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2001–2002 Arizona Vegetable Crop Budgets

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.

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2001–2002 Arizona Vegetable Crop Budgets

INTRODUCTION

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

The remainder of this publication is divided as follows:

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

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

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

DESCRIPTIONS OF BUDGET TABLES

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

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

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

These tables are ordered to provide

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

Each table is briefly described in the following paragraphs.

Yield and Price Assumptions

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

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

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

Table Headings

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

Income and Cash Operating Cost Summary (Table A)

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

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

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

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

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

In addition, itemized harvest costs are

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

Crop Assessments, and **Other Materials**.

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

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

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

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

Allocation of Ownership Costs (Table B)

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

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

Important Assumptions for Operating Costs

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

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

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

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

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

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

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

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

Definition—Cash Basis

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

Definition—Total Cost Basis

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

Definition—Opportunity Costs

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

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

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

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

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

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

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

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

Variable Operating Costs (Table C)

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

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

The total cost for each of these categories is pre-

Water Costs

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

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

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

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

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

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

Resource and Cash Flow Requirements (Table D)

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

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

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

Schedule of Operations (Table E)

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

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

Operations Calendar (Table F)

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

THE BUDGET TABLES

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

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

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

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

Table 1. Five Year Average Yields and Prices, Colorado River Vegetables

La Paz Fall Cantaloup arvested Yield/Acre Acres (Cartons)	187 240 285	237	La Paz Fall Cantaloup Price per 40 pound carton \$8.32 \$7.68 \$5.56 \$5.52	\$7.84 \$6.98	II Cantaloup Yield/Acre (Cartons)	338 325	445 603 538	450	Yuma Fall Cantaloup Price per 40 pound carton \$8.32 \$7.68 \$5.56 \$5.56	\$6.98
<u>La Paz Fa</u> Harvested Acres	3,100 2,500 2,500	1,620	La Paz Fa Price per pounc \$8 \$7 \$5	\$7 \$6	Yuma Fall Harvested Acres	2,000	1,900 1,800 000 1	1,780	Yuma Fal Price per pounc \$8 \$7 \$5 \$5	9\$
rocessing)/1 Yield/Acre Tons	8 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	18	rocessing)/1 1 n 00	00 00	g Cantaloup Yield/Acre (Cartons)	750 600	625 628 520	625	q Cantaloup 40 32 32 58 56 55	98
Dry Onion (Processing)/1 Harvested Yield/Acre Acres Tons	1,700 1,900 1,850	1,875	Dry Onion (Processing)/1 Price per Ton Ton \$80.00	\$90.00	La Paz Spring Cantaloup Harvested Yield/Acre Acres (Cartons)	1,500 2,600	3,200 1,000 1,200	1,900	La Paz Spring Cantaloup Price per 40 pound carton \$8.32 \$7.68 \$5.56 \$5.56 \$7.84	\$6.98
Broccoli d Yield/Acre (Cartons)	362 519 535 808	608	Broccoli e per 26 pound carton \$6.68 \$9.28 \$9.31	.94 .71	Yuma Spring Cantaloup larvested Yield/Acre Acres (Cartons)	850 993	838 750 625	811	Yuma Spring Cantaloup Price per 40 pound carton \$8.32 \$7.68 \$5.56 \$5.56	\$6.98
Bro Harvested Acres	7,100 6,700 8,100 8,000 7,300	7,440	Brocco Price per pound car \$6.68 \$9.28 \$9.31	\$6.94 \$7.71	Yuma Sprin Harvested Acres	1,500 3,400	3,100 4,200 2,800	3,000	Yuma Sprin Price per pound \$8. \$7. \$5. \$5.	\$6.
Cauliflower ted Yield/Acre s (Cartons)	770 783 922 1,343	955	Cauliflower Ee per 23 pound carton \$7.59 \$7.64 \$10.53	\$8.03 \$8.47	a Paz Watermelons Irvested Yield/Acre Acres (Cartons)	8.60 12.50	12.75 20.00 16.75	14.12	a Paz Watermelons Price per 2000 pound container \$144.00 \$156.00 \$112.00 \$136.00	\$141.60
Cauli Harvested Acres	4,200 3,700 3,200 3,600 3,900	3,720	Cauli Price per pound \$7 \$7 \$10 \$10	\$ \$ \$	La Paz Wi Harvested Acres	250 400	800 900 1,300	730	La Paz W Price per pound c \$14, \$15, \$16, \$113,	\$14
Yield/Acre (Cartons)	605 808 780 763 605	712	ettuce 40 rton		melons Yield/Acre (Cartons)	22.00 22.95	21.90 21.40 22.00	22.05	melons 2000 0 0 0 0 0 0 0 0	0 beek sebulan
Romaine Lettuce Harvested Yiel Acres (Ca	7,300 8,100 9,700 10,100 7,300	8,500	Romaine Lettuce Price per pound carton \$7.80 \$7.80 \$8.84 \$6.04	\$7.68 \$7.63	Yuma Watermelons Harvested Yield Acres (Car	950 950	1,200 1,200 1,000	1,060	Yuma Watermelons Price per 20 pound container \$144.00 \$156.00 \$112.00 \$1136.00	\$141.60 \$141.60
tuce Yield/Acre (Cartons)	1,376 1,116 1,100 1,100	1,162	1 <u>uce</u> 25 arton 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	8 (Honeydews Yield/Acre (Cartons)	475 513	565 465 550	514	Honevdews 40 arton 50	3
Leaf Lettuce Harvested Yi Acres ((and Yields 4,150 5,550 7,000 5,400 3,800	5,180	per Carton) Leaf Lettuce Price per pound carton \$9.00 \$7.93 \$5.25	\$7.68 \$7.30	La Paz Spring Honeydews Harvested Yield/Acr Acres (Cartons	and	000 200 000	200	per Carton) La Paz Spring Honevdews Price per 40 pound carton \$3.32 \$3.40 \$5.48 \$5.48 \$5.30	Average \$6.63 \$3.33
Western Head Lettuce Invested Yield/Acre Acres (Cartons)	Colorado River Vegetable Acreage and Yields 1996 57,000 713 4,150 1997 51,800 813 5,550 1998 51,000 875 7,000 1999 44,000 838 5,400 2000 50,300 875 3,800	823	Arizona Vegetable Prices (Dollars per Carton Western Head Lettuce Lea Price per 40 Price 1996 \$5.24 \$197 \$4.64 \$1998 \$6.32 \$1999 \$4.88 \$5.34 \$1999 \$4.88 \$5.32 \$1999 \$4.88 \$5.32	24 26	Honeydews Yield/Acre (Cartons)	Colorado River Vegetable Acreage 1996 200 400 1997 300 443	488 460 575	473	Arizona Vegetable Prices (Dollars per Carton Yuma Spring Honevdews Yuma Spring Honevdews Price per 1996 \$6.76 \$7.00 \$5.40 \$6.40 \$5.36 \$5.36 \$5.36	63 Jere obtained fro
Western He Harvested Acres	River Vegets 57,000 51,800 51,000 44,000 50,300	50,820	egetable Prices (Doll Western Head Lettuce Price per 40 pound carton \$5.24 \$4.64 \$6.32 \$6.32	\$5.24 \$5.26	Yuma Spring Honeydews Harvested Yield/Acre Acres (Cartons)	River Veget a 200 300	700 700 700	200	egetable Prices (Yuma Spring Honer Price per Pound carton \$6.76 \$7.00 \$6.40 \$6.64	\$6.63
	Colorado 1996 1997 1998 1999 2000	Average	Arizona V 1996 1997 1998 1999	2000 Average		Colorado 1996 1997	1998 1999 2000	Average	Arizona V 1996 1997 1998 1999	Average 1/ Price Vie

 Table 2. Representative Farm Description for Budget Estimation

	Vegeta	ables	
	Yuma	La Paz	
	County	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%	. 0
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

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

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Cauliflower	Crtn	955.00	\$8.47	\$8,088.85	\$8,088.85	
CASH LAND PREPARATION AND GRO Paid Labor (including benefits) Tractor/Self Propelled Irrigation Other/ Contract	WING EXPENSES (incl	uding sales tax)		47.14 34.81 30.31	112.25	
Chemicals and Custom Applications Fertilizer Insecticide Herbicide Other Chemicals				155.06 414.68 3.89 11.29	584.92	
Farm Machinery and Vehicles Diesel Fuel Gasoline Repairs and Maintenance Irrigation Water (excluding labor) Water Assessment (See Note Below)	**			20.02 13.59 39.44	73.05 0.00	
Other Purchased Inputs & Seed/Transplants Other Services and Rentals				196.11 176.00	372.11	
TO CASH HARVEST AND POST HARVEST		PARATION AND GROWII	NG EXPENSES		1142.33	
Paid Labor (including benefits) Tractor/Self Propelled				1.46	1.46	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				1.25 1.60	2.85	
Custom Harvest/Post Harvest TO OPERATING OVERHEAD -> PICKUP US OPERATING INTEREST AT 10.0%		OST HARVEST EXPENS	E		4327.25 4331.56 13.17 22.86	
TOTAL CASH OPERATING EXPENSES RETURNS OVER CASH OPERATI					\$5,509.92 \$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 BASI	S (\$/ACRE) Net Returns	TOTAL COST BAS	SIS (\$/ACRE) Net Returns
TOTAL INCOME at \$8.47 / Ct TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$8,088.85 \$5,509.92	\$2,578.93	\$8,088.85 \$5,509.92	\$2,578.93
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead (5.0% of Total Operating Exp.) General Farm Maintenance (3.0% of Total Operating Exp.)	7.74 275.50 165.30		7.74 275.50 165.30	
Total Cash Overhead Expenses	448.54		448.54	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles	5,958.45	\$2,130.40	5,958.45 36.72	\$2,130.40
Interest on Equity, Machinery and Vehicles			10.46	
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK			47.18	\$2,083.22
Land Cost / Rent or Lease Water Assessment **	550.00 31.00		550.00 31.00	
Total Land Costs RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK	581.00	\$1,549.40	581.00	\$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	\$1.549.40	\$7,027.43	
RETURNS TO CAPITAL, MANAGEMENT AND RISK	>		>	\$1,061.42
Item	CASH COST BASI	S (\$/ACRE) Net Returns	TOTAL COST BAS Income and Costs	SIS (\$/ACRE) Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$5.77 \$1.08 \$6.85		\$5.77 \$1.59 \$7.36

Table 3C. Variable Operating Costs; Cauliflower, 2001

FARM: Yuma Vegetables COUNTY: Yuma WATER SOURCE: Yuma County Water TILLAGE: Double Crop ACRES: CROP: Cauliflower 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

	First		Hours	3 *	Operation	ng Costs	(\$/ACRE *)	Per Opera	ition		Tot. Cash		
No.	Month	Operation	Machine	Labor	Fuel/Rps.	Labor C	ust/Serv.	Materials	Total	Times	Expense	Class	
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		i			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		į			10.00		20.00	2.0	20.00	G	
18	Sep	Apply Insecticide/Air		į			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	Н	
35	Jan	Residue Disposal 911 Ct	0.150	0.167	2.85	1.46			4.31	1.0	4.31	Р	
		Pickup Use 50 Mi/Acre	1.667	!	13.17	-			-	-	13.17		
		Operating Interest at 10.0		!			22.86				22.86		
		TOTAL CASH OPERATING	EXPENSE	S (include:							5509.92	Т	

*NOTES: Machine and labor hours and operating cost are for one time over the designated acreage. The "Tot. Cash Expense" column and the "TOTAL CASH OPERATING EXPENSES" row include all operations, all times over. Classes are defined below.

