost in Table B.

Table 5C. Variable Operating Costs; Fall Broccoli, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Broccoli ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 608.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

OPERATING COST SUMMARY BY CLASS

Land Preparation (L)	535.89
Growing (G)	1,318.73
Harvest (H)	2,652.79
Post Harvest (P)	3.83
Marketing (M)	0.00
Operating Overhead (O)	37.55
Total (T)	\$4,539.29

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		\$5.78	\$6.94	\$7.71	\$8.48	\$9.64	Break-even Price
- 25%	456.0	-1,223.44	-696.07	-344.50	7.08	534.44	8.47
- 10%	547.2	-1,094.57	-461.73	-39.84	382.05	1,014.89	7.78
Budgeted	608.0	-1,008.65	-305.50	163.27	632.04	1,335.19	7.44
+ 10%	668.8	-922.74	-149.27	366.38	882.02	1,655.49	7.16
Break-even Yield		1,321.80	726.89	559.13	454.28	354.55	

Table 5D. Resource and Cash Flow Requirements; Fall Broccoli, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Broccoli ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 608.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

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			1.19		16.57	10.46				27.03
JUL C	1.0	4.0	0.79		1.61	6.85				8.46
AUG C			0.70		9.07	8.19	67.63		3.00	87.89
SEP C	1.0	6.0	4.72		19.82	40.78	557.75	412.13	84.54	1115.02
OCT C	2.0	12.0	2.12		7.44	19.09	520.71		4.75	551.99
NOV C	2.0	12.0	4.10		10.11	34.27	15.02		2652.00	2711.40
Pickup Use 50 Mi/Acre					13.17					13.17
Operating Interest at 10.0									24.37	24.37
Water Assessment				**						
Total	6.0	34.0	13.62		77.79	119.64	1161.10	412.13	2768.66	4539.29
%					1.71	2.64	25.58	9.08	60.99	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 253.6
 Total P 228.8
 Total Labor 13.6
 Total Water 34.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 20.1 Gal
 Unleaded Gas 13.2 Gal
 All Direct Energy 4.5 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw 0.18 Hr	Blade Scraper, 10' 0.45 Hr	Border Disk, 6' Disk 0.14 Hr
Cultivator, Sweep, 4 Rw 0.40 Hr	Fert. Side Dress Unit, 0.33 Hr	Fertilizer Spreader, 18' 0.11 Hr
Furrow Spike, 4 Rw 0.69 Hr	High Clearance Sprayer, 0.06 Hr	Laser, Complete System 0.45 Hr
Lister, 5 Bottom 0.15 Hr	Lister, 7 Bottom 0.11 Hr	Offset Disk, 10.5' 0.05 Hr
Offset Disk, 18' 0.45 Hr	Pickup Truck, 1/2 Ton 1.67 Hr	Planter, Stanhay, 2 Row 0.41 Hr
Rotary Stalk Cutter, 4 Row 0.18 Hr	Saddle Tk Sprayer, 2 Tk 8 0.25 Hr	Tractor, 60 PTO HP 2.08 Hr
Tractor, 100 PTO HP 0.62 Hr	Tractor, 125 PTO HP 0.45 Hr	Tractor, 175 PTO HP, 0.45 Hr
Tractor, 235 Eng HP, Art. 0.30 Hr	Truck, 5 Ton w/1000 Gal 1.17 Hr	V-Ripper, 7 Shnk 0.30 Hr

MATERIALS REQUIREMENT (per Acre)

11-52-00, Dry 440.00 Lb	32-00-00, URAN 32, Lqd 30.00 Ga	33-00-00, Amm. Nitrate, 300.00 Lb
Broccoli Seed (Hybrid) 144.00 Th	Chlorpyrifos 3.00 Lb	Imidacloprid 16.00 Oz
Lambdacyhalothrin 7.00 Pt	Metalaxyl 4.00 Pt	Permethrin 12.00 Pt
Spinosad 6.00 Oz	Thiodicarb 64.00 Pt	Trifluralin 1.00 Pt
Water, District 34.00 Al		

LABOR REQUIREMENT (per Acre)

Irrigators 3.92 Hr	Other 4.00 Hr	Tractor 4.41 Hr
Truck Driver 1.30 Hr		

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

** A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 5E. Schedule of Operations; Fall Broccoli, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Broccoli ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 608.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

First No. Month	Times	Operation	Equipment/ Custom Oper		Job Rate Acres/Hr	Material Use and Cost				Service Cost \$ / Unit	Labor Type
			HP	Self-Prop./ Implement		Name	Appl. Rate	\$ / Unit			
Jun	2.0	Disk		175 Offset Disk, 18'	6.00						Tractor
Jun	1.0	Rip		175 V-Ripper, 7 Shnk	3.00						Tractor
Aug	1.0	Laser Level		125 Blade Scraper, 10'	2.00						Tractor
				Laser, Complete System							
Jun	3.0	Make Borders		60 Border Disk, 6' Disk	40.00						Tractor
Jul	1.0	Preirrigate			1.45	Water, District	4.00	Al	0.00	AF	Irrigators
Jul	130.0	Dust Control		Truck, 5 Ton w/1000 Gal Tank	100.00						Truck
Aug	3.0	Knock Borders		60 Border Disk, 6' Disk	40.00						Tractor
Aug	1.0	Soil Fertility		CST Soil Analysis (Surface)							3.00 Ac
Aug	1.0	Apply Fert/Ground		100 Fertilizer Spreader, 18' Lister, 7 Bottom	8.00	11-52-00, Dry	440.00	Lb	273.33	Tn	Tractor
Aug	1.0	Apply Herbicide/Ground		60 Saddle Tk Sprayer, 2 Tk 8	12.00	Trifluralin	1.00	Pt	29.35	Ga	Tractor
Aug	1.0	List		100 Lister, 5 Bottom	6.00						Tractor
Sep	1.0	Shape Beds		100 Bed Shaper, 4 Rw Saddle Tk Sprayer, 2 Tk 8 Row	5.00	Imidacloprid	16.00	Oz	588.40	Ga	Tractor
Sep	1.0	Plant		60 Planter, Stanhay, 2 Row	2.20	Broccoli Seed (Hybrid)	144.00	Th	2.70	Th	Tractor
Sep	2.0	Shovel Ends			0.50						Other
Sep	2.0	Apply Insect./Ground		High Clearance Sprayer, 18	60.00	Chlorpyrifos	1.50	Lb	1.65	Lb	Tractor
						Permethrin	6.00	Pt	108.50	Ga	
Sep	1.0	Thinning		CST Thinning							75.00 Ac
Sep	1.0	Cultivate		60 Cultivator, Sweep, 4 Rw	2.25						Tractor
Sep	2.0	Spike Furrows		60 Furrow Spike, 4 Rw	2.60						Tractor
Sep	1.0	Apply Insecticide/Air		CST Air Spray, 5 Gal Mix		Spinosad	6.00	Oz	609.67	Ga	4.75 Ac
Sep	2.0	Apply Insecticide/Air		CST Air Spray, 5 Gal Mix		Thiodicarb	32.00	Pt	49.04	Ga	4.75 Ac
						Lambdacyhalothrin	3.50	Pt	219.50	Ga	
Sep	1.0	Apply Fert/Ground		60 Fert. Side Dress Unit, 4Row	2.75	33-00-00, Amm. Nitrate,	300.00	Lb	320.00	Tn	Tractor
Sep	5.0	Irrigate			2.17	Water, District	6.00	Al	0.00	AF	Irrigators
Oct	2.0	Irrigate/Run Fertilizer			2.17	32-00-00, URAN 32,	15.00	Ga	170.80	Tn	Irrigators
Oct	2.0	Apply Fungicide/Ground		High Clearance Sprayer, 18	60.00	Metalaxyl	2.00	Pt	202.05	Ga	Tractor
Nov	2.0	Prepare Ends		60 Offset Disk, 10.5'	40.00						Tractor
Nov	1.0	Harvest		CST Harv/pack/haul Broccoli							4.25 Ct
Nov	1.0	Cut Stalks		100 Rotary Stalk Cutter, 4 Row	5.00						Tractor
Nov	1.0	Disk Residue		175 Offset Disk, 18'	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 5F Operations Calendar; Fall Broccoli, 2001

COUNTY: Yuma FARM: Western Arizona Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop
 CROP: Broccoli ACRES: 1 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 528 Ct/Acre PREVIOUS CROP: Wheat, Winter DATE: 03/25/2001

No.	Operation	Month and Times Operation Performed											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Disk						2 C						
2	Rip						1 C						
3	Laser Level						1 C						
4	Make Borders						1 C			2 C			
5	Preirrigate							1 C					
6	Dust Control							10 C	30 C	30 C	30 C	30 C	
7	Knock Borders								1 C	2 C			
8	Soil Fertility								1 C				
9	Apply Fert/Ground								1 C				
10	Apply Herbicide/Ground								1 C				
11	List								1 C				
12	Bed Shaping/Admire										1 C		
13	Plant									1 C			
14	Shovel Ends									1 C		1 C	
15	Apply Insect/Ground										1 C	1 C	
16	Thinning									1 C			
17	Cultivate									1 C			
18	Spike Furrows									1 C	1 C		
19	Apply Insecticide/Air										1 C		
20	Apply Insecticide/Air										1 C	1 C	
21	Apply Fert/Ground									1 C			
22	Irrigate									1 C	2 C	2 C	
23	Irrigate/Run Fertilizer										1 C	1 C	
24	Apply Fungicide/Ground										2 C		
25	Prepare Ends											2 C	
26	Harvest											1 C	
27	Cut Stalks												1 C
28	Disk Residue											1 C	

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

Table 6A. Income and Cash Operating Summary; Fall Leaf Lettuce, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Lettuce, Leaf ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 1,162.0 Ct / Acre PREVIOUS CROP: Mixed Greens DATE: 8/13/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Lettuce	Crtn	1,162.00	\$7.30	\$8,482.60	\$8,482.60	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					191.56	_____
Tractor/Self Propelled				77.00		_____
Irrigation				114.56		_____
Chemicals and Custom Applications					553.91	_____
Fertilizer				98.67		_____
Insecticide				394.52		_____
Herbicide				60.72		_____
Farm Machinery and Vehicles					103.43	_____
Diesel Fuel				41.98		_____
Repairs and Maintenance				61.44		_____
Irrigation Water (excluding labor)					0.00	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs &					380.28	_____
Seed/Transplants				305.28		_____
Other Services and Rentals				75.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					1229.17	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					5895.00	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					5895.00	_____
OPERATING OVERHEAD -> PICKUP USE					13.17	_____
OPERATING INTEREST AT 10.0%					11.78	_____
TOTAL CASH OPERATING EXPENSES					\$7,149.12	_____
RETURNS OVER CASH OPERATING EXPENSES					\$1,333.48	_____

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

** A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 6B. Allocations of Ownership Costs; Fall Leaf Lettuce, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Lettuce, Leaf ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 1,162.0 Ct / Acre PREVIOUS CROP: Mixed Greens DATE: 8/13/01

Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$7.30 / Ct	\$8,482.60		\$8,482.60	
TOTAL OPERATING EXPENSES	\$7,149.12		\$7,149.12	
RETURN OVER CASH OPERATING EXPENSES		\$1,333.48		\$1,333.48
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	10.12		10.12	
General and Office Overhead (5.0%of Total Operating Exp.)	357.46		357.46	
General Farm Maintenance (3.0% of Total Operating Exp.)	214.47		214.47	
Total Cash Overhead Expenses	582.05		582.05	
Total Cash Operating and Overhead Cost	7,731.17		7,731.17	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$751.43		\$751.43
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			58.07	
Interest on Equity, Machinery and Vehicles			24.16	
Total Capital Allocations			82.23	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		\$751.43		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				\$669.20
Land Cost / Rent or Lease	550.00		550.00	
Water Assessment **	31.00		31.00	
Total Land Costs	581.00		581.00	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$170.43		
RETURNS TO MANAGEMENT AND RISK ----->				\$88.20
Management Services (8% of Total Operation Expenses)			571.93	
TOTAL OWNERSHIP COST	1,163.05		1,817.21	
TOTAL COST	\$8,312.17		\$8,966.33	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$170.43		
RETURNS TO RISK (PROFITS) ----->				(\$483.73)
Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		\$6.15		\$6.15
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$1.00		\$1.56
BREAK-EVEN PRICE TO COVER TOTAL COST		\$7.15		\$7.72

Table 6C. Variable Operating Costs; Fall Leaf Lettuce, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Lettuce, Leaf ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 1,162.0 Ct / Acre PREVIOUS CROP: Mixed Greens DATE: 8/13/01

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No.	First Month	Operation	---- Hours * ----		---- Operating Costs (\$/ACRE *) Per Operation ----					Tot. Cash Expenses	Class	
			Machine	Labor	Fuel/Rps.	Labor	Cust/Serv.	Materials	Total			Times
1	Aug	Rip	0.900	1.000	14.46	8.77			23.24	1.0	23.24	L
2	Aug	Disk	0.600	0.667	10.41	5.85			16.26	3.0	48.77	L
3	Sep	Laser Level	0.450	0.500	6.89	4.39			11.28	1.0	11.28	L
4	Sep	Make Borders	0.180	0.200	1.05	1.75			2.81	1.0	2.81	G
5	Sep	Preirrigate		0.800		6.14			6.14	1.0	6.14	G
6	Sep	Knock Borders	0.180	0.200	1.05	1.75			2.81	1.0	2.81	G
7	Sep	Apply Fert/Ground	0.450	0.500	4.52	4.39		58.43	67.34	1.0	67.34	G
8	Sep	List	0.300	0.333	3.37	2.92			6.30	1.0	6.30	L
9	Sep	Shape Beds	0.180	0.200	2.14	1.75		77.97	81.86	1.0	81.86	L
10	Sep	Plant	0.360	0.400	5.89	3.51		305.28	314.67	1.0	314.67	L
11	Sep	Set Sprinklers	0.158	0.351	0.91	2.88			3.80	1.0	3.80	G
12	Sep	Apply Insecticide/Air						127.98	127.98	2.0	255.96	G
13	Sep	Apply Herbicide/Air					4.30	56.42	60.72	1.0	60.72	G
14	Sep	Irrigate/Sec Sys		0.091		0.70			0.70	5.0	3.49	G
15	Sep	Remove Sprinklers	0.158	0.351	0.91	2.88			3.80	1.0	3.80	G
16	Sep	Make Ditches	0.023	0.025	0.33	0.22			0.55	1.0	0.55	G
17	Sep	Irrigate		1.333		10.23			10.23	10.0	102.25	G
18	Sep	Cultivate	0.900	1.000	6.34	8.77			15.11	1.0	15.11	G
19	Sep	Thinning					75.00		75.00	1.0	75.00	G
20	Oct	Apply Insect./Ground	0.180	0.200	1.15	1.75		30.29	33.20	2.0	66.39	G
21	Oct	Apply Fert/Side Dress	0.900	1.000	10.65	8.77		40.24	59.67	1.0	59.67	G
22	Nov	Harvest, Load & Haul					5895.00		5895.00	1.0	5895.00	H
23	Nov	Disk Residue 1310 Ct	0.600	0.667	11.39	5.85			17.24	1.0	17.24	L
		Pickup Use 50 Mi/Acre	1.667		13.17						13.17	
		Operating Interest at 10.0					11.78				11.78	
TOTAL CASH OPERATING EXPENSES (includes all times over):											7149.12	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 \$31.00 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS

Land Preparation (L)	503.35
Growing (G)	725.82
Harvest (H)	5,895.00
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	24.95
Total (T)	\$7,149.12

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

Prices ->	- 25% - 10% Budgeted + 10% + 25%					Break-even Price	
	Yields	\$5.48	\$6.57	\$7.30	\$8.03		\$9.13
- 25%	871.5	-892.13	62.16	698.36	1,334.55	2,288.84	6.50
- 10%	1,045.8	-822.09	323.06	1,086.50	1,849.93	2,995.08	6.26
Budgeted	1,162.0	-775.39	497.00	1,345.26	2,193.52	3,465.91	6.14
+ 10%	1,278.2	-728.70	670.93	1,604.02	2,537.10	3,936.73	6.05
Break-even Yield		3,091.56	829.97	557.89	420.16	306.61	

Table 6D. Resource and Cash Flow Requirements; Fall Leaf Lettuce, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Lettuce, Leaf ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 1,162.0 Ct / Acre PREVIOUS CROP: Mixed Greens DATE: 8/13/01

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			2.33		35.28	20.47				55.75
SEP C	9.0	23.5	8.61		36.24	69.50	448.78	305.28	4.30	864.10
OCT C	4.0	16.0	8.11		20.52	65.06	100.83		75.00	261.41
NOV C	3.0	12.0	4.67		11.39	36.52			5895.00	5942.91
Pickup Use 50 Mi/Acre					13.17					13.17
Operating Interest at 10.0									11.78	11.78
Water Assessment				**						
Total	16.0	51.5	23.71		116.60	191.55	549.61	305.28	5986.08	7149.12
%					1.63	2.68	7.69	4.27	83.73	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 209.8
 Total P 207.0
 Total Labor 23.7
 Total Water 51.5

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 47.4 Gal
 Unleaded Gas 5.0 Gal
 All Direct Energy 7.2 M BTU
 Electric / Pumping KWH

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.18 Hr	Blade Scraper, 10'	0.45 Hr	Border Disk, 6' Disk	0.36 Hr
Cultivator, Sweep, 4 Rw	1.80 Hr	Fert. Side Dress Unit,	1.35 Hr	Laser, Complete System	0.45 Hr
Lister, 5 Bottom	0.30 Hr	Manual Spray Rig, 150 g	0.36 Hr	Motor Grader, 12'	0.02 Hr
Offset Disk, 12'	1.80 Hr	Offset Disk, 18'	0.60 Hr	Pickup Truck, 1/2 Ton	1.67 Hr
Planter, Stanhay, 4 Row	0.36 Hr	Saddle Tk Sprayer, 2 Tk 8	0.18 Hr	Sprinkler Trailer	0.32 Hr
Tractor, 60 PTO HP	3.29 Hr	Tractor, 100 PTO HP	0.84 Hr	Tractor, 150 PTO HP	2.25 Hr
Tractor, 175 PTO HP,	0.60 Hr	Tractor, 235 Eng HP, Art.	0.90 Hr	V-Ripper, 7 Shnk	0.90 Hr

MATERIALS REQUIREMENT (per Acre)

18-46-00, Dry	450.00 Lb	46-00-00, Urea 46	280.00 Lb	Bensulide	10.00 Pt
Imidacloprid	16.00 Oz	Leaf Lettuce Sd (coated)	800.00 Th	Methomyl	4.00 Pt
Permethrin	16.00 Pt	Spinosad	12.00 Oz	Water, District	51.50 Al

LABOR REQUIREMENT (per Acre)

Irrigators 14.94 Hr Tractor 8.78 Hr

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

** A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 6E. Schedule of Operations; Fall Leaf Lettuce, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Lettuce, Leaf ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 1,162.0 Ct / Acre PREVIOUS CROP: Mixed Greens DATE: 8/13/01

First No. Month	Times	Operation	Equipment/ Custom Oper		Job Rate Acres/Hr	Material Use and Cost				Service Cost \$ / Unit	Labor Type
			HP	Self-Prop./ Implement		Name	Appl. Rate	\$ / Unit			
Aug	1.0	Rip	175	V-Ripper, 7 Shnk	1.00						Tractor
Aug	3.0	Disk	150	Offset Disk, 12'	1.50						Tractor
Sep	1.0	Laser Level	150	Blade Scraper, 10'	2.00						Tractor
Sep	1.0	Make Borders	60	Border Disk, 6' Disk	5.00						Tractor
Sep	1.0	Preirrigate	1.25	Water, District	1.25	6.00	Al	0.00	AF		Irrigators
Sep	1.0	Knock Borders	60	Border Disk, 6' Disk	5.00						Tractor
Sep	1.0	Apply Fert/Ground	60	Fert. Side Dress Unit, 4Row	2.00	18-46-00, Dry	450.00	Lb	245.00	Tn	Tractor
Sep	1.0	List	100	Lister, 5 Bottom	3.00						Tractor
Sep	1.0	Shape Beds	100	Bed Shaper, 4 Rw	5.00	Imidacloprid	16.00	Oz	588.40	Ga	Tractor
Sep	1.0	Plant	100	Saddle Tk Sprayer, 2 Tk 8 Row	2.50	Leaf Lettuce Sd	800.00	Th	0.36	Th	Tractor
Sep	1.0	Set Sprinklers	60	Sprinkler Trailer	5.70						Tractor Irrigators
Sep	2.0	Apply Insecticide/Air				Methomyl	2.00	Pt	48.94	Ga	
Sep	1.0	Apply Herbicide/Air				Permethrin	8.00	Pt	108.50	Ga	
Sep	5.0	Irrigate/Sec Sys		CST Air Spray, 5 Ga w/ Herb.	11.00	Bensulide	10.00	Pt	42.58	Ga	4.30 Ac
Sep	1.0	Remove Sprinklers	60	Sprinkler Trailer	5.70	Water, District	1.10	Al	0.00	AF	Irrigators
Sep	1.0	Make Ditches		Motor Grader, 12'	40.00						Tractor
Sep	10.0	Irrigate			0.75	Water, District	4.00	Al	0.00	AF	Irrigators
Sep	1.0	Cultivate	60	Cultivator, Sweep, 4 Rw	1.00						Tractor
Sep	1.0	Thinning		CST Thinning							75.00 Ac
Oct	2.0	Apply Insect./Ground	60	Manual Spray Rig, 150 g on	5.00	Spinosad	6.00	Oz	609.67	Ga	Tractor
Oct	1.0	Apply Fert/Side Dress	60	Cultivator, Sweep, 4 Rw	1.00	46-00-00, Urea 46	280.00	Lb	271.17	Tn	Tractor
Nov	1.0	Harvest, Load & Haul		Fert. Side Dress Unit, 4Row							4.50 Ct
Nov	1.0	Disk Residue	175	Offset Disk, 18'	1.50						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 6F Operations Calendar; Fall Leaf Lettuce, 2001

COUNTY: Yuma FARM: Western Arizona Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop
 CROP: Lettuce, Leaf ACRES: 1 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 1310 Ct/Acre PREVIOUS CROP: Mixed Greens DATE: 03/25/2001

No.	Operation	Month and Times Operation Performed											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip								1 C				
2	Disk								2 C	1 C			
3	Laser Level									1 C			
4	Make Borders									1 C			
5	Preirrigate									1 C			
6	Knock Borders									1 C			
7	Apply Fert/Ground									1 C			
8	List									1 C			
9	Bed Shaping/Admire											1 C	
10	Plant									1 C			
11	Set Sprinklers									1 C			
13	Apply Herbicide/Air									1 C			
14	Irrigate/Sec Sys									5 C			
15	Remove Sprinklers									1 C			
16	Make Ditches											1 C	
17	Irrigate									1 C			
18	Apply Insecticide/Air												
19	Irrigate/Run Fertilizer												
20	Thinning												
21	Cultivate												
22	Apply Fungicide/Ground												
23	Apply Insect/Ground												
24	Bird Control												
25	Make Ditches												
26	Irrigate/Run Fertilizer												
27	Hand Weeding												
28	Apply Insect./Ground												
29	Knock Borders												
30	Knock Ditches												
31	Harvest, Load & Haul												
32	Disk Residue												

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

Table 7A. Income and Cash Operating Summary; Fall Lettuce, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 823.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Lettuce	Crtn	823.00	\$5.26	\$4,328.98	\$4,328.98	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					90.78	_____
Tractor/Self Propelled				30.73		_____
Irrigation				35.09		_____
Other/ Contract				24.96		_____
Chemicals and Custom Applications					587.48	_____
Fertilizer				170.14		_____
Insecticide				290.38		_____
Herbicide				74.12		_____
Other Chemicals				52.85		_____
Farm Machinery and Vehicles					69.77	_____
Diesel Fuel				18.33		_____
Gasoline				14.03		_____
Repairs and Maintenance				37.41		_____
Irrigation Water (excluding labor)					0.00	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs &					284.50	_____
Seed/Transplants				95.40		_____
Other Services and Rentals				189.10		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					1032.53	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					2047.20	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					2047.20	_____
OPERATING OVERHEAD -> PICKUP USE					13.17	_____
OPERATING INTEREST AT 10.0%					194.61	_____
TOTAL CASH OPERATING EXPENSES					\$3,287.51	_____
RETURNS OVER CASH OPERATING EXPENSES					\$1,041.47	_____

Notes: The above figures do not include ownership costs, see table B for detailed cost allocation.
 ** A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 7B. Allocations of Ownership Costs; Fall Lettuce, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 823.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$5.26 / Ct	\$4,328.98		\$4,328.98	
TOTAL OPERATING EXPENSES	\$3,287.51		\$3,287.51	
RETURN OVER CASH OPERATING EXPENSES		\$1,041.47		\$1,041.47
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	7.60		7.60	
General and Office Overhead (5.0%of Total Operating Exp.)	164.38		164.38	
General Farm Maintenance (3.0% of Total Operating Exp.)	98.63		98.63	
Total Cash Overhead Expenses	270.60		270.60	
Total Cash Operating and Overhead Cost	3,558.11		3,558.11	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$770.87		\$770.87
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			34.88	
Interest on Equity, Machinery and Vehicles			12.91	
Total Capital Allocations			47.79	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		\$770.87		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				\$723.08
Land Cost / Rent or Lease	550.00		550.00	
Water Assessment **	31.00		31.00	
Total Land Costs	581.00		581.00	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$189.87		
RETURNS TO MANAGEMENT AND RISK ----->				\$142.08
Management Services (8% of Total Operation Expenses)			263.00	
TOTAL OWNERSHIP COST	851.60		1,162.39	
TOTAL COST	\$4,139.11		\$4,449.90	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$189.87		
RETURNS TO RISK (PROFITS) ----->				(\$120.92)
Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		\$3.99		\$3.99
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$1.03		\$1.41
BREAK-EVEN PRICE TO COVER TOTAL COST		\$5.03		\$5.41

Table 7C. Variable Operating Costs; Fall Lettuce, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 823.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

No.	First Month	Operation	---- Hours * ----		---- Operating Costs (\$/ACRE *) Per Operation ----					Tot. Cash Expenses	Class	
			Machine	Labor	Fuel/Rps.	Labor	Cust/Serv.	Materials	Total			Times
1	Jul	Rip	0.450	0.500	7.23	4.39			11.62	1.0	11.62	L
2	Jul	Disk	0.150	0.167	2.85	1.47			4.31	2.0	8.63	L
3	Jul	Laser Level	0.450	0.500	6.88	4.39			11.27	1.0	11.27	L
4	Jul	Make Borders	0.023	0.025	0.13	0.22			0.35	1.0	0.35	G
5	Jul	Preirrigate		0.667		5.12			5.12	1.0	5.12	G
6	Jul	Soil Fertility					3.00		3.00	1.0	3.00	G
7	Jul	Dust Control	0.009	0.010	0.16	0.16			0.32	160.0	50.76	G
8	Aug	Apply Fert/Ground	0.075	0.083	0.47	0.73		62.01	63.21	1.0	63.21	G
9	Aug	Apply Herbicide/Ground	0.150	0.167	2.56	1.47		74.12	78.14	1.0	78.14	G
10	Sep	List	0.180	0.200	2.02	1.75			3.78	1.0	3.78	L
11	Sep	Shape Beds	0.180	0.200	2.19	1.75		77.97	81.91	1.0	81.91	L
12	Sep	Plant	0.450	0.500	7.36	4.39		95.40	107.14	1.0	107.14	L
13	Sep	Set Sprinklers	0.158	0.350	0.91	2.88			3.79	1.0	3.79	G
14	Sep	Apply Insecticide/Air					4.75	27.93	32.68	1.0	32.68	G
15	Sep	Irrigate/Sec Sys		0.091		0.70			0.70	10.0	6.98	G
16	Sep	Field Scouting					10.00		10.00	3.0	30.00	G
17	Sep	Apply Insect./Ground	0.015	0.017	0.09	0.15	4.75	30.29	35.28	1.0	35.28	G
18	Sep	Apply Insect./Ground	0.015	0.017	0.09	0.15		54.69	54.93	1.0	54.93	G
19	Sep	Irrigate/Run Fertilizer		0.599		4.59		8.01	12.60	1.0	12.60	G
20	Sep	Remove Sprinklers	0.158	0.350	0.91	2.88			3.79	1.0	3.79	G
21	Sep	Make Ditches	0.022	0.025	0.32	0.22			0.54	3.0	1.62	G
22	Oct	Irrigate/Run Fertilizer		0.200		1.53		16.02	17.55	4.0	70.21	G
23	Oct	Thinning					75.00		75.00	1.0	75.00	G
24	Oct	Cultivate	0.225	0.250	2.82	2.19		16.02	21.04	1.0	21.04	G
25	Oct	Apply Fungicide/Ground	0.015	0.017	0.09	0.15		52.13	52.37	1.0	52.37	G
26	Oct	Apply Insect./Ground	0.015	0.017	0.09	0.15		17.83	18.06	1.0	18.06	G
27	Nov	Bird Control					6.10		6.10	1.0	6.10	G
28	Nov	Apply Insecticide/Air					4.75	30.29	35.04	1.0	35.04	G
29	Nov	Irrigate/Run Fertilizer		0.200		1.53		20.02	21.56	1.0	21.56	G
30	Nov	Hand Weeding					75.00		75.00	1.0	75.00	G
31	Nov	Apply Insect./Ground	0.015	0.017	0.09	0.15		18.92	19.15	2.0	38.31	G
32	Dec	Knock Borders	0.022	0.025	0.12	0.22			0.34	1.0	0.34	G
33	Dec	Knock Ditches	0.022	0.025	0.32	0.22			0.54	1.0	0.54	G
34	Dec	Harvest, Load & Haul 853					2047.20		2047.20	1.0	2047.20	H
35	Jan	Disk Residue 853 Ct	0.150	0.167	2.85	1.47			4.31	1.0	4.31	L
		Pickup Use 50 Mi/Acre	1.667		13.17				13.17		13.17	
		Operating Interest at 10.0					194.61		194.61		194.61	
		TOTAL CASH OPERATING EXPENSES (includes all times over):							3287.51		3287.51	T

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*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 \$31.00 per Acre is included as an ownership cost in Table B.