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	SENSITIVIT	Y OF THE N	IET REVE	NUES OVER	R TOTAL CAS	SH EXPENS	ES (\$/ACR	E)
Land Preparation (L)	319.85	Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Growing (G)	822.48	Yields		\$6.35	\$7.62	\$8.47	\$9.32	\$10.59	Break-even Price
Harvest (H)	4,327.25								
Post Harvest (P)	4.31	- 25%	716.3	-50.65	859.35	1,466.01	2,072.68	2,982.67	6.42
Marketing (M)	0.00	- 10%	859.5	209.62	1,301.61	2,029.61	2,757.60	3,849.60	6.11
Operating Overhead (O)	36.03	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
Total (T)	\$5,509.92	+ 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

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

		Water				Or	eratin	g Costs (\$/A	CRE *)			
	Number	Applied	Total	Purchased	Fuel, Oil	٠,		9 20010 (W/	Other			
Month *	Irrigations	(inches)	Labor (Hrs)	Water	and Repair	s La	bor	Chemicals	Purchases	Services	Total	
JUL C	1.0	12.0	1.93		13.9		6.24				30.18	
AUG C	1.0	6.0	3.57		20.8		1.25	139.80	196.11	13.00	401.02	
SEP C	1.0	3.0	2.70		14.7		4.83	154.97		24.25	218.76	
OCT C	2.0	6.0	1.45		10.8		4.49	83.47		157.75	266.59	
NOV C	3.0	8.0	1.40		6.1		3.39	133.01			152.55	
DEC C	1.0	2.0	1.22		6.5		2.06	54.66		4327.25	4400.48	
JAN N			0.17		2.8		1.46				4.31	
Pickup Use					13.1	7					13.17	
	nterest at 10.0)								22.86	22.86	
Water Asses	ssment			**								
Total	9.0	37.0	12.43		89.06	3 1°	3.72	565.92	196.11	4545.11	5509.92	
%					1.62		2.06	10.27	3.56	82.49	100.00	
Total N Total P Total Labo Total Wate	er T REQUIREM	245.2 208.0 12.4 37.0		TOTAL ENE Diesel Fu Regular Unleader All Direct	Gas d Gas t Energy	24.0 0.3 14.8 5.2	per Aci Gal Gal Gal M B		ok 6' Diok	0.77 Hr		
	r, Sweep, 4 Rv		30 Hr	Fertilizer Injector, 4		0.45 Hr			Spreader, 28'	0.77 Hr		
	pike, 4 Rw		50 Hr 67 Hr	High Clearance Sp		0.43 Hr			mplete System	0.45 Hr		
Lister, 5 E			07 ⊓i 15 Hr	Offset Disk. 18'	паует,	0.60 Hr			uck, 1/2 Ton	0.45 Hr 1.67 Hr		
	Stanhay, 4 Ro		30 Hr	Power Mulcher, 4 I	Rw	0.00 Hr			ıltivator, 4 Rw	0.36 Hr		
	k Sprayer, 2 T		15 Hr	Sprinkler Trailer	XVV	0.13 Hr			0 PTO HP	0.30 Hr		
	60 PTO HP		58 Hr	Tractor, 100 PTO I	-IP	0.74 Hr			50 PTO HP.	0.45 Hr		
	175 PTO HP,		15 Hr	Tractor, 235 Eng H		0.67 Hr			on w/1000 Gal	1.39 Hr		
V-Ripper,			22 Hr	ridotor, 200 Eng r	, ,	0.07 111		rradit, o r	011 W 1000 Cal	1.00 1		
MATERIALS	REQUIREM	ENT (per Acr	re)									
11-52-00,			0Ó Lb	20-0-0-45, Nitro-St	ıl	25.00 Ga		33-00-00,	Amm. Nitrate,	44.00 Ga	l	
Cauliflow	er Seed	3.0	00 Lb	Chlorothalonil		2.00 Pt		Chlorpyrifo	os	0.80 Lb		
Cypermet	thrin	15.0	00 Oz	Imidacloprid		16.00 Oz		Methomyl		14.01 Pt		
Permethr			50 Pt	Permethrin		8.00 Oz		Spinosad		6.00 Oz	, =	
Trifluralin	l	1.0	00 Pt	Water, District		37.00 AI						
LABOR REC	OUIREMENT	(per Acre)										
	~ · · · · · · · · · · · · · · · · · · ·		54 Hr	Other		0.80 Hr		Tractor		5 54 Hr		
Truck Dri	ver									0.0.111		
Permethr Trifluralin LABOR REC Irrigators	in QUIREMENT	10.9 1.9 (per Acre) 4.9	50 Pt	Permethrin		8.00 Oz		,			:	

^{*}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

First			Equipment/ Custom Oper	Job Rate	Material U	Jse and C	ost		Service Co	ost Labor
No. Month	Times	Operation	HP Self-Prop./ Implement	Acres/Hr	Name	Appl.	Rate	\$ / Unit	\$ / Unit	Туре
Jul		Disk	150 Offset Disk, 18'	6.00						Tractor
Jul		Rip	175 V-Ripper, 7 Shnk	4.00						Tractor
Jul	1.0	Laser Level	175 Blade Scraper, 10'	2.00						Tractor
			Laser, Complete System							
Jul		Make Borders	60 Border Disk, 6' Disk	40.00						Tractor
Jul		Preirrigate			Water, District	12.00	ΑI	0.00 A	NF.	Irrigators
Jul		Knock Borders	60 Border Disk, 6' Disk	40.00						Tractor
Jul		Dust Control	Truck, 5 Ton w/1000 Gal Tank	100.00						Truck
Jul			60 Saddle Tk Sprayer, 2 Tk 8	60.00	Trifluralin	1.00	Pt	29.35 C		Tractor
Aug	2.0	Soil Fertility	CST Soil Analysis (Surface)						3.00	Ac
Aug		Apply Fert/Ground	60 Fertilizer Spreader, 28'	60.00	11-52-00, Dry	400.00	Lb :	273.33	「n	Tractor
Aug		List	100 Lister, 5 Bottom	6.00						Tractor
Aug		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	3a	Tractor
Aug	1.0	Plant	100 Planter, Stanhay, 4 Row	3 00	Cauliflower Seed	3.00	Ιh	61.67 L	h	Tractor
Aug		Set Sprinklers	40 Sprinkler Trailer	5.70	Gadiiiowei Geed	5.00	LU	01.07	-10	Tractor
Aug	1.0	Oct Optimicis	40 Optimici Tranci	3.70						Irrigators
Aug	1.0	Irrigate/Sec Sys		0.83	Water, District	6.00	ΔΙ	0.00 A	Æ	Irrigators
Aug		Field Scouting	CST Scout For Insects	0.00	Water, District	0.00	Α.	0.00 /	10.00	•
Sep		Apply Insecticide/Air	CST Air Spray, 5 Gal Mix		Chlorpyrifos	0.80	Ιh	1.65 L		
ОСР	1.0	Apply maceticide/Aii	OOT All Oplay, 5 Cal Mix		Permethrin			120.50		AC
Sep	1.0	Remove Sprinklers	40 Sprinkler Trailer	5.70	Ciliculiii	0.00	02	120.00	Ja	Tractor
ОСР	1.0	remove opinicers	40 opinika Tranci	0.70						Irrigators
Sep	8.0	Make Basins	60 Border Disk, 6' Disk	20.00						Tractor
Sep		Irrigate/Run Fertilizer	CO BOIGET BION, O' BION		Water, District	3.00	ΔΙ	0.00 A	Æ	Irrigators
ОСР	5.0	irrigate/rtair r crtilizer			20-0-0-45. Nitro-Sul			240.00		ingators
Sep	8.0	Knock Basins	60 Border Disk, 6' Disk	20.00	20 0 0 40, Millo Cul	0.00	Ou .	2-10.00		Tractor
Sep		Cultivate	60 Cultivator, Sweep, 4 Rw	3.00						Tractor
Sep		Spike Furrows	60 Furrow Spike, 4 Rw	4.00						Tractor
Sep		Apply Insecticide/Air	CST Air Spray, 5 Gal Mix		Cypermethrin	5.00	07	291.66	a 4.75	
ОСР	5.0	Apply maceticide/Aii	OOT All Oplay, 5 Cal Mix		Methomyl	4.00		48.94		AC
Sep	2 0	Cultivate	60 Rolling Cultivator, 4 Rw	5.00		7.00		10.07 C		Tractor
Sep		Apply Insect./Ground	High Clearance Sprayer, 18		Spinosad	6 00	07	609.67	la .	Tractor
Sep		Apply Fert/Ground	60 Fertilizer Injector, 4 Row		33-00-00, Amm. Nitrate.			270.00 T		Tractor
Oct		Hand Weeding	CST Hand Weeding	7.00	oo oo-oo, Amin. Miliale,	, 22.00	Ju .	£10.00	75.00	
Nov			High Clearance Sprayer, 18	60.00	Chlorothalonil	2.00	Ρŧ	42.60		Tractor
Nov		Apply Insect./Ground	High Clearance Sprayer, 18		Methomyl	0.67		48.94		Tractor
1400	5.0	Apply Illocot./Oroulld	riigii Cicaianice Opiayei, 10		Permethrin			108.50		1140101
Nov	2.0	Shovel Ends		2.50		3.30	•		- -	Other
Nov		Irrigate			Water, District	2.00	ΑI	0.00 A	Æ	Irrigators
Dec		Harvest	CST Harv/pack/haul	0.00	rrator, Diotriot	2.00	, (1	0.00 /	4.75	
Jan		Residue Disposal	175 Offset Disk. 18'	6.00					4.75	Tractor
Jail		Pickup use 50 Mi/Ac	Pickup Truck, 1/2 Ton	0.60						Tacioi
		i lokup use so ivii/Ac	TIONUP TRUCK, 1/2 TOTT	0.00						

^{*}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

AREA:	Yuma Valley North	ma Valley North YIELD: 911 Ct/Acre PREVIOUS CROP: Wheat, W							DATE:	2001					
								and Times							
No.	Operation			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 1 C	4.0			
17 18	Field Scouting Apply Insecticide/Air										10	1 C	1 C		
19	Remove Sprinklers											1 C	10		
20	Make Basins											1 C	2 C	2 C	3 C
21	Irrigate/Run Fertilizer											1 C	2 C	2 C	3 0
22	Knock Basins											1 C	2 C	2 C	3 C
23	Cultivate											1 C	20	20	3.0
24	Spike Furrows											2 C	1 C		
25	Apply Insecticide/Air											20	2 C	1 C	
26	Cultivate											1 C	1 C	10	
27	Apply Insect/Ground											10	1 C		
28	Apply Insect/Ground												1 C	1 C	
29	Hand Weeding												2 C	. 0	
30	Apply Fungicide/Ground													1 C	
31	Apply Insect./Ground													. 0	2 C
٠.	1 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

FARM: Yuma Vegetables TILLAGE: Double Crop COUNTY: Yuma WATER SOURCE: Yuma County Water ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow Sandy-Loam CROP: Lettuce, Romaine SOIL: 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
			Unit	IACIE	IACIE	Budget
INCOME -> Lettuce	Crtn	712.00	\$7.63	\$5,432.56	\$5,432.56	
CASH LAND PREPARATION AND GRO	WING EXPENSES (inc	cluding sales tax)				
Paid Labor (including benefits)	(****	J ,			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 &					711.00	
Seed/Transplants				636.00		
Other Services and Rentals				75.00		
		PARATION AND GROWI	NG EXPENSES		1374.43	
CASH HARVEST AND POST HARVEST	EXPENSES					
Custom Harvest/Post Harvest					3150.00	
ТО	TAL HARVEST AND P	OST HARVEST EXPENS	E		3150.00	
OPERATING OVERHEAD -> PICKUP U	SE				13.17	
OPERATING INTEREST AT 10.0%					13.98	
TOTAL CASH OPERATING EXPENSES					\$4,551.57	
RETURNS OVER CASH OPERAT	ING 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

	CASH COST BASI	S (\$/ACRE)	TOTAL COST BASIS (\$/ACRE)	
ltem	Income and Costs	Net Returns	Income and Costs Net Returns	
TOTAL INCOME at \$7.63 / Ct TOTAL OPERATING EXPENSES	\$5,432.56 \$4,551.57		\$5,432.56 \$4,551.57	
RETURN OVER CASH OPERATING EXPENSES		\$880.99	\$880.99	
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead (5.0% of Total Operating Exp.) General Farm Maintenance (3.0% of Total Operating Exp.)	9.99 227.58 136.55		9.99 227.58 136.55	
Total Cash Overhead Expenses	374.11		374.11	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity)	4,925.69	\$506.87	4,925.69 \$506.87	
Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles			57.25 25.44	
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK	>	\$506.87	82.69 > \$424.18	
Land Cost / Rent or Lease Land Cost / Ownership (100% Equity)	550.00		550.00	
Water Assessment **	31.00		31.00	
Total Land Costs RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK	581.00 >	(\$74.13)	581.00 > (\$156.82)	
Management Services (8% of Total Operation Expenses)			364.13	
TOTAL OWNERSHIP COST	955.11		1,401.93	
TOTAL COST	\$5,506.69	(4-1.40)	\$5,953.51	
RETURNS TO CAPITAL, MANAGEMENT AND RISK	>	(\$74.13) 		
Item	CASH COST BASI Income and Costs	S (\$/ACRE) Net Returns	TOTAL COST BASIS (\$/ACRE) Income and Costs Net Returns	
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$6.39 \$1.34 \$7.73	\$6.39 \$1.97 \$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

	First		Hour	s *	Operati	ng Costs	(\$/ACRE *)	Per Oper	ation		Tot. Cash		
No.	Month	Operation	Machine	Labor	Fuel/Rps.		ust/Serv.		Total	Times	Expenses	Class	
1	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	Н	
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	EXPENSE	S (include	s all times over)	:					4551.57	Т	

*NOTES: Machine and labor hours and operating cost are for one time over the designated acreage. The "Tot. Cash Expense" column and the "TOTAL CASH OPERATING EXPENSES" row include all operations, all times over. Classes are defined below.

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

OPERATING COST SUMMAR	Y BY CLASS	SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE)									
Land Preparation (L)	818.64	Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%			
Growing (G)	555.78	Yields		\$5.72	\$6.87	\$7.63	\$8.39	\$9.54	Break-even Price		
Harvest (H)	3,150.00								·		
Post Harvest (P)	0.00	- 25%	534.0	-694.28	-83.12	324.32	731.77	1,342.93	7.02		
Marketing (M)	0.00	- 10%	640.8	-555.62	177.78	666.71	1,155.64	1,889.03	6.59		
Operating Overhead (O)	27.15	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		
Total (T)	\$4,551.57										
		Break-even	⁄ield	1.068.74	568.03	432.83	349.62	271.37			

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

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

		Water					One	ratina	Costs (\$/A	CDE *\			
	Number	Applied	Total	Purchased	Fuel,		Ope	rating	COSIS (#/A	Other			
Month *	Irrigations	(inches)	Labor (Hrs)	Water	and Re		Labo	or C	hemicals	Purchases	Services	Total	
AUG C			2.33			37.25	20.4	47				57.72	
SEP C	9.0	23.5	9.51		,	33.54	77.2	29	234.54	636.00	84.13	1065.50	
OCT C	4.0	16.0	6.93			14.35	54.9	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 In	iterest at 10.0)									13.98	13.98	
Water Asses	ssment			**									
Total	16.0	51.5	23.45		10	9.70	189.	.22	368.54	636.00	3248.11	4551.57	
%						2.41	4.	.16	8.10	13.97	71.36	100.00	
TOTAL RES	OURCE REC) IIREMENT	S (ner Acre)	TOTAL ENE	RGY REO	ILIREMEN	ITS (ne	r Acre)	\				
Total N	OOROL REG	209.8	o (per 7 tore)	Diesel F			٠.	Gal	•				
Total P		209.0		Unleade				Gal					
Total Labo	nr.	23.4			t Energy			M BTL	ı				
Total Wate		51.5		7 III BII CC	it Energy		7.0	W D I C	,				
FOUIPMEN	T REQUIREM	/IENTS (per A	Acre)										
Bed Shap		(1	18 Hr	Border Disk, 6' Dis	sk	0.36	Hr		Cultivator.	Sweep, 4 Rw	1.80 Hr		
Drag Scra	,	0.	45 Hr	Fert. Side Dress U	Jnit.	1.35	Hr			mplete System	0.45 Hr		
Lister, 5 E			30 Hr	Manual Spray Rig	, 150 g	0.18			Motor Gra		0.02 Hr		
Offset Dis	sk, 18'	1.	80 Hr	Pickup Truck, 1/2		1.67			Planter, St	tanhay, 4 Row	0.36 Hr		
Saddle TI	k Sprayer, 2 T	Γk 8 0.	72 Hr	Sprinkler Trailer		0.32	Hr		Tractor, 6	0 PTO HP	3.65 Hr		
Tractor,	80 PTO HP	0.	36 Hr	Tractor, 100 PTO	HP	0.48	Hr		Tractor, 17	75 PTO HP,	1.80 Hr		
Tractor, 2	235 Eng HP, <i>A</i>	Art. 1.	35 Hr	V-Ripper, 7 Shnk		0.90	Hr						
MATERIALS	REQUIREM	IENT (per Ac	re)										
18-46-00,			00 Lb	46-00-00, Urea 46	6	280.00			Bensulide		10.00 Pt		
Imidaclop			00 Oz	Methomyl		4.00			Permethrir		2.00 Pt		
Romaine	Lettuce Seed	l 800.	00 Th	Spinosad		16.00	Oz		Water, Dis	strict	51.50 AI		
	QUIREMENT	. ,											
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

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

First			Equipment/ Custom Oper	Job Rate	Material U	Jse and C	ost		. (Service Cost	Labor
No. Month	Times	Operation	HP Self-Prop./ Implement	Acre/Hr	Name			te \$/Ur		\$ / Unit	Туре
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' Laser, Complete System	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	ΑI	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 Saddle Tk Sprayer, 2 Tk 8 Row	5.00	Imidacloprid	16.00	Oz	588.40	Ga		Tractor
Sep	1.0	Apply Insect./Ground	CST Grnd Spray Insecticide		Methomyl	2.00	Pt	48.94	Ga	9.13 Ac	:
•		,	, ,	I	Permethrin	2.00	Pt	108.50	Ga		
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 Irrigators
Sep	1.0	Apply Herbicide/Ground	60 Saddle Tk Sprayer, 2 Tk 8	5.00	Bensulide	10.00	Pt	42.58	Ga		Tractor
Sep		Irrigate/Sec Sys	oo caaalo in opiayor, 2 in o		Water, District	1.10		0.00			Irrigators
Sep		Remove Sprinklers	60 Sprinkler Trailer	5.70				0.00			Tractor
•		·	·								Irrigators
Sep	1.0	Make Ditches	Motor Grader, 12'	40.00							Tractor
Sep	10.0	Irrigate		0.75	Water, District	4.00	ΑI	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		Harvest, Load & Haul	CST Harv/pack/haul Leaf		•					4.50 Ct	t
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.

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Table 4F Operations Calendar; Romaine Lettuce, 2001

COUN	ΓY: Yuma	FARM: W	estern Arizona	Vegetables	3	WATE	R SOURCE	Ξ:	YCWU.	A	TILLAG	SE:	Double	Crop
CROP:	Lettuce, Romaine	ACRES: 1				IRRIG/	ATION SYS	STEM:	Flood F	urrow	SOIL:		Sandy-	Loam
AREA:	Yuma Valley North	YIELD: 70	00 Ct/Acre)		PREVI	OUS CRO	P:	Mixed (Greens	DATE:		03/25/2	2001
						Month	and Times	Operatio	n Perform	ned				
No.	Operation		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

, (i (L) (.	Tama vanoj Hora:	0071010				OOO OI (O			Oroono	ם, יו ב.		00/20/2	
•		Ponth and Times Operation Performed											
No.	Operation	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			
3	Knock Borders									1 C			
7	Apply Fert/Ground									1 C			
}	List									1 C			
9	Shape Beds									1 C			
0	Apply Insecticide/Ground									1 C			
1	Plant									1 C			
12	Set Sprinklers									1 C			
3	Apply Herbicide/Ground									1 C			
4	Irrigate/Sec Sys									5 C			
5	Remove Sprinklers									1 C			
6	Make Ditches									1 C			
7	Irrigate									3 C	4 C	3 C	
8	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

FARM: Yuma Vegetables Yuma County Water TILLAGE: Double Crop COUNTY: Yuma WATER SOURCE: CROP: ACRES: IRRIGATION SYSTEM: Flood Furrow Sandy-Loam 1.0 SOIL: Broccoli 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 GRC Paid Labor (including benefits) Tractor/Self Propelled Irrigation Other/ Contract	OWING EXPENSES (incl	uding sales tax)		36.47 30.03 50.95	117.45	
Chemicals and Custom Applications Fertilizer Insecticide Herbicide Other Chemicals				144.66 919.72 3.89 107.09	1175.35	
Farm Machinery and Vehicles Diesel Fuel Gasoline Repairs and Maintenance Irrigation Water (excluding labor) Water Assessment (See Note Below)	**			16.82 11.40 33.98	0.00	
Other Purchased Inputs & Seed/Transplants Other Services and Rentals				412.13 78.00	490.13	
TO CASH HARVEST AND POST HARVEST		PARATION AND GROWII	NG EXPENSES		1845.13	
Paid Labor (including benefits) Tractor/Self Propelled				2.19	2.19	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				0.98 1.44	2.42	
Custom Harvest/Post Harvest TO OPERATING OVERHEAD -> PICKUP U OPERATING INTEREST AT 10.0%		OST HARVEST EXPENS	E		2652.00 2656.62 13.17 24.37	
TOTAL CASH OPERATING EXPENSES RETURNS OVER CASH OPERAT					\$4,539.29 \$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

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

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

FARM: Yuma Vegetables COUNTY: Yuma WATER SOURCE: Yuma County Water TILLAGE: Double Crop 1.0 CROP: Broccoli ACRES: 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		Hour	s *	Operating Costs (\$/ACRE *) Per Operation						Tot. Cash		
No.	Month	Operation	Machine	Labor	Fuel/Rps.		Cust/Serv.		Total	Times	Expenses	Class	
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	35.04	1.0	35.04	G	
20	Sep	Apply Insecticide/Air					4.75	309.72	314.47	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	Ğ	
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	Н	
26	Nov	Harvest 624 Ct					2652.00		2652.00	1.0	2652.00	Н	
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	EXPENSE	S (include	s all times over):						4539.29	Т	

*NOTES: Machine and labor hours and operating cost are for one time over the designated acreage. The "Tot. Cash Expense" column and the "TOTAL CASH OPERATING EXPENSES" row include all operations, all times over. Classes are defined below.

A water assessment charge of \$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

Land Preparation (L)	535.89	Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Growing (G)	1,318.73	Yields		\$5.78	\$6.94	\$7.71	\$8.48	\$9.64	Break-even Price
Harvest (H)	2,652.79			-					
Post Harvest (P)	3.83	- 25%	456.0	-1,223.44	-696.07	-344.50	7.08	534.44	8.47
Marketing (M)	0.00	- 10%	547.2	-1,094.57	-461.73	-39.84	382.05	1,014.89	7.78
Operating Overhead (O)	37.55	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
Total (T)	\$4,539.29								

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

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

		Water				- Opera	ting Costs (\$/A				
Month *	Number Irrigations	Applied (inches)	Total Labor (Hrs)		uel, Oil I Repairs	Labor	Chemicals	Other Purchases	Services	Total	
JUN C	iiigations	(miches)	1.19	water and	16.57	10.46		i di Cilases	CEIVICES	27.03	
JUL C	1.0	4.0	0.79		1.61	6.85				8.46	
AUG C			0.70		9.07	8.19			3.00	87.89	
SEP C	1.0	6.0	4.72		19.82	40.78		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			1	13.17					13.17	
	nterest at 10.0)							24.37	24.37	
Water Asses	ssment			**							
Total	6.0	34.0	13.62		77.79	119.64	4 1161.10	412.13	2768.66	4539.29	
%					1.71	2.64	4 25.58	9.08	60.99	100.00	
TOTAL RES	SOURCE REC	NUREMENT	S (ner Acre)	TOTAL ENERGY I	REOLUREME	NTS (ner	Δcre)				
Total N	JOONOL NEG	253.6	o (per / tore)	Diesel Fuel		20.1 G	,				
Total P		228.8		Unleaded Gas		13.2 G					
Total Labo	or	13.6		All Direct Ener			BTU				
Total Wat		34.0		7 til 2 ii 00t 2 ii 0	3)						
EQUIPMEN	T REQUIREM	MENTS (per A	Acre)								
Bed Shar		\1	18 Hr	Blade Scraper, 10'	0.45	Hr	Border Dis	sk, 6' Disk	0.14 Hr		
Cultivator	r, Śweep, 4 R	w 0.	40 Hr	Fert. Side Dress Unit,	0.33	Hr	Fertilizer S	Spreader, 18'	0.11 Hr		
	pike, 4 Rw		69 Hr	High Clearance Sprayer,				mplete System	0.45 Hr		
Lister, 5 I			15 Hr	Lister, 7 Bottom	0.11		Offset Disl		0.05 Hr		
Offset Dis			45 Hr	Pickup Truck, 1/2 Ton	1.67			tanhay, 2 Row	0.41 Hr		
	talk Cutter, 4 F		18 Hr	Saddle Tk Sprayer, 2 Tk			Tractor, 6		2.08 Hr		
	100 PTO HP		62 Hr	Tractor, 125 PTO HP	0.45			75 PTO HP,	0.45 Hr		
Tractor, 2	235 Eng HP, <i>A</i>	Art. 0.	30 Hr	Truck, 5 Ton w/1000 Ga	1.17	Hr	V-Ripper,	7 Shnk	0.30 Hr		
	S REQUIREM	(1	,								
11-52-00			00 Lb	32-00-00, URAN 32, Lqc				Amm. Nitrate,	300.00 Lb		
	Seed (Hybrid)		00 Th	Chlorpyrifos	3.00		Imidaclopr		16.00 Oz		
	yhalothrin		00 Pt	Metalaxyl	4.00		Permethrin	ı	12.00 Pt		
Spinosad			00 Oz	Thiodicarb	64.00	Pt	Trifluralin		1.00 Pt		
Water, Di			00 AI								
	QUIREMENT		00.11	011			- .				
Irrigators			92 Hr	Other	4.00	Hr	Tractor		4.41 Hr		
Truck Drive	er	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

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

First No. Month	Times	Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acres/Hr	Material Us Name			 e \$/Un		Service Cost \$ / Unit	Labor Type
Jun		Disk	175 Offset Disk, 18'	6.00	- Tunio	7.66.		Ψ, σ.			Tractor
Jun		Rip	175 V-Ripper, 7 Shnk	3.00							Tractor
		Laser Level	125 Blade Scraper, 10'	2.00							Tractor
Aug	1.0	Laser Level	Laser, Complete System	2.00							Tractor
Jun	3.0	Make Borders	60 Border Disk, 6' Disk	40.00							Tractor
Jul		Preirrigate	oo boldel bisk, o bisk		Water, District	4.00	ΔΙ	0.00	ΔΕ		Irrigators
Jul		Dust Control	Truck, 5 Ton w/1000 Gal Tank	100.00	Water, District	4.00	Λı	0.00	Λı		Truck
Aug		Knock Borders	60 Border Disk, 6' Disk	40.00							Tractor
Aug		Soil Fertility	CST Soil Analysis (Surface)	40.00						3.00 Ac	Tractor
Aug		Apply Fert/Ground	100 Fertilizer Spreader, 18'	8 00	11-52-00, Dry	440 00	Ιh	273.33	Tn		Tractor
, lug	1.0	rippiy i cit diouitu	Lister, 7 Bottom	0.00	11 02 00, DIY	- 0.00	LD	210.00			1140101
Aug	1.0	Apply Herbicide/Ground	60 Saddle Tk Sprayer, 2 Tk 8	12 00	Trifluralin	1 00	Pt	29.35	Ga		Tractor
Aug		List	100 Lister, 5 Bottom	6.00		1.50		_0.00	Ju		Tractor
Sep		Shape Beds	100 Bed Shaper, 4 Rw		Imidacloprid	16.00	Oz	588.40	Ga		Tractor
2.00			Saddle Tk Sprayer, 2 Tk 8 Row	0.00		. 3.00					
Sep	1.0	Plant	60 Planter, Stanhay, 2 Row	2.20	Broccoli Seed (Hybrid)	144.00	Th	2.70	Th		Tractor
Sep		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
•		,	, , ,	I	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		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	-	hiodicarb	32.00	Pt	49.04	Ga	4.75 Ac	
•			- -	I	.ambdacyhalothrin	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		Irrigate		2.17	Water, District	6.00	ΑI	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			l High Clearance Sprayer, 18		Metalaxyl	2.00	Pt	202.05	Ga		Tractor
Nov		Prepare Ends	60 Offset Disk, 10.5'	40.00							Tractor
Nov		Harvest	CST Harv/pack/haul Broccoli							4.25 Ct	
Nov		Cut Stalks	100 Rotary Stalk Cutter, 4 Row	5.00							Tractor
Nov		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.