Table 7C. Variable Operating Costs; Fall Lettuce, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 823.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

OPERATING COST SUMMARY BY CLASS

Land Preparation (L)	228.66
Growing (G)	803.87
Harvest (H)	2,047.20
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	207.78
Total (T)	\$3,287.51

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

Prices ->	- 25%	- 10%	Budgeted	+ 10%	+ 25%		
Yields	\$3.95	\$4.73	\$5.26	\$5.79	\$6.58	Break-even Price	
- 25%	617.3	-198.00	289.01	613.69	938.36	1,425.37	4.27
- 10%	740.7	-18.07	566.35	955.95	1,345.56	1,929.97	3.97
Budgeted	823.0	101.89	751.23	1,184.13	1,617.03	2,266.38	3.82
+ 10%	905.3	221.84	936.12	1,412.31	1,888.50	2,602.78	3.70
+ 25%	1,028.8	401.77	1,213.45	1,754.58	2,295.70	3,107.38	3.55
Break-even Yield	753.10	488.60	395.90	332.77	268.54		

Table 7D. Resource and Cash Flow Requirements; Fall Lettuce, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 823.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

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	1.0	12.0	2.13		21.55	18.60			3.00	43.15
AUG C			0.55		7.87	6.87	136.13			150.87
SEP C	5.0	5.5	2.56		17.50	23.26	190.89	95.40	19.75	346.80
OCT C	7.0	11.5	2.74		9.07	23.91	110.01		85.00	227.99
NOV C	2.0	6.0	0.74		5.24	8.12	85.26		95.85	194.47
DEC C	2.0	6.0	0.79		5.69	8.55	50.96		1023.60	1088.80
JAN N			0.17		2.85	1.47			1023.60	1027.65
Pickup Use 50 Mi/Acre					13.17					13.17
Operating Interest at 10.0									194.61	194.61
Water Assessment				**						
Total	17.0	41.0	9.68		82.67	90.78	573.25	95.40	2445.41	3287.51
%					2.51	2.76	17.44	2.90	74.38	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 263.3
 Total P 202.5
 Total Labor 9.7
 Total Water 41.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 20.7 Gal
 Unleaded Gas 15.1 Gal
 All Direct Energy 4.8 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 6 Rw	0.18 Hr	Border Disk, 6' Disk	0.04 Hr	Drag Scraper, 14'	0.45 Hr
Fertilizer Broadcaster,	0.08 Hr	Fertilizer Injector, 4 Row	0.22 Hr	High Clearance Sprayer,	0.09 Hr
Laser, Complete System	0.45 Hr	Lister, 5 Bottom	0.18 Hr	Motor Grader, 12'	0.09 Hr
Offset Disk, 18'	0.60 Hr	Pickup Truck, 1/2 Ton	1.67 Hr	Planter, Stanhay, 4 Row	0.45 Hr
Saddle Tk Sprayer, 2 Tk 8	0.33 Hr	Section Harrow, 3 Section	0.15 Hr	Sled Cultivator, 4Rw	0.22 Hr
Sprinkler Trailer	0.32 Hr	Tractor, 60 PTO HP	0.41 Hr	Tractor, 70 PTO HP,	0.02 Hr
Tractor, 80 PTO HP,	0.22 Hr	Tractor, 100 PTO HP	0.96 Hr	Tractor, 175 PTO HP,	0.45 Hr
Tractor, 235 Eng HP, Art.	0.90 Hr	Truck, 5 Ton w/1000 Gal	1.44 Hr	V-Ripper, 7 Shnk	0.45 Hr

MATERIALS REQUIREMENT (per Acre)

00-45-00, Treble Super.	450.00 Lb	20-00-00, Amm. Nitrate,	135.00 Ga	Benefin	2.00 Pt
Cypermethrin	12.00 Oz	Head Lettuce Sd	150.00 Th	Imidacloprid	16.00 Oz
Methomyl	10.00 Pt	Permethrin	2.00 Pt	Permethrin	2.00 Oz
Pronamide	2.00 Lb	Spinosad	12.00 Oz	Spreader-activator	6.40 Oz
Thiodicarb	2.00 Pt	Vinclozolin	2.00 Lb	Water, District	41.00 Al

LABOR REQUIREMENT (per Acre)

Irrigators	4.58 Hr	Tractor	3.50 Hr	Truck Driver	1.60 Hr
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*NOTE: P = Previous Year C = Current Year N = Next Year

** A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 7E. Schedule of Operations; Fall Lettuce, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 823.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

First No.	Month	Times	Operation	Equipment/ Custom Oper		Job Rate Acres/Hr	Material Use and Cost				Service Cost \$ / Unit	Labor Type
				HP	Self-Prop./ Implement		Name	Appl. Rate	\$ / Unit			
1	Jul	1.0	Rip	175	V-Ripper, 7 Shnk	2.00						Tractor
2	Jul	2.0	Disk	175	Offset Disk, 18'	6.00						Tractor
3	Jul	1.0	Laser Level	175	Drag Scraper, 14'	2.00						Tractor
3					Laser, Complete System							
4	Jul	1.0	Make Borders	60	Border Disk, 6' Disk	40.00						Tractor
5	Jul	1.0	Preirrigate				Water, District	12.00	Al	0.00	AF	Irrigators
6	Jul	1.0	Soil Fertility		CST Soil Analysis (Surface)							3.00 Ac
7	Jul	160.0	Dust Control		Truck, 5 Ton w/1000 Gal Tank	100.00						Truck
8	Aug	1.0	Apply Fert/Ground	60	Fertilizer Broadcaster,	12.00	00-45-00, Treble	450.00	Lb	260.00	Tn	Tractor
9	Aug	1.0	Apply Herbicide/Ground	100	Saddle Tk Sprayer, 2 Tk 8	6.00	Benefin	2.00	Pt	8.69	Ga	Tractor
9					Offset Disk, 18'		Pronamide	2.00	Lb	26.27	Lb	
9					Section Harrow, 3 Section							
10	Sep	1.0	List	100	Lister, 5 Bottom	5.00						Tractor
11	Sep	1.0	Shape Beds	100	Bed Shaper, 6 Rw	5.00	Imidacloprid	16.00	Oz	588.40	Ga	Tractor
11					Saddle Tk Sprayer, 2 Tk 8 Row							
12	Sep	1.0	Plant	100	Planter, Stanhay, 4 Row	2.00	Head Lettuce Sd	150.00	Th	0.60	Th	Tractor
13	Sep	1.0	Set Sprinklers	60	Sprinkler Trailer	5.70						Tractor
13												Irrigators
14	Sep	1.0	Apply Insecticide/Air		CST Air Spray, 5 Gal Mix		Methomyl	4.00	Pt	48.94	Ga	4.75 Ac
14							Permethrin	2.00	Oz	120.50	Ga	
15	Sep	10.0	Irrigate/Sec Sys				Water, District	1.10	Al	0.00	AF	Irrigators
16	Sep	3.0	Field Scouting		CST Scout For Insects							10.00 Ac
17	Sep	1.0	Apply Insect./Ground		CST Air Spray, 5 Gal Mix	60.00	Spinosad	6.00	Oz	609.67	Ga	4.75 Ac
18	Sep	1.0	Apply Insect./Ground		High Clearance Sprayer, 18	60.00	Methomyl	4.00	Pt	48.94	Ga	Tractor
18							Permethrin	2.00	Pt	108.50	Ga	
19	Sep	1.0	Irrigate/Run Fertilizer				Water, District	3.00	Al	0.00	AF	Irrigators
19							20-00-00, Amm. Nitrate,	10.00	Ga	155.00	Tn	
20	Sep	1.0	Remove Sprinklers	60	Sprinkler Trailer	5.70						Tractor
20												Irrigators
21	Sep	3.0	Make Ditches		Motor Grader, 12'	40.00						Tractor
22	Oct	4.0	Irrigate/Run Fertilizer				Water, District	3.00	Al	0.00	AF	Irrigators
22							20-00-00, Amm. Nitrate,	20.00	Ga	155.00	Tn	
23	Oct	1.0	Thinning		CST Thinning							75.00 Ac
24	Oct	1.0	Cultivate	80	Sled Cultivator, 4Rw	4.00	20-00-00, Amm. Nitrate,	20.00	Ga	155.00	Tn	Tractor
24					Fertilizer Injector, 4 Row							
25	Oct	1.0	Apply Fungicide/Ground		High Clearance Sprayer, 18	60.00	Vinclozolin	2.00	Lb	24.59	Lb	Tractor
26	Oct	1.0	Apply Insect./Ground		High Clearance Sprayer, 18	60.00	Thiodicarb	2.00	Pt	49.04	Ga	Tractor
26							Cypermethrin	2.00	Oz	291.66	Ga	
27	Nov	1.0	Bird Control		CST Bird Control							6.10 Hr
28	Nov	1.0	Apply Insecticide/Air		CST Air Spray, 5 Gal Mix		Spinosad	6.00	Oz	609.67	Ga	4.75 Ac

Table 7E. Schedule of Operations; Fall Lettuce, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 823.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

First No. Month Times	Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acres/Hr	Material Use and Cost				Service Cost \$ / Unit	Labor Type
				Name	Appl. Rate	\$ / Unit			
29 Nov 1.0	Irrigate/Run Fertilizer			Water, District	3.00 Al	0.00 AF		Irrigators	
29				20-00-00, Amm. Nitrate,	25.00 Ga	155.00 Tn			
30 Nov 1.0	Hand Weeding	CST Hand Weeding					75.00 Ac		
31 Nov 2.0	Apply Insect./Ground	High Clearance Sprayer, 18	60.00	Methomyl	1.00 Pt	48.94 Ga		Tractor	
31				Cypermethrin	5.00 Oz	291.66 Ga			
31				Spreader-activator	3.20 Oz	13.50 Ga			
32 Dec 1.0	Knock Borders	70 Border Disk, 6' Disk	40.00					Tractor	
33 Dec 1.0	Knock Ditches	Motor Grader, 12'	40.00					Tractor	
34 Dec 1.0	Harvest, Load & Haul	CST Harv/pack/haul Lettuce					2.40 Ct		
35 Jan 1.0	Disk Residue	175 Offset Disk, 18'	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 7F Operations Calendar; Fall Lettuce, 2001

COUNTY: Yuma FARM: Western Arizona Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop
 CROP: Lettuce, Iceberg ACRES: 1 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 853 Ct/Acre PREVIOUS CROP: Wheat, Winter DATE: 03/25/2001

No.	Operation	Month and Times Operation Performed											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip							1 C					
2	Disk							2 C					
3	Laser Level							1 C					
4	Make Borders							1 C					
5	Preirrigate							1 C					
6	Soil Fertility							1 C					
7	Dust Control							10 C	30 C	30 C	30 C	30 C	30 C
8	Apply Fert/Ground								1 C				
9	Apply Herbicide/Ground								1 C				
10	List									1 C			
11	Bed Shaping/Admire										1 C		
12	Plant									1 C			
13	Set Sprinklers									1 C			
14	Apply Insecticide/Air										1 C		
15	Irrigate/Sec Sys									5 C	5 C		
16	Field Scouting									1 C	1 C	1 C	
17	Apply Insect/Ground										1 C		
18	Apply Insect/Ground										1 C		
19	Irrigate/Run Fertilizer										1 C		
20	Remove Sprinklers										1 C		
21	Make Ditches										1 C	1 C	1 C
22	Irrigate/Run Fertilizer										1 C	1 C	2 C
23	Thinning										1 C		
24	Cultivate										1 C		
25	Apply Fungicide/Ground										1 C		
26	Apply Insect/Ground											1 C	
27	Bird Control											1 C	
28	Apply Insecticide/Air												1 C
29	Irrigate/Run Fertilizer											1 C	
30	Hand Weeding											1 C	
31	Apply Insect./Ground												1 C
	1 C												
32	Knock Borders												1 C
33	Knock Ditches												.5 C
34	Harvest, Load & Haul		.5 N										
35	Disk Residue		1 N										

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

Table 8A. Income and Cash Operating Summary; Spring Cantaloupe, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 811.0 Ct / Acre PREVIOUS CROP: Lettuce, Iceberg DATE: 8/13/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Crt	811.00	\$6.98	\$5,660.78	\$5,660.78	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					89.20	_____
Tractor/Self Propelled				50.35		_____
Irrigation				38.86		_____
Chemicals and Custom Applications					381.12	_____
Fertilizer				180.13		_____
Insecticide				98.29		_____
Herbicide				56.42		_____
Other Chemicals				46.28		_____
Farm Machinery and Vehicles					59.79	_____
Diesel Fuel				25.72		_____
Repairs and Maintenance				34.07		_____
Irrigation Water (excluding labor)					0.00	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs &					263.06	_____
Seed/Transplants				20.06		_____
Other Services and Rentals				243.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					793.17	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					3392.00	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					3392.00	_____
OPERATING OVERHEAD -> PICKUP USE					13.17	_____
OPERATING INTEREST AT 10.0%					28.31	_____
TOTAL CASH OPERATING EXPENSES					\$4,226.65	_____
RETURNS OVER CASH OPERATING EXPENSES					\$1,434.13	_____

Notes: The above figures do not include ownership costs, see table B for detailed cost allocation.
 ** A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 8B. Allocations of Ownership Costs; Spring Cantaloupe, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 811.0 Ct / Acre PREVIOUS CROP: Lettuce, Iceberg DATE: 8/13/01

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Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$6.98 / Ct	\$5,660.78		\$5,660.78	
TOTAL OPERATING EXPENSES	\$4,226.65		\$4,226.65	
RETURN OVER CASH OPERATING EXPENSES		\$1,434.13		\$1,434.13
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	5.38		5.38	
General and Office Overhead (5.0% of Total Operating Exp.)	211.33		211.33	
General Farm Maintenance (3.0% of Total Operating Exp.)	126.80		126.80	
Total Cash Overhead Expenses	343.51		343.51	
Total Cash Operating and Overhead Cost	4,570.17		4,570.17	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$1,090.61		\$1,090.61
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			31.42	
Interest on Equity, Machinery and Vehicles			12.48	
Total Capital Allocations			43.89	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		\$1,090.61		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				\$1,046.72
Land Cost / Rent or Lease	550.00		550.00	
Water Assessment **	31.00		31.00	
Total Land Costs	581.00		581.00	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$509.61		
RETURNS TO MANAGEMENT AND RISK ----->				\$465.72
Management Services (8% of Total Operation Expenses)			338.13	
TOTAL OWNERSHIP COST	924.51		1,306.54	
TOTAL COST	\$5,151.17		\$5,533.20	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$509.61		
RETURNS TO RISK (PROFITS) ----->				\$127.58
Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		\$5.21		\$5.21
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$1.14		\$1.61
BREAK-EVEN PRICE TO COVER TOTAL COST		\$6.35		\$6.82

Table 8C. Variable Operating Costs; Spring Cantaloupe, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 811.0 Ct / Acre PREVIOUS CROP: Lettuce, Iceberg DATE: 8/13/01

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No.	First Month	Operation	---- Hours * ----		---- Operating Costs (\$/ACRE *) Per Operation ----					Tot. Cash Expenses	Class	
			Machine	Labor	Fuel/Rps.	Labor	Cust/Serv.	Materials	Total			Times
1	Feb	Disk	0.150	0.167	2.85	1.47			4.31	1.0	4.31	L
2	Feb	Rip	0.450	0.500	7.23	4.39			11.62	1.0	11.62	L
3	Feb	Laser Level	0.450	0.500	6.59	4.39			10.98	1.0	10.98	L
4	Feb	Soil Fertility					3.00		3.00	1.0	3.00	G
5	Feb	Apply Fert/Ground	0.180	0.200	1.84	1.75		52.47	56.06	1.0	56.06	G
6	Feb	Apply Herbicide/Ground	0.225	0.250	2.43	2.19		56.42	61.04	1.0	61.04	G
7	Feb	Incorporate Herbicide	0.225	0.250	3.22	2.19			5.41	1.0	5.41	G
8	Feb	List	0.225	0.250	2.53	2.19			4.72	1.0	4.72	L
9	Mar	Shape Beds	0.180	0.200	2.62	1.75		77.97	82.34	1.0	82.34	L
10	Mar	Plant	0.360	0.400	4.43	3.51		20.06	28.00	1.0	28.00	L
11	Mar	Irrigate		0.667		5.11			5.11	2.0	10.23	G
12	Mar	Irrigate		0.267		2.05			2.05	14.0	28.63	G
13	Mar	Cultivate	0.225	0.250	1.75	2.19			3.95	6.0	23.69	G
14	Mar	Spike Furrows	0.225	0.250	1.69	2.19			3.89	3.0	11.66	G
15	Mar	Apply Fert/Ground	0.257	0.286	3.51	2.51		63.83	69.85	2.0	139.70	G
16	Mar	Thinning					75.00		75.00	1.0	75.00	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	Apr	Apply Insecticide/Air					4.75	22.79	27.54	2.0	55.08	G
20	May	Apply Insecticide/Air					4.75	6.78	11.53	1.0	11.53	G
21	May	Harvest 848 Ct						3392.00	3392.00	1.0	3392.00	H
22	Jun	Disk Residue 848 Ct	0.180	0.200	3.42	1.75			5.17	1.0	5.17	L
		Pickup Use 50 Mi/Acre	1.667		13.17						13.17	
		Operating Interest at 10.0					28.31				28.31	
TOTAL CASH OPERATING EXPENSES (includes all times over):											4226.65	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 \$31.00 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS

Land Preparation (L)	147.15
Growing (G)	646.02
Harvest (H)	3,392.00
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	41.48
Total (T)	\$4,226.65

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	Break-even Price
Yields		\$5.24	\$6.28	\$6.98	\$7.68	\$8.73	
- 25%	608.3	-325.65	311.19	735.74	1,160.30	1,797.14	5.77
- 10%	729.9	-197.61	566.59	1,076.06	1,585.53	2,349.74	5.51
Budgeted	811.0	-112.26	736.86	1,302.94	1,869.02	2,718.13	5.37
+ 10%	892.1	-26.90	907.13	1,529.82	2,152.50	3,086.53	5.27
Break-even Yield		917.66	460.03	345.25	276.31	212.62	

Table 8D. Resource and Cash Flow Requirements; Spring Cantaloupe, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 811.0 Ct / Acre PREVIOUS CROP: Lettuce, Iceberg DATE: 8/13/01

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			2.12		26.68	18.57	108.89		3.00	157.14
MAR C	5.0	18.0	4.02		17.53	32.90	141.80	20.06	75.00	287.29
APR C	6.0	12.0	2.64		8.72	21.36	86.62		169.74	286.44
MAY C	5.0	10.0	1.83		3.45	14.61	29.57		1705.50	1753.13
JUN C			0.20		3.42	1.75			1696.00	1701.17
Pickup Use 50 Mi/Acre					13.17					13.17
Operating Interest at 10.0									28.31	28.31
Water Assessment				**						
Total	16.0	40.0	10.81		72.97	89.19	366.88	20.06	3677.55	4226.65
%					1.73	2.11	8.68	0.47	87.01	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 149.6
 Total P 206.2
 Total K 31.1
 Total Labor 10.8
 Total Water 40.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 29.0 Gal
 Unleaded Gas 5.0 Gal
 All Direct Energy 4.7 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw 0.18 Hr	Cultivator, Sweep, 4 Rw 1.35 Hr	Directed Spray Rig, 8 0.22 Hr
Disk-Lister, 4 Rw 0.22 Hr	Drag Scraper, 10' 0.45 Hr	Fertilizer Broadcaster, 0.18 Hr
Fertilizer Injector, 4 Row 0.51 Hr	Furrow Spike, 4 Rw 0.67 Hr	Laser, Complete System 0.45 Hr
Lister, 5 Bottom 0.22 Hr	Offset Disk, 18' 0.33 Hr	Pickup Truck, 1/2 Ton 1.67 Hr
Planter, Drill Type, 4 Row 0.36 Hr	Saddle Tk Sprayer, 2 Tk 8 0.18 Hr	Tractor, 70 PTO HP 2.38 Hr
Tractor, 100 PTO HP 1.37 Hr	Tractor, 125 PTO HP 0.18 Hr	Tractor, 175 PTO HP, 0.33 Hr
Tractor, 235 Eng HP, Art. 0.90 Hr	V-Ripper, 7 Shnk 0.45 Hr	

MATERIALS REQUIREMENT (per Acre)

11-48-00, Dry 300.00 Lb	15-08-04, Lqd 70.00 Ga	Benomyl 2.00 Lb
Bensulide 10.00 Pt	Cantaloupe Sd 2.00 Lb	Endosulfan 3.00 Pt
Esfenvalerate 2.00 Oz	Imidacloprid 16.00 Oz	Water, District 40.00 AI

LABOR REQUIREMENT (per Acre)

Irrigators 5.07 Hr Tractor 5.74 Hr

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

** A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 8E. Schedule of Operations; Spring Cantaloupe, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 811.0 Ct / Acre PREVIOUS CROP: Lettuce, Iceberg DATE: 8/13/01

First No. Month Times	Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acres/Hr	Material Use and Cost Name	Appl. Rate \$ / Unit	Service Cost \$ / Unit	Labor Type
Feb 1.0	Disk	175 Offset Disk, 18'	6.00				Tractor
Feb 1.0	Rip	175 V-Ripper, 7 Shnk	2.00				Tractor
Feb 1.0	Laser Level	175 Drag Scraper, 10' Laser, Complete System	2.00				Tractor
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	Apply Herbicide/Ground	100 Directed Spray Rig, 8	4.00	Bensulide	10.00 Pt	42.58 Ga	Tractor
Feb 1.0	Incorporate Herbicide	100 Disk-Lister, 4 Rw	4.00				Tractor
Feb 1.0	List	100 Lister, 5 Bottom	4.00				Tractor
Mar 1.0	Shape Beds	125 Bed Shaper, 4 Rw Saddle Tk Sprayer, 2 Tk 8 Row	5.00	Imidaclopid	16.00 Oz	588.40 Ga	Tractor
Mar 1.0	Plant	70 Planter, Drill Type, 4 Row	2.50	Cantaloupe Sd	2.00 Lb	9.46 Lb	Tractor
Mar 2.0	Irrigate		1.50	Water, District	6.00 Al	0.00 AF	Irrigators
Mar 14.0	Irrigate		3.75	Water, District	2.00 Al	0.00 AF	Irrigators
Mar 6.0	Cultivate	70 Cultivator, Sweep, 4 Rw	4.00				Tractor
Mar 3.0	Spike Furrows	70 Furrow Spike, 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
Mar 1.0	Thinning	CST Thinning				75.00 Ac	
Apr 2.0	Hand Weeding	CST Hand Weeding				75.00 Ac	
Apr 1.0	Pollinate	CST Bee Hive Rental				15.00 Ac	
Apr 2.0	Apply Insecticide/Air	CST Air Spray, 5 Gal Mix		Benomyl	1.00 Lb	17.35 Lb	4.75 Ac
				Endosulfan	1.00 Pt	33.17 Ga	
May 1.0	Apply Insecticide/Air	CST Air Spray, 5 Gal Mix		Endosulfan	1.00 Pt	33.17 Ga	4.75 Ac
				Esfenvalerate	2.00 Oz	144.04 Ga	
May 1.0	Harvest	CST Harv/pack/haul Melons				4.00 Ct	
Jun 1.0	Disk Residue	175 Offset Disk, 18'	5.00				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; Spring Cantaloupe, 2001