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Table 5F Operations Calendar; Fall Broccoli, 2001

COUNT		FARM:		n Arizona	Vegetables		WATE	R SOURC	E:	YCWU.	A	TILLAG	SE:	Double	Crop
CROP:	Broccoli	ACRES:						ATION SY		Flood F	urrow	SOIL:		Sandy-	
AREA:	Yuma Valley North	YIELD:	528	Ct/Acre	9		PREVI	OUS CRO	P:	Wheat,	Winter	DATE:		03/25/2	2001
			Month and Times Operation Performed												
No.	Operation			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			
3	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			
4	Shovel Ends											1 C		1 C	
5	Apply Insect/Ground												1 C	1 C	
16	Thinning											1 C			
7	Cultivate											1 C			
8	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	
00	I laminasi													1.0	

1 C

1 C

1 C

Harvest Cut Stalks

Disk Residue

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

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

FARM: Yuma Vegetables COUNTY: Yuma WATER SOURCE: Yuma County Water TILLAGE: Double Crop ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow Sandy-Loam SOIL: CROP: Lettuce, Leaf 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 Paid Labor (including benefits) Tractor/Self Propelled Irrigation	GROWING EXPENSES (inc	cluding sales tax)		77.00 114.56	191.56	
Chemicals and Custom Applicati Fertilizer Insecticide Herbicide	ons			98.67 394.52 60.72	553.91	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance Irrigation Water (excluding labor)				41.98 61.44	0.00	
Water Assessment (See Note Be Other Purchased Inputs & Seed/Transplants	elow) **			305.28	380.28	
Other Services and Rentals	TOTAL CASH LAND PRE	PARATION AND GROW	NG EXPENSES	75.00	1229.17	
CASH HARVEST AND POST HARV Custom Harvest/Post Harvest	TOTAL HARVEST AND P	OST HARVEST EXPENS	SE		5895.00 5895.00	
OPERATING OVERHEAD -> PICKU OPERATING INTEREST AT 10.0%					13.17 11.78	
TOTAL CASH OPERATING EXPEN RETURNS OVER CASH OPE					\$7,149.12 \$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

ltem	CASH COST BASI	S (\$/ACRE) Net Returns	TOTAL COST BA Income and Costs	SIS (\$/ACRE) Net Returns
TOTAL INCOME at \$7.30 / Ct TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$8,482.60 \$7,149.12	\$1,333.48	\$8,482.60 \$7,149.12	\$1,333.48
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead (5.0% of Total Operating Exp.) General Farm Maintenance (3.0% of Total Operating Exp.)	10.12 357.46 214.47		10.12 357.46 214.47	
Total Cash Overhead Expenses Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles	582.05 7,731.17	\$751.43	582.05 7,731.17 58.07 24.16	\$751.43
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK			82.23	\$669.20
Land Cost / Rent or Lease Water Assessment **	550.00 31.00		550.00 31.00	
Total Land Costs RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK	581.00 >	\$170.43	581.00	\$88.20
Management Services (8% of Total Operation Expenses)			571.93	
TOTAL OWNERSHIP COST	1,163.05		1,817.21	
TOTAL COST RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO RISK (PROFITS)	\$8,312.17 >	\$170.43	\$8,966.33	(\$483.73)
Item	CASH COST BASI Income and Costs	S (\$/ACRE) Net Returns	TOTAL COST BAS	SIS (\$/ACRE) Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$6.15 \$1.00 \$7.15		\$6.15 \$1.56 \$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: IRRIGATION SYSTEM: Flood Furrow Sandy-Loam 1.0 SOIL: AREA: Yuma Valley North YIELD: 1,162.0 Ct / Acre PREVIOUS CROP: Mixed Greens DATE: 8/13/01

	First		Hour	s *	Operati	ng Costs	(\$/ACRE *)	Per Opera	ation		Tot. Cash	•	
No.	Month	Operation	Machine	Labor	Fuel/Rps.	Labor C	ust/Serv.	Materials	Total	Times	Expenses	Class	
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	EXPENSE	S (include	, s all times over)						7149.12	Т	

*NOTES: Machine and labor hours and operating cost are for one time over the designated acreage. The "Tot. Cash Expense" column and the "TOTAL CASH OPERATING EXPENSES" row include all operations, all times over. Classes are defined below.

A water assessment charge of \$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

\$7,149.12

Total (T)

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		\$5.48	\$6.57	\$7.30	\$8.03	\$9.13	Break-even Price
- 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

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

		Water					Op	erating	Costs (\$/A	CRE *)			
	Number	Applied	Total	Purchased	Fuel, C	Dil		_		Other			
Month * I	Irrigations	(inches)	Labor (Hrs)	Water	and Rep	airs	Lab	or C	hemicals	Purchases	Services	Total	
AUG C			2.33		3	5.28	20	.47				55.75	
SEP C	9.0	23.5	8.61		36	5.24	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		1.	1.39	36	.52			5895.00	5942.91	
Pickup Use 50	Mi/Acre			•	1;	3.17						13.17	
Operating Inte	rest at 10.0										11.78	11.78	
Water Assessi	ment			**									
Total	16.0	51.5	23.71		116	.60	19	1.55	549.61	305.28	5986.08	7149.12	
%						.63		2.68	7.69	4.27	83.73	100.00	
TOTAL DEGO	LIBOE DEO	LUDEMENT	2 (TOTAL FAIR	DOV DEOL	UDEMEN	TO /-						_
TOTAL RESO	URCE REQ		S (per Acre)	TOTAL ENE			(1	,					
Total N		209.8		Diesel Fu			7.4	Gal					
Total P		207.0		Unleade			5.0	Gal					
Total Labor		23.7		All Direct	0,		7.2	M BTU	l				
Total Water		51.5		Electric /	Pumping			KWH					
EQUIPMENT	REQUIREM	ENTS (per A	Acre)										
Bed Shape	r, 4 Rw	0.	18 Hr	Blade Scraper, 10'		0.45	Hr		Border Dis	k, 6' Disk	0.36 Hr		
Cultivator, S	Sweep, 4 Rv	v 1.	80 Hr	Fert. Side Dress U	nit,	1.35	Hr		Laser, Cor	mplete System	0.45 Hr		
Lister, 5 Bo	ttom	0.	30 Hr	Manual Spray Rig,	150 g	0.36	Hr		Motor Gra	der, 12'	0.02 Hr		
Offset Disk,	, 12'	1.	80 Hr	Offset Disk, 18'		0.60	Hr		Pickup Tru	ıck, 1/2 Ton	1.67 Hr		
	anhay, 4 Rov		36 Hr	Saddle Tk Sprayer		0.18			Sprinkler T		0.32 Hr		
Tractor, 60	PTO HP	3.	29 Hr	Tractor, 100 PTO I	HP	0.84			Tractor, 15	50 PTO HP	2.25 Hr		
Tractor, 175	5 PTO HP,	0.	60 Hr	Tractor, 235 Eng F	IP, Art.	0.90	Hr		V-Ripper,	7 Shnk	0.90 Hr		
MATERIALS F													
18-46-00, D			00 Lb	46-00-00, Urea 46		280.00			Bensulide		10.00 Pt		
Imidacloprid	d		00 Oz	Leaf Lettuce Sd (c	oated)	800.00			Methomyl		4.00 Pt		
Permethrin		16.	00 Pt	Spinosad		12.00	Oz		Water, Dis	trict	51.50 AI		
LABOR REQU	JIREMENT (,											
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

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

First		Equipment/ Custom Oper	Job Rate	Materia	I Use and C	ost		- s	ervice Cost	Labor
o. Month	Times Operation	HP Self-Prop./ Implement	Acres/Hr	Name	Appl	. Rat	e \$/Ur	it	\$ / Unit	Туре
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' Laser, Complete System	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	Αl	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 Saddle Tk Sprayer, 2 Tk 8 Row	5.00	Imidacloprid	16.00	Oz	588.40	Ga		Tractor
Sep	1.0 Plant	100 Planter, Stanhay, 4 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		•
				Permethrin	8.00	Pt	108.50	Ga		
Sep	1.0 Apply Herbicide/Air	CST Air Spray, 5 Ga w/ Herb.		Bensulide	10.00	Pt	42.58	Ga	4.30 Ac	
Sep	5.0 Irrigate/Sec Sys		11.00	Water, District	1.10	ΑI	0.00	AF		Irrigators
Sep	1.0 Remove Sprinklers	60 Sprinkler Trailer	5.70							Tractor
										Irrigators
Sep	1.0 Make Ditches	Motor Grader, 12'	40.00							Tractor
Sep	10.0 Irrigate			Water, District	4.00	ΑI	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 Fert. Side Dress Unit, 4Row	1.00	46-00-00, Urea 46	280.00	Lb	271.17	Tn		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 6F Operations Calendar; Fall Leaf Lettuce, 2001COUNTY: YumaFARM: Western Arizona Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop CROP: Lettuce, Leaf
AREA: Yuma Valley North ACRES: 1 Sandy-Loam 03/25/2001 IRRIGATION SYSTEM: Flood Furrow SOIL: VIELD: 1310 PPEVIOUS CROP Ct/Acro Miyed Greens DATE:

AREA:	Yuma Valley North	YIELD:	1310	Ct/Acre)		PREVI	OUS CRO	P:	Mixed	Greens	DATE:		03/25/2	2001
							Month	and Times	Operation	n Perforr	ned				
No.	Operation			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.	D = Provious Voor C = Cu		NI - NI-												

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

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

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

Item	Unit	Quantity	Price/	Budgeted	Total	Your Farm
			Unit	/Acre	/Acre	Budget
INCOME -> Lettuce	Crtn	823.00	\$5.26	\$4,328.98	\$4,328.98	
CASH LAND PREPARATION AND G Paid Labor (including benefits) Tractor/Self Propelled	ROWING EXPENSES (incl	uding sales tax)		30.73	90.78	
Irrigation Other/ Contract				35.09 24.96		
Chemicals and Custom Applicatio Fertilizer Insecticide Herbicide Other Chemicals	ns			170.14 290.38 74.12 52.85	587.48	
Farm Machinery and Vehicles Diesel Fuel Gasoline Repairs and Maintenance Irrigation Water (excluding labor) Water Assessment (See Note Bel	Ow) **			18.33 14.03 37.41	0.00	
Other Purchased Inputs & Seed/Transplants Other Services and Rentals	ow)			95.40 189.10	284.50	
CASH HARVEST AND POST HARVI	TOTAL CASH LAND PREF EST EXPENSES	PARATION AND GROWI	NG EXPENSES		1032.53	
Custom Harvest/Post Harvest	TOTAL HARVEST AND PO	JST HARVEST EXDENS	F		2047.20 2047.20	
OPERATING OVERHEAD -> PICKU OPERATING INTEREST AT 10.0%		JOI HARVEST EXPENS	L		13.17 194.61	
TOTAL CASH OPERATING EXPENS RETURNS OVER CASH OPER					\$3,287.51 \$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

	CASH COST BASI	S (\$/ACRE)	TOTAL COST BASIS (\$/ACRE)	
ltem	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 General and Office Overhead (5.0% of Total Operating Exp.)	7.60 164.38		7.60 164.38	
General Farm Maintenance (3.0% of Total Operating Exp.)			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 31.00		550.00	
Water Assessment **			31.00	
Total Land Costs RETURNS TO CAPITAL, MANAGEMENT AND RISK	581.00	\$189.87	581.00	
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	(#420.00)	
RETURNS TO RISK (PROFITS)			(\$120.92)	
Item	CASH COST BASIS	S (\$/ACRE) Net Returns	TOTAL COST BASIS (\$/ACRE) Income and Costs Net Returns	
nom	moonic and costs	140t Noturns	moone and oosts — Net Neturis	
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

FARM: Yuma Vegetables COUNTY: Yuma WATER SOURCE: Yuma County Water TILLAGE: Double Crop ACRES: CROP: Lettuce, Iceberg 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		Hours	s *	Operatii	ng Costs	(\$/ACRE *) Per Opera	ation		Tot. Cash		
No.	Month	Operation	Machine	Labor	Fuel/Rps.		ust/Serv.		Total	Times	Expenses	Class	
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	Ğ	
33	Dec	Knock Ditches	0.022	0.025	0.32	0.22			0.54	1.0	0.54	Ğ	
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		
		Operating Interest at 10.0					194.61				194.61		
		TOTAL CASH OPERATING	EXPENSE	S (include	s all times over).						3287.51	Т	
			_,,	- (11101000	c tirrioo o vor).						0207.01	•	