COUNTY: Yuma FARM: Western Arizona Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 848 Ct/Acre PREVIOUS CROP: Carrots DATE: 03/25/2001

No.	Operation	Month and Times Operation Performed											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Disk		1 C										
2	Rip		1 C										
3	Laser Level		1 C										
4	Soil Fertility		1 C										
5	Apply Fert/Ground		1 C										
6	Apply Herbicide/Ground		1 C										
7	Incorporate Herbicide		1 C										
8	List		1 C										
9	Bed Shaping/Admire				1 C								
10	Plant			1 C									
11	Irrigate			2 C									
12	Irrigate			3 C	6 C	5 C							
13	Cultivate			3 C	2 C	1 C							
14	Spike Furrows			1 C	1 C	1 C							
15	Apply Fert/Ground			1 C	1 C								
16	Thinning			1 C									
17	Hand Weeding				2 C								
18	Pollinate				1 C								
19	Apply Insecticide/Air					1 C	1 C						
20	Apply Insecticide/Air							1 C					
21	Harvest					.5 C	.5 C						
22	Disk Residue						1 C						

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

Table 9A. Income and Cash Operating Summary; Spring Honeydews, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Honeydew Melons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 473.0 Ct / Acre PREVIOUS CROP: Safflower DATE: 8/13/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Crtm	473.00	\$6.63	\$3,135.99	\$3,135.99	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					89.20	_____
Tractor/Self Propelled				50.35		_____
Irrigation				38.86		_____
Chemicals and Custom Applications					361.93	_____
Fertilizer				180.13		_____
Insecticide				102.24		_____
Herbicide				56.42		_____
Other Chemicals				23.14		_____
Farm Machinery and Vehicles					57.08	_____
Diesel Fuel				24.12		_____
Repairs and Maintenance				32.96		_____
Irrigation Water (excluding labor)					0.00	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs &					285.97	_____
Seed/Transplants				42.97		_____
Other Services and Rentals				243.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					794.19	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					1812.00	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					1812.00	_____
OPERATING OVERHEAD -> PICKUP USE					13.17	_____
OPERATING INTEREST AT 10.0%					166.47	_____
TOTAL CASH OPERATING EXPENSES					\$2,785.83	_____
RETURNS OVER CASH OPERATING EXPENSES					\$350.16	_____

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

** A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 9B. Allocations of Ownership Costs; Spring Honeydews, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Honeydew Melons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 473.0 Ct / Acre PREVIOUS CROP: Safflower DATE: 8/13/01

Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$6.63 / Ct	\$3,135.99		\$3,135.99	
TOTAL OPERATING EXPENSES	\$2,785.83		\$2,785.83	
RETURN OVER CASH OPERATING EXPENSES		\$350.16		\$350.16
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	5.28		5.28	
General and Office Overhead (5.0% of Total Operating Exp.)	139.29		139.29	
General Farm Maintenance (3.0% of Total Operating Exp.)	83.58		83.58	
Total Cash Overhead Expenses	228.15		228.15	
Total Cash Operating and Overhead Cost	3,013.98		3,013.98	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$122.01		\$122.01
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			30.85	
Interest on Equity, Machinery and Vehicles			12.36	
Total Capital Allocations			43.21	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		\$122.01		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				\$78.80
Land Cost / Rent or Lease	550.00		550.00	
Water Assessment **	31.00		31.00	
Total Land Costs	581.00		581.00	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		(\$458.99)		
RETURNS TO MANAGEMENT AND RISK ----->				(\$502.20)
Management Services (8% of Total Operation Expenses)			222.87	
TOTAL OWNERSHIP COST	809.15		1,075.22	
TOTAL COST	\$3,594.98		\$3,861.06	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		(\$458.99)		
RETURNS TO RISK (PROFITS) ----->				(\$725.07)
Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		\$5.89		\$5.89
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$1.71		\$2.27
BREAK-EVEN PRICE TO COVER TOTAL COST		\$7.60		\$8.16

Table 9C. Variable Operating Costs; Spring Honeydews, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Honeydew Melons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 473.0 Ct / Acre PREVIOUS CROP: Safflower DATE: 8/13/01

No.	First Month	Operation	---- Hours * ----		---- Operating Costs (\$/ACRE *) Per Operation ----					Tot. Cash Expenses	Class	
			Machine	Labor	Fuel/Rps.	Labor	Cust/Serv.	Materials	Total			Times
1	Feb	Disk	0.150	0.167	2.85	1.47			4.31	1.0	4.31	L
2	Feb	Rip	0.450	0.500	7.23	4.39			11.62	1.0	11.62	L
3	Feb	Laser Level	0.450	0.500	6.78	4.39			11.17	1.0	11.17	L
4	Feb	Soil Fertility					3.00		3.00	1.0	3.00	G
5	Feb	Apply Fert/Ground	0.180	0.200	1.84	1.75		52.47	56.06	1.0	56.06	G
6	Feb	Apply Herbicide/Ground	0.225	0.250	1.55	2.19		56.42	60.16	1.0	60.16	G
7	Feb	Incorporate Herbicide	0.225	0.250	3.22	2.19			5.41	1.0	5.41	G
8	Feb	List	0.225	0.250	2.53	2.19			4.72	1.0	4.72	L
9	Mar	Shape Beds	0.180	0.200	2.14	1.75		77.97	81.86	1.0	81.86	L
10	Mar	Plant	0.360	0.400	4.43	3.51		42.97	50.92	1.0	50.92	L
11	Mar	Irrigate		0.667		5.11			5.11	2.0	10.23	G
12	Mar	Irrigate		0.267		2.05			2.05	14.0	28.63	G
13	Mar	Cultivate	0.225	0.250	1.58	2.19			3.78	6.0	22.67	G
14	Mar	Spike Furrows	0.225	0.250	1.52	2.19			3.72	3.0	11.15	G
15	Mar	Apply Fert/Ground	0.257	0.286	3.51	2.51		63.83	69.85	2.0	139.70	G
16	Mar	Thinning					75.00		75.00	1.0	75.00	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	Apr	Apply Fungicide/Air					4.75	18.39	23.14	1.0	23.14	G
20	May	Apply Insecticide/Air					4.75	19.53	24.28	1.0	24.28	G
21	May	Harvest 453 Ct						1812.00	1812.00	1.0	1812.00	H
22	Jun	Disk Residue 453 Ct	0.180	0.200	3.42	1.75			5.17	1.0	5.17	L
		Pickup Use 50 Mi/Acre	1.667		13.17						13.17	
		Operating Interest at 10.0					166.47				166.47	
TOTAL CASH OPERATING EXPENSES (includes all times over):											2785.83	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 \$31.00 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS

Land Preparation (L)	169.77
Growing (G)	624.42
Harvest (H)	1,812.00
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	179.64
Total (T)	\$2,785.83

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		\$4.97	\$5.97	\$6.63	\$7.29	\$8.29	Break-even Price
- 25%	354.8	-552.37	-199.57	35.63	270.83	623.63	6.53
- 10%	425.7	-471.37	-48.01	234.23	516.47	939.82	6.08
Budgeted	473.0	-417.37	53.03	366.63	680.23	1,150.62	5.85
+ 10%	520.3	-363.37	154.07	499.03	843.98	1,361.42	5.67
Break-even Yield		838.59	448.18	342.02	276.52	214.82	

Table 9D. Resource and Cash Flow Requirements; Spring Honeydews, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Honeydew Melons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 473.0 Ct / Acre PREVIOUS CROP: Safflower DATE: 8/13/01

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			2.12		25.99	18.57	108.89		3.00	156.45
MAR C	5.0	18.0	4.02		16.36	32.90	141.80	42.97	75.00	309.03
APR C	6.0	12.0	2.64		8.21	21.36	82.22		169.75	281.54
MAY C	5.0	10.0	1.83		3.11	14.61	19.53		910.75	948.00
JUN C			0.20		3.42	1.75			906.00	911.17
Pickup Use 50 Mi/Acre					13.17					13.17
Operating Interest at 10.0									166.47	166.47
Water Assessment				**						
Total	16.0	40.0	10.81		70.26	89.19	352.44	42.97	2230.97	2706.57
%					2.52	3.20	12.65	1.54	80.08	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 149.6
 Total P 206.2
 Total K 31.1
 Total Labor 10.8
 Total Water 40.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 27.2 Gal
 Unleaded Gas 5.0 Gal
 All Direct Energy 4.4 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.18 Hr	Blade Scraper, 10'	0.45 Hr	Cultivator, Sweep, 4 Rw	1.35 Hr
Directed Spray Rig, 8	0.22 Hr	Disk-Lister, 4 Rw	0.22 Hr	Fertilizer Broadcaster,	0.18 Hr
Fertilizer Injector, 4 Row	0.51 Hr	Furrow Spike, 4 Rw	0.67 Hr	Laser, Complete System	0.45 Hr
Lister, 5 Bottom	0.22 Hr	Offset Disk, 18'	0.33 Hr	Pickup Truck, 1/2 Ton	1.67 Hr
Planter, Drill Type, 4 Row	0.36 Hr	Saddle Tk Sprayer, 2 Tk 8	0.18 Hr	Tractor, 60 PTO HP	2.25 Hr
Tractor, 70 PTO HP	0.36 Hr	Tractor, 100 PTO HP	1.32 Hr	Tractor, 175 PTO HP,	0.33 Hr
Tractor, 235 Eng HP, Art.	0.90 Hr	V-Ripper, 7 Shnk	0.45 Hr		

MATERIALS REQUIREMENT (per Acre)

11-48-00, Dry	300.00 Lb	15-08-04, Lqd	70.00 Ga	Benomyl	1.00 Lb
Bensulide	10.00 Pt	Endosulfan	2.00 Pt	Esfenvalerate	9.00 Oz
Honeydew Seeds	2.00 Th	Imidacloprid	16.00 Oz	Water, District	40.00 AI

LABOR REQUIREMENT (per Acre)

Irrigators	5.07 Hr	Tractor	5.74 Hr
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*NOTE: P = Previous Year C = Current Year N = Next Year

** A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 9E. Schedule of Operations; Spring Honeydews, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Honeydew Melons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 473.0 Ct / Acre PREVIOUS CROP: Safflower DATE: 8/13/01

First No. Month Times	Operation	Equipment/ Custom Oper		Job Rate Acre/Hr	Material Use and Cost				Service Cost \$ / Unit	Labor Type
		HP	Self-Prop./ Implement		Name	Appl. Rate	\$ / Unit			
Feb 1.0	Disk		175 Offset Disk, 18'	6.00						Tractor
Feb 1.0	Rip		175 V-Ripper, 7 Shnk	2.00						Tractor
Feb 1.0	Laser Level		175 Blade Scraper, 10'	2.00						Tractor
			Laser, Complete System							
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	Apply Herbicide/Ground		60 Directed Spray Rig, 8 Row	4.00	Bensulide	10.00 Pt	42.58 Ga			Tractor
Feb 1.0	Incorporate Herbicide		100 Disk-Lister, 4 Rw	4.00						Tractor
Feb 1.0	List		100 Lister, 5 Bottom	4.00						Tractor
Mar 1.0	Shape Beds		100 Bed Shaper, 4 Rw	5.00	Imidacloprid	16.00 Oz	588.40 Ga			Tractor
			Saddle Tk Sprayer, 2 Tk 8 Row							
Mar 1.0	Plant		70 Planter, Drill Type, 4 Row	2.50	Honeydew Seeds	2.00 Th	20.27 Th			Tractor
Mar 2.0	Irrigate			1.50	Water, District	6.00 Al	0.00 AF			Irrigators
Mar 14.0	Irrigate			3.75	Water, District	2.00 Al	0.00 AF			Irrigators
Mar 6.0	Cultivate		60 Cultivator, Sweep, 4 Rw	4.00						Tractor
Mar 3.0	Spike Furrows		60 Furrow Spike, 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
Mar 1.0	Thinning		CST Thinning						75.00 Ac	
Apr 2.0	Hand Weeding		CST Hand Weeding						75.00 Ac	
Apr 1.0	Pollinate		CST Bee Hive Rental						15.00 Ac	
Apr 1.0	Apply Fungicide/Air		CST Air Spray, 5 Gal Mix		Benomyl	1.00 Lb	17.35 Lb			4.75 Ac
May 1.0	Apply Insecticide/Air		CST Air Spray, 5 Gal Mix		Esfenvalerate	9.00 Oz	144.04 Ga			4.75 Ac
					Endosulfan	2.00 Pt	33.17 Ga			
May 1.0	Harvest		CST Harv/pack/haul Melons						4.00 Ct	
Jun 1.0	Disk Residue		175 Offset Disk, 18'	5.00						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 9F Operations Calendar; Spring Honeydews, 2001

COUNTY: Yuma FARM: Western Arizona Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop
 CROP: Honeydew Melons ACRES: 1 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 453 Ct/Acre PREVIOUS CROP: Carrots DATE: 03/25/2001

No.	Operation	Month and Times Operation Performed											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Disk		1 C										
2	Rip		1 C										
3	Laser Level		1 C										
4	Soil Fertility		1 C										
5	Apply Fert/Ground		1 C										
6	Apply Herbicide/Ground		1 C										
7	Incorporate Herbicide		1 C										
8	List		1 C										
9	Bed Shaping/Admire				1 C								
10	Plant			1 C									
11	Irrigate			2 C									
12	Irrigate			3 C	6 C	5 C							
13	Cultivate			3 C	2 C	1 C							
14	Spike Furrows			1 C	1 C	1 C							
15	Apply Fert/Ground			1 C	1 C								
16	Thinning			1 C									
17	Hand Weeding				2 C								
18	Pollinate				1 C								
19	Apply Fungicide/Air				1 C								
20	Apply Insecticide/Air											1 C	
21	Harvest					.5 C	.5 C						
22	Disk Residue						1 C						

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

Table 10A. Income and Cash Operating Summary; Spring Lettuce, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 823.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Lettuce	Ctrn	823.00	\$5.26	\$4,328.98	\$4,328.98	_____
		0.00	\$0.00	\$0.00		_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					86.67	_____
Tractor/Self Propelled				31.52		_____
Irrigation				28.63		_____
Other/ Contract				26.52		_____
Chemicals and Custom Applications					445.96	_____
Fertilizer				152.59		_____
Insecticide				166.41		_____
Herbicide				74.12		_____
Other Chemicals				52.85		_____
Farm Machinery and Vehicles					73.51	_____
Diesel Fuel				19.47		_____
Gasoline				14.90		_____
Repairs and Maintenance				39.14		_____
Irrigation Water (excluding labor)					0.00	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs &					355.86	_____
Seed/Transplants				101.76		_____
Other Services and Rentals				254.10		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					962.00	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					1723.20	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					1723.20	_____
OPERATING OVERHEAD -> PICKUP USE					13.17	_____
OPERATING INTEREST AT 10.0%					302.17	_____
TOTAL CASH OPERATING EXPENSES					\$3,000.54	_____
RETURNS OVER CASH OPERATING EXPENSES					\$1,328.44	_____

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

** A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 10C. Variable Operating Costs; Spring Lettuce, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 823.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

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No.	First Month	Operation	---- Hours * ----		---- Operating Costs (\$/ACRE *) Per Operation ----					Tot. Cash Expenses	Class		
			Machine	Labor	Fuel/Rps.	Labor	Cust/Serv.	Materials	Total			Times	
1	Oct	Rip	0.450	0.500	7.23	4.39				11.62	1.0	11.62	L
2	Oct	Disk	0.150	0.167	2.85	1.46				4.31	2.0	8.62	L
3	Oct	Laser Level	0.450	0.500	6.59	4.39				10.98	1.0	10.98	L
4	Oct	Make Borders	0.023	0.025	0.13	0.22				0.35	1.0	0.35	G
5	Oct	Preirrigate		0.667		5.11				5.11	2.0	10.23	G
6	Oct	Soil Fertility					3.00			3.00	1.0	3.00	G
7	Oct	Dust Control	0.009	0.010	0.16	0.16				0.32	170.0	53.93	G
8	Nov	Apply Fert/Ground	0.180	0.200	1.13	1.75		52.47		55.36	1.0	55.36	G
9	Nov	Apply Herbicide/Ground	0.225	0.250	4.94	2.19		74.12		81.24	1.0	81.24	G
10	Nov	List	0.225	0.250	2.53	2.19				4.72	1.0	4.72	L
11	Nov	Shape Beds	0.180	0.200	2.19	1.75		78.15		82.09	1.0	82.09	L
12	Nov	Plant	0.360	0.400	5.89	3.51		101.76		111.15	1.0	111.15	L
13	Nov	Set Sprinklers	0.158	0.351	0.91	2.88				3.80	1.0	3.80	G
14	Nov	Irrigate/Sec Sys									10.0		G
15	Nov	Remove Sprinklers	0.158	0.351	0.91	2.88				3.80	1.0	3.80	G
16	Nov	Make Ditches	0.023	0.025	0.33	0.22				0.55	1.0	0.55	G
17	Dec	Field Scouting					10.00			10.00	2.0	20.00	G
18	Dec	Apply Insecticide/Air					4.75	30.29		35.04	1.0	35.04	G
19	Dec	Irrigate/Run Fertilizer		0.200		1.53		16.02		17.55	4.0	70.21	G
20	Dec	Thinning					75.00			75.00	2.0	150.00	G
21	Dec	Cultivate	0.225	0.250	3.63	2.19		16.02		21.84	1.0	21.84	G
22	Dec	Apply Fungicide/Ground	0.015	0.017	0.09	0.15		52.13		52.36	1.0	52.36	G
23	Jan	Apply Insect./Ground	0.015	0.017	0.09	0.15		17.98		18.21	3.0	54.63	G
24	Jan	Bird Control					6.10			6.10	1.0	6.10	G
25	Feb	Make Ditches	0.011	0.013	0.16	0.11				0.27	2.0	0.55	G
26	Feb	Irrigate/Run Fertilizer		0.200		1.53		20.02		21.56	1.0	21.56	G
27	Feb	Hand Weeding					75.00			75.00	1.0	75.00	G
28	Mar	Knock Borders	0.023	0.025	0.13	0.22				0.35	1.0	0.35	G
29	Mar	Knock Ditches	0.023	0.025	0.33	0.22				0.55	1.0	0.55	G
30	Mar	Harvest, Load & Haul 718					1723.20			1723.20	1.0	1723.20	H
31	Apr	Disk Residue 718 Ct	0.150	0.167	2.85	1.46				4.31	1.0	4.31	L
		Pickup Use 50 Mi/Acre	1.667		13.17							13.17	
		Operating Interest at 10.0					302.17					302.17	
TOTAL CASH OPERATING EXPENSES (includes all times over):											3000.54	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.
 A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 10C. Variable Operating Costs; Spring Lettuce, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 823.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

OPERATING COST SUMMARY BY CLASS

Land Preparation (L)	233.50
Growing (G)	728.50
Harvest (H)	1,723.20
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	315.34
Total (T)	\$3,000.54

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		\$3.95	\$4.73	\$5.26	\$5.79	\$6.58	Break-even Price
- 25%	617.3	5.53	492.54	817.21	1,141.89	1,628.90	3.94
- 10%	740.7	234.06	818.47	1,208.08	1,597.69	2,182.10	3.63
Budgeted	823.0	386.41	1,035.76	1,468.66	1,901.56	2,550.90	3.48
+ 10%	905.3	538.77	1,253.05	1,729.24	2,205.42	2,919.71	3.35
+ 25%	1,028.8	767.30	1,578.98	2,120.10	2,661.23	3,472.91	3.20
Break-even Yield		614.26	430.70	359.14	307.98	253.75	

Table 10D. Resource and Cash Flow Requirements; Spring Lettuce, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 823.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

Month *	Number Irrigations	Water Applied (inches)	Total Labor (Hrs)	Operating Costs (\$/ACRE *)							
				Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total	
OCT P	1.0	10.0	2.13		21.27	18.59				3.00	42.86
NOV P	6.0	10.0	3.14		22.43	28.10	204.73	101.76			357.02
DEC P	6.0	3.0	1.67		9.79	15.68	114.46			89.76	229.69
JAN C	1.0	3.0	0.52		4.92	6.36	34.00			91.10	136.38
FEB C	3.0	9.0	0.93		5.09	9.54	70.04			75.00	159.67
MAR C			0.38		5.55	5.37	17.98			861.60	890.50
APR C			0.27		4.46	3.02				861.60	869.08
Pickup Use 50 Mi/Acre					13.17						13.17
Operating Interest at 10.0										302.17	302.17
Water Assessment				**							
Total	17.0	35.0	9.03		86.68	86.66	441.21	101.76		2284.23	3000.54
%					2.89	2.89	14.70	3.39		76.13	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 276.8
 Total P 144.0
 Total Labor 9.0
 Total Water 35.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 22.0 Gal
 Unleaded Gas 15.7 Gal
 All Direct Energy 5.0 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 6 Rw	0.18 Hr	Border Disk, 6' Disk	0.05 Hr	Drag Scraper, 10'	0.45 Hr
Fertilizer Broadcaster,	0.18 Hr	Fertilizer Injector, 4 Row	0.22 Hr	High Clearance Sprayer,	0.06 Hr
Laser, Complete System	0.45 Hr	Lister, 5 Bottom	0.22 Hr	Motor Grader, 12'	0.07 Hr
Offset Disk, 18'	0.67 Hr	Pickup Truck, 1/2 Ton	1.67 Hr	Planter, Stanhay, 4 Row	0.36 Hr
Saddle Tk Sprayer, 2 Tk 8	0.41 Hr	Section Harrow, 3 Section	0.22 Hr	Sled Cultivator, 4Rw	0.22 Hr
Sprinkler Trailer	0.32 Hr	Tractor, 60 PTO HP	0.54 Hr	Tractor, 100 PTO HP	0.99 Hr
Tractor, 150 PTO HP	0.22 Hr	Tractor, 175 PTO HP,	0.45 Hr	Tractor, 235 Eng HP, Art.	0.90 Hr
Truck, 5 Ton w/1000 Gal	1.53 Hr	V-Ripper, 7 Shnk	0.45 Hr		

MATERIALS REQUIREMENT (per Acre)

11-48-00, Dry	300.00 Lb	20-00-00, Amm. Nitrate,	125.00 Ga	Benefin	2.00 Pt
Cypermethrin	6.00 Oz	Head Lettuce Sd	160.00 Th	Imidacloprid	16.00 Oz
Methomyl	6.00 Pt	Pronamide	2.00 Lb	Spinosad	6.00 Oz
Spreader-activator	6.40 Oz	Vinclozolin	2.00 Lb	Water, District	35.00 AI

LABOR REQUIREMENT (per Acre)

Irrigators	3.73 Hr	Tractor	3.59 Hr	Truck Driver	1.70 Hr
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*NOTE: P = Previous Year C = Current Year N = Next Year

** A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 10E. Schedule of Operations; Spring Lettuce, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 823.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 8/13/01

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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
1 Oct 1.0	Rip	175 V-Ripper, 7 Shnk	2.00				Tractor
2 Oct 2.0	Disk	175 Offset Disk, 18'	6.00				Tractor
3 Oct 1.0	Laser Level	175 Drag Scraper, 10'	2.00				Tractor
3		Laser, Complete System					
4 Oct 1.0	Make Borders	60 Border Disk, 6' Disk	40.00				Tractor
5 Oct 2.0	Preirrigate		1.50	Water, District	10.00 Al 0.00 AF		Irrigators
6 Oct 1.0	Soil Fertility	CST Soil Analysis (Surface)				3.00 Ac	
7 Oct 170.0	Dust Control	Truck, 5 Ton w/1000 Gal Tank	100.00				Truck
8 Nov 1.0	Apply Fert/Ground	60 Fertilizer Broadcaster,	5.00	11-48-00, Dry	300.00 Lb 330.00 Tn		Tractor
9 Nov 1.0	Apply Herbicide/Ground	150 Saddle Tk Sprayer, 2 Tk 8	4.00	Benefin	2.00 Pt 8.69 Ga		Tractor
9		Offset Disk, 18'		Pronamide	2.00 Lb 26.27 Lb		
9		Section Harrow, 3 Section					
10 Nov 1.0	List	100 Lister, 5 Bottom	4.00				Tractor
11 Nov 1.0	Shape Beds	100 Saddle Tk Sprayer, 2 Tk 8	5.00	Imidacloprid	16.00 Oz 588.40 Ga		Tractor
11		Bed Shaper, 6 Rw		Spreader-activator	1.60 Oz 13.50 Ga		
12 Nov 1.0	Plant	100 Planter, Stanhay, 4 Row	2.50	Head Lettuce Sd	160.00 Th 0.60 Th		Tractor
13 Nov 1.0	Set Sprinklers	60 Sprinkler Trailer	5.70				Tractor
13							Irrigators
14 Nov 10.0	Irrigate/Sec Sys		11.00	Water, District	0.00 Al 0.00 AF		
15 Nov 1.0	Remove Sprinklers	60 Sprinkler Trailer	5.70				Tractor
15							Irrigators
16 Nov 1.0	Make Ditches	Motor Grader, 12'	40.00				Tractor
17 Dec 2.0	Field Scouting	CST Scout For Insects				10.00 Ac	
18 Dec 1.0	Apply Insecticide/Air	CST Air Spray, 5 Gal Mix		Spinosad	6.00 Oz 609.67 Ga	4.75 Ac	
19 Dec 4.0	Irrigate/Run Fertilizer		5.00	Water, District	3.00 Al 0.00 AF		Irrigators
19				20-00-00, Amm. Nitrate,	20.00 Ga 155.00 Tn		
20 Dec 2.0	Thinning	CST Thinning				75.00 Ac	
21 Dec 1.0	Cultivate	100 Sled Cultivator, 4Rw	4.00	20-00-00, Amm. Nitrate,	20.00 Ga 155.00 Tn		Tractor
21		Fertilizer Injector, 4 Row					
22 Dec 1.0	Apply Fungicide/Ground	High Clearance Sprayer, 18	60.00	Vinclozolin	2.00 Lb 24.59 Lb		Tractor
23 Jan 3.0	Apply Insect./Ground	High Clearance Sprayer, 18	60.00	Methomyl	2.00 Pt 48.94 Ga		Tractor
23				Cypermethrin	2.00 Oz 291.66 Ga		
23				Spreader-activator	1.60 Oz 13.50 Ga		
24 Jan 1.0	Bird Control	CST Bird Control				6.10 Hr	
25 Feb 2.0	Make Ditches	Motor Grader, 12'	80.00				Tractor
26 Feb 1.0	Irrigate/Run Fertilizer		5.00	Water, District	3.00 Al 0.00 AF		Irrigators
26				20-00-00, Amm. Nitrate,	25.00 Ga 155.00 Tn		
27 Feb 1.0	Hand Weeding	CST Hand Weeding				75.00 Ac	
28 Mar 1.0	Knock Borders	60 Border Disk, 6' Disk	40.00				Tractor
29 Mar 1.0	Knock Ditches	Motor Grader, 12'	40.00				Tractor
30 Mar 1.0	Harvest, Load & Haul	CST Harv/pack/haul Lettuce				2.40 Ct	
31 Apr 1.0	Disk Residue	175 Offset Disk, 18'	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 10F Operations Calendar; Spring Lettuce, 2001