*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 E	BY CLASS	SENSITIVIT	Y OF THE N	IET REVE	NUES OVER	R TOTAL CAS	SH EXPENS	ES (\$/ACR	E)
Land Preparation (L)	228.66	Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	,
Growing (G)	803.87	Yields		\$3.95	\$4.73	\$5.26	\$5.79	\$6.58	Break-even Price
Harvest (H)	2,047.20								
Post Harvest (P)	0.00	- 25%	617.3	-198.00	289.01	613.69	938.36	1,425.37	4.27
Marketing (M)	0.00	- 10%	740.7	-18.07	566.35	955.95	1,345.56	1,929.97	3.97
Operating Overhead (O)	207.78	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
Total (T)	\$3,287.51	+ 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

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

		Water					Operati	ng Costs (\$/A	.CRE *)			
	Number	Applied	Total	Purchased	Fuel, Oil		•		Other			
Month *	Irrigations	(inches)	Labor (Hrs)	Water	and Repair	rs	Labor	Chemicals	Purchases	Services	Total	
"" 0	4.0	40.0	2.42		04.5		40.00			2.00	40.45	
JUL C	1.0	12.0	2.13		21.5		18.60	100.10		3.00	43.15	
AUG C	5 0		0.55		7.8		6.87	136.13	05.40	40.75	150.87	
SEP C	5.0	5.5	2.56		17.5		23.26	190.89	95.40	19.75	346.80	
OCT C	7.0	11.5	2.74		9.0		23.91	110.01		85.00	227.99	
NOV C	2.0	6.0	0.74		5.2		8.12	85.26		95.85	194.47	
DEC C	2.0	6.0	0.79		5.6		8.55	50.96		1023.60	1088.80	
JAN N	ΓΟ M:/Λ		0.17	ļ	2.8		1.47			1023.60	1027.65	
Pickup Use					13.1	1				404.04	13.17	
Operating in Water Asses	iterest at 10.0			**						194.61	194.61	
water Asses	ssment			**								
Total	17.0	41.0	9.68		82.6	7	90.78	573.25	95.40	2445.41	3287.51	
%	17.0	11.0	0.00		2.5		2.76	17.44	2.90	74.38	100.00	
Total N Total P Total Labo Total Wate		263.3 202.5 9.7 41.0 ENTS (per A	Acre)	Diesel Fu Unleader All Direct	d Gas	20 15 4	.1 Ga					
Bed Shap			18 Hr	Border Disk, 6' Dis		0.04 H		Drag Scra	1 - /	0.45 Hr		
	Broadcaster,		08 Hr	Fertilizer Injector, 4	Row	0.22 H			rance Sprayer,	0.09 Hr		
	omplete Syster		45 Hr	Lister, 5 Bottom		0.18 H		Motor Gra	,	0.09 Hr		
Offset Dis	, -		60 Hr	Pickup Truck, 1/2		1.67 H			tanhay, 4 Row	0.45 Hr		
	k Sprayer, 2 T		33 Hr	Section Harrow, 3		0.15 H			vator, 4Rw	0.22 Hr		
Sprinkler			32 Hr	Tractor, 60 PTO H		0.41 H		,	0 PTO HP,	0.02 Hr		
	80 PTO HP,		22 Hr	Tractor, 100 PTO F		0.96 H			75 PTO HP,	0.45 Hr		
I ractor, 2	35 Eng HP, A	rt. 0.	90 Hr	Truck, 5 Ton w/100	00 Gal	1.44 H	r	V-Ripper,	7 Shnk	0.45 Hr		
	REQUIREMI											_
	, Treble Super		00 Lb	20-00-00, Amm. Ni		35.00 G		Benefin		2.00 Pt		
Cypermet			00 Oz	Head Lettuce Sd	1	50.00 T		Imidaclop		16.00 Oz		
Methomy			00 Pt	Permethrin		2.00 P		Permethri		2.00 Oz		
Pronamid			00 Lb	Spinosad		12.00 O		Spreader-		6.40 Oz		
Thiodicar	b	2.	00 Pt	Vinclozolin		2.00 LI)	Water, Dis	strict	41.00 AI		
LABOR REC	QUIREMENT ((per Acre)										
Irrigators			58 Hr	Tractor		3.50 H	r	Truck Driv	er	1.60 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 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			Equipment/ Custom Oper	Job Rate						Service Cost	Labor
No.	. Month	Times	Operation	HP Self-Prop./ Implement	Acres/Hr	Name	Appl.	Rat	e \$/Ur	nit	\$ / Unit	Туре
1	Jul	1.0	Rip	175 V-Ripper, 7 Shnk	2.00							Tractor
2	Jul		Disk	175 Offset Disk, 18'	6.00							Tractor
	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		\	Nater, District	12.00	ΑI	0.00	ΑF		Irrigators
	Jul		Soil Fertility	CST Soil Analysis (Surface)							3.00 Ac	
	Jul	160.0	Dust Control	Truck, 5 Ton w/1000 Gal Tank	100.00							Truck
8	Aug		Apply Fert/Ground	60 Fertilizer Broadcaster,		00-45-00, Treble	450.00		260.00			Tractor
	Aug	1.0	Apply Herbicide/Ground	100 Saddle Tk Sprayer, 2 Tk 8	6.00	Benefin	2.00		8.69			Tractor
9				Offset Disk, 18'	F	Pronamide	2.00	Lb	26.27	Lb		
9				Section Harrow, 3 Section								
	Sep		List	100 Lister, 5 Bottom	5.00							Tractor
	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								
	Sep		Plant	100 Planter, Stanhay, 4 Row		Head Lettuce Sd	150.00	Th	0.60	Th		Tractor
	Sep	1.0	Set Sprinklers	60 Sprinkler Trailer	5.70							Tractor
13												Irrigators
	Sep	1.0	Apply Insecticide/Air	CST Air Spray, 5 Gal Mix		Methomyl	4.00		48.94		4.75 Ac	
14						Permethrin			120.50			
	Sep		Irrigate/Sec Sys		\	Nater, District	1.10	ΑI	0.00	ΑF		Irrigators
	Sep		Field Scouting	CST Scout For Insects							10.00 Ac	
	Sep			CST Air Spray, 5 Gal Mix		Spinosad			609.67		4.75 Ac	
	Sep	1.0	Apply Insect./Ground	High Clearance Sprayer, 18		Methomyl	4.00		48.94			Tractor
18						Permethrin			108.50			
	Sep	1.0	Irrigate/Run Fertilizer			Nater, District	3.00		0.00			Irrigators
19						20-00-00, Amm. Nitrate,	10.00	Ga	155.00	Tn		
	Sep	1.0	Remove Sprinklers	60 Sprinkler Trailer	5.70							Tractor
20												Irrigators
	Sep		Make Ditches	Motor Grader, 12'	40.00							Tractor
	Oct	4.0	Irrigate/Run Fertilizer			Nater, District	3.00		0.00			Irrigators
22					2	20-00-00, Amm. Nitrate,	20.00	Ga	155.00	Tn		
	Oct		Thinning	CST Thinning							75.00 Ac	
	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								
	Oct			High Clearance Sprayer, 18		Vinclozolin	2.00		24.59			Tractor
	Oct	1.0	Apply Insect./Ground	High Clearance Sprayer, 18		Thiodicarb	2.00					Tractor
26					(Cypermethrin	2.00	Oz	291.66	Ga		
	Nov		Bird Control	CST Bird Control							6.10 Hr	
28	Nov	1.0	Apply Insecticide/Air	CST Air Spray, 5 Gal Mix	5	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 Material Acres/Hr Name	Use and Cost S Appl. Rate \$ / Unit	ervice Cost Labor \$ / Unit Type
29 Nov	1.0 Irrigate/Run Fertilizer		Water, District	3.00 AI 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
AREA: Yuma Valley North Sandy-Loam 03/25/2001 ACRES: 1 IRRIGATION SYSTEM: Flood Furrow SOIL: YIELD: 853 Ct/Acre PREVIOUS CROP Wheat Winter DATE:

AREA:	Yuma Valley North	YIELD:	853 Ct/Ad	cre			PREVI	OUS CRO	P:	Wheat	, Winter	DATE:		03/25/2	2001
											ned				
lo.	Operation			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Rip					·		<u></u>		1 C					·
	Disk									2 C					
,	Laser Level									1 C					
	Make Borders									1 C					
;	Preirrigate									1 C					
;	Soil Fertility									1 C					
	Dust Control									10 C	30 C	30 C	30 C	30 C	30 C
	Apply Fert/Ground										1 C				
	Apply Herbicide/Ground										1 C				
0	List											1 C			
1	Bed Shaping/Admire												1 C		
2	Plant											1 C			
3	Set Sprinklers											1 C			
4	Apply Insecticide/Air												1 C		
5	Irrigate/Sec Sys											5 C	5 C		
3	Field Scouting											1 C	1 C	1 C	
7	Apply Insect/Ground												1 C		
3	Apply Insect/Ground												1 C		
9	Irrigate/Run Fertilizer												1 C		
)	Remove Sprinklers												1 C		
1	Make Ditches												1 C	1 C	1 C
<u>2</u>	Irrigate/Run Fertilizer												1 C	1 C	2 C
3	Thinning												1 C	10	20
4	Cultivate												1 C		
5	Apply Fungicide/Ground												1 C		
3	Apply I difficide/Ground												10	1 C	
7	Bird Control													1 C	
8	Apply Insecticide/Air													10	1 C
9	Irrigate/Run Fertilizer													1 C	10
0	Hand Weeding													1 C	
														10	1 C
1	Apply Insect./Ground 1 C														
2	Knock Borders														1 C
3	Knock Ditches														.5 C
4	Harvest, Load & Haul			.5 N											
5	Disk Residue			1 N											

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

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

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

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Crtn	811.00	\$6.98	\$5,660.78	\$5,660.78	
CASH LAND PREPARATION AND GF Paid Labor (including benefits) Tractor/Self Propelled Irrigation	ROWING EXPENSES (incl	uding sales tax)		50.35 38.86	89.20	
Chemicals and Custom Application Fertilizer Insecticide Herbicide Other Chemicals	s			180.13 98.29 56.42 46.28	381.12	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance Irrigation Water (excluding labor) Water Assessment (See Note Belo	w) **			25.72 34.07	59.79 0.00	
Other Purchased Inputs & Seed/Transplants Other Services and Rentals	TOTAL CACULIAND PRES	IADATION AND ODGIANI	NO EXPENSES	20.06 243.00	263.06	
CASH HARVEST AND POST HARVE	ГОТАL CASH LAND PREF ST EXPENSES	AKATION AND GROWI	NG EXPENSES		793.17	
Custom Harvest/Post Harvest OPERATING OVERHEAD -> PICKUP OPERATING INTEREST AT 10.0%	FOTAL HARVEST AND POUSE	OST HARVEST EXPENS	E		3392.00 3392.00 13.17 28.31	
TOTAL CASH OPERATING EXPENS RETURNS OVER CASH OPER					\$4,226.65 \$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

Item	CASH COST BASI	S (\$/ACRE) Net Returns	TOTAL COST BA	SIS (\$/ACRE) Net Returns
TOTAL INCOME at \$6.98 / Ct TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$5,660.78 \$4,226.65	\$1,434.13	\$5,660.78 \$4,226.65	\$1,434.13
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead (5.0% of Total Operating Exp.) General Farm Maintenance (3.0% of Total Operating Exp.)	5.38 211.33 126.80		5.38 211.33 126.80	
Total Cash Overhead Expenses Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles	343.51 4,570.17	\$1,090.61	343.51 4,570.17 31.42 12.48	\$1,090.61
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK			43.89	\$1,046.72
Land Cost / Rent or Lease Water Assessment **	550.00 31.00		550.00 31.00	
Total Land Costs RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK	581.00 >	\$509.61	581.00	\$465.72
Management Services (8% of Total Operation Expenses)			338.13	
TOTAL OWNERSHIP COST	924.51		1,306.54	
TOTAL COST RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO RISK (PROFITS)	\$5,151.17 >	\$509.61	\$5,533.20 >	\$127.58
Item	CASH COST BASI	S (\$/ACRE) Net Returns	TOTAL COST BAS Income and Costs	SIS (\$/ACRE) Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$5.21 \$1.14 \$6.35		\$5.21 \$1.61 \$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: Sandy-Loam 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: AREA: Yuma Valley North YIELD: 811.0 Ct / Acre PREVIOUS CROP: Lettuce, Iceberg DATE: 8/13/01

	First		Hour	s *	Operatii	ng Costs	(\$/ACRE *)	Per Opera	ation		Tot. Cash		
No.	Month	Operation	Machine	Labor	Fuel/Rps.	Labor C	ust/Serv. I	/laterials	Total	Times	Expenses	Class	
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	Н	
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	EXPENSE	S (include	ı s all times over):						4226.65	Т	

*NOTES: Machine and labor hours and operating cost are for one time over the designated acreage. The "Tot. Cash Expense" column and the "TOTAL CASH OPERATING EXPENSES" row include all operations, all times over. Classes are defined below.