COUNTY: Yuma FARM: Western Arizona Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop
 CROP: Lettuce, Iceberg ACRES: 1 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 853 Ct/Acre PREVIOUS CROP: Wheat, Winter DATE: 03/25/2001

No.	Operation	Month and Times Operation Performed													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	Rip												1 P		
2	Disk												2 P		
3	Laser Level												1 P		
4	Make Borders												1 P		
5	Preirrigate											1 P	1 P		
6	Soil Fertility												1 P		
7	Dust Control	30 C	30 C	30 C	10 C							10 P	30 P	30 P	
8	Apply Fert/Ground												1 P		
9	Apply Herbicide/Ground												1 P		
10	List												1 P		
11	Bed Shaping/Admire													1 P	
12	Plant													1 P	
13	Set Sprinklers													1 P	
14	Irrigate/Sec Sys													5 P	5 P
15	Remove Sprinklers													1 P	
16	Make Ditches													1 P	
17	Field Scouting	1 C												1 P	
18	Apply Insecticide/Air													1 P	
19	Irrigate/Run Fertilizer	1 C	2 C											1 P	
20	Thinning	1 C												1 P	
21	Cultivate													1 P	
22	Apply Fungicide/Ground													1 P	
23	Apply Insect/Ground		1 C	1 C	1 C										
24	Bird Control	1 C													
25	Make Ditches		1 C	1 C											
26	Irrigate/Run Fertilizer		1 C												
27	Hand Weeding		1 C												
28	Knock Borders				1 C										
29	Knock Ditches				1 C										
30	Harvest, Load & Haul				.5 C	.5 C									
31	Disk Residue						1 C								

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

Table 11A. Income and Cash Operating Summary; Spring Watermelons, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 22.0 Tn / Acre PREVIOUS CROP: Cotton, Upland DATE: 8/13/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Ton	22.05	\$141.60	\$3,122.28	\$3,122.28	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					128.02	_____
Tractor/Self Propelled				80.97		_____
Irrigation				23.66		_____
Other/ Contract				23.40		_____
Chemicals and Custom Applications					350.99	_____
Fertilizer				143.60		_____
Insecticide				207.40		_____
Farm Machinery and Vehicles					118.71	_____
Diesel Fuel				39.58		_____
Gasoline				13.15		_____
Repairs and Maintenance				65.98		_____
Irrigation Water (excluding labor)					0.00	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs & Seed/Transplants				96.23	399.23	_____
Other Services and Rentals				303.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					996.95	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					1714.40	_____
Cotton Ginning					0.00	_____
Crop Assessment					0.00	_____
Other Materials					0.00	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					1714.40	_____
OPERATING OVERHEAD -> PICKUP USE					13.17	_____
OPERATING INTEREST AT 10.0%					30.03	_____
TOTAL CASH OPERATING EXPENSES					\$2,754.55	_____
RETURNS OVER CASH OPERATING EXPENSES					\$367.73	_____

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

** A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 11C. Variable Operating Costs; Spring Watermelons, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 22.0 Tn / Acre PREVIOUS CROP: Cotton, Upland DATE: 8/13/01

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No.	First Month	Operation	---- Hours * ----		---- Operating Costs (\$/ACRE *) Per Operation ----					Tot. Cash Expenses	Class	
			Machine	Labor	Fuel/Rps.	Labor	Cust/Serv.	Materials	Total			Times
1	Dec	Rip	0.300	0.333	4.82	2.92			7.75	1.0	7.75	L
2	Dec	Disk	0.150	0.167	2.85	1.46			4.31	2.0	8.62	L
3	Dec	Laser Level	0.225	0.250	3.33	2.19			5.53	1.0	5.53	L
4	Jan	Soil Fertility					3.00		3.00	1.0	3.00	G
5	Jan	Apply Fert/Ground	0.225	0.250	1.77	2.19		43.46	47.42	1.0	47.42	G
6	Jan	List	0.150	0.167	2.42	1.46			3.88	1.0	3.88	L
7	Jan	Shape Beds	1.200	1.333	14.23	11.70		77.97	103.90	1.0	103.90	L
8	Jan	Apply Herbicide/Ground	0.225	0.250	1.90	2.19		8.79	12.88	1.0	12.88	G
9	Jan	Plant	0.514	0.571	7.48	5.01		107.36	119.85	1.0	119.85	L
10	Jan	Make Ditches	0.045	0.050	0.66	0.44			1.09	7.0	7.66	G
11	Jan	Dust Control	0.009	0.010	0.16	0.16			0.32	150.0	47.59	G
12	Jan	Irrigate		0.752		5.77			5.77	1.0	5.77	G
13	Jan	Knock Ditches	0.023	0.025	0.33	0.22			0.55	7.0	3.83	G
14	Jan	Cultivate	0.450	0.500	3.81	4.39			8.20	6.0	49.20	G
15	Feb	Thinning					75.00		75.00	1.0	75.00	G
16	Mar	Apply Fert/Ground	0.327	0.364	3.80	3.19		29.48	36.47	2.0	72.94	G
17	Mar	Incorporate Herbicide	0.514	0.571	6.83	5.01		8.79	20.63	1.0	20.63	G
18	Mar	Hand Weeding					75.00		75.00	1.0	75.00	G
19	Mar	Irrigate		0.333		2.56			2.56	4.0	10.23	G
20	Mar	Turn Vines					75.00		75.00	2.0	150.00	G
21	Apr	Irrigate/Run Fertilizer		0.500		3.83		15.02	18.85	2.0	37.70	G
22	Apr	Apply Insect./Ground	0.225	0.250	1.95	2.19		37.28	41.43	3.0	124.28	G
23	May	Harvest, Load & Haul 21.4					1714.40		1714.40	1.0	1714.40	H
24	Jun	Disk Residue 21.4 Tn	0.150	0.167	2.85	1.46			4.31	1.0	4.31	L
		Pickup Use 50 Mi/Acre	1.667		13.17						13.17	
		Operating Interest at 10.0					30.03				30.03	
TOTAL CASH OPERATING EXPENSES (includes all times over):											2754.55	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 \$31.00 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS

Land Preparation (L)	253.84
Growing (G)	743.11
Harvest (H)	1,714.40
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	43.20
Total (T)	\$2,754.55

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

Prices ->	Yields					Break-even Price
	- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields	\$106.20	\$127.44	\$141.60	\$155.76	\$177.00	
- 25%	16.5	-689.64	-338.38	-104.21	129.96	481.22
- 10%	19.8	-595.54	-174.03	106.97	387.98	809.49
Budgeted	22.0	-532.81	-64.47	247.76	559.99	1,028.33
+ 10%	24.3	-470.08	45.10	388.55	732.00	1,247.18
Break-even Yield		40.78	23.35	18.17	14.87	11.69

Table 11D. Resource and Cash Flow Requirements; Spring Watermelons, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 22.0 Tn / Acre PREVIOUS CROP: Cotton, Upland DATE: 8/13/01

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			0.92		13.85	8.04				21.89
JAN C	1.0	18.0	3.50		30.39	30.54	141.35	96.23	3.00	301.51
FEB C			1.88		17.26	18.50			75.00	110.76
MAR C	2.0	8.0	3.48		27.88	31.84	38.27		150.00	247.99
APR C	2.0	12.0	2.15		14.50	19.96	119.06		75.00	228.52
MAY C	2.0	12.0	1.53		8.75	14.58	52.30		857.20	932.83
JUN C			0.37		6.07	4.58			857.20	867.85
Pickup Use 50 Mi/Acre					13.17					13.17
Operating Interest at 10.0									30.03	30.03
Water Assessment				**						
Total	7.0	50.0	13.81		131.87	128.04	350.98	96.23	2047.43	2754.55
%					4.79	4.65	12.74	3.49	74.33	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 247.2
 Total P 183.1
 Total Labor 13.8
 Total Water 50.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 44.7 Gal
 Unleaded Gas 14.4 Gal
 All Direct Energy 8.0 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	1.20 Hr	Blade Scraper, 10'	0.22 Hr	Dbl. Gang Disk Cult, 1 Rw	3.21 Hr
Directed Spray Rig, 8	0.22 Hr	Fert. Side Dress Unit,	0.65 Hr	Fertilizer Broadcaster,	0.22 Hr
Fertilizer Injector, 3 Row	0.51 Hr	Flexi-Planter - 4 Units	0.51 Hr	Laser, Complete System	0.22 Hr
Lister, 5 Bottom	0.15 Hr	Motor Grader, 12'	0.47 Hr	Offset Disk, 18'	0.45 Hr
Pickup Truck, 1/2 Ton	1.67 Hr	Saddle Tk Sprayer, 2 Tk 8	2.39 Hr	Section Harrow, 3 Section	0.51 Hr
Tractor, 80 PTO HP	4.48 Hr	Tractor, 100 PTO HP	2.23 Hr	Tractor, 150 PTO HP	0.15 Hr
Tractor, 175 PTO HP,	0.67 Hr	Tractor, 235 Eng HP, Art.	0.30 Hr	Truck, 5 Ton w/1000 Gal	1.35 Hr
V-Ripper, 7 Shnk	0.30 Hr				

MATERIALS REQUIREMENT (per Acre)

10-34-00, Lqd	7.00 Ga	11-52-00, Dry	300.00 Lb	20-00-00, Amm. Nitrate,	500.00 Lb
32-00-00, URAN 32, Lqd	30.00 Ga	Endosulfan	4.00 Pt	Esfenvalerate	6.00 Pt
Imidacloprid	16.00 Oz	Water, District	50.00 Al	Watermelon Seed (Hyb)	3.00 Th

LABOR REQUIREMENT (per Acre)

Irrigators	3.09 Hr	Tractor	9.23 Hr	Truck Driver	1.50 Hr
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*NOTE: P = Previous Year C = Current Year N = Next Year

** A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Table 11E. Schedule of Operations; Spring Watermelons, 2001

COUNTY: Yuma FARM: Yuma Vegetables WATER SOURCE: Yuma County Water TILLAGE: Double Crop
 CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 22.0 Tn / Acre PREVIOUS CROP: Cotton, Upland DATE: 8/13/01

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 1.0	Rip	175 V-Ripper, 7 Shnk	3.00				Tractor
Dec 2.0	Disk	175 Offset Disk, 18'	6.00				Tractor
Dec 1.0	Laser Level	175 Blade Scraper, 10' Laser, Complete System	4.00				Tractor
Jan 1.0	Soil Fertility	CST Soil Analysis (Surface)				3.00 Ac	
Jan 1.0	Apply Fert/Ground	80 Fertilizer Broadcaster,	4.00	11-52-00, Dry	300.00 Lb 273.33 Tn		Tractor
Jan 1.0	List	150 Lister, 5 Bottom	6.00				Tractor
Jan 1.0	Shape Beds	100 Bed Shaper, 4 Rw Saddle Tk Sprayer, 2 Tk 8 Row	0.75	Imidacloprid	16.00 Oz 588.40 Ga		Tractor
Jan 1.0	Apply Herbicide/Ground	80 Directed Spray Rig, 8 Row	4.00	Endosulfan	2.00 Pt 33.17 Ga		Tractor
Jan 1.0	Plant	100 Flexi-Planter - 4 Units Fertilizer Injector, 3 Row	1.75	Watermelon Seed 10-34-00, Lqd	3.00 Th 30.26 Th 7.00 Ga 263.33 Tn		Tractor
Jan 7.0	Make Ditches	Motor Grader, 12'	20.00				Tractor
Jan 150.0	Dust Control	Truck, 5 Ton w/1000 Gal Tank	100.00				Truck
Jan 1.0	Irrigate		1.33	Water, District	18.00 Al 0.00 AF		Irrigators
Jan 7.0	Knock Ditches	Motor Grader, 12'	40.00				Tractor
Jan 6.0	Cultivate	80 Dbl. Gang Disk Cult, 1 Rw	2.00				Tractor
Feb 1.0	Thinning	CST Thinning				75.00 Ac	
Mar 2.0	Apply Fert/Ground	80 Fert. Side Dress Unit, 4Row	2.75	20-00-00, Amm. Nitrate,	250.00 Lb 222.50 Tn		Tractor
Mar 1.0	Incorporate Herbicide	100 Dbl. Gang Disk Cult, 1 Rw Section Harrow, 3 Section Saddle Tk Sprayer, 2 Tk 8 Row	1.75	Endosulfan	2.00 Pt 33.17 Ga		Tractor
Mar 1.0	Hand Weeding	CST Hand Weeding				75.00 Ac	
Mar 4.0	Irrigate		3.00	Water, District	4.00 Al 0.00 AF		Irrigators
Mar 2.0	Turn Vines	CST Hand Weeding	0.20			75.00 Ac	
Apr 2.0	Irrigate/Run Fertilizer		2.00	Water, District 32-00-00, URAN 32,	8.00 Al 0.00 AF 15.00 Ga 170.80 Tn		Irrigators
Apr 3.0	Apply Insect./Ground	80 Saddle Tk Sprayer, 2 Tk 8	4.00	Esfenvalerate	2.00 Pt 140.69 Ga		Tractor
May 1.0	Harvest, Load & Haul	CST Harv/pack/haul				80.00 Tn	
Jun 1.0	Disk Residue	175 Offset Disk, 18'	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 11F Operations Calendar; Spring Watermelons, 2001

COUNTY: Yuma FARM: Western Arizona Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop
 CROP: Watermelons ACRES: 1 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Yuma Valley North YIELD: 21.4 Tn/Acre PREVIOUS CROP: Cotton, Upland DATE: 03/25/2001

No.	Operation	Month and Times Operation Performed											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip												1 P
2	Disk												2 P
3	Laser Level												1 P
4	Soil Fertility	1 C											
5	Apply Fert/Ground	1 C											
6	List	1 C											
7	Bed Shaping/Admire		1 C										
8	Apply Herbicide/Ground	1 C											
9	Plant	1 C											
10	Make Ditches	1 C	1 C	1 C	2 C	2 C							
11	Dust Control	10 C	30 C	30 C	30 C	30 C	20 C						
12	Irrigate	1 C											
13	Knock Ditches	1 C	1 C	1 C	2 C	2 C							
14	Cultivate		3 C	3 C									
15	Thinning		1 C										
16	Apply Fert/Ground			1 C	1 C								
17	Incorporate Herbicide			1 C									
18	Hand Weeding			1 C									
19	Irrigate			2 C	1 C	1 C							
20	Turn Vines			1 C	1 C								
21	Irrigate/Run Fertilizer				1 C	1 C							
22	Apply Insect/Ground				2 C	1 C							
23	Harvest, Load & Haul						.5 C	.5 C					
24	Disk Residue							1 C					

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

Table 12A. Income and Cash Operating Summary; Dry Onions (Processing), 2001

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Conventional
 CROP: Dry Onions ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 18.0 Tn / Acre PREVIOUS CROP: Honeydew Melons DATE: 8/22/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Onions	Ton	18.00	\$95.00	\$1,710.00	\$1,710.00	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					83.67	_____
Tractor/Self Propelled				42.26		_____
Irrigation				33.74		_____
Other/ Contract				7.67		_____
Chemicals and Custom Applications					585.22	_____
Fertilizer				116.58		_____
Insecticide				270.42		_____
Herbicide				79.53		_____
Other Chemicals				118.69		_____
Farm Machinery and Vehicles					56.33	_____
Diesel Fuel				25.67		_____
Repairs and Maintenance				30.66		_____
Irrigation Water (excluding labor)					0.00	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs & Other Services and Rentals				3.00	3.00	_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					728.22	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					0.44	_____
Tractor/Self Propelled				0.44		_____
Farm Machinery and Vehicles					0.59	_____
Diesel Fuel				0.22		_____
Repairs and Maintenance				0.37		_____
TOTAL HARVEST AND POST HARVEST EXPENSE					1.03	_____
OPERATING OVERHEAD -> PICKUP USE					13.69	_____
OPERATING INTEREST AT 10.0%					24.20	_____
TOTAL CASH OPERATING EXPENSES					\$767.13	_____
RETURNS OVER CASH OPERATING EXPENSES					\$942.87	_____

Notes: The above figures do not include ownership costs, see table B for detailed cost allocation.
 ** A water assessment charge of \$38.50 per Acre is included as an ownership cost in Table B.

Table 12B. Allocations of Ownership Costs; Dry Onions (Processing), 2001

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Conventional
 CROP: Dry Onions ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 18.0 Tn / Acre PREVIOUS CROP: Honeydew Melons DATE: 8/22/01

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Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$95.00 / Tn	\$1,710.00		\$1,710.00	
TOTAL OPERATING EXPENSES	\$767.13		\$767.13	
RETURN OVER CASH OPERATING EXPENSES		\$942.87		\$942.87
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	5.57		5.57	
General and Office Overhead (5.0% of Total Operating Exp.)	38.36		38.36	
General Farm Maintenance (3.0% of Total Operating Exp.)	23.01		23.01	
Total Cash Overhead Expenses	66.94		66.94	
Total Cash Operating and Overhead Cost	834.07		834.07	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$875.93		\$875.93
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			31.52	
Interest on Equity, Machinery and Vehicles			14.05	
Total Capital Allocations			45.58	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		\$875.93		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				\$830.35
Land Cost / Rent or Lease	150.00		150.00	
Water Assessment **	38.50		38.50	
Total Land Costs	188.50		188.50	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$687.43		
RETURNS TO MANAGEMENT AND RISK ----->				\$641.85
Management Services (8% of Total Operation Expenses)			61.37	
TOTAL OWNERSHIP COST	255.44		362.39	
TOTAL COST	\$1,022.57		\$1,129.52	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$687.43		
RETURNS TO RISK (PROFITS) ----->				\$580.48
Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		\$42.62		\$42.62
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$14.19		\$20.13
BREAK-EVEN PRICE TO COVER TOTAL COST		\$56.81		\$62.75

Table 12C. Variable Operating Costs; Dry Onions (Processing), 2001

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Conventional
 CROP: Dry Onions ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 18.0 Tn / Acre PREVIOUS CROP: Honeydew Melons DATE: 8/22/01

No.	First Month	Operation	---- Hours * ----		---- Operating Costs (\$/ACRE *) Per Operation ----					Tot. Cash Expenses	Class	
			Machine	Labor	Fuel/Rps.	Labor	Cust/Serv.	Materials	Total			Times
1	Jul	Rip	0.450	0.500	7.84	4.39			12.23	1.0	12.23	L
2	Jul	Disk	0.150	0.167	3.15	1.46			4.61	2.0	9.22	L
3	Aug	Laser Level	0.450	0.500	7.12	4.39			11.51	1.0	11.51	L
4	Sep	Soil Fertility					3.00		3.00	1.0	3.00	G
5	Oct	Apply Fert/Ground					8.17	48.34	56.51	1.0	56.51	G
6	Oct	List	0.225	0.250	2.10	2.19			4.29	1.0	4.29	L
7	Oct	Shape Beds	0.180	0.200	1.45	1.75			3.21	1.0	3.21	L
8	Oct	Plant	0.900	2.000	11.89	16.44			28.33	1.0	28.33	L
9	Oct	Apply Herbicide/Ground	0.225	0.250	1.99	2.19		65.51	69.69	1.0	69.69	G
10	Oct	Irrigate		0.400		3.07			3.07	11.0	33.74	G
11	Nov	Buck Rows	0.045	0.050	0.35	0.44			0.79	2.0	1.58	G
12	Nov	Apply Fungicide/Ground					4.24	41.94	46.18	1.0	46.18	G
13	Nov	Disk Ends	0.045	0.050	0.43	0.44			0.86	2.0	1.73	G
14	Nov	Apply Herbicide/Ground	0.225	0.250	1.99	2.19		14.02	18.21	1.0	18.21	G
15	Dec	Cultivate	0.225	0.250	2.03	2.19			4.22	2.0	8.45	G
16	Feb	Apply Fert/Ground	0.300	0.333	3.52	2.92		30.04	36.48	2.0	72.96	G
17	Feb	Apply Fungicide/Air					5.23	15.85	21.08	2.0	42.16	G
18	Feb	Apply Insecticide/Air					4.75	265.67	270.42	1.0	270.42	G
19	Mar	Apply Fungicide/Air					4.75	25.60	30.35	1.0	30.35	G
20	Apr	Prepare Ends	0.045	0.050	0.59	0.44			1.03	1.0	1.03	H
21	May	Harvest, Load & Haul								1.0		H
22	May	Disk Residue	0.150	0.167	2.99	1.46			4.45	1.0	4.45	L
		Pickup Use 50 Mi/Acre	1.667		13.69						13.69	
		Operating Interest at 10.0					24.20				24.20	
TOTAL CASH OPERATING EXPENSES (includes all times over):											767.13	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 \$38.50 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS

Land Preparation (L)	73.24
Growing (G)	654.98
Harvest (H)	1.03
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	37.88
Total (T)	\$767.13

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		\$71.25	\$85.50	\$95.00	\$104.50	\$118.75	Break-even Price
- 25%	13.5	208.73	401.11	529.36	657.61	849.98	55.79
- 10%	16.2	400.95	631.80	785.70	939.60	1,170.45	46.50
Budgeted	18.0	529.10	785.60	956.60	1,127.60	1,384.10	41.86
+ 10%	19.8	657.25	939.40	1,127.50	1,315.60	1,597.75	38.06
Break-even Yield		10.57	8.81	7.92	7.20	6.34	

Table 12D. Resource and Cash Flow Requirements; Dry Onions (Processing), 2001

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Conventional
 CROP: Dry Onions ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 18.0 Tn / Acre PREVIOUS CROP: Honeydew Melons DATE: 8/22/01

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 P			0.67		10.99	5.85				16.84
AUG P			0.67		10.27	5.85				16.12
SEP P									3.00	3.00
OCT P	1.0	3.0	3.10		17.43	25.65	113.84		8.17	165.09
NOV P	1.0	3.0	0.75		2.77	6.14	55.96		4.24	69.11
DEC P	1.0	3.0	0.70		2.38	5.70				8.08
JAN C	2.0	6.0	1.05		2.03	8.33				10.36
FEB C	2.0	6.0	1.18		3.95	9.50	311.55		9.98	334.98
MAR C	2.0	6.0	1.13		3.52	9.06	71.49		9.98	94.05
APR C	2.0	6.0	0.85		0.59	6.57				7.16
MAY C			0.17		2.99	1.46				4.45
Pickup Use 50 Mi/Acre					13.69					13.69
Operating Interest at 10.0									24.20	24.20
Water Assessment				**						
Total	11.0	33.0	10.27		70.61	84.11	552.84		59.57	767.13
%					9.20	10.96	72.07		7.77	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 252.4
 Total P 212.0
 Total Labor 10.3
 Total Water 33.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 28.1 Gal
 Unleaded Gas 5.0 Gal
 All Direct Energy 4.5 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw 0.18 Hr	Cultivator, Sweep, 4 Rw 0.45 Hr	Directed Spray Rig, 8 0.45 Hr
Drag Scraper, 14' 0.45 Hr	Fertilizer Injector, 4 Row 0.60 Hr	Laser, Complete System 0.45 Hr
Lister, 5 Bottom 0.22 Hr	Offset Disk, 10.5' 0.09 Hr	Offset Disk, 13.5' 0.05 Hr
Offset Disk, 16.5' 0.15 Hr	Offset Disk, 18' 0.30 Hr	Pickup Truck, 1/2 Ton 1.67 Hr
Planter/Gramor, 4 Bd,6 0.90 Hr	Rowbuck, 10' 0.09 Hr	Tractor, 80 PTO HP 0.18 Hr
Tractor, 100 PTO HP 0.05 Hr	Tractor, 100 PTO HP, 2.80 Hr	Tractor, 150 PTO HP 0.45 Hr
Tractor, 200 PTO HP, 4WD 0.90 Hr	V-Ripper, 5 Shnk 0.45 Hr	

MATERIALS REQUIREMENT (per Acre)

10-53-00, Dry 400.00 Lb	32-00-00, URAN 32, Lqd 60.00 Ga	Bromoxynil 1.00 Pt
Chlorothalonil 4.00 Pt	DCPA 10.00 Lb	Mancozeb 2.40 Ga
Permethrin 15.50 Lb	Processing Onions 20.50 Lb	Sulfur 35.00 Lb
Surfactant (spreader) 0.30 Pt	Water, District 33.00 Al	

LABOR REQUIREMENT (per Acre)

Irrigators 4.40 Hr	Other 1.00 Hr	Tractor 4.87 Hr
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*NOTE: P = Previous Year C = Current Year N = Next Year

** A water assessment charge of \$38.50 per Acre is included as an ownership cost in Table B.

Table 12E. Schedule of Operations; Dry Onions (Processing), 2001

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Conventional
 CROP: Dry Onions ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 18.0 Tn / Acre PREVIOUS CROP: Honeydew Melons DATE: 8/22/01

First No. Month	Times	Operation	Equipment/ Custom Oper		Job Rate Acre/Hr	Material Use and Cost				Service Cost \$ / Unit	Labor Types	
			HP	Self-Prop./ Implement		Name	Appl. Rate	\$ / Unit				
Jul	1.0	Rip	200	V-Ripper, 5 Shnk	2.00						Tractor	
Jul	2.0	Disk	200	Offset Disk, 18'	6.00						Tractor	
Aug	1.0	Laser Level	150	Drag Scraper, 14'	2.00						Tractor	
				Laser, Complete System								
Sep	1.0	Soil Fertility	CST	Soil Analysis (Surface)						3.00	Ac	
Oct	1.0	Apply Fert/Ground	CST	Grnd Apply Fertilizer		10-53-00, Dry	400.00	Lb	228.00	Tn	8.17	Ac
Oct	1.0	List	100	Lister, 5 Bottom	4.00						Tractor	
Oct	1.0	Shape Beds	100	Bed Shaper, 4 Rw	5.00						Tractor	
Oct	1.0	Plant	100	Planter/Gramor, 4 Bd,6	1.00	Processing Onions	2.50	Lb	0.00	Lb	Tractor	
											Other	
Oct	1.0	Apply Herbicide/Ground	100	Directed Spray Rig, 8	4.00	DCPA	10.00	Lb	6.18	Lb	Tractor	
Oct	11.0	Irrigate			2.50	Water, District	3.00	Al	0.00	AF	Irrigators	
Nov	2.0	Buck Rows	80	Rowbuck, 10'	20.00						Tractor	
Nov	1.0	Apply Fungicide/Ground	CST	Air Spray, 3 Gal Mix		Mancozeb	2.40	Ga	16.40	Ga	4.24	Ac
						Surfactant (spreader)	0.10	Pt	16.40	Ga		
Nov	2.0	Disk Ends	80	Offset Disk, 10.5'	20.00						Tractor	
Nov	1.0	Apply Herbicide/Ground	100	Directed Spray Rig, 8	4.00	Bromoxynil	1.00	Pt	105.81	Ga	Tractor	
Dec	2.0	Cultivate	100	Cultivator, Sweep, 4 Rw	4.00						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	
Feb	2.0	Apply Fungicide/Air	CST	Air Spray, 7 Gal Mix		Chlorothalonil	2.00	Pt	59.00	Ga	5.23	Ac
						Surfactant (spreader)	0.10	Pt	16.40	Ga		
Feb	1.0	Apply Insecticide/Air	CST	Air Spray, 5 Gal Mix		Permethrin	15.50	Lb	16.17	Lb	4.75	Ac
Mar	1.0	Apply Fungicide/Air	CST	Air Spray, 5 Gal Mix		Sulfur	35.00	Lb	0.69	Lb	4.75	Ac
Apr	1.0	Prepare Ends	100	Offset Disk, 13.5'	20.00						Tractor	
May	1.0	Harvest, Load & Haul	CST	Harvest & Hual Onions		Processing Onions	18.00	Lb	0.00	Lb	0.00	
May	1.0	Disk Residue	200	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 12F Operations Calendar; Dry Onions (Processing), 2001

COUNTY: La Paz FARM: Western Arizona Vegetables WATER SOURCE: CRIR TILLAGE: Conventional
 CROP: Onions, Dry ACRES: 1 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 18 Tn/Acre PREVIOUS CROP: Wheat DATE: 03/25/2001

No.	Operation	Month and Times Operation Performed											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip							1 P					
2	Disk							1 P	1 P				
3	Laser Level								1 P				
4	Soil Fertility									1 P			
5	Apply Fert/Ground										1 P		
6	List										1 P		
7	Shape Beds										1 P		
8	Plant										1 P		
9	Apply Herbicide/Ground										1 P		
10	Irrigate	2 C	2 C	2 C	2 C						1 P	1 P	1 P
11	Buck Rows											1 P	1 P
12	Disk Ends			1 C									1 P
13	Apply Herbicide/Ground											1 P	
14	Apply Fungicide/Ground												1 P
15	Cultivate		1 C	1 C									
16	Apply Fert/Ground		1 C	1 C									
17	Apply Fungicide/Air		1 C	1 C									
18	Apply Insecticide/Air			1 C									
19	Prepare Ends				1 C								
20	Harvest, Load & Haul							1 C					
21	Disk Residue							1 C					

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

Table 13A. Income and Cash Operating Summary; Fall Cantaloupe, 2001

COUNTY: La Paz FARM: LaPaz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 237.0 Ct / Acre PREVIOUS CROP: Alfalfa Hay DATE: 11/1/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Crtm	237.00	\$6.98	\$1,654.26	\$1,654.26	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					91.10	_____
Tractor/Self Propelled				47.11		_____
Irrigation				40.92		_____
Other/ Contract				3.07		_____
Chemicals and Custom Applications					304.31	_____
Fertilizer				104.98		_____
Insecticide				142.91		_____
Herbicide				56.42		_____
Farm Machinery and Vehicles					52.57	_____
Diesel Fuel				24.95		_____
Repairs and Maintenance				27.62		_____
Irrigation Water (excluding labor)					0.00	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs &					189.04	_____
Seed/Transplants				15.04		_____
Other Services and Rentals				174.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					637.02	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					367.35	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					367.35	_____
OPERATING OVERHEAD -> PICKUP USE					13.69	_____
OPERATING INTEREST AT 10.0%					5.29	_____
TOTAL CASH OPERATING EXPENSES					\$1,023.35	_____
RETURNS OVER CASH OPERATING EXPENSES					\$630.91	_____

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

** A water assessment charge of \$19.25 per Acre is included as an ownership cost in Table B.

Table 13B. Allocations of Ownership Costs; Fall Cantaloupe, 2001

COUNTY: La Paz FARM: LaPaz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 237.0 Ct / Acre PREVIOUS CROP: Alfalfa Hay DATE: 11/1/01

Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$6.98 / Ct	\$1,654.26		\$1,654.26	
TOTAL OPERATING EXPENSES	\$1,023.35		\$1,023.35	
RETURN OVER CASH OPERATING EXPENSES		\$630.91		\$630.91
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	5.10		5.10	
General and Office Overhead (5.0% of Total Operating Exp.)	51.17		51.17	
General Farm Maintenance (3.0% of Total Operating Exp.)	30.70		30.70	
Total Cash Overhead Expenses	86.97		86.97	
Total Cash Operating and Overhead Cost	1,110.32		1,110.32	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$543.94		\$543.94
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			28.76	
Interest on Equity, Machinery and Vehicles			10.52	
Total Capital Allocations			39.28	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		\$543.94		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				\$504.66
Land Cost / Rent or Lease	150.00		150.00	
Water Assessment **	19.25		19.25	
Total Land Costs	169.25		169.25	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$374.69		
RETURNS TO MANAGEMENT AND RISK ----->				\$335.41
Management Services (8% of Total Operation Expenses)			81.87	
TOTAL OWNERSHIP COST	256.22		377.37	
TOTAL COST	\$1,279.57		\$1,400.72	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$374.69		
RETURNS TO RISK (PROFITS) ----->				\$253.54
Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		\$4.32		\$4.32
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$1.08		\$1.59
BREAK-EVEN PRICE TO COVER TOTAL COST		\$5.40		\$5.91

Table 13C. Variable Operating Costs; Fall Cantaloupe, 2001

COUNTY: La Paz FARM: LaPaz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 237.0 Ct / Acre PREVIOUS CROP: Alfalfa Hay DATE: 11/1/01

No.	First Month	Operation	---- Hours * ----		---- Operating Costs (\$/ACRE *) Per Operation ----					Tot. Cash Expenses	Class	
			Machine	Labor	Fuel/Rps.	Labor	Cust/Serv.	Materials	Total			Times
1	Jun	Rip	0.225	0.250	3.92	2.19			6.11	1.0	6.11	L
2	Jun	Disk	0.150	0.167	3.15	1.47			4.61	2.0	9.22	L
3	Jun	Laser Level	0.450	0.500	7.67	4.39			12.05	1.0	12.05	L
4	Jun	Soil Fertility					3.00		3.00	1.0	3.00	G
5	Jun	Apply Fert/Ground	0.180	0.200	1.49	1.75		34.98	38.23	1.0	38.23	G
6	Jun	List	0.225	0.250	2.10	2.19			4.29	1.0	4.29	L
7	Jul	Plant	0.360	0.800	5.18	6.58		15.04	26.80	1.0	26.80	L
8	Jul	Apply Herbicide/Ground	0.225	0.250	1.24	2.19		56.42	59.85	1.0	59.85	G
9	Jul	Apply Insect./Ground	0.180	0.200	0.95	1.75		24.36	27.07	1.0	27.07	G
10	Jul	Buck Rows	0.045	0.050	0.20	0.44			0.64	5.0	3.20	G
11	Jul	Irrigate		0.667		5.12			5.12	7.0	35.81	G
12	Jul	Cultivate	0.225	0.250	1.55	2.19			3.74	9.0	33.67	G
13	Jul	Plant Fertility					6.00		6.00	1.0	6.00	G
14	Jul	Irrigate/Run Fertilizer	0.600	0.667	2.00	5.12		30.04	37.15	1.0	37.15	G
15	Jul	Thinning					75.00		75.00	1.0	75.00	G
16	Aug	Apply Insecticide/Air					4.24	55.03	59.28	2.0	118.56	G
17	Aug	Hand Weeding					75.00		75.00	1.0	75.00	G
18	Aug	Apply Fert/Ground	0.257	0.286	3.02	2.51		39.96	45.49	1.0	45.49	G
19	Aug	Pollinate					15.00		15.00	1.0	15.00	G
20	Sep	Harvest 237 Ct					367.35		367.35	1.0	367.35	H
21	Sep	Disk Residue 237 Ct	0.180	0.200	3.78	1.75			5.53	1.0	5.53	L
		Pickup Use 50 Mi/Acre	1.667		13.69						13.69	
		Operating Interest at 10.0					5.29				5.29	
TOTAL CASH OPERATING EXPENSES (includes all times over):											1023.35	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 \$19.25 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS

Land Preparation (L)	64.01
Growing (G)	573.01
Harvest (H)	367.35
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	18.98
Total (T)	\$1,023.35

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

Prices ->	Yields	- 25%	- 10%	Budgeted	+ 10%	+ 25%	Break-even Price
				\$5.24	\$6.28	\$6.98	
- 25%	177.8	-4.18	181.93	305.99	430.06	616.17	5.26
- 10%	213.3	126.82	350.15	499.03	647.91	871.24	4.64
Budgeted	237.0	214.16	462.30	627.72	793.15	1,041.29	4.33
+ 10%	260.7	301.49	574.44	756.41	938.38	1,211.33	4.08
Break-even Yield		178.88	139.30	121.40	107.57	91.87	

Table 13D. Resource and Cash Flow Requirements; Fall Cantaloupe, 2001

COUNTY: La Paz FARM: LaPaz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 237.0 Ct / Acre PREVIOUS CROP: Alfalfa Hay DATE: 11/1/01

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			1.53		21.47	13.46	34.98		3.00	72.91
JUL C	4.0	20.0	4.77		14.42	38.44	110.82	15.04	81.00	259.72
AUG C	4.0	20.0	3.85		8.26	30.87	95.00		94.24	228.37
SEP C			0.95		8.42	8.33	55.03		371.59	443.37
Pickup Use 50 Mi/Acre					13.69					13.69
Operating Interest at 10.0									5.29	5.29
Water Assessment				**						
Total	8.0	40.0	11.11		66.26	91.10	295.83	15.04	555.12	1023.35
%					6.47	8.90	28.91	1.47	54.25	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 158.2
 Total P 126.0
 Total K 15.0
 Total Labor 11.1
 Total Water 40.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 27.1 Gal
 Unleaded Gas 5.0 Gal
 All Direct Energy 4.4 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.36 Hr	Cultivator, Sweep, 4 Rw	2.02 Hr	Directed Spray Rig, 8	0.18 Hr
Drag Scraper, 14'	0.45 Hr	Fertilizer Broadcaster,	0.18 Hr	Fertilizer Injector, 4 Row	0.26 Hr
Laser, Complete System	0.45 Hr	Lister, 5 Bottom	0.22 Hr	Offset Disk, 13.5'	0.00 Hr
Offset Disk, 18'	0.48 Hr	Pickup Truck, 1/2 Ton	1.67 Hr	Planter, Drill Type, 4 Row	0.36 Hr
Rowbuck, 10'	0.23 Hr	Saddle Tk Sprayer, 2 Tk 8	0.22 Hr	Tractor, 35 PTO HP	0.60 Hr
Tractor, 50 PTO HP,	0.63 Hr	Tractor, 70 PTO HP,	2.02 Hr	Tractor, 100 PTO HP,	1.02 Hr
Tractor, 200 PTO HP, 4WD	1.15 Hr	V-Ripper, 5 Shnk	0.22 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
Cantaloupe Sd	1.50 Lb	Endosulfan	2.00 Pt	Imidacloprid	5.00 Oz
Water, District	40.00 Al				

LABOR REQUIREMENT (per Acre)

Irrigators	5.34 Hr	Other	0.40 Hr	Tractor	5.37 Hr
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*NOTE: P = Previous Year C = Current Year N = Next Year

** A water assessment charge of \$19.25 per Acre is included as an ownership cost in Table B.

Table 13E. Schedule of Operations; Fall Cantaloupe, 2001

COUNTY: La Paz FARM: LaPaz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 237.0 Ct / Acre PREVIOUS CROP: Alfalfa Hay DATE: 11/1/01

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 1.0	Rip	200 V-Ripper, 5 Shnk	4.00				Tractor
Jun 2.0	Disk	200 Offset Disk, 18'	6.00				Tractor
Jun 1.0	Laser Level	200 Drag Scraper, 14' Laser, Complete System	2.00				Tractor
Jun 1.0	Soil Fertility	CST Soil Analysis (Surface)				3.00 Ac	
Jun 1.0	Apply Fert/Ground	100 Fertilizer Broadcaster,	5.00	11-48-00, Dry	200.00 Lb	330.00 Tn	Tractor
Jun 1.0	List	100 Lister, 5 Bottom	4.00				Tractor
Jul 1.0	Plant	100 Planter, Drill Type, 4 Row	2.50	Cantaloupe Sd	1.50 Lb	9.46 Lb	Tractor
Jul 1.0	Apply Herbicide/Ground	50 Saddle Tk Sprayer, 2 Tk 8	4.00	Bensulide	10.00 Pt	42.58 Ga	Other
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	70 Cultivator, Sweep, 4 Rw	1.50	Water, District	5.00 Al	0.00 AF	Irrigators
Jul 9.0	Cultivate	CST Plant Tissue Anal.(Petiole)	4.00				Tractor
Jul 1.0	Plant Fertility	Tractor, 35 PTO HP	1.50	Water, District	5.00 Al	0.00 AF	6.00 Ac
Jul 1.0	Irrigate/Run Fertilizer	CST Thinning		32-00-00, URAN 32,	30.00 Ga	170.80 Tn	Irrigators
Jul 1.0	Thinning	CST Air Spray, 3 Gal Mix		Bifenthrin	5.00 Oz	490.00 Ga	75.00 Ac
Aug 2.0	Apply Insecticide/Air			Endosulfan	1.00 Pt	33.17 Ga	4.24 Ac
				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	CST Harv/pack/haul Melons					1.55 Ct
Sep 1.0	Disk Residue	200 Offset Disk, 18'	5.00				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 13F Operations Calendar; Fall Cantaloupe, 2001

COUNTY: La Paz FARM: Western Arizona Vegetables WATER SOURCE: CRIR TILLAGE: Double Crop
 CROP: Cantaloupe ACRES: 1 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker YIELD: 237 Ct/Acre PREVIOUS CROP: Cantaloupe DATE: 03/25/2001

No.	Operation	Month and Times Operation Performed											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip						1 C						
2	Disk						2 C						
3	Laser Level						1 C						
4	Soil Fertility						1 C						
5	Apply Fert/Ground						1 C						
6	List						1 C						
7	Plant							1 C					
8	Apply Herbicide/Ground							1 C					
9	Apply Insect/Ground								1 C				
10	Buck Rows							2 C	3 C				
11	Irrigate							3 C	4 C				
12	Cultivate							3 C	3 C	3 C			
13	Plant Fertility							1 C					
14	Irrigate/Run Fertilizer							1 C					
15	Thinning							1 C					
16	Apply Insecticide/Air									1 C	1 C		
17	Hand Weeding								1 C				
18	Apply Fert/Ground								1 C				
19	Pollinate								1 C				
20	Harvest										1 C		
21	Disk Residue										1 C		

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

Table 14A. Income and Cash Operating Summary; Fall Lettuce, 2001

COUNTY: La Paz FARM: LaPaz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Conventional
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 823.0 Ct / Acre PREVIOUS CROP: Honeydew Melons DATE: 11/1/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Lettuce	Ctrn	823.00	\$5.26	\$4,328.98	\$4,328.98	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					62.18	_____
Tractor/Self Propelled				32.08		_____
Irrigation				30.10		_____
Chemicals and Custom Applications					290.71	_____
Fertilizer				165.06		_____
Insecticide				106.86		_____
Herbicide				18.42		_____
Other Chemicals				0.36		_____
Farm Machinery and Vehicles					39.36	_____
Diesel Fuel				17.80		_____
Repairs and Maintenance				21.57		_____
Irrigation Water (excluding labor)					0.00	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs & Seed/Transplants					335.86	_____
Other Services and Rentals				101.76		_____
				234.10		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					728.11	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					2.19	_____
Tractor/Self Propelled				2.19		_____
Farm Machinery and Vehicles					4.72	_____
Diesel Fuel				2.22		_____
Repairs and Maintenance				2.50		_____
Custom Harvest/Post Harvest					1975.20	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					1982.11	_____
OPERATING OVERHEAD -> PICKUP USE					13.69	_____
OPERATING INTEREST AT 10.0%					174.91	_____
TOTAL CASH OPERATING EXPENSES					\$2,898.81	_____
RETURNS OVER CASH OPERATING EXPENSES					\$1,430.17	_____

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

** A water assessment charge of \$38.50 per Acre is included as an ownership cost in Table B.

Table 14C. Variable Operating Costs; Fall Lettuce, 2001

COUNTY: La Paz FARM: LaPaz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Conventional
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 823.0 Ct / Acre PREVIOUS CROP: Honeydew Melons DATE: 11/1/01

No.	First Month	Operation	---- Hours * ----		---- Operating Costs (\$/ACRE *) Per Operation ----					Tot. Cash Expenses	Class	
			Machine	Labor	Fuel/Rps.	Labor Cust/Serv.	Materials	Total	Times			
1	Aug	Disk	0.225	0.250	4.72	2.19			6.91	2.0	13.83	L
2	Aug	Rip	0.378	0.420	6.59	3.68			10.27	1.0	10.27	L
3	Aug	Laser Level	0.257	0.286	4.38	2.51			6.89	1.0	6.89	L
4	Sep	List	0.225	0.250	3.10	2.19			5.29	1.0	5.29	L
5	Sep	Buck Rows	0.023	0.025	0.10	0.22			0.32	5.0	1.61	G
6	Sep	Preirrigate		0.725		5.56			5.56	1.0	5.56	G
7	Sep	Soil Fertility					3.00		3.00	1.0	3.00	G
8	Sep	Disk Ends	0.023	0.025	0.14	0.22			0.36	5.0	1.81	G
9	Sep	Apply Fert/Ground	0.180	0.200	0.85	1.75		68.90	71.50	1.0	71.50	G
10	Oct	Plant	0.450	0.500	6.87	4.39		101.76	113.02	1.0	113.02	L
11	Oct	Apply Herbicide/Ground	0.180	0.200	1.37	1.75		18.42	21.55	1.0	21.55	G
12	Oct	Set Sprinklers	0.158	0.350	0.56	2.88			3.44	1.0	3.44	G
13	Oct	Irrigate/Sec Sys		1.000		7.67		6.39	14.06	1.0	14.06	G
14	Oct	Bird Control					6.10		6.10	1.0	6.10	G
15	Nov	Remove Sprinklers	0.158	0.350	0.56	2.88			3.44	1.0	3.44	G
16	Nov	Apply Insect./Ground	0.090	0.100	0.51	0.88		45.55	46.94	1.0	46.94	G
17	Nov	Irrigate/Run Fertilizer		0.200		1.53		24.04	25.57	4.0	102.30	G
18	Nov	Apply Insect./Ground	0.090	0.100	0.51	0.88		12.97	14.36	1.0	14.36	G
19	Nov	Thinning					75.00		75.00	1.0	75.00	G
20	Nov	Cultivate	0.225	0.250	1.70	2.19			3.89	2.0	7.78	G
21	Nov	Apply Insecticide/Air					4.24	14.69	18.93	1.0	18.93	G
22	Dec	Hand Weeding					75.00		75.00	2.0	150.00	G
23	Dec	Apply Insecticide/Air					4.75	18.64	23.39	1.0	23.39	G
24	Jan	Harvest 823 Ct					1975.20		1975.20	1.0	1975.20	H
25	Jan	Residue Disposal 823 Ct	0.225	0.250	4.72	2.19			6.91	1.0	6.91	P
		Pickup Use 50 Mi/Acre	1.667		13.69						13.69	
		Operating Interest at 10.0					174.91				174.91	
TOTAL CASH OPERATING EXPENSES (includes all times over):											2898.81	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 \$38.50 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS

Land Preparation (L)	149.30
Growing (G)	578.81
Harvest (H)	1,975.20
Post Harvest (P)	6.91
Marketing (M)	0.00
Operating Overhead (O)	188.59
Total (T)	\$2,898.81

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

Prices ->	Yields	Budgeted					Break-even Price
		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
		\$3.95	\$4.73	\$5.26	\$5.79	\$6.58	
- 25%	617.3	64.72	551.73	876.41	1,201.08	1,688.09	3.84
- 10%	740.7	254.42	838.83	1,228.44	1,618.05	2,202.46	3.60
Budgeted	823.0	380.88	1,030.23	1,463.12	1,896.02	2,545.37	3.48
+ 10%	905.3	507.34	1,221.62	1,697.81	2,174.00	2,888.28	3.38
Break-even Yield		575.13	380.01	309.91	261.65	212.10	

Table 14D. Resource and Cash Flow Requirements; Fall Lettuce, 2001

COUNTY: La Paz FARM: LaPaz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Conventional
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 823.0 Ct / Acre PREVIOUS CROP: Honeydew Melons DATE: 11/1/01

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			1.21		20.41	10.58				30.99
SEP C	1.0	12.0	1.27		4.40	10.38	68.90		3.00	86.68
OCT C	1.0	6.0	3.55		9.85	28.49	24.81	101.76		164.91
NOV C	2.0	12.0	0.90		3.01	7.45	121.29		85.34	217.09
DEC C	2.0	12.0	0.65		1.70	5.26	66.72		154.75	228.43
JAN N			0.25		4.72	2.19			1975.20	1982.11
Pickup Use 50 Mi/Acre					13.69					13.69
Operating Interest at 10.0 Water Assessment				**					174.91	174.91
Total	6.0	42.0	7.83		57.78	64.35	281.72	101.76	2393.20	2898.81
%					1.99	2.22	9.72	3.51	82.56	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 221.8
 Total P 225.0
 Total Labor 7.8
 Total Water 42.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 21.8 Gal
 Unleaded Gas 5.0 Gal
 All Direct Energy 3.7 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.45 Hr	Directed Spray Rig, 16	0.18 Hr	Drag Scraper, 14'	0.26 Hr
Fertilizer Broadcaster,	0.18 Hr	High Clearance Sprayer,	0.18 Hr	Laser, Complete System	0.26 Hr
Lister, 7 Bottom	0.22 Hr	Offset Disk, 10.5'	0.11 Hr	Offset Disk, 18'	0.67 Hr
Pickup Truck, 1/2 Ton	1.67 Hr	Planter, Stanhay, 4 Row	0.45 Hr	Rowbuck, 10'	0.11 Hr
Sled Cultivator, 4Rw	0.45 Hr	Sprinkler Trailer	0.32 Hr	Tractor, 40 PTO HP,	0.32 Hr
Tractor, 50 PTO HP,	0.41 Hr	Tractor, 70 PTO HP,	0.63 Hr	Tractor, 100 PTO HP,	0.45 Hr
Tractor, 150 PTO HP,	0.22 Hr	Tractor, 200 PTO HP, 4WD	1.31 Hr	V-Ripper, 5 Shnk	0.38 Hr

MATERIALS REQUIREMENT (per Acre)

00-45-00, Treble Super.	500.00 Lb	33-00-00, Amm. Nitrate,	64.00 Ga	Abamectin	10.00 Oz
Benefin	2.00 Pt	BT	2.00 Lb	Head Lettuce Sd	160.00 Th
Methomyl	4.00 Pt	Permethrin	24.40 Oz	Spreader-activator	3.20 Oz
Water, District	42.00 AI				

LABOR REQUIREMENT (per Acre)

Irrigators 3.93 Hr Tractor 3.91 Hr

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

** A water assessment charge of \$38.50 per Acre is included as an ownership cost in Table B.

Table 14E. Schedule of Operations; Fall Lettuce, 2001

COUNTY: La Paz FARM: LaPaz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Conventional
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 823.0 Ct / Acre PREVIOUS CROP: Honeydew Melons DATE: 11/1/01