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

OPERATING COST SUMMARY	Y BY CLASS	SENSITIVITY (OF THE	NET REVE	NUES OVE	ER TOTAL CA	SH EXPENS	SES (\$/ACRE)
Land Preparation (L)	147.15	Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%
Growing (G)	646.02	Yields		\$5.24	\$6.28	\$6.98	\$7.68	\$8.73 Brea
Harvest (H)	3,392.00							

0.00

0.00

41.48

Total (T) \$4,226.65

Post Harvest (P)

Operating Overhead (O)

Marketing (M)

+ 25% Budgeted + 10% \$6.98 \$7.68 \$8.73 Break-even Price - 25% 608.3 -325.65 311.19 735.74 1,160.30 1,797.14 5.77 - 10% 729.9 -197.61 566.59 2,349.74 1,076.06 1,585.53 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 5.27 2,152.50 3,086.53 Break-even Yield 917.66 460.03 345.25 276.31 212.62

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

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

		107.4							0 ((0/4	0DE #\			
	Managara	Water	T - 4 - 1	D la a a a al			Ope	erating	Costs (\$/A				
Month *	Number Irrigations	Applied (inches)	Total Labor (Hrs)	Purchased Water	Fuel, and Re		Lab	~ · ·	hemicals	Other Purchases	Services	Total	
	irrigations	(inches)		vvaler		•				Pulcilases			
FEB C			2.12			26.68		.57	108.89		3.00	157.14	
MAR C	5.0	18.0	4.02			17.53		.90	141.80	20.06	75.00	287.29	
APR C	6.0	12.0	2.64			8.72		.36	86.62		169.74	286.44	
MAY C	5.0	10.0	1.83			3.45		.61	29.57		1705.50	1753.13	
JUN C			0.20			3.42	1	.75			1696.00	1701.17	
Pickup Use						13.17						13.17	
	nterest at 10.0										28.31	28.31	
Water Asses	ssment			**									
Total	16.0	40.0	10.81		7	72.97	89	9.19	366.88	20.06	3677.55	4226.65	
%						1.73	2	2.11	8.68	0.47	87.01	100.00	
TOTAL DES	SOURCE REC	N IIDEMENIT	C (nor Aoro)	TOTAL ENE	DCV DEC	JUDEMEN	TC /p	or Aoro)					
	SOUNCE REG		3 (per Acre)						,				
Total N		149.6		Diesel F			29.0	Gal					
Total P		206.2		Unleade			5.0	Gal					
Total K		31.1		All Direc	t Energy		4.7	M BTU	J				
Total Labo		10.8											
Total Wat	er	40.0											
	T REQUIREM	IENTS (per A	Acre)										
Bed Shar	oer, 4 Rw	0.	18 Hr	Cultivator, Sweep,	4 Rw	1.35			Directed S	pray Rig, 8	0.22 Hr		
Disk-Liste	er, 4 Rw	0.	22 Hr	Drag Scraper, 10'		0.45			Fertilizer E	Broadcaster,	0.18 Hr		
Fertilizer	Injector, 4 Ro		51 Hr	Furrow Spike, 4 R	W	0.67				mplete System	0.45 Hr		
Lister, 5 B	Bottom	0.	22 Hr	Offset Disk, 18'		0.33	Hr		Pickup Tru	ick, 1/2 Ton	1.67 Hr		
Planter, D	Orill Type, 4 Re	ow 0.	36 Hr	Saddle Tk Spraye	r, 2 Tk 8	0.18	Hr		Tractor, 7	0 PTO HP	2.38 Hr		
Tractor, 1	100 PTO HP	1.	37 Hr	Tractor, 125 PTO	HP	0.18	Hr		Tractor, 17	75 PTO HP,	0.33 Hr		
Tractor, 2	235 Eng HP, A	rt. 0.	90 Hr	V-Ripper, 7 Shnk		0.45	Hr						
	REQUIREM												
11-48-00	, Dry		00 Lb	15-08-04, Lqd		70.00			Benomyl		2.00 Lb		
Bensulide	-		00 Pt	Cantaloupe Sd		2.00			Endosulfa	•	3.00 Pt		
Esfenvale	erate	2.	00 Oz	Imidacloprid		16.00	Oz		Water, Dis	trict	40.00 AI		
LABOR REG	QUIREMENT	(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

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

First			Equipment/ Custom Oper	Job Rate		ial Use and C				Service Cost	Labor
No. Month	Times	Operation	HP Self-Prop./ Implement	Acres/Hr	Name	Appl	Rat	te \$/Ur	nit	\$ / Unit	Туре
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'	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	100 Directed Spray Rig, 8		Bensulide	10.00	Pt	42.58	Ga		Tractor
Feb	1.0	Incorporate Herbicide	100 Disk-Lister, 4 Rw	4.00							Tractor
Feb		List	100 Lister, 5 Bottom	4.00							Tractor
Mar	1.0	Shape Beds	125 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	Cantaloupe Sd	2.00	Lb	9.46	Lb		Tractor
Mar	2.0	Irrigate		1.50	Water, District	6.00	ΑI	0.00	ΑF		Irrigators
Mar	14.0	Irrigate		3.75	Water, District	2.00	ΑI	0.00	ΑF		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		Pollinate	CST Bee Hive Rental							15.00 Ac	
Apr	2.0	Apply Insecticide/Air	CST Air Spray, 5 Gal Mix		Benomyl	1.00		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	ŀ	Endosulfan	1.00	Pt	33.17	Ga	4.75 Ac	
				ŀ	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
	I	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, 2001COUNTY: YumaFARM:Western Arizona Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop ACRES: 1 Sandy-Loam 03/25/2001 CROP: Cantaloupes IRRIGATION SYSTEM: Flood Furrow SOIL: DDEVIOUS CDOD: VIEI D: 949 DATE:

AREA:	Yuma Valley North	YIELD:	848	Ct/Acre	9		PREVI	OUS CRO	P:	Carrot	S	DATE:		03/25/2	2001
•			•				Month	and Times	S Operation	n Perforn	ned				
No.	Operation			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 3 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

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

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm
			Unit	Acre	Acre	Budget
INCOME -> Melons	Crtn	473.00	\$6.63	\$3,135.99	\$3,135.99	
CASH LAND PREPARATION AND GROV	WING EXPENSES (inc	luding 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	231.00	
Insecticide				102.24		
Herbicide				56.42		
Other Chemicals				23.14		
Farm Machinery and Vehicles					57.08	
Diesel Fuel				24.12	30	
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	200.01	
Other Services and Rentals				243.00		
	TAL CASH LAND PRE	PARATION AND GROWII	NG EXPENSES		794.19	
CASH HARVEST AND POST HARVEST		THE CHOISE	TO EXI LINOLO		754.15	
Custom Harvest/Post Harvest					1812.00	
	TAL HARVEST AND P	OST HARVEST EXPENS	E		1812.00	
OPERATING OVERHEAD -> PICKUP US		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			13.17	
OPERATING INTEREST AT 10.0%	- —				166.47	
TOTAL CASH OPERATING EXPENSES					\$2,785.83	
RETURNS OVER CASH OPERATI	NG 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 BASI	S (\$/ACRE) Net Returns	TOTAL COST BAS	SIS (\$/ACRE) 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	5.00		5.00	
Taxes, Housing and Insurance, Farm Machinery General and Office Overhead (5.0% of Total Operating Exp.)	5.28 139.29		5.28 139.29	
General Farm Maintenance (3.0% of Total Operating Exp.)			83.58	
Total Cash Overhead Expenses	228.15		228.15	
Total Cash Operating and Overhead Cost	3,013.98	0400.04	3,013.98	0400.04
RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity)		\$122.01		\$122.01
Capital Replacement, Machinery and Vehicles			30.85	
Interest on Equity, Machinery and Vehicles			12.36	
Total Capital Allocations		0400.04	43.21	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK	>	\$122.01 	>	\$78.80
Land Cost / Rent or Lease	550.00		550.00	
Water Assessment **	31.00		31.00	
Total Land Costs	581.00	(0.170.00)	581.00	
RETURNS TO CAPITAL, MANAGEMENT AND RISK	>	(\$458.99)	>	(\$502.20)
Management Services (8% of Total Operation Expenses)			222.87	,
management corridos (5% or rotal operation Expended)				
TOTAL OWNERSHIP COST	809.15		1,075.22	
TOTAL COST	\$3,594.98		\$3,861.06	
RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO RISK (PROFITS)		(\$458.99)	>	(\$725.07)
ALTONIO TO MON (FROT ITO)				(4.20.07)
	CASH COST BASIS	S (\$/ACRF)	TOTAL COST BAS	SIS (\$/ACRE)
Item	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 Sandy-Loam SOIL: AREA: Yuma Valley North YIELD: 473.0 Ct / Acre PREVIOUS CROP: Safflower DATE: 8/13/01

	First		Hour	s *	Operation	ng Costs	(\$/ACRE *)	Per Opera	ation		Tot. Cash		
No.	Month	Operation	Machine	Labor	Fuel/Rps.		ust/Serv. I		Total	Times	Expenses	Class	
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	Н	
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	EXPENSE	S (include	s all times over):						2785.83	Т	

*NOTES: Machine and labor hours and operating cost are for one time over the designated acreage. The "Tot. Cash Expense" column and the "TOTAL CASH OPERATING EXPENSES" row include all operations, all times over. Classes are defined below. A water assessment charge of \$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 \	Viold	838.59	448.18	342.02	276.52	214.82	

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

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

		Water					QΟ	erating	Costs (\$/A	CRE *)			
	Number	Applied	Total	Purchased	Fuel,	Oil	- 1-			Other			
Month *	Irrigations	(inches)	Labor (Hrs)	Water	and Re		Lab	or C	hemicals	Purchases	Services	Total	
FEB C			2.12		2	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			Į.	•	13.17						13.17	
Operating In	terest at 10.0										166.47	166.47	
Water Asses				**									
Total	16.0	40.0	10.81		7	0.26	8	9.19	352.44	42.97	2230.97	2706.57	
%						2.52	;	3.20	12.65	1.54	80.08	100.00	
Total N Total P Total K Total Labo Total Wate	er	149.6 206.2 31.1 10.8 40.0		Diesel F Unleade All Direc	d Gas		27.2 5.0 4.4	Gal Gal M BTU	J				
	T REQUIREM	\ 1	,										
Bed Shap			18 Hr	Blade Scraper, 10		0.45			,	Sweep, 4 Rw	1.35 Hr		
	Spray Rig, 8		22 Hr	Disk-Lister, 4 Rw		0.22				Broadcaster,	0.18 Hr		
	Injector, 4 Ro		51 Hr	Furrow Spike, 4 R	N	0.67				mplete System	0.45 Hr		
Lister, 5 E			22 Hr 36 Hr	Offset Disk, 18'	0 TI. 0	0.33 0.18				ick, 1/2 Ton	1.67 Hr 2.25 Hr		
	Orill Type, 4 Ro 70 PTO HP		36 Hr	Saddle Tk Sprayer Tractor, 100 PTO		1.32			Tractor, 6				
	70 PTO RP 235 Eng HP, A		эо пі 90 Hr	V-Ripper, 7 Shnk	ПР	0.45			rractor, r	75 PTO HP,	0.33 Hr		
	REQUIREM			V-Ripper, 7 Office		0.40							
11-48-00.			00 Lb	15-08-04, Lad		70.00	Ga		Benomyl		1.00 Lb		
Bensulide			00 Pt	Endosulfan		2.00			Esfenvale	rate	9.00 Oz		
Honeyde			00 Th	Imidacloprid		16.00			Water, Dis		40.00 AI		
	QUIREMENT	(per Acre)	07 Hr	Tractor		5.74							

^{*}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

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

First	T:	On anotion	Equipment/ Custom Oper	Job Rate		ial Use and C				Service Cost	
lo. Month		Operation	HP Self-Prop./ Implement	Acre/Hr	Name	Аррі.	Rate	e \$/Ur	IJτ	\$ / Unit	Туре
Feb		Disk	175 Offset Disk, 18'	6.00							Tractor
Feb		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		Soil Fertility	CST Soil Analysis (Surface)							3.00 Ac	
Feb		Apply Fert/Ground	100 Fertilizer Broadcaster,		11-48-00, Dry	300.00		330.00			Tractor
Feb			l 60 Directed Spray Rig, 8 Row		Bensulide	10.00	Pt	42.58	Ga		Tractor
Feb		Incorporate Herbicide	100 Disk-Lister, 4 Rw	4.00							Tractor
Feb		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	ΑI	0.00	ΑF		Irrigators
Mar	14.0	Irrigate		3.75	Water, District	2.00	ΑI	0.00	ΑF		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	1	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, 2001COUNTY: YumaFARM: Western Arizona Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop ACRES: 1 Sandy-Loam 03/25/2001 CROP: Honeydew Melons IRRIGATION SYSTEM: Flood Furrow SOIL: AREA: Yuma Vallev North DATE: YIELD: 453 Ct/Acre PREVIOUS CROP: Carrots

AKEA.	ruma valley North	TIELD.	453 Cl/Acre			FREVI	003 CR0	/F.	Carrot	5	DATE.		03/23/2	2001
						Month	and Times	S Operation	on Perforr	ned				
No.	Operation		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

FARM: Yuma Vegetables Yuma County Water TILLAGE: Double Crop COUNTY: Yuma WATER SOURCE: ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow Sandy-Loam CROP: Lettuce, Iceberg SOIL: 823.0 Ct / Acre AREA: Yuma Valley North YIELD: 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 0.00	\$5.26 \$0.00	\$4,328.98 \$0.00	\$4,328.98	
CASH LAND PREPARATION AND GR Paid Labor (including benefits) Tractor/Self Propelled Irrigation Other/ Contract	OWING EXPENSES (inc	cluding sales tax)		31.52 28.63 26.52	86.67	
Chemicals and Custom Applications Fertilizer Insecticide Herbicide Other Chemicals				152.59 166.41 74.12 52.85	445.96	
Farm Machinery and Vehicles Diesel Fuel Gasoline Repairs and Maintenance				19.47 14.90 39.14	73.51	
Irrigation Water (excluding labor) Water Assessment (See Note Below	/) **				0.00	
Other Purchased Inputs & Seed/Transplants Other Services and Rentals				101.76 254.10	355.86	
TO CASH HARVEST AND POST HARVEST		PARATION AND GROW	ING EXPENSES		962.00	
Custom Harvest/Post Harvest	OTAL HARVEST AND P	OST HARVEST EXPENS	SE		1723.20 1723.20	
OPERATING OVERHEAD -> PICKUP OPERATING INTEREST AT 10.0%	USE				13.17 302.17	
TOTAL CASH OPERATING EXPENSE RETURNS OVER CASH OPERA					\$3,000.54 \$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 10B. Allocations of Ownership 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

ltem	CASH COST BASI	IS (\$/ACRE) Net Returns	TOTAL COST BAS	SIS (\$/ACRE) Net Returns
TOTAL INCOME at \$5.26 / Ct TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$4,328.98 \$3,000.54	\$1,328.44	\$4,328.98 \$3,000.54	\$1,328.44
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead (5.0% of Total Operating Exp.) General Farm Maintenance (3.0% of Total Operating Exp.)	7.77 150.03 90.02		7.77 150.03 90.02	
Total Cash Overhead Expenses Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles	247.81 3,248.35	\$1,080.63	247.81 3,248.35 35.68	\$1,080.63
Interest on Equity, Machinery and Vehicles Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK			13.03 48.71	\$1,031.92
Land Cost / Rent or Lease Water Assessment **	550.00 31.00		550.00 31.00	
Total Land Costs RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK	581.00 >	\$499.63	581.00	\$450.92
Management Services (8% of Total Operation Expenses)			240.04	
TOTAL OWNERSHIP COST	828.81		1,117.56	
TOTAL COST RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO RISK (PROFITS)	\$3,829.35 >	\$499.63	\$4,118.10 >	\$210.88
Item	CASH COST BASIS Income and Costs	S (\$/ACRE) Net Returns	TOTAL COST BAS Income and Costs	SIS (\$/ACRE) Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$3.65 \$1.01 \$4.65		\$3.65 \$1.36 \$5.00

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

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

	First		Hour	s *	Operatir	ng Costs	(\$/ACRE *)	Per Opera	ation		Tot. Cash		
No.	Month	Operation	Machine	Labor	Fuel/Rps.	Labor C	ust/Serv.	Materials	Total	Times	Expenses	Class	
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	
	-IF-:	Pickup Use 50 Mi/Acre	1.667		13.17						13.17		
		Operating Interest at 10.0					302.17				302.17		
		TOTAL CASH OPERATING	EXPENSE	S (includes	all times over):						3000.54	Т	

*NOTES: Machine and labor hours and operating cost are for one time over the designated acreage. The "Tot. Cash Expense" column and the "TOTAL CASH OPERATING EXPENSES" row include all operations, all times over. Classes are defined below. 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 B	Y CLASS	SENSITIV	ITY OF THE	NET REVI	ENUES OVE	ER TOTAL CA	ASH EXPEN	ISES (\$/AC	RE)
Land Preparation (L)	233.50	Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Growing (G)	728.50	Yields		\$3.95	\$4.73	\$5.26	\$5.79	\$6.58	Break-even Price
Harvest (H)	1,723.20								
Post Harvest (P)	0.00	- 25%	617.3	5.53	492.54	817.21	1,141.89	1,628.90	3.94
Marketing (M)	0.00	- 10%	740.7	234.06	818.47	1,208.08	1,597.69	2,182.10	3.63
Operating Overhead (O)	315.34	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
Total (T)	\$3,000.54	+ 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

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

		Water					Operati	ng Costs (\$/A	CRE *)			
	Number	Applied	Total	Purchased	Fuel, (Oil	•	- "	Óther			
Month *	Irrigations	(inches)	Labor (Hrs)	Water	and Rep	airs	Labor	Chemicals	Purchases	Services	Total	
OCT P	1.0	10.0	2.13		2	1.27	18.59			3.00	42.86	
NOV P	6.0	10.0	3.14			2.43	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	
	50 Mi/Acre				1	3.17				000.47	13.17	
	nterest at 10.0			**						302.17	302.17	
Water Asse	ssment			^^								
Total	17.0	35.0	9.03		86	6.68	86.66	441.21	101.76	2284.23	3000.54	
%						2.89	2.89	14.70	3.39	76.13	100.00	
Total P Total Labo Total Wat		144.0 9.0 35.0		Unleaded All Direct			5.7 Ga 5.0 M	I BTU				
FOUIPMEN	T REQUIREM	FNTS (per A	Acre)									
Bed Shar			18 Hr	Border Disk, 6' Dis	k	0.05	Hr	Drag Scra	per, 10'	0.45 Hr		
Fertilizer	Broadcaster,	0.	18 Hr	Fertilizer Injector, 4	1 Row	0.22	Hr	High Clea	rance Sprayer,	0.06 Hr		
Laser, Co	omplete Syste	m 0.	45 Hr	Lister, 5 Bottom		0.22		Motor Gra		0.07 Hr		
Offset Dis	,		67 Hr	Pickup Truck, 1/2		1.67			tanhay, 4 Row	0.36 Hr		
	k Sprayer, 2 T		41 Hr	Section Harrow, 3		0.22			ator, 4Rw	0.22 Hr		
Sprinkler			32 Hr	Tractor, 60 PTO H		0.54			00 PTO HP	0.99 Hr		
,	150 PTO HP		22 Hr	Tractor, 175 PTO I	∃P,	0.45		Tractor, 23	35 Eng HP, Art.	0.90 Hr		
Truck, 5	Ton w/1000 G	al 1.	53 Hr	V-Ripper, 7 Shnk		0.45	Hr					
	S REQUIREM						_					
11-48-00			00 Lb	20-00-00, Amm. Ni	ıtrate,	125.00		Benefin	4.4	2.00 Pt		
Cyperme			00 Oz	Head Lettuce Sd		160.00		Imidaclopi	ia	16.00 Oz		
Methomy	r-activator		00 Pt 40 Oz	Pronamide Vinclozolin		2.00 2.00		Spinosad Water, Dis	etrict	6.00 Oz 35.00 AI		
			40 02	VITICIOZOIIII		2.00	LU	vvalei, Dis	ou ici	35.00 AI		
LABOR REG	QUIREMENT		73 Hr	Tractor		3.59	Hr	Truck Driv	er	1.70 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 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

	First			Equipment/ Custom Oper	Job Rate	Material U					Service Cost	Labor
No	. Month	Times	Operation	HP Self-Prop./ Implement	Acre/Hr	Name	Appl.	Rat	e \$/Ur	it	\$ / Unit	Туре
	Oct	1.0		175 V-Ripper, 7 Shnk	2.00							Tractor
2	Oct		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			60 Border Disk, 6' Disk	40.00							Tractor
	Oct		Preirrigate		1.50	Water, District	10.00	ΑI	0.00	AF		Irrigators
	Oct		Soil Fertility	CST Soil Analysis (Surface)							3.00 Ac	
	Oct		Dust Control	Truck, 5 Ton w/1000 Gal Tank	100.00							Truck
	Nov		Apply Fert/Ground	60 Fertilizer Broadcaster,		11-48-00, Dry	300.00		330.00			Tractor
9	Nov	1.0	Apply Herbicide/Ground	150 Saddle Tk Sprayer, 2 Tk 8		Benefin	2.00		8.69			Tractor
9				Offset Disk, 18'	ı	Pronamide	2.00	Lb	26.27	Lb		
9				Section Harrow, 3 Section								
	Nov		List	100 Lister, 5 Bottom	4.00	London of a sold	40.00	_	500.40	0-		Tractor
	Nov	1.0	Shape Beds	100 Saddle Tk Sprayer, 2 Tk 8		Imidacloprid			588.40			Tractor
11		4.0	D	Bed Shaper, 6 Rw		Spreader-activator	1.60		13.50			- .
	Nov		Plant	100 Planter, Stanhay, 4 Row		Head Lettuce Sd	160.00	ın	0.60	ın		Tractor
	Nov	1.0	Set Sprinklers	60 Sprinkler Trailer	5.70							Tractor
13	Nov	10.0	Irrigate/Caa Cua		11.00	Water, District	0.00	۸.	0.00	۸.		Irrigators
	Nov		Irrigate/Sec Sys Remove Sprinklers	60 Sprinkler Trailer	5.70	water, District	0.00	ΑI	0.00	AF		Tractor
15	INOV	1.0	Remove Sprinklers	60 Sprinkler Trailer	5.70							Irrigators
	Nov	1.0	Make Ditches	Motor Grader, 12'	40.00							Tractor
	Dec		Field Scouting	CST Scout For Insects	40.00						10.00 Ac	Tractor
	Dec		Apply Insecticide/Air	CST Air Spray, 5 Gal Mix	9	Spinosad	6.00	07	609.67	Ga	4.75 Ac	
	Dec		Irrigate/Run Fertilizer	COT 7 iii Opray, o Car Wilx		Water, District	3.00		0.00			Irrigators
19	D 00	1.0	migato/rtairr ortingor			20-00-00, Amm. Nitrate,			155.00			mgatoro
	Dec	20	Thinning	CST Thinning	•	20 00 00,7	20.00	ou	100.00	• • • •	75.00 Ac	
	Dec		Cultivate	100 Sled Cultivator, 4Rw	4 00	20-00-00, Amm. Nitrate,	20.00	Ga	155.00	Tn		Tractor
21				Fertilizer Injector, 4 Row			, _5.55					 -
	Dec	1.0		High Clearance Sprayer, 18	60.00	Vinclozolin	2.00	Lb	24.59	Lb		Tractor
	Jan			High Clearance Sprayer, 18		Methomyl			48.94			Tractor
23			11.7	5		Cypermethrin			291.66			
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	ΑI	0.00	AF		Irrigators
26					2	20-00-00, Amm. Nitrate,	25.00	Ga	155.00	Tn		
	Feb		Hand Weeding	CST Hand Weeding							75.00 Ac	
	Mar			60 Border Disk, 6' Disk	40.00							Tractor
	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
		I	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, 2001COUNTY: YumaFARM: Western Arizona Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop ACRES: 1 Sandy-Loam 03/25/2001 CROP: Lettuce, Iceberg IRRIGATION SYSTEM: Flood Furrow SOIL: AREA: Yuma Valley North YIELD: 853 Ct/Acre PREVIOUS CROP-DATE: Wheat Winter

AREA:	Yuma Valley North	YIELD:	853 Ct/Ac	re			PREVI	JUS CRO	P:	vvneat	, Winter	DATE:		03/25/2	2001
	,						Month		Operation	n Perforr	ned				·
No.	Operation			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

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

				·		
ltem	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 GROW Paid Labor (including benefits) Tractor/Self Propelled Irrigation Other/ Contract	VING EXPENSES (inc	luding sales tax)		80.97 23.66 23.40	128.02	
Chemicals and Custom Applications Fertilizer Insecticide				143.60 207.40	350.99	
Farm Machinery and Vehicles Diesel Fuel Gasoline Repairs and Maintenance				39.58 13.15 65.98	118.71	
Irrigation Water (excluding labor) Water Assessment (See Note Below)	**				0.00	
Other Purchased Inputs & Seed/Transplants Other Services and Rentals				96.23 303.00	399.23	
TOT CASH HARVEST AND POST HARVEST		PARATION AND GROW	ING EXPENSES		996.95	
Custom Harvest/Post Harvest Cotton Ginning Crop Assessment Other Materials					1714.40 0.00 0.00 0.00	
TOT OPERATING OVERHEAD -> PICKUP US OPERATING INTEREST AT 10.0%		OST HARVEST EXPENS	SE		1714.40 13.17 30.03	
TOTAL CASH OPERATING EXPENSES RETURNS OVER CASH OPERATI	NG EXPENSES				\$2,754.55 \$367.73	

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 11B. Allocations of Ownership 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

	CASH COST BASI	IS (\$/ACRE) ==	TOTAL COST BAS	SIS (\$/ACRE)
Item	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$141.60 / Tn	\$3,122.28		\$3,122.28	
TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$2,754.55	\$367.73	\$2,754.55	\$367.73
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead (5.0% of Total Operating Exp.) General Farm Maintenance (3.0% of Total Operating Exp.)	11.56 137.73 82.64		11.56 137.73 82.64	
Total Cash Overhead Expenses	231.92		231.92	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles	2,986.47	\$135.81	2,986.47 58.56	\$135.81
Interest on Equity, Machinery and Vehicles			17.06	
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK	>	\$135.81	75.63	\$60.19
Land Cost / Rent or Lease Water Assessment **	550.00 31.00		550.00 31.00	
Total Land Costs RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK	581.00	(\$445.19)	581.00	(\$520.81)
Management Services (8% of Total Operation Expenses)			220.36	
TOTAL OWNERSHIP COST	812.92		1,108.91	
TOTAL COST RETURNS TO CAPITAL, MANAGEMENT AND RISK	\$3,567.47	(\$445.19)	\$3,863.46	
RETURNS TO RISK (PROFITS)			>>	(\$741.18)
Item	CASH COST BASI Income and Costs	S (\$/ACRE) Net Returns	TOTAL COST BAS Income and Costs	SIS (\$/ACRE) Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$124.92 \$36.87 \$161.79		\$124.92 \$50.29 \$175.21

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

	First		Hour	s *	Operati	na Costs	(\$/ACRE *)	Per Opera	ation		Tot. Cash		
No.	Month	Operation	Machine	Labor	Fuel/Rps.		ust/Serv. I		Total	Times	Expenses	Class	
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	Н	
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	EXPENSE	S (includes	s all times over)	:					2754.55	Т	

*NOTES: Machine and labor hours and operating cost are for one time over the designated acreage. The "Tot. Cash Expense" column and the "TOTAL CASH OPERATING EXPENSES" row include all operations, all times over. Classes are defined below. A water assessment charge of \$31.00 per Acre is included as an ownership cost in Table B.