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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 2.0	Disk	200 Offset Disk, 18'	4.00				Tractor
Aug 1.0	Rip	200 V-Ripper, 5 Shnk	2.38				Tractor
Aug 1.0	Laser Level	200 Drag Scraper, 14' Laser, Complete System	3.50				Tractor
Sep 1.0	List	150 Lister, 7 Bottom	4.00				Tractor
Sep 5.0	Buck Rows	50 Rowbuck, 10'	40.00				Tractor
Sep 1.0	Preirrigate		1.38	Water, District	12.00 Al 0.00 AF		Irrigators
Sep 1.0	Soil Fertility	CST Soil Analysis (Surface)				3.00 Ac	
Sep 5.0	Disk Ends	50 Offset Disk, 10.5'	40.00				Tractor
Sep 1.0	Apply Fert/Ground	50 Fertilizer Broadcaster,	5.00	00-45-00, Treble	500.00 Lb 260.00 Tn		Tractor
Oct 1.0	Plant	100 Bed Shaper, 4 Rw Planter, Stanhay, 4 Row	2.00	Head Lettuce Sd	160.00 Th 0.60 Th		Tractor
Oct 1.0	Apply Herbicide/Ground	70 Directed Spray Rig, 16 Row	5.00	Benefin	2.00 Pt 8.69 Ga		Tractor
Oct 1.0	Set Sprinklers	40 Sprinkler Trailer	5.71				Tractor
Oct 1.0	Irrigate/Sec Sys		1.00	Water, District Permethrin	6.00 Al 0.00 AF 6.40 Oz 120.50 Ga		Irrigators
Oct 1.0	Bird Control	CST Bird Control				6.10 Hr	
Nov 1.0	Remove Sprinklers	40 Sprinkler Trailer	5.71				Tractor
Nov 1.0	Apply Insect./Ground	High Clearance Sprayer, 18	10.00	Abamectin	10.00 Oz 550.00 Ga		Irrigators
Nov 4.0	Irrigate/Run Fertilizer		5.00	Water, District 33-00-00, Amm. Nitrate,	6.00 Al 0.00 AF 16.00 Ga 270.00 Tn		Irrigators
Nov 1.0	Apply Insect./Ground	High Clearance Sprayer, 18	10.00	Methomyl	2.00 Pt 48.94 Ga		Tractor
Nov 1.0	Thinning	CST Thinning				75.00 Ac	
Nov 2.0	Cultivate	70 Sled Cultivator, 4Rw	4.00				Tractor
Nov 1.0	Apply Insecticide/Air	CST Air Spray, 3 Gal Mix		Methomyl Permethrin BT Spreader-activator	1.00 Pt 48.94 Ga 6.00 Oz 120.50 Ga 2.00 Lb 0.96 Lb 1.60 Oz 13.50 Ga	4.24 Ac	
Dec 2.0	Hand Weeding	CST Hand Weeding				75.00 Ac	
Dec 1.0	Apply Insecticide/Air	CST Air Spray, 5 Gal Mix		Methomyl Permethrin Spreader-activator	1.00 Pt 48.94 Ga 12.00 Oz 120.50 Ga 1.60 Oz 13.50 Ga	4.75 Ac	
Jan 1.0	Harvest	CST Harv/pack/haul Lettuce				2.40 Ct	
Jan 1.0	Residue Disposal	200 Offset Disk, 18'	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 14F Operations Calendar; Fall Lettuce, 2001

COUNTY: La Paz FARM: Western Arizona Vegetables
 CROP: Lettuce, Iceberg ACRES: 1
 AREA: Parker YIELD: 823 Ct/Acre

WATER SOURCE: CRIR
 IRRIGATION SYSTEM: Flood Furrow
 PREVIOUS CROP: Honeydew Melons

TILLAGE: Double Crop
 SOIL: Sandy-Loam
 DATE: 03/25/2001

No.	Operation	Month and Times Operation Performed											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Disk								2 C				
2	Rip								1 C				
3	Laser Level								1 C				
4	List									1 C			
5	Buck Rows									3 C	2 C		
6	Preirrigate									1 C			
7	Soil Fertility									1 C			
8	Disk Ends										1 C	2 C	2 C
9	Apply Fert/Ground									1 C			
10	Plant										1 C		
11	Apply Herbicide/Ground										1 C		
12	Set Sprinklers										1 C		
13	Irrigate/Sec Sys										1 C		
14	Bird Control										1 C		
15	Remove Sprinklers										1 C		
16	Apply Insect/Ground												1 C
17	Irrigate/Run Fertilizer											2 C	2 C
18	Apply Insect/Ground												1 C
19	Thinning											1 C	
20	Cultivate											1 C	1 C
21	Apply Insecticide/Air												1 C
22	Hand Weeding												2 C
23	Apply Insecticide/Air 1 C												
24	Harvest/Field Pack												1 N
25	Disk Residue												1 N

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

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

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Honeydew Melons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 514.0 Ct / Acre PREVIOUS CROP: Cantaloupes DATE: 8/22/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Crtm	514.00	\$3.33	\$1,711.62	\$1,711.62	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					91.10	_____
Tractor/Self Propelled				47.11		_____
Irrigation				40.92		_____
Other/ Contract				3.07		_____
Chemicals and Custom Applications					304.31	_____
Fertilizer				104.98		_____
Insecticide				142.91		_____
Herbicide				56.42		_____
Farm Machinery and Vehicles					52.28	_____
Diesel Fuel				24.95		_____
Repairs and Maintenance				27.33		_____
Irrigation Water (excluding labor)					0.00	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs &					206.23	_____
Seed/Transplants				32.23		_____
Other Services and Rentals				174.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					653.92	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					773.45	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					773.45	_____
OPERATING OVERHEAD -> PICKUP USE					13.69	_____
OPERATING INTEREST AT 10.0%					5.49	_____
TOTAL CASH OPERATING EXPENSES					\$1,446.55	_____
RETURNS OVER CASH OPERATING EXPENSES					\$265.07	_____

Notes: The above figures do not include ownership costs, see table B for detailed cost allocation.
 ** A water assessment charge of \$19.25 per Acre is included as an ownership cost in Table B.

Table 15B. Allocations of Ownership Costs; Fall Honeydews, 2001

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Honeydew Melons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 514.0 Ct / Acre PREVIOUS CROP: Cantaloupes DATE: 8/22/01

Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$3.33 / Ct	\$1,711.62		\$1,711.62	
TOTAL OPERATING EXPENSES	\$1,446.55		\$1,446.55	
RETURN OVER CASH OPERATING EXPENSES		\$265.07		\$265.07
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	4.98		4.98	
General and Office Overhead (5.0%of Total Operating Exp.)	72.33		72.33	
General Farm Maintenance (3.0% of Total Operating Exp.)	43.40		43.40	
Total Cash Overhead Expenses	120.71		120.71	
Total Cash Operating and Overhead Cost	1,567.26		1,567.26	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$144.36		\$144.36
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			28.25	
Interest on Equity, Machinery and Vehicles			10.17	
Total Capital Allocations			38.42	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		\$144.36		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				\$105.94
Land Cost / Rent or Lease	150.00		150.00	
Water Assessment **	19.25		19.25	
Total Land Costs	169.25		169.25	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		(\$24.89)		
RETURNS TO MANAGEMENT AND RISK ----->				(\$63.31)
Management Services (8% of Total Operation Expenses)			115.72	
TOTAL OWNERSHIP COST	289.96		444.10	
TOTAL COST	\$1,736.51		\$1,890.65	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		(\$24.89)		
RETURNS TO RISK (PROFITS) ----->				(\$179.03)
Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		\$2.81		\$2.81
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$0.56		\$0.86
BREAK-EVEN PRICE TO COVER TOTAL COST		\$3.38		\$3.68

Table 15C. Variable Operating Costs; Fall Honeydews, 2001

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Honeydew Melons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 514.0 Ct / Acre PREVIOUS CROP: Cantaloupes DATE: 8/22/01

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No.	First Month	Operation	---- Hours * ----		---- Operating Costs (\$/ACRE *) Per Operation ----					Tot. Cash Expenses	Class	
			Machine	Labor	Fuel/Rps.	Labor	Cust/Serv.	Materials	Total			Times
1	Jun	Rip	0.225	0.250	3.92	2.19			6.11	1.0	6.11	L
2	Jun	Disk	0.150	0.167	3.15	1.47			4.61	2.0	9.22	L
3	Jun	Laser Level	0.450	0.500	7.38	4.39			11.77	1.0	11.77	L
4	Jun	Soil Fertility					3.00		3.00	1.0	3.00	G
5	Jun	Apply Fert/Ground	0.180	0.200	1.49	1.75		34.98	38.23	1.0	38.23	G
6	Jun	List	0.225	0.250	2.10	2.19			4.29	1.0	4.29	L
7	Jul	Plant	0.360	0.800	5.18	6.58		32.23	43.99	1.0	43.99	L
8	Jul	Apply Herbicide/Ground	0.225	0.250	1.24	2.19		56.42	59.85	1.0	59.85	G
9	Jul	Apply Insect./Ground	0.180	0.200	0.95	1.75		24.36	27.07	1.0	27.07	G
10	Jul	Buck Rows	0.045	0.050	0.20	0.44			0.64	5.0	3.20	G
11	Jul	Irrigate		0.667		5.12			5.12	7.0	35.81	G
12	Jul	Cultivate	0.225	0.250	1.55	2.19			3.74	9.0	33.67	G
13	Jul	Plant Fertility					6.00		6.00	1.0	6.00	G
14	Jul	Irrigate/Run Fertilizer	0.600	0.667	2.00	5.12		30.04	37.15	1.0	37.15	G
15	Jul	Thinning					75.00		75.00	1.0	75.00	G
16	Aug	Apply Insecticide/Air					4.24	55.03	59.27	2.0	118.54	G
17	Aug	Hand Weeding					75.00		75.00	1.0	75.00	G
18	Aug	Apply Fert/Ground	0.257	0.286	3.02	2.51		39.96	45.49	1.0	45.49	G
19	Aug	Pollinate					15.00		15.00	1.0	15.00	G
20	Sep	Harvest 499 Ct					773.45		773.45	1.0	773.45	H
21	Sep	Disk Residue 499 Ct	0.180	0.200	3.78	1.75			5.53	1.0	5.53	L
		Pickup Use 50 Mi/Acre	1.667		13.69						13.69	
		Operating Interest at 10.0					5.49				5.49	
TOTAL CASH OPERATING EXPENSES (includes all times over):											1446.55	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 \$19.25 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS

Land Preparation (L)	80.91
Growing (G)	573.01
Harvest (H)	773.45
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	19.18
Total (T)	\$1,446.55

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

Prices ->	Yields		- 25%	- 10%	Budgeted	+ 10%	+ 25%	Break-even Price
			\$2.50	\$3.00	\$3.33	\$3.66	\$4.16	
- 25%		385.5	-293.39	-100.83	27.54	155.91	348.47	3.26
- 10%		462.6	-216.85	14.22	168.26	322.31	553.38	2.97
Budgeted		514.0	-165.82	90.92	262.08	433.24	689.99	2.82
+ 10%		565.4	-114.80	167.62	355.90	544.18	826.59	2.70
Break-even Yield			681.04	453.07	370.41	313.26	254.39	

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

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Honeydew Melons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 514.0 Ct / Acre PREVIOUS CROP: Cantaloupes DATE: 8/22/01

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			1.53		21.18	13.46	34.98		3.00	72.62
JUL C	4.0	20.0	4.77		14.42	38.44	110.82	32.23	81.00	276.91
AUG C	4.0	20.0	3.85		8.26	30.87	95.00		94.24	228.37
SEP C			0.95		8.42	8.33	55.03		777.69	849.47
Pickup Use 50 Mi/Acre					13.69					13.69
Operating Interest at 10.0									5.49	5.49
Water Assessment				**						
Total	8.0	40.0	11.11		65.97	91.10	295.83	32.23	961.42	1446.55
%					4.56	6.30	20.45	2.23	66.46	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 158.2
 Total P 126.0
 Total K 15.0
 Total Labor 11.1
 Total Water 40.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 27.1 Gal
 Unleaded Gas 5.0 Gal
 All Direct Energy 4.4 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.36 Hr	Cultivator, Sweep, 4 Rw	2.02 Hr	Directed Spray Rig, 8	0.18 Hr
Drag Scraper, 10'	0.45 Hr	Fertilizer Broadcaster,	0.18 Hr	Fertilizer Injector, 4 Row	0.26 Hr
Laser, Complete System	0.45 Hr	Lister, 5 Bottom	0.22 Hr	Offset Disk, 13.5'	0.00 Hr
Offset Disk, 18'	0.48 Hr	Pickup Truck, 1/2 Ton	1.67 Hr	Planter, Drill Type, 4 Row	0.36 Hr
Rowbuck, 10'	0.23 Hr	Saddle Tk Sprayer, 2 Tk 8	0.22 Hr	Tractor, 35 PTO HP	0.60 Hr
Tractor, 50 PTO HP,	0.63 Hr	Tractor, 70 PTO HP,	2.02 Hr	Tractor, 100 PTO HP,	1.02 Hr
Tractor, 200 PTO HP, 4WD	1.15 Hr	V-Ripper, 5 Shnk	0.22 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, District	40.00 Al				

LABOR REQUIREMENT (per Acre)

Irrigators	5.34 Hr	Other	0.40 Hr	Tractor	5.37 Hr
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*NOTE: P = Previous Year C = Current Year N = Next Year

** A water assessment charge of \$19.25 per Acre is included as an ownership cost in Table B.

Table 15E. Schedule of Operations; Fall Honeydews, 2001

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Honeydew Melons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 514.0 Ct / Acre PREVIOUS CROP: Cantaloupes DATE: 8/22/01

First No. Month	Times	Operation	Equipment/ Custom Oper		Job Rate Acre/Hr	Material Use and Cost				Service Cost \$ / Unit	Labor Type	
			HP	Self-Prop./ Implement		Name	Appl. Rate	\$ / Unit				
Jun	1.0	Rip	200	V-Ripper, 5 Shnk	4.00						Tractor	
Jun	2.0	Disk	200	Offset Disk, 18'	6.00						Tractor	
Jun	1.0	Laser Level	200	Drag Scraper, 10'	2.00						Tractor	
Jun	1.0	Soil Fertility		Laser, Complete System 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 Bed Shaper, 4 Rw	2.50	Honeydew Seeds	1.50	Th	20.27	Th	Tractor 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, District	5.00		5.00	Al	0.00	AF	Irrigators	
Jul	9.0	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		Tractor, 35 PTO HP	1.50	Water, District	5.00	Al	0.00	AF	Irrigators	
Jul	1.0	Thinning		CST Thinning		32-00-00, URAN 32,	30.00	Ga	170.80	Tn	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		CST Harv/pack/haul Melons						1.55	Ct	
Sep	1.0	Disk Residue	200	Offset Disk, 18'	5.00						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 15F Operations Calendar; Fall Honeydews, 2001

COUNTY: La Paz FARM: Western Arizona Vegetables WATER SOURCE: CRIR TILLAGE: Double Crop
 CROP: Honeydews ACRES: 1 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker YIELD: 499 Ct/Acre PREVIOUS CROP: Cantaloupe DATE: 03/25/2001

No.	Operation	Month and Times Operation Performed											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip						1 C						
2	Disk						2 C						
3	Laser Level						1 C						
4	Soil Fertility						1 C						
5	Apply Fert/Ground						1 C						
6	List						1 C						
7	Plant							1 C					
8	Apply Herbicide/Ground							1 C					
9	Apply Insect/Ground								1 C				
10	Buck Rows							2 C	3 C				
11	Irrigate							3 C	4 C				
12	Cultivate							3 C	3 C	3 C			
13	Plant Fertility							1 C					
14	Irrigate/Run Fertilizer							1 C					
15	Thinning							1 C					
16	Apply Insecticide/Air									1 C	1 C		
17	Hand Weeding								1 C				
18	Apply Fert/Ground								1 C				
19	Pollinate								1 C				
20	Harvest									1 C			
21	Disk Residue									1 C			

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

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

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 625.0 Ct / Acre PREVIOUS CROP: Cotton, Upland DATE: 8/22/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Crtm	625.00	\$6.98	\$4,362.50	\$4,362.50	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					94.45	_____
Tractor/Self Propelled				41.51		_____
Irrigation				46.04		_____
Other/ Contract				6.90		_____
Chemicals and Custom Applications					226.39	_____
Fertilizer				180.13		_____
Insecticide				41.33		_____
Other Chemicals				4.93		_____
Farm Machinery and Vehicles					51.02	_____
Diesel Fuel				24.49		_____
Repairs and Maintenance				26.53		_____
Irrigation Water (excluding labor)					0.00	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs & Seed/Transplants				20.06	188.06	_____
Other Services and Rentals				168.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					559.92	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Custom Harvest/Post Harvest					968.75	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					968.75	_____
OPERATING OVERHEAD -> PICKUP USE					13.69	_____
OPERATING INTEREST AT 10.0%					13.46	_____
TOTAL CASH OPERATING EXPENSES					\$1,555.82	_____
RETURNS OVER CASH OPERATING EXPENSES					\$2,806.68	_____

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Notes: The above figures do not include ownership costs, see table B for detailed cost allocation.
 ** A water assessment charge of \$19.25 per Acre is included as an ownership cost in Table B.

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

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 625.0 Ct / Acre PREVIOUS CROP: Cotton, Upland DATE: 8/22/01

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Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$6.98 / Ct	\$4,362.50		\$4,362.50	
TOTAL OPERATING EXPENSES	\$1,555.82		\$1,555.82	
RETURN OVER CASH OPERATING EXPENSES		\$2,806.68		\$2,806.68
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	4.83		4.83	
General and Office Overhead (5.0%of Total Operating Exp.)	77.79		77.79	
General Farm Maintenance (3.0% of Total Operating Exp.)	46.67		46.67	
Total Cash Overhead Expenses	129.30		129.30	
Total Cash Operating and Overhead Cost	1,685.11		1,685.11	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$2,677.39		\$2,677.39
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			27.50	
Interest on Equity, Machinery and Vehicles			10.05	
Total Capital Allocations			37.56	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		\$2,677.39		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				\$2,639.83
Land Cost / Rent or Lease	150.00		150.00	
Water Assessment **	19.25		19.25	
Total Land Costs	169.25		169.25	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$2,508.14		
RETURNS TO MANAGEMENT AND RISK ----->				\$2,470.58
Management Services (8% of Total Operation Expenses)			124.47	
TOTAL OWNERSHIP COST	298.55		460.57	
TOTAL COST	\$1,854.36		\$2,016.38	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$2,508.14		
RETURNS TO RISK (PROFITS) ----->				\$2,346.12
Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		\$2.49		\$2.49
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$0.48		\$0.74
BREAK-EVEN PRICE TO COVER TOTAL COST		\$2.97		\$3.23

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

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 625.0 Ct / Acre PREVIOUS CROP: Cotton, Upland DATE: 8/22/01

No.	First Month	Operation	---- Hours * ----		---- Operating Costs (\$/ACRE *) Per Operation ----					Tot. Cash Expenses	Class	
			Machine	Labor	Fuel/Rps.	Labor	Cust/Serv.	Materials	Total			Times
1	Feb	Rip	0.450	0.500	7.84	4.39			12.23	1.0	12.23	L
2	Feb	Disk	0.150	0.167	3.15	1.47			4.61	2.0	9.22	L
3	Feb	Laser Level	0.450	1.000	7.38	8.22			15.60	1.0	15.60	L
4	Feb	Soil Fertility					3.00		3.00	1.0	3.00	G
5	Feb	Apply Fert/Ground	0.180	0.200	1.49	1.75		52.47	55.72	1.0	55.72	G
6	Mar	List	0.225	0.250	2.10	2.19			4.29	1.0	4.29	L
7	Mar	Plant	0.360	0.800	5.18	6.58		20.06	31.81	1.0	31.81	L
8	Mar	Buck Rows	0.023	0.025	0.10	0.22			0.32	1.0	0.32	G
9	Mar	Irrigate		0.667		5.12			5.12	9.0	46.04	G
10	Mar	Cultivate	0.225	0.250	1.55	2.19			3.74	7.0	26.18	G
11	Mar	Apply Fert/Ground	0.257	0.286	3.02	2.51		63.83	69.36	2.0	138.71	G
12	Apr	Apply Insecticide/Air					4.75	15.91	20.66	2.0	41.32	G
13	Apr	Apply Fungicide/Air					4.75	0.18	4.93	1.0	4.93	G
14	Apr	Hand Weeding					75.00		75.00	2.0	150.00	G
15	Apr	Pollinate					15.00		15.00	1.0	15.00	G
16	May	Harvest 625 Ct					968.75		968.75	1.0	968.75	H
17	May	Disk Residue 625 Ct	0.180	0.200	3.78	1.75			5.53	1.0	5.53	L
		Pickup Use 50 Mi/Acre	1.667		13.69						13.69	
		Operating Interest at 10.0					13.46				13.46	
TOTAL CASH OPERATING EXPENSES (includes all times over):											1555.82	T

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*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 \$19.25 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS		SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE)						
		Prices ->	- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Land Preparation (L)	78.68	Yields	\$5.24	\$6.28	\$6.98	\$7.68	\$8.73	Break-even Price
Growing (G)	481.24	- 25%	468.8	994.24	1,485.02	1,812.21	2,139.40	2,630.18
Harvest (H)	968.75	- 10%	562.5	1,339.71	1,928.65	2,321.27	2,713.90	3,302.83
Post Harvest (P)	0.00	Budgeted	625.0	1,570.02	2,224.40	2,660.65	3,096.90	3,751.27
Marketing (M)	0.00	+ 10%	687.5	1,800.33	2,520.15	3,000.02	3,479.90	4,199.71
Operating Overhead (O)	27.15	+ 25%	781.3	2,145.80	2,963.77	3,509.08	4,054.40	4,872.37
Total (T)	\$1,555.82	Break-even Yield		198.94	154.92	135.01	119.63	102.17

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

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 625.0 Ct / Acre PREVIOUS CROP: Cotton, Upland DATE: 8/22/01

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			2.03		23.00	17.29	52.47		3.00	95.76
MAR C	3.0	18.0	4.11		15.04	33.42	63.83	20.06		132.35
APR C	3.0	18.0	3.04		7.66	24.43	79.93		174.50	286.52
MAY C	3.0	18.0	2.25		1.55	17.54	15.91		489.13	524.13
JUN C			0.20		3.78	1.75			484.38	489.91
Pickup Use 50 Mi/Acre					13.69					13.69
Operating Interest at 10.0 Water Assessment				**					13.46	13.46
Total	9.0	54.0	11.63		64.72	94.43	212.14	20.06	1164.47	1555.82
%					4.16	6.07	13.64	1.29	74.85	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 149.6
 Total P 206.2
 Total K 31.1
 Total Labor 11.6
 Total Water 54.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 26.6 Gal
 Unleaded Gas 5.0 Gal
 All Direct Energy 4.3 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.36 Hr	Cultivator, Sweep, 4 Rw	1.57 Hr	Drag Scraper, 10'	0.45 Hr
Fertilizer Broadcaster,	0.18 Hr	Fertilizer Injector, 4 Row	0.51 Hr	Laser, Complete System	0.45 Hr
Lister, 5 Bottom	0.22 Hr	Offset Disk, 18'	0.48 Hr	Pickup Truck, 1/2 Ton	1.67 Hr
Planter, Drill Type, 4 Row	0.36 Hr	Rowbuck, 10'	0.02 Hr	Tractor, 50 PTO HP,	0.02 Hr
Tractor, 70 PTO HP,	1.57 Hr	Tractor, 100 PTO HP,	1.28 Hr	Tractor, 200 PTO HP, 4WD	1.38 Hr
V-Ripper, 5 Shnk	0.45 Hr				

MATERIALS REQUIREMENT (per Acre)

11-48-00, Dry	300.00 Lb	15-08-04, Lqd	70.00 Ga	Cantaloupe Sd	2.00 Lb
Endosulfan	3.00 Pt	Esfenvalerate	1.00 Pt	Sulfur	0.25 Lb
Water, District	54.00 Al				

LABOR REQUIREMENT (per Acre)

Irrigators	6.00 Hr	Other	0.90 Hr	Tractor	4.73 Hr
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*NOTE: P = Previous Year C = Current Year N = Next Year

** A water assessment charge of \$19.25 per Acre is included as an ownership cost in Table B.

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

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 625.0 Ct / Acre PREVIOUS CROP: Cotton, Upland DATE: 8/22/01

First No. Month	Times	Operation	Equipment/ Custom Oper		Job Rate Acre/Hr	Material Use and Cost				Service Cost \$ / Unit	Labor Type
			HP	Self-Prop./ Implement		Name	Appl. Rate	\$ / Unit			
Feb	1.0	Rip	200	V-Ripper, 5 Shnk	2.00						Tractor
Feb	2.0	Disk	200	Offset Disk, 18'	6.00						Tractor
Feb	1.0	Laser Level	200	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
Mar	1.0	List	100	Lister, 5 Bottom	4.00						Tractor
Mar	1.0	Plant	100	Planter, Drill Type, 4 Row	2.50	Cantaloupe Sd	2.00	Lb	9.46	Lb	Tractor
				Bed Shaper, 4 Rw							Other
Mar	1.0	Buck Rows	50	Rowbuck, 10'	40.00						Tractor
Mar	9.0	Irrigate	1.50	Water, District	1.50		6.00	Al	0.00	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	Apply Insecticide/Air		CST Air Spray, 5 Gal Mix		Esfenvalerate	0.50	Pt	140.69	Ga	4.75
						Endosulfan	1.50	Pt	33.17	Ga	
						Sulfur	0.25	Lb	0.69	Lb	4.75
Apr	1.0	Apply Fungicide/Air		CST Air Spray, 5 Gal Mix							4.75
Apr	2.0	Hand Weeding		CST Hand Weeding							75.00
Apr	1.0	Pollinate		CST Bee Hive Rental							15.00
May	1.0	Harvest		CST Harv/pack/haul Melons							1.55
May	1.0	Disk Residue	200	Offset Disk, 18'	5.00						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 16F Operations Calendar; Spring Cantaloupe, 2001

COUNTY: La Paz FARM: Western Arizona Vegetables WATER SOURCE: CRIR TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker YIELD: 625 Ct/Acre PREVIOUS CROP: Cotton, Upland DATE: 03/25/2001

No.	Operation	Month and Times Operation Performed											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip		1 C										
2	Disk		2 C										
3	Laser Level		1 C										
4	Soil Fertility		1 C										
5	Apply Fert/Ground		1 C										
6	List			1 C									
7	Plant			1 C									
8	Buck Rows			1 C									
9	Irrigate			3 C	3 C	3 C							
10	Cultivate			3 C	3 C	1 C							
11	Apply Fert/Ground			1 C	1 C								
12	Apply Insecticide/Air					1 C	1 C						
13	Apply Fungicide/Air				1 C								
14	Hand Weeding				2 C								
15	Pollinate				1 C								
16	Harvest					.5 C	.5 C						
17	Disk Residue						1 C						

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

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

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 14.1 Tn / Acre PREVIOUS CROP: Cotton, Upland DATE: 8/22/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Ton	14.12	\$141.60	\$1,999.39	\$1,999.39	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					133.38	_____
Tractor/Self Propelled				86.09		_____
Irrigation				23.66		_____
Other/ Contract				23.63		_____
Chemicals and Custom Applications					453.52	_____
Fertilizer				143.60		_____
Insecticide				309.92		_____
Farm Machinery and Vehicles					116.40	_____
Diesel Fuel				42.73		_____
Gasoline				14.13		_____
Repairs and Maintenance				59.54		_____
Irrigation Water (excluding labor)					0.00	_____
Water Assessment (See Note Below) **						_____
Other Purchased Inputs & Seed/Transplants				96.23	399.23	_____
Other Services and Rentals				303.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					1102.52	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					1.46	_____
Tractor/Self Propelled				1.46		_____
Farm Machinery and Vehicles					3.15	_____
Diesel Fuel				1.48		_____
Repairs and Maintenance				1.67		_____
Custom Harvest/Post Harvest					1096.00	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					1100.61	_____
OPERATING OVERHEAD -> PICKUP USE					13.69	_____
OPERATING INTEREST AT 10.0%					33.65	_____
TOTAL CASH OPERATING EXPENSES					\$2,250.47	_____
RETURNS OVER CASH OPERATING EXPENSES					(\$251.07)	_____

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

** A water assessment charge of \$19.25 per Acre is included as an ownership cost in Table B.

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

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 14.1 Tn / Acre PREVIOUS CROP: Cotton, Upland DATE: 8/22/01

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Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$141.60 / Tn	\$1,999.39		\$1,999.39	
TOTAL OPERATING EXPENSES	\$2,250.47		\$2,250.47	
RETURN OVER CASH OPERATING EXPENSES		(\$251.07)		(\$251.07)
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	12.31		12.31	
General and Office Overhead (5.0%of Total Operating Exp.)	112.52		112.52	
General Farm Maintenance (3.0% of Total Operating Exp.)	67.51		67.51	
Total Cash Overhead Expenses	192.35		192.35	
Total Cash Operating and Overhead Cost	2,442.81		2,442.81	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		(\$443.42)		(\$443.42)
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			60.75	
Interest on Equity, Machinery and Vehicles			17.46	
Total Capital Allocations			78.21	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		(\$443.42)		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				(\$521.63)
Land Cost / Rent or Lease	150.00		150.00	
Water Assessment **	19.25		19.25	
Total Land Costs	169.25		169.25	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		(\$612.67)		
RETURNS TO MANAGEMENT AND RISK ----->				(\$690.88)
Management Services (8% of Total Operation Expenses)			180.04	
TOTAL OWNERSHIP COST	361.60		619.85	
TOTAL COST	\$2,612.06		\$2,870.31	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		(\$612.67)		
RETURNS TO RISK (PROFITS) ----->				(\$870.92)
Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		\$159.38		\$159.38
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$25.61		\$43.90
BREAK-EVEN PRICE TO COVER TOTAL COST		\$184.99		\$203.28

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

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 14.1 Tn / Acre PREVIOUS CROP: Cotton, Upland DATE: 8/22/01

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No.	First Month	Operation	---- Hours * ----		---- Operating Costs (\$/ACRE *) Per Operation ----					Tot. Cash Expenses	Class	
			Machine	Labor	Fuel/Rps.	Labor	Cust/Serv.	Materials	Total			Times
1	Dec	Rip	0.300	0.333	5.23	2.92			8.15	1.0	8.15	L
2	Dec	Disk	0.150	0.167	3.15	1.46			4.61	2.0	9.22	L
3	Dec	Laser Level	0.225	0.250	3.83	2.19			6.03	1.0	6.03	L
4	Jan	Soil Fertility					3.00		3.00	1.0	3.00	G
5	Jan	Apply Fert/Ground	0.225	0.250	1.53	2.19		43.46	47.18	1.0	47.18	G
6	Jan	List	0.150	0.167	2.01	1.46			3.47	1.0	3.47	L
7	Jan	Shape Beds	1.200	1.333	16.81	11.70			106.47	1.0	106.47	L
8	Jan	Plant	0.514	0.571	5.71	5.01		107.36	118.09	1.0	118.09	L
9	Jan	Make Ditches	0.045	0.050	0.67	0.44			1.10	7.0	7.73	G
10	Jan	Dust Control	0.009	0.010	0.17	0.16			0.33	150.0	48.80	G
11	Jan	Irrigate		0.752		5.77			5.77	1.0	5.77	G
12	Jan	Knock Ditches	0.023	0.025	0.33	0.22			0.55	7.0	3.86	G
13	Jan	Cultivate	0.450	0.500	3.33	4.39			7.71	6.0	46.27	G
14	Feb	Thinning					75.00		75.00	1.0	75.00	G
15	Mar	Apply Fert/Ground	0.327	0.364	3.44	3.19		29.48	36.12	2.0	72.23	G
16	Mar	Apply Insect./Ground	0.225	0.250	1.71	2.19		37.28	41.18	6.0	247.09	G
17	Mar	Apply Herbicide/Ground	0.225	0.250	1.65	2.19		8.26	12.10	1.0	12.10	G
18	Mar	Incorporate Herbicide	0.514	0.571	4.11	5.01			9.12	1.0	9.12	G
19	Mar	Hand Weeding					75.00		75.00	1.0	75.00	G
20	Mar	Irrigate		0.333		2.56			2.56	4.0	10.23	G
21	Mar	Turn Vines					75.00		75.00	2.0	150.00	G
22	Apr	Irrigate/Run Fertilizer		0.500		3.83		15.02	18.85	2.0	37.70	G
23	May	Harvest 13.7 Tn					1096.00		1096.00	1.0	1096.00	H
24	Jun	Residue Disposal 13.7 Tn	0.150	0.167	3.15	1.46			4.61	1.0	4.61	P
		Pickup Use 50 Mi/Acre	1.667		13.69						13.69	
		Operating Interest at 10.0					33.65				33.65	
TOTAL CASH OPERATING EXPENSES (includes all times over):											2250.47	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 \$19.25 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS		SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE)								
		Prices ->			Budgeted	+ 10%	+ 25%			
Land Preparation (L)	251.43	Yields			\$106.20	\$127.44	\$141.60	\$155.76	\$177.00	Break-even Price
Growing (G)	851.09	- 25%	10.6	-967.00	-742.07	-592.12	-442.16	-217.23		197.51
Harvest (H)	1,096.00	- 10%	12.7	-907.16	-637.25	-457.30	-277.35	-7.44		177.59
Post Harvest (P)	4.61	Budgeted	14.1	-867.27	-567.36	-367.42	-167.48	132.43		167.62
Marketing (M)	0.00	+ 10%	15.5	-827.38	-497.48	-277.54	-57.61	272.29		159.47
Operating Overhead (O)	47.34									
Total (T)	\$2,250.47									
		Break-even Yield			44.82	25.58	19.89	16.27	12.78	

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

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 14.1 Tn / Acre PREVIOUS CROP: Cotton, Upland DATE: 8/22/01

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			0.75		12.21	6.58				18.79
JAN C	1.0	18.0	3.41		31.87	29.83	132.56	96.23	3.00	293.49
FEB C			1.88		16.01	18.54			75.00	109.55
MAR C	2.0	8.0	4.23		28.63	38.44	112.30		150.00	329.37
APR C	2.0	12.0	2.15		13.89	20.01	119.06		75.00	227.96
MAY C	2.0	12.0	1.78		10.44	16.82	89.58		548.00	664.84
JUN C			0.37		6.50	4.61			548.00	559.11
Pickup Use 50 Mi/Acre					13.69					13.69
Operating Interest at 10.0									33.65	33.65
Water Assessment				**						
Total	7.0	50.0	14.56		133.24	134.83	453.50	96.23	1432.65	2250.47
%					5.92	5.99	20.15	4.28	63.66	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 247.2
 Total P 183.1
 Total Labor 14.6
 Total Water 50.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 48.1 Gal
 Unleaded Gas 14.4 Gal
 All Direct Energy 8.5 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	1.20 Hr	Dbl. Gang Disk Cult, 1 Rw	3.21 Hr	Directed Spray Rig, 8	0.22 Hr
Drag Scraper, 14'	0.22 Hr	Fert. Side Dress Unit,	0.65 Hr	Fertilizer Broadcaster,	0.22 Hr
Fertilizer Injector, 3 Row	0.51 Hr	Flexi-Planter - 4 Units	0.51 Hr	Laser, Complete System	0.22 Hr
Lister, 5 Bottom	0.15 Hr	Motor Grader, 12'	0.47 Hr	Offset Disk, 18'	0.45 Hr
Pickup Truck, 1/2 Ton	1.67 Hr	Saddle Tk Sprayer, 2 Tk 8	2.55 Hr	Section Harrow, 3 Section	0.51 Hr
Tractor, 80 PTO HP,	6.18 Hr	Tractor, 150 PTO HP,	1.35 Hr	Tractor, 200 PTO HP, 4WD	0.98 Hr
Truck, 5 Ton w/1000 Gal	1.35 Hr	V-Ripper, 5 Shnk	0.30 Hr		

MATERIALS REQUIREMENT (per Acre)

10-34-00, Lqd	7.00 Ga	11-52-00, Dry	300.00 Lb	20-00-00, Amm. Nitrate,	500.00 Lb
32-00-00, URAN 32, Lqd	30.00 Ga	Endosulfan	1.20 Lb	Esfenvalerate	12.00 Pt
Imidacloprid	16.00 Oz	Water, District	50.00 Al	Watermelon Seed (Hyb)	3.00 Th

LABOR REQUIREMENT (per Acre)

Irrigators	3.09 Hr	Tractor	9.98 Hr	Truck Driver	1.50 Hr
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*NOTE: P = Previous Year C = Current Year N = Next Year

** A water assessment charge of \$19.25 per Acre is included as an ownership cost in Table B.

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

COUNTY: La Paz FARM: La Paz County WATER SOURCE: CRIR Irrigation Project TILLAGE: Double Crop
 CROP: Watermelons ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker CRIR YIELD: 14.1 Tn / Acre PREVIOUS CROP: Cotton, Upland DATE: 8/22/01

First No. Month Times	Operation	Equipment/ Custom Oper		Job Rate Acre/Hr	Material Use and Cost				Service Cost \$ / Unit	Labor Type
		HP	Self-Prop./ Implement		Name	Appl. Rate	\$ / Unit			
Dec	1.0 Rip	200	V-Ripper, 5 Shnk	3.00						Tractor
Dec	2.0 Disk	200	Offset Disk, 18'	6.00						Tractor
Dec	1.0 Laser Level	200	Drag Scraper, 14'	4.00						Tractor
			Laser, Complete System							
Jan	1.0 Soil Fertility		CST Soil Analysis (Surface)						3.00 Ac	
Jan	1.0 Apply Fert/Ground	80	Fertilizer Broadcaster,	4.00	11-52-00, Dry	300.00	Lb	273.33	Tn	Tractor
Jan	1.0 List	150	Lister, 5 Bottom	6.00						Tractor
Jan	1.0 Shape Beds	150	Bed Shaper, 4 Rw	0.75	Imidacloprid	16.00	Oz	588.40	Ga	Tractor
			Saddle Tk Sprayer, 2 Tk 8 Row							
Jan	1.0 Plant	80	Flexi-Planter - 4 Units	1.75	Watermelon Seed	3.00	Th	30.26	Th	Tractor
			Fertilizer Injector, 3 Row		10-34-00, Lqd	7.00	Ga	263.33	Tn	
Jan	7.0 Make Ditches		Motor Grader, 12'	20.00						Tractor
Jan	150.0 Dust Control		Truck, 5 Ton w/1000 Gal Tank	100.00						Truck
Jan	1.0 Irrigate			1.33	Water, District	18.00	Al	0.00	AF	Irrigators
Jan	7.0 Knock Ditches		Motor Grader, 12'	40.00						Tractor
Jan	6.0 Cultivate	80	Dbl. Gang Disk Cult, 1 Rw	2.00						Tractor
Feb	1.0 Thinning		CST Thinning						75.00 Ac	
Mar	2.0 Apply Fert/Ground	80	Fert. Side Dress Unit, 4Row	2.75	20-00-00, Amm. Nitrate,	250.00	Lb	222.50	Tn	Tractor
Mar	6.0 Apply Insect./Ground	80	Saddle Tk Sprayer, 2 Tk 8	4.00	Esfenvalerate	2.00	Pt	140.69	Ga	Tractor
Mar	1.0 Apply Herbicide/Ground	80	Directed Spray Rig, 8 Row	4.00	Endosulfan	1.20	Lb	6.49	Lb	Tractor
Mar	1.0 Incorporate Herbicide	80	Dbl. Gang Disk Cult, 1 Rw	1.75						Tractor
			Section Harrow, 3 Section							
Mar	1.0 Hand Weeding		CST Hand Weeding						75.00 Ac	
Mar	4.0 Irrigate			3.00	Water, District	4.00	Al	0.00	AF	Irrigators
Mar	2.0 Turn Vines		CST Hand Weeding	0.20					75.00 Ac	
Apr	2.0 Irrigate/Run Fertilizer			2.00	Water, District	8.00	Al	0.00	AF	Irrigators
					32-00-00, URAN 32,	15.00	Ga	170.80	Tn	
May	1.0 Harvest		CST Harv/pack/haul						80.00 Tn	
Jun	1.0 Residue Disposal	200	Offset Disk, 18'	6.00						Tractor
			Pickup use 50 Mi/Ac	0.60						

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

Table 17F Operations Calendar; Spring Watermelons, 2001

COUNTY: La Paz FARM: Western Arizona Vegetables WATER SOURCE: CRIR TILLAGE: Double Crop
 CROP: Watermelons ACRES: 1 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Parker YIELD: 13.77 Tn/Acre PREVIOUS CROP: Cotton, Upland DATE: 03/25/2001

No.	Operation	Month and Times Operation Performed											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip												1 P
2	Disk	1 C											1 P
3	Laser Level												1 P
4	Soil Fertility	1 C											
5	Apply Fert/Ground	1 C											
6	List	1 C											
7	Bed Shaping/Admire		1 C										
8	Plant	1 C											
9	Make Ditches	1 C	1 C	1 C	2 C	2 C							
10	Dust Control	10 C	30 C	30 C	30 C	30 C	30 C						
11	Irrigate	1 C											
12	Knock Ditches	1 C	1 C	1 C	2 C	2 C							
13	Cultivate		3 C	3 C									
14	Thinning		1 C										
15	Apply Fert/Ground			1 C	1 C								
16	Apply Insect./Ground				2 C	2 C	2 C						
17	Apply Herbicide/Ground			1 C									
18	Incorporate Herbicide			1 C									
19	Hand Weeding			1 C									
20	Irrigate			2 C	1 C	1 C							
21	Turn Vines			1 C	1 C								
22	Irrigate/Run Fertilizer				1 C	1 C							
23	Harv/pack/haul Watermelons					.5 C	.5 C						
24	Disk Residue						1 C						

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

Table 18A. Income and Cash Operating Summary; Fall Lettuce, 2001

COUNTY: La Paz FARM: Salome Area (La Paz) WATER SOURCE: McMullen Valley, Elect TILLAGE: Conventional
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Salome/Wenden YIELD: 823.0 Ct / Acre PREVIOUS CROP: Honeydew Melons DATE: 8/22/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Lettuce	Crtm	823.00	\$5.26	\$4,328.98	\$4,328.98	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					62.18	_____
Tractor/Self Propelled				32.08		_____
Irrigation				30.10		_____
Chemicals and Custom Applications					290.71	_____
Fertilizer				165.06		_____
Insecticide				106.86		_____
Herbicide				18.42		_____
Other Chemicals				0.36		_____
Farm Machinery and Vehicles					39.20	_____
Diesel Fuel				17.80		_____
Repairs and Maintenance				21.40		_____
Irrigation Water (excluding labor)					277.08	_____
Pump Energy - Electric				258.17		_____
Repairs and Maintenance				18.92		_____
Other Purchased Inputs &					335.86	_____
Seed/Transplants				101.76		_____
Other Services and Rentals				234.10		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					1005.02	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					2.19	_____
Tractor/Self Propelled				2.19		_____
Farm Machinery and Vehicles					4.35	_____
Diesel Fuel				1.94		_____
Repairs and Maintenance				2.40		_____
Custom Harvest/Post Harvest					2047.20	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					2053.74	_____
OPERATING OVERHEAD -> PICKUP USE					13.69	_____
OPERATING INTEREST AT 10.0%					185.03	_____
TOTAL CASH OPERATING EXPENSES					\$3,257.49	_____
RETURNS OVER CASH OPERATING EXPENSES					\$1,071.49	_____

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

Table 18B. Allocations of Ownership Costs; Fall Lettuce, 2001

COUNTY: La Paz FARM: Salome Area (La Paz) WATER SOURCE: McMullen Valley, Elect TILLAGE: Conventional
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Salome/Wenden YIELD: 823.0 Ct / Acre PREVIOUS CROP: Honeydew Melons DATE: 8/22/01

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Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$5.26 / Ct	\$4,328.98		\$4,328.98	
TOTAL OPERATING EXPENSES	\$3,257.49		\$3,257.49	
RETURN OVER CASH OPERATING EXPENSES		\$1,071.49		\$1,071.49
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	4.65		4.65	
Wells and Irrigation System	6.82		6.82	
General and Office Overhead (5.0% of Total Operating Exp.)	162.87		162.87	
General Farm Maintenance (3.0% of Total Operating Exp.)	97.72		97.72	
Total Cash Overhead Expenses	272.06		272.06	
Total Cash Operating and Overhead Cost	3,529.55		3,529.55	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$799.43		\$799.43
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			25.88	
Wells and Irrigation System			25.29	
Interest on Equity, Machinery and Vehicles			11.70	
Wells and Irrigation System			13.52	
Total Capital Allocations			76.39	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		\$799.43		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				\$723.04
Land Cost / Rent or Lease	150.00		150.00	
Total Land Costs	150.00		150.00	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$649.43		
RETURNS TO MANAGEMENT AND RISK ----->				\$573.04
Management Services (8% of Total Operation Expenses)			260.60	
TOTAL OWNERSHIP COST	422.06		759.06	
TOTAL COST	\$3,679.55		\$4,016.54	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		\$649.43		
RETURNS TO RISK (PROFITS) ----->				\$312.44
Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		\$3.96		\$3.96
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$0.51		\$0.92
BREAK-EVEN PRICE TO COVER TOTAL COST		\$4.47		\$4.88

Table 18C. Variable Operating Costs; Fall Lettuce, 2001

COUNTY: La Paz FARM: Salome Area (La Paz) WATER SOURCE: McMullen Valley, Elect TILLAGE: Conventional
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Salome/Wenden YIELD: 823.0 Ct / Acre PREVIOUS CROP: Honeydew Melons DATE: 8/22/01

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No.	First Month	Operation	---- Hours * ----		---- Operating Costs (\$/ACRE *) Per Operation ----					Tot. Cash Expenses	Class	
			Machine	Labor	Fuel/Rps.	Labor	Cust/Serv.	Materials	Total			Times
1	Aug	Disk	0.225	0.250	4.72	2.19			6.91	2.0	13.83	L
2	Aug	Rip	0.378	0.420	6.59	3.68			10.27	1.0	10.27	L
3	Aug	Laser Level	0.257	0.286	4.22	2.51			6.73	1.0	6.73	L
4	Sep	List	0.225	0.250	3.10	2.19			5.29	1.0	5.29	L
5	Sep	Buck Rows	0.023	0.025	0.10	0.22			0.32	5.0	1.61	G
6	Sep	Preirrigate		0.725	79.17	5.56			84.73	1.0	84.73	G
7	Sep	Soil Fertility					3.00		3.00	1.0	3.00	G
8	Sep	Disk Ends	0.023	0.025	0.14	0.22			0.36	5.0	1.81	G
9	Sep	Apply Fert/Ground	0.180	0.200	0.85	1.75		68.90	71.50	1.0	71.50	G
10	Oct	Plant	0.450	0.500	6.87	4.39		101.76	113.02	1.0	113.02	L
11	Oct	Apply Herbicide/Ground	0.180	0.200	1.37	1.75		18.42	21.55	1.0	21.55	G
12	Oct	Set Sprinklers	0.158	0.350	0.56	2.88			3.44	1.0	3.44	G
13	Oct	Irrigate/Sec Sys		1.000	39.58	7.67		6.39	53.64	1.0	53.64	G
14	Oct	Bird Control					6.10		6.10	1.0	6.10	G
15	Nov	Remove Sprinklers	0.158	0.350	0.56	2.88			3.44	1.0	3.44	G
16	Nov	Apply Insect./Ground	0.090	0.100	0.51	0.88		45.55	46.94	1.0	46.94	G
17	Nov	Irrigate/Run Fertilizer		0.200	39.58	1.53		24.04	65.16	4.0	260.63	G
18	Nov	Apply Insect./Ground	0.090	0.100	0.51	0.88		12.97	14.36	1.0	14.36	G
19	Nov	Thinning					75.00		75.00	1.0	75.00	G
20	Nov	Cultivate	0.225	0.250	1.70	2.19			3.89	2.0	7.78	G
21	Nov	Apply Insecticide/Air					4.24	14.69	18.93	1.0	18.93	G
22	Dec	Hand Weeding					75.00		75.00	2.0	150.00	G
23	Dec	Apply Insecticide/Air					4.75	18.64	23.39	1.0	23.39	G
24	Jan	Harvest/Field Pack 853 Ct					2047.20		2047.20	1.0	2047.20	H
25	Jan	Residue Disposal 853 Ct	0.225	0.250	4.35	2.19			6.54	1.0	6.54	P
		Pickup Use 50 Mi/Acre	1.667		13.69						13.69	
		Operating Interest at 10.0					185.03				185.03	
TOTAL CASH OPERATING EXPENSES (includes all times over):											3257.49	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)	149.14
Growing (G)	855.89
Harvest (H)	2,047.20
Post Harvest (P)	6.54
Marketing (M)	0.00
Operating Overhead (O)	198.72
Total (T)	\$3,257.49

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

Prices ->	Yields	Budgeted					Break-even Price
		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
- 25%	617.3	-265.91	221.10	545.77	870.44	1,357.45	4.38
- 10%	740.7	-86.96	497.45	887.06	1,276.67	1,861.08	4.06
Budgeted	823.0	32.34	681.68	1,114.58	1,547.48	2,196.83	3.91
+ 10%	905.3	151.64	865.92	1,342.10	1,818.29	2,532.57	3.78
Break-even Yield		800.69	518.48	419.83	352.72	284.51	

Table 18D. Resource and Cash Flow Requirements; Fall Lettuce, 2001

COUNTY: La Paz FARM: Salome Area (La Paz) WATER SOURCE: McMullen Valley, Elect TILLAGE: Conventional
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Salome/Wenden YIELD: 823.0 Ct / Acre PREVIOUS CROP: Honeydew Melons DATE: 8/22/01

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			1.21		20.25	10.58				30.83
SEP C	1.0	12.0	1.27		83.56	10.39	68.90		3.00	165.85
OCT C	1.0	6.0	2.67		48.87	21.59	24.81	101.76		197.03
NOV C	2.0	12.0	1.77		82.73	14.36	121.29		85.34	303.72
DEC C	2.0	12.0	0.65		80.86	5.26	66.72		154.75	307.59
JAN N			0.25		4.35	2.19			2047.20	2053.74
Pickup Use 50 Mi/Acre					13.69					13.69
Operating Interest at 10.0									185.03	185.03
Total	6.0	42.0	7.83		334.31	64.37	281.72	101.76	2475.32	3257.49
%					10.26	1.98	8.65	3.12	75.99	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 221.8
 Total P 225.0
 Total Labor 7.8
 Total Water 42.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 21.5 Gal
 Unleaded Gas 5.0 Gal
 Electric / Pumping 2986.7 KWH
 All Direct Energy 13.9 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.45 Hr	Directed Spray Rig, 16	0.18 Hr	Drag Scraper, 10'	0.26 Hr
Fertilizer Broadcaster,	0.18 Hr	High Clearance Sprayer,	0.18 Hr	Laser, Complete System	0.26 Hr
Lister, 7 Bottom	0.22 Hr	Offset Disk, 10.5'	0.11 Hr	Offset Disk, 18'	0.67 Hr
Pickup Truck, 1/2 Ton	1.67 Hr	Planter, Stanhay, 4 Row	0.45 Hr	Rowbuck, 10'	0.11 Hr
Sled Cultivator, 4Rw	0.45 Hr	Sprinkler Trailer	0.32 Hr	Tractor, 40 PTO HP,	0.32 Hr
Tractor, 50 PTO HP,	0.41 Hr	Tractor, 70 PTO HP,	0.63 Hr	Tractor, 100 PTO HP,	0.45 Hr
Tractor, 150 PTO HP,	0.22 Hr	Tractor, 175 PTO HP,	0.22 Hr	Tractor, 200 PTO HP, 4WD	1.09 Hr
V-Ripper, 5 Shnk	0.38 Hr				

MATERIALS REQUIREMENT (per Acre)

00-45-00, Treble Super.	500.00 Lb	33-00-00, Amm. Nitrate,	64.00 Ga	Abamectin	10.00 Oz
Benefin	2.00 Pt	BT	2.00 Lb	Head Lettuce Sd	160.00 Th
Methomyl	4.00 Pt	Permethrin	24.40 Oz	Spreader-activator	3.20 Oz
Water, Pump	42.00 Al				

LABOR REQUIREMENT (per Acre)

Irrigators 3.93 Hr Tractor 3.91 Hr

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

Table 18E. Schedule of Operations; Fall Lettuce, 2001

COUNTY: La Paz FARM: Salome Area (La Paz) WATER SOURCE: McMullen Valley, Elect TILLAGE: Conventional
 CROP: Lettuce, Iceberg ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Salome/Wenden YIELD: 823.0 Ct / Acre PREVIOUS CROP: Honeydew Melons DATE: 8/22/01

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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 2.0	Disk	200 Offset Disk, 18'	4.00				Tractor
Aug 1.0	Rip	200 V-Ripper, 5 Shnk	2.38				Tractor
Aug 1.0	Laser Level	200 Drag Scraper, 10' Laser, Complete System	3.50				Tractor
Sep 1.0	List	150 Lister, 7 Bottom	4.00				Tractor
Sep 5.0	Buck Rows	50 Rowbuck, 10'	40.00				Tractor
Sep 1.0	Preirrigate		1.38	Water, Pump	12.00 Al 79.17 AF		Irrigators
Sep 1.0	Soil Fertility	CST Soil Analysis (Surface)				3.00 Ac	
Sep 5.0	Disk Ends	50 Offset Disk, 10.5'	40.00				Tractor
Sep 1.0	Apply Fert/Ground	50 Fertilizer Broadcaster,	5.00	00-45-00, Treble	500.00 Lb 260.00 Tn		Tractor
Oct 1.0	Plant	100 Bed Shaper, 4 Rw Planter, Stanhay, 4 Row	2.00	Head Lettuce Sd	160.00 Th 0.60 Th		Tractor
Oct 1.0	Apply Herbicide/Ground	70 Directed Spray Rig, 16 Row	5.00	Benefin	2.00 Pt 8.69 Ga		Tractor
Oct 1.0	Set Sprinklers	40 Sprinkler Trailer	5.71				Tractor
Oct 1.0	Irrigate/Sec Sys		1.00	Water, Pump Permethrin	6.00 Al 79.17 AF 6.40 Oz 120.50 Ga		Irrigators
Oct 1.0	Bird Control	CST Bird Control				6.10 Hr	
Nov 1.0	Remove Sprinklers	40 Sprinkler Trailer	5.71				Tractor
Nov 1.0	Apply Insect./Ground	High Clearance Sprayer, 18	10.00	Abamectin	10.00 Oz 550.00 Ga		Irrigators
Nov 4.0	Irrigate/Run Fertilizer		5.00	Water, Pump 33-00-00, Amm. Nitrate,	6.00 Al 79.17 AF 16.00 Ga 270.00 Tn		Tractor
Nov 1.0	Apply Insect./Ground	High Clearance Sprayer, 18	10.00	Methomyl	2.00 Pt 48.94 Ga		Tractor
Nov 1.0	Thinning	CST Thinning				75.00 Ac	
Nov 2.0	Cultivate	70 Sled Cultivator, 4Rw	4.00				Tractor
Nov 1.0	Apply Insecticide/Air	CST Air Spray, 3 Gal Mix		Methomyl Permethrin BT Spreader-activator	1.00 Pt 48.94 Ga 6.00 Oz 120.50 Ga 2.00 Lb 0.96 Lb 1.60 Oz 13.50 Ga	4.24 Ac	
Dec 2.0	Hand Weeding	CST Hand Weeding				75.00 Ac	
Dec 1.0	Apply Insecticide/Air	CST Air Spray, 5 Gal Mix		Methomyl Permethrin Spreader-activator	1.00 Pt 48.94 Ga 12.00 Oz 120.50 Ga 1.60 Oz 13.50 Ga	4.75 Ac	
Jan 1.0	Harvest/Field Pack	CST Harv/pack/haul Lettuce				2.40 Ct	
Jan 1.0	Residue Disposal	175 Offset Disk, 18'	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 18F Operations Calendar; Fall Lettuce, 2001

COUNTY: La Paz FARM: Western Arizona Vegetables WATER SOURCE: McMullen/Valley Elec TILLAGE: Double Crop
 CROP: Lettuce, Iceberg ACRES: 1 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Salome/Wenden YIELD: 853 Ct/Acre PREVIOUS CROP: Honeydew Melons DATE: 03/25/2001

No.	Operation	Month and Times Operation Performed											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Disk								2 C				
2	Rip								1 C				
3	Laser Level								1 C				
4	List									1 C			
5	Buck Rows									3 C	2 C		
6	Preirrigate									1 C			
7	Soil Fertility									1 C			
8	Disk Ends										1 C	2 C	2 C
9	Apply Fert/Ground									1 C			
10	Plant										1 C		
11	Apply Herbicide/Ground										1 C		
12	Set Sprinklers										1 C		
13	Irrigate/Sec Sys										1 C		
14	Bird Control										1 C		
15	Remove Sprinklers										1 C		
16	Apply Insect/Ground												1 C
17	Irrigate/Run Fertilizer											2 C	2 C
18	Apply Insect/Ground											1 C	
19	Thinning											1 C	
20	Cultivate											1 C	1 C
21	Apply Insecticide/Air												1 C
22	Hand Weeding												2 C
23	Apply Insecticide/Air												
	1 C												
24	Harvest/Field Pack												1 N
25	Disk Residue												1 N

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

Table 19A. Income and Cash Operating Summary; Fall Cantaloupe, 2001

COUNTY: La Paz FARM: Salome Area (LaPaz) WATER SOURCE: McMullen Valley, Elect TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Salome/Wenden YIELD: 237.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 11/1/01

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Crtm	237.00	\$7.02	\$1,663.74	\$1,663.74	_____
CASH LAND PREPARATION AND GROWING EXPENSES (including sales tax)						
Paid Labor (including benefits)					101.61	_____
Tractor/Self Propelled				53.79		_____
Irrigation				40.92		_____
Other/ Contract				6.90		_____
Chemicals and Custom Applications					320.69	_____
Fertilizer				180.13		_____
Insecticide				58.43		_____
Herbicide				56.42		_____
Other Chemicals				25.70		_____
Farm Machinery and Vehicles					57.20	_____
Diesel Fuel				26.92		_____
Repairs and Maintenance				30.27		_____
Irrigation Water (excluding labor)					316.67	_____
Pump Energy - Electric				295.05		_____
Repairs and Maintenance				21.62		_____
Other Purchased Inputs &					268.07	_____
Seed/Transplants				25.07		_____
Other Services and Rentals				243.00		_____
TOTAL CASH LAND PREPARATION AND GROWING EXPENSES					1064.23	_____
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits)					1.75	_____
Tractor/Self Propelled				1.75		_____
Farm Machinery and Vehicles					3.78	_____
Diesel Fuel				1.78		_____
Repairs and Maintenance				2.00		_____
Custom Harvest/Post Harvest					367.35	_____
TOTAL HARVEST AND POST HARVEST EXPENSE					372.88	_____
OPERATING OVERHEAD -> PICKUP USE					13.69	_____
OPERATING INTEREST AT 10.0%					39.39	_____
TOTAL CASH OPERATING EXPENSES					\$1,490.19	_____
RETURNS OVER CASH OPERATING EXPENSES					\$173.55	_____

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

Table 19B. Allocations of Ownership Costs; Fall Cantaloupe, 2001

COUNTY: La Paz FARM: Salome Area (LaPaz) WATER SOURCE: McMullen Valley, Elect TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Salome/Wenden YIELD: 237.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 11/1/01

Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$7.02 / Ct	\$1,663.74		\$1,663.74	
TOTAL OPERATING EXPENSES	\$1,490.19		\$1,490.19	
RETURN OVER CASH OPERATING EXPENSES		\$173.55		\$173.55
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery	5.92		5.92	
Wells and Irrigation System	7.79		7.79	
General and Office Overhead (5.0%of Total Operating Exp.)	74.51		74.51	
General Farm Maintenance (3.0% of Total Operating Exp.)	44.71		44.71	
Total Cash Overhead Expenses	132.92		132.92	
Total Cash Operating and Overhead Cost	1,623.11		1,623.11	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$40.63		\$40.63
CAPITAL ALLOCATIONS (100% Equity)				
Capital Replacement, Machinery and Vehicles			33.81	
Wells and Irrigation System			28.90	
Interest on Equity, Machinery and Vehicles			12.66	
Wells and Irrigation System			15.45	
Total Capital Allocations			90.83	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK ----->		\$40.63		
RETURNS TO LAND, MANAGEMENT AND RISK ----->				(\$50.20)
Land Cost / Rent or Lease	150.00		150.00	
Total Land Costs	150.00		150.00	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		(\$109.37)		
RETURNS TO MANAGEMENT AND RISK ----->				(\$200.20)
Management Services (8% of Total Operation Expenses)			119.22	
TOTAL OWNERSHIP COST	282.92		492.96	
TOTAL COST	\$1,773.11		\$1,983.15	
RETURNS TO CAPITAL, MANAGEMENT AND RISK ----->		(\$109.37)		
RETURNS TO RISK (PROFITS) ----->				(\$319.41)
Item	-- CASH COST BASIS (\$/ACRE) --		-- TOTAL COST BASIS (\$/ACRE) --	
	Income and Costs	Net Returns	Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		\$6.29		\$6.29
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$1.19		\$2.08
BREAK-EVEN PRICE TO COVER TOTAL COST		\$7.48		\$8.37

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Table 19C. Variable Operating Costs; Fall Cantaloupe, 2001

COUNTY: La Paz FARM: Salome Area (LaPaz) WATER SOURCE: McMullen Valley, Elect TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Salome/Wenden YIELD: 237.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 11/1/01

No.	First Month	Operation	---- Hours * ----		---- Operating Costs (\$/ACRE *) Per Operation ----					Tot. Cash Expenses	Class	
			Machine	Labor	Fuel/Rps.	Labor	Cust/Serv.	Materials	Total			Times
1	Jul	Disk	0.150	0.167	3.15	1.47			4.61	2.0	9.22	L
2	Jul	Rip	0.450	0.500	7.84	4.39			12.23	1.0	12.23	L
3	Jul	Laser Level	0.450	1.000	7.38	8.22			15.60	1.0	15.60	L
4	Jul	Soil Fertility					3.00		3.00	1.0	3.00	G
5	Jul	Apply Fert/Ground	0.180	0.200	1.49	1.75		52.47	55.72	1.0	55.72	G
6	Jul	Apply Herbicide/Ground	0.225	0.250	1.19	2.19		56.42	59.80	1.0	59.80	G
7	Jul	Incorporate Herbicide	0.225	0.250	2.78	2.19			4.97	1.0	4.97	G
8	Jul	List	0.225	0.250	2.10	2.19			4.29	1.0	4.29	L
9	Aug	Plant	0.360	0.800	5.18	6.58		25.07	36.83	1.0	36.83	L
10	Aug	Apply Fert/Ground	0.257	0.286	3.02	2.51		112.56	118.09	1.0	118.09	G
11	Aug	Buck Rows	0.023	0.025	0.10	0.22			0.32	8.0	2.58	G
12	Aug	Irrigate		0.667	39.58	5.12			44.70	8.0	357.59	G
13	Aug	Disk Ends	0.023	0.025	0.14	0.22			0.36	7.0	2.51	G
14	Aug	Cultivate	0.225	0.250	1.55	2.19			3.74	9.0	33.67	G
15	Aug	Apply Insect./Ground	0.225	0.250	1.19	2.19		5.19	8.57	1.0	8.57	G
16	Sep	Apply Fert/Ground	0.257	0.286	3.02	2.51		63.83	69.36	1.0	69.36	G
17	Sep	Thinning					75.00		75.00	1.0	75.00	G
18	Sep	Hand Weeding					75.00		75.00	2.0	150.00	G
19	Sep	Pollinate					15.00		15.00	1.0	15.00	G
20	Sep	Apply Insecticide/Air					4.24	25.98	30.22	1.0	30.22	G
21	Oct	Harvest 237 Ct					367.35		367.35	1.0	367.35	H
22	Dec	Residue Disposal 237 Ct	0.180	0.200	3.78	1.75			5.53	1.0	5.53	P
		Pickup Use 50 Mi/Acre	1.667		13.69						13.69	
		Operating Interest at 10.0					39.39				39.39	
TOTAL CASH OPERATING EXPENSES (includes all times over):											1490.19	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)	78.17
Growing (G)	986.06
Harvest (H)	367.35
Post Harvest (P)	5.53
Marketing (M)	0.00
Operating Overhead (O)	53.08
Total (T)	\$1,490.19

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

Prices ->	Yields	- 25%	- 10%	Budgeted	+ 10%	+ 25%	Break-even Price
				\$5.26	\$6.32	\$7.02	
- 25%	177.8	-571.73	-384.56	-259.77	-134.99	52.18	8.48
- 10%	213.3	-440.49	-215.88	-66.15	83.59	308.20	7.33
Budgeted	237.0	-353.00	-103.43	62.94	229.31	478.87	6.75
+ 10%	260.7	-265.50	9.01	192.03	375.04	649.55	6.28
Break-even Yield		332.62	258.80	225.44	199.71	170.50	

Table 19D. Resource and Cash Flow Requirements; Fall Cantaloupe, 2001

COUNTY: La Paz FARM: Salome Area (LaPaz) WATER SOURCE: McMullen Valley, Elect TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Salome/Wenden YIELD: 237.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 11/1/01

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			2.78		29.07	23.87	108.89		3.00	164.83
AUG C	3.0	18.0	4.19		133.22	34.09	117.75	25.07		310.13
SEP C	3.0	18.0	3.19		127.14	25.75	89.81		244.24	486.94
OCT C	2.0	12.0	2.21		84.43	17.91			183.67	286.01
NOV C									183.67	183.67
DEC C			0.20		3.78	1.75				5.53
Pickup Use 50 Mi/Acre					13.69					13.69
Operating Interest at 10.0									39.39	39.39
Total	8.0	48.0	12.57		391.33	103.37	316.45	25.07	653.97	1490.19
%					26.26	6.94	21.24	1.68	43.89	100.00

TOTAL RESOURCE REQUIREMENTS (per Acre)

Total N 149.6
 Total P 206.2
 Total K 31.1
 Total Labor 12.6
 Total Water 48.0

TOTAL ENERGY REQUIREMENTS (per Acre)

Diesel Fuel 31.2 Gal
 Unleaded Gas 5.0 Gal
 Electric / Pumping 3413.3 KWH
 All Direct Energy 16.6 M BTU

EQUIPMENT REQUIREMENTS (per Acre)

Bed Shaper, 4 Rw	0.36 Hr	Cultivator, Sweep, 4 Rw	2.02 Hr	Directed Spray Rig, 8	0.45 Hr
Disk-Lister, 4 Rw	0.22 Hr	Drag Scraper, 10'	0.45 Hr	Fertilizer Broadcaster,	0.18 Hr
Fertilizer Injector, 4 Row	0.51 Hr	Laser, Complete System	0.45 Hr	Lister, 5 Bottom	0.22 Hr
Offset Disk, 18'	0.48 Hr	Pickup Truck, 1/2 Ton	1.67 Hr	Planter, Drill Type, 4 Row	0.36 Hr
Rowbuck, 10'	0.18 Hr	Tandem Disk, 12'	0.16 Hr	Tractor, 50 PTO HP,	0.79 Hr
Tractor, 70 PTO HP,	2.02 Hr	Tractor, 100 PTO HP,	1.50 Hr	Tractor, 200 PTO HP, 4WD	1.38 Hr
V-Ripper, 5 Shnk	0.45 Hr				

MATERIALS REQUIREMENT (per Acre)

11-48-00, Dry	300.00 Lb	15-08-04, Lqd	70.00 Ga	Benomyl	1.00 Lb
Bensulide	10.00 Pt	Bifenthrin	1.00 Oz	Cantaloupe Sd	2.50 Lb
Endosulfan	1.25 Pt	Imidacloprid	10.00 Oz	Water, Pump	48.00 Al

LABOR REQUIREMENT (per Acre)

Irrigators	5.34 Hr	Other	0.90 Hr	Tractor	6.33 Hr
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*NOTE: P = Previous Year C = Current Year N = Next Year

Table 19E. Schedule of Operations; Fall Cantaloupe, 2001

COUNTY: La Paz FARM: Salome Area (LaPaz) WATER SOURCE: McMullen Valley, Elect TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Salome/Wenden YIELD: 237.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 11/1/01

First No. Month Times	Operation	Equipment/ Custom Oper		Job Rate Acre/Hr	Material Use and Cost				Service Cost \$ / Unit	Labor Type
		HP	Self-Prop./ Implement		Name	Appl. Rate	\$ / Unit			
Jul	2.0	Disk	200	Offset Disk, 18'	6.00					Tractor
Jul	1.0	Rip	200	V-Ripper, 5 Shnk	2.00					Tractor
Jul	1.0	Laser Level	200	Drag Scraper, 10'	2.00					Tractor
				Laser, Complete System						Other
Jul	1.0	Soil Fertility	CST	Soil Analysis (Surface)					3.00	Ac
Jul	1.0	Apply Fert/Ground	100	Fertilizer Broadcaster,	5.00	11-48-00, Dry	300.00	Lb	330.00	Tn
Jul	1.0	Apply Herbicide/Ground	50	Directed Spray Rig, 8 Row	4.00	Bensulide	10.00	Pt	42.58	Ga
Jul	1.0	Incorporate Herbicide	100	Disk-Lister, 4 Rw	4.00					Tractor
Jul	1.0	List	100	Lister, 5 Bottom	4.00					Tractor
Aug	1.0	Plant	100	Planter, Drill Type, 4 Row	2.50	Cantaloupe Sd	2.50	Lb	9.46	Lb
				Bed Shaper, 4 Rw						Other
Aug	1.0	Apply Fert/Ground	100	Fertilizer Injector, 4 Row	3.50	15-08-04, Lqd	35.00	Ga	310.00	Tn
				Imidacloprid			10.00	Oz	588.40	Ga
Aug	8.0	Buck Rows	50	Rowbuck, 10'	40.00					Tractor
Aug	8.0	Irrigate		Water, Pump	1.50		6.00	Al	79.17	AF
Aug	7.0	Disk Ends	50	Tandem Disk, 12'	40.00					Tractor
Aug	9.0	Cultivate	70	Cultivator, Sweep, 4 Rw	4.00					Tractor
Aug	1.0	Apply Insect./Ground	50	Directed Spray Rig, 8 Row	4.00	Bifenthrin	1.00	Oz	490.00	Ga
				Endosulfan			0.25	Pt	34.08	Ga
Sep	1.0	Apply Fert/Ground	100	Fertilizer Injector, 4 Row	3.50	15-08-04, Lqd	35.00	Ga	310.00	Tn
Sep	1.0	Thinning	CST	Thinning						75.00
Sep	2.0	Hand Weeding	CST	Hand Weeding						75.00
Sep	1.0	Pollinate	CST	Bee Hive Rental						15.00
Sep	1.0	Apply Insecticide/Air	CST	Air Spray, 3 Gal Mix		Benomyl	1.00	Lb	20.25	Lb
				Endosulfan			1.00	Pt	34.08	Ga
Oct	1.0	Harvest	CST	Harv/pack/haul Melons						1.55
Dec	1.0	Residue Disposal	200	Offset Disk, 18'	5.00					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 19F Operations Calendar; Fall Cantaloupe, 2001

COUNTY: La Paz FARM: Western Arizona Vegetables WATER SOURCE: McMullen/Valley, Elect TILLAGE: Double Crop
 CROP: Cantaloupes ACRES: 1 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam
 AREA: Salome/Wenden YIELD: 237 Ct/Acre PREVIOUS CROP: Wheat, Winter DATE: 03/25/2001

No.	Operation	Month and Times Operation Performed											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Disk							2 C					
2	Rip							1 C					
3	Laser Level							1 C					
4	Soil Fertility							1 C					
5	Apply Fert/Ground							1 C					
6	Apply Herbicide/Ground							1 C					
7	Incorporate Herbicide							1 C					
8	List							1 C					
9	Plant								1 C				
10	Apply Fert/Ground								1 C				
11	Buck Rows								3 C	3 C	2 C		
12	Irrigate								3 C	3 C	2 C		
13	Disk Ends									1 C	3 C	3 C	
14	Cultivate								3 C	3 C	3 C		
15	Apply Insect/Ground									1 C			
16	Apply Fert/Ground									1 C			
17	Thinning									1 C			
18	Hand Weeding									2 C			
19	Pollinate									1 C			
20	Apply Insecticide/Air										1 C		
21	Harvest										.5 C	.5 C	
22	Disk Residue											1 C	

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

Appendix A. Tables of Prices of Selected Inputs for Yuma County and La Paz 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-3
Table A.4	Property Taxes and Tax Assessments	A-3
Table A.5	Costs of Selected Custom Operations	A-3
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-4

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

Area	Energy	Price	Pump		Case	Depth	Overall Pump Efficiency	Well Cost	Ownership Annual Cost * (\$/Yr)	Annual Pump (AF)	Cost of Pumping Irrigation Water			TOTAL COST /AF	
			Lift (Ft)	Rate (GPM)							Fixed /AF	Variable Cost/AF	Total		
La Paz County															
MCMULLEN VALLEY	Diesel	0.80000 /Gal	450	1600	16	1000	0.188	195281	22087	1273	\$17.35	\$46.46	\$6.27	\$52.73	\$70.08
MCMULLEN VALLEY	Electric	0.08644 /Kwh	450	1600	16	1000	0.54	153544	16595	1273	\$13.04	\$73.76	\$5.40	\$79.16	\$92.20
MCMULLEN VALLEY	Nat. Gas	0.42280 /Th	450	1600	16	1000	0.154	243641	27947	1273	\$21.95	\$41.96	\$6.27	\$48.23	\$70.18
BOUSE AREA															
BOUSE AREA	Diesel	0.80000 /Gal	380	2200	16	700	0.188	148429	14474	1750	\$8.27	\$39.23	\$5.29	\$44.52	\$52.79
BOUSE AREA	Electric	0.08661 /Kwh	380	2200	16	700	0.54	111923	9618	1750	\$5.50	\$62.41	\$4.56	\$66.97	\$72.47
BOUSE AREA	Nat. Gas	0.42239 /Th	380	2200	16	700	0.154	193219	19851	1750	\$11.34	\$35.40	\$5.29	\$40.69	\$52.04
Yuma County															
SOUTH YUMA MESA	Electric	0.09486 /Kwh	110	1500	16	400	0.54	58269	6121	1485	\$4.12	\$19.79	\$1.32	\$21.11	\$25.23

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

Name	Assessment	Water Costs **** Dollars per Acre Foot (AF) ****									
La Paz											
Colorado River Tribes Irr. Projec CRTIP	\$38.50	5 free	more @	\$17.00 /AF							
Palo Verde Valley	\$39.00										
Yuma											
Welton-Mohawk Irrigation Distric WMIDD	\$60.60	4 free	6 @	\$15.65 /AF	2 @	\$18.25 /AF	more @	\$19.35 /AF			
Yuma Irrigation District, North	\$26.00	5 free	more @	\$5.25 /AF							
Yuma Irrigation District, South	\$30.00	5 free	more @	\$11.00 /AF							
Yuma County Water User's Assr YCWUA	\$62.00	5 free	more @	\$12.40 /AF							
Yuma Irrigation District, B	\$113.68	10 free	2 @	\$11.00 /AF	2 @	\$12.00 /AF	2 @	\$14.00 /AF	more @	\$16.00 /AF	
Yuma Mesa Irrig & Drainage Dis YMIDD	\$50.00	9 free	2 @	\$6.00 /AF	2 @	\$9.35 /AF	2 @	\$14.10 /AF	more @	\$25.00 /AF	

Table A.3 Wage and Piece Rates

2000 Labor Group	2000 Wage Rate
Hand Weeder's	\$6.77 / Hr
Harvest	\$6.77 / Hr
Irrigators	\$6.62 / Hr
Tractor	\$6.77 / Hr
Other	\$6.77 / Hr
Truck Driver	\$11.54 / Hr
Produce Loader	\$6.77 / Hr
Contract Labor	\$6.77 / Hr
Contract Labor, Harvest	\$6.77 / Hr
Picker	\$6.62 / Hr
Cutter	\$1.37 / Box
Clipper	\$6.62 / Hr
Loader	\$6.62 / Hr
Windrower, Melons	\$6.62 / Hr
Cutter & Packer	\$0.99 / Box
Cutter/Wrapper/Packer	\$1.37 / Box
Cutter/Watermelons	\$6.62 / Hr
Loader/Watermelons	\$6.62 / Hr
Wrapper/Packer	\$1.37 / Box
Box Closer/Stitcher	\$0.54 / Box
Box Loader (Film Pack)	\$0.75 / Box
Box Loader (Naked Packed)	\$1.37 / Box

Table A.5 Custom Service Costs, Colorado River

Operation	Custom Service	2000 Rate
Apply Insecticide/Air	Air Spray, 5 Gal Mix	\$4.73 / Acre
Apply Insecticide/Air	Air Spray, 7 Gal Mix	\$5.23 / Acre
Thinning	Thinning	\$75.00 / Acre
Hand Weeding	Hand Weeding	\$75.00 / Acre
Harvest	Harvest Cauliflower	\$2.65 / Carton
Harvest	Harv/Load/Haul Broccoli	\$2.75 / Carton
Cut and Load	Cut & Load Melons	\$1.65 / Carton
Harvest, Load & Haul	Harvest-Load-Haul Lettuce	\$3.25 / Carton
Field Scouting	Scout For Insects	\$15.00 / Acre
Pollenate	Bee Hive Rental	\$35.00 / Acre
Harvest, Load & Haul	Harvest-Load-Haul Leaf Lettuce	\$3.00 / Carton
Haul, Custom	Haul Melons	\$0.20 / Carton
Haul, Custom	Haul Watermelons	\$10.00 / Ton
Bird Control	Bird Control	\$3.50 / Acre
Soil Fertility	Soil Analysis (Surface)	\$12.00 / Acre

Table A. 4 Property Taxes & Assessments

State Code	Budget System Area Description	State Area Description	2000 Primary	2000 Secondary	2000 Total
Yuma County (14) Property Taxes, Vegetable Crops					
130	Yuma	Yuma	\$9,3805	\$3,5525	\$12,9330
1140	Sumerton	Sumerton	\$9,1520	\$4,2043	\$13,3563
1330	Crane	Crane	\$8,9846	\$3,4373	\$12,4219
3230	Gadsen	Gadsen	\$9,1664	\$4,4474	\$13,6138
	Yuma Area Average		\$9,1709	\$3,9104	\$13,0813
1730	Roll/Mohawk	Roll/Mohawk	\$9,1098	\$3,2350	\$12,3448
2430	Welton	Welton	\$9,7636	\$2,7401	\$12,5037
1600	Hyder	Hyder	\$9,0206	\$4,0433	\$13,0639
	Crops Average		\$9,2662	\$3,4822	\$12,7484
Special District Tax Assessment					
701	Yuma Mesa ID		\$50,0000		
702	Yuma IDD		\$30,0000		
703	North Gila Valley ID		\$26,0000		
704	Welton-Mohawk IDD		\$1,0000		
706	Unit B Irrigation O&M		\$105,0000		
707	Unit B Irrigation-Contract		\$8,6800		
708	Unit B Irrigation-Non Coop.		\$1,0000		
LaPaz County (15) Property Taxes					
2600	Bouse	Bouse	\$10,8538	\$0,8657	\$11,7195
1900		Wenden	\$10,5895	\$0,8657	\$11,4552
3000		Salome	\$11,9877	\$3,8544	\$15,8421
		Salome/Wenden	\$11,2886	\$2,3601	\$13,6487
2700	Parker	Parker	\$4,5804	\$1,8491	\$6,4295
	Crops Average		\$8,9076	\$1,6916	\$10,5992
Special District Tax Assessment					
705	Cibola Valley ID		\$1,5000		
712	Agulia ID		\$4,4300		

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	DEVRIKOL	\$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	CYTHON, ULV, 5 GAL	\$29.42 / Ga	\$32.00
Fenprothrin	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					Total	
				Deprec	Opp. Int.	THI	Repairs	Fuel		
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					Total
				Deprec	Opp. Int.	THI	Repairs	Fuel	
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/Windower 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					Total
				Deprec	Opp. Int.	THI	Repairs	Fuel	
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