Break-even Yield

OPERATING COST SUMMARY B	SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE)										
Land Preparation (L)	253.84	Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%			
Growing (G)	743.11	Yields		\$106.20	\$127.44	\$141.60	\$155.76	\$177.00	Break-even Price		
Harvest (H)	1,714.40										
Post Harvest (P)	0.00	- 25%	16.5	-689.64	-338.38	-104.21	129.96	481.22	147.90		
Marketing (M)	0.00	- 10%	19.8	-595.54	-174.03	106.97	387.98	809.49	136.21		
Operating Overhead (O)	43.20	Budgeted	22.0	-532.81	-64.47	247.76	559.99	1,028.33	130.36		
		+ 10%	24.3	-470.08	45.10	388.55	732.00	1,247.18	125.58		
Total (T)	\$2,754.55										

40.78

23.35

18.17

14.87

11.69

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

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

		Water			Operating Costs (\$/ACRE *)											
	Number	Applied	Total	Purchased	Fuel,	Oil	•	Ŭ		Óther						
Month *	Irrigations	(inches)	Labor (Hrs)	Water	and Re	pairs	Lab	or C	hemicals	Purchases	Services	Total				
DEC P			0.92			13.85	8.	.04				21.89				
JAN C	1.0	18.0	3.50			30.39	30.		141.35	96.23	3.00	301.51				
FEB C			1.88			17.26	18.				75.00	110.76				
MAR C	2.0	8.0	3.48			27.88	31.		38.27		150.00	247.99				
APR C	2.0	12.0	2.15			14.50	19.		119.06		75.00	228.52				
MAY C	2.0	12.0	1.53			8.75	14.		52.30		857.20	932.83				
JUN C			0.37			6.07	4.	.58			857.20	867.85				
Pickup Use						13.17						13.17				
	nterest at 10.0)									30.03	30.03				
Water Asses	ssment			**												
Total	7.0	50.0	13.81		1.3	1.87	128	04	350.98	96.23	2047.43	2754.55				
%	7.0	00.0	10.01			4.79		.65	12.74	3.49	74.33	100.00				
Total N Total P Total Labo Total Wat		247.2 183.1 13.8 50.0		Diesel F Unleade All Direc		1	4.4	Gal Gal M BTU	J							
EQUIPMEN	T REQUIREM	IENTS (per A	Acre)													
Bed Shar			20 Hr	Blade Scraper, 10		0.22				Disk Cult, 1 Rw						
	Spray Rig, 8		22 Hr	Fert. Side Dress U	-,	0.65				Broadcaster,	0.22 Hr					
	Injector, 3 Ro		51 Hr	Flexi-Planter - 4 U	nits	0.51				mplete System	0.22 Hr					
Lister, 5 I			15 Hr	Motor Grader, 12'		0.47			Offset Dis		0.45 Hr					
	ruck, 1/2 Ton		67 Hr	Saddle Tk Spraye		2.39				arrow, 3 Section	0.51 Hr					
	80 PTO HP		48 Hr	Tractor, 100 PTO		2.23			,	50 PTO HP	0.15 Hr					
	175 PTO HP,		67 Hr	Tractor, 235 Eng H	HP, Art.	0.30	Hr		Truck, 5 T	on w/1000 Gal	1.35 Hr					
V-Ripper	, <i>i</i> Snnk	0.	30 Hr													
	S REQUIREM															
10-34-00			00 Ga	11-52-00, Dry		300.00				Amm. Nitrate,	500.00 Lb					
	, URAN 32, Lo		00 Ga	Endosulfan		4.00			Esfenvalerate		6.00 Pt					
Imidaclop	oria	16.	00 Oz	Water, District		50.00	Al		vvatermelo	on Seed (Hyb)	3.00 Th					
LABOR REG	QUIREMENT		09 Hr	Tractor		9.23	Hr		Truck Driv	er	1.50 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 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			Equipment/ Custom Oper	Job Rate	Material Us	se and C	ost		- 5	Service Cost	Labor
No. Month	Times	Operation	HP Self-Prop./ Implement	Acre/Hr	Name	Appl	. Rat	te \$/Un	it	\$ / Unit	Туре
Dec	1.0	Rip	175 V-Ripper, 7 Shnk	3.00							Tractor
Dec		Disk	175 Offset Disk, 18'	6.00							Tractor
Dec	1.0	Laser Level	175 Blade Scraper, 10'	4.00							Tractor
			Laser, Complete System								
Jan		Soil Fertility	CST Soil Analysis (Surface)							3.00 Ac	
Jan		Apply Fert/Ground	80 Fertilizer Broadcaster,		11-52-00, Dry	300.00	Lb	273.33	Tn		Tractor
Jan		List	150 Lister, 5 Bottom	6.00							Tractor
Jan	1.0	Shape Beds	100 Bed Shaper, 4 Rw	0.75	Imidacloprid	16.00	Oz	588.40	Ga		Tractor
			Saddle Tk Sprayer, 2 Tk 8 Row								
Jan	1.0	Apply Herbicide/Ground	80 Directed Spray Rig, 8 Row	4.00	Endosulfan	2.00	Pt	33.17			Tractor
Jan	1.0	Plant	100 Flexi-Planter - 4 Units	1.75	Watermelon Seed	3.00		30.26			Tractor
			Fertilizer Injector, 3 Row		10-34-00, Lqd	7.00	Ga	263.33	Tn		
Jan		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	ΑI	0.00	ΑF		Irrigators
Jan		Knock Ditches	Motor Grader, 12'	40.00							Tractor
Jan		Cultivate	80 Dbl. Gang Disk Cult, 1 Rw	2.00							Tractor
Feb		Thinning	CST Thinning							75.00 Ac	
Mar		Apply Fert/Ground	80 Fert. Side Dress Unit, 4Row		20-00-00, Amm. Nitrate,						Tractor
Mar	1.0	Incorporate Herbicide	100 Dbl. Gang Disk Cult, 1 Rw Section Harrow, 3 Section	1.75	Endosulfan	2.00	Pt	33.17	Ga		Tractor
Mar	1.0	Hand Weeding	Saddle Tk Sprayer, 2 Tk 8 Row CST Hand Weeding							75.00 Ac	
Mar		Irrigate	CST Hand Weeding	3 00	Water, District	4.00	ΔΙ	0.00	ΛF		Irrigators
Mar		Turn Vines	CST Hand Weeding	0.20		4.00	Ai	0.00	Ai	75.00 Ac	
Apr		Irrigate/Run Fertilizer	corriana wooding		Water, District	8.00	ΑI	0.00	ΑF		Irrigators
, .p.	0				32-00-00, URAN 32,			170.80			94.010
Apr	3.0	Apply Insect./Ground	80 Saddle Tk Sprayer, 2 Tk 8		Esfenvalerate			140.69			Tractor
May		Harvest, Load & Haul	CST Harv/pack/haul				. •			80.00 Tn	
Jun		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, 2001COUNTY: YumaFARM:Western Arizona Vegetables WATER SOURCE: YCWUA TILLAGE: Double Crop CROP: Watermelons
AREA: Yuma Valley North ACRES: 1 Sandy-Loam 03/25/2001 IRRIGATION SYSTEM: Flood Furrow SOIL: VIEI D: 21.4 Tn/Acre PREVIOUS CROP Cotton Unland DATE:

AREA:	Yuma Valley North	YIELD:	21.4	Tn/Acre	Tn/Acre			OUS CRO	P:	Cotton	, Upland	DATE:		03/25/2001		
				Pinner												
No.	Operation			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:	D = Dravious Voor C = Cu	irront Voor	NI - NIo	ut Voor												

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

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

FARM: La Paz County COUNTY: La Paz WATER SOURCE: **CRIR** Irrigation Project TILLAGE: Conventional ACRES: IRRIGATION SYSTEM: Flood Furrow CROP: Dry Onions SOIL: Sandy-Loam 1.0 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 GRO	OWING EXPENSES (inclu	ıding sales tax)				
Paid Labor (including benefits)				40.00	83.67	
Tractor/Self Propelled				42.26 33.74		
Irrigation Other/ Contract				33.74 7.67		
				1.01	E0E 00	
Chemicals and Custom Applications Fertilizer				116.58	585.22	
Insecticide				270.42		
Herbicide				79.53		
Other Chemicals				118.69		
Farm Machinery and Vehicles					56.33	
Diesel Fuel				25.67	22.00	
Repairs and Maintenance				30.66		
Irrigation Water (excluding labor)					0.00	
Water Assessment (See Note Below	·) **					
Other Purchased Inputs &					3.00	
Other Services and Rentals				3.00		
TC	OTAL CASH LAND PREP	ARATION AND GROWIN	NG EXPENSES		728.22	
CASH HARVEST AND POST HARVES	T 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		
	OTAL HARVEST AND PO	IST HARVEST EXPENSE	Ē		1.03	
OPERATING OVERHEAD -> PICKUP L	JSE				13.69	
OPERATING INTEREST AT 10.0%					24.20	
TOTAL CASH OPERATING EXPENSES	3				\$767.13	
RETURNS OVER CASH OPERAT	TING 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

Item	CASH COST BASI	S (\$/ACRE) Net Returns	TOTAL COST BAS	SIS (\$/ACRE) Net Returns
TOTAL INCOME at \$95.00 / Tn TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$1,710.00 \$767.13	\$942.87	\$1,710.00 \$767.13	\$942.87
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead (5.0% of Total Operating Exp.) General Farm Maintenance (3.0% of Total Operating Exp.)	5.57 38.36 23.01		5.57 38.36 23.01	
Total Cash Overhead Expenses	66.94		66.94	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles	834.07	\$875.93	834.07 31.52 14.05	\$875.93
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK			45.58	\$830.35
Land Cost / Rent or Lease Water Assessment **	150.00 38.50		150.00 38.50	
Total Land Costs RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK	188.50	\$687.43	188.50	\$641.85
Management Services (8% of Total Operation Expenses)			61.37	
TOTAL OWNERSHIP COST	255.44		362.39	
TOTAL COST RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO RISK (PROFITS)	\$1,022.57 >	\$687.43	\$1,129.52	\$580.48
Item	CASH COST BASI Income and Costs	S (\$/ACRE) Net Returns	TOTAL COST BAS Income and Costs	SIS (\$/ACRE) Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$42.62 \$14.19 \$56.81		\$42.62 \$20.13 \$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: IRRIGATION SYSTEM: Flood Furrow Sandy-Loam 1.0 SOIL: AREA: Parker CRIR YIELD: 18.0 Tn / Acre PREVIOUS CROP: Honeydew Melons DATE: 8/22/01

	First		Hour	s *	Operatii	ng Costs (\$/ACRE *)	Per Opera	ation		Tot. Cash		
No.	Month	Operation	Machine	Labor	Fuel/Rps.		ust/Serv. Í		Total	Times	Expenses	Class	
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	Н	
21	May	Harvest, Load & Haul								1.0		Н	
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	EXPENSE	S (includes	all times over):						767.13	Т	

*NOTES: Machine and labor hours and operating cost are for one time over the designated acreage. The "Tot. Cash Expense" column and the "TOTAL CASH OPERATING EXPENSES" row include all operations, all times over. Classes are defined below. A water assessment charge of \$38.50 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY CLASS
Land Preparation (L) 73.

 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% - 10%	13.5 16.2	208.73 400.95	401.11 631.80	529.36 785.70	657.61 939.60	849.98 1.170.45	55.79 46.50
Budgeted + 10%	18.0 19.8	529.10 657.25	785.60 939.40	956.60 1,127.50	1,127.60 1,315.60	1,384.10 1,597.75	41.86 38.06
Break-even Y	ïeld	10.57	8.81	7.92	7.20	6.34	

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

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

		Water			Operating Costs (\$/ACRE *)							
	Number	Applied	Total	Purchased	Fuel, Oi	·			Óther			
Month *	Irrigations	(inches)	Labor (Hrs)	Water	and Repai	irs La	or	Chemicals	Purchases	Services	Total	
JUL P			0.67		10.		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.		5.65	113.84		8.17	165.09	
NOV P	1.0	3.0	0.75				3.14	55.96		4.24	69.11	
DEC P	1.0	3.0	0.70				5.70				8.08	
JAN C	2.0	6.0	1.05				3.33				10.36	
FEB C	2.0	6.0	1.18				9.50	311.55		9.98	334.98	
MAR C	2.0	6.0	1.13				9.06	71.49		9.98	94.05	
APR C	2.0	6.0	0.85				3.57				7.16	
MAY C			0.17	ļ			1.46				4.45	
Pickup Use					13.	69					13.69	
	nterest at 10.0									24.20	24.20	
Water Asses	ssment			**								
Total	11.0	33.0	10.27		70.6	31 8	4.11	552.84		59.57	767.13	
%	11.0	33.0	10.27		9.2		0.96	72.07		7.77	100.00	
Total P Total Labo Total Wate		212.0 10.3 33.0		Unleaded All Direct		5.0 4.5	Gal M B	TU				
FOUIPMEN	T REQUIREM	IENTS (ner A	Acre)									
Bed Shar		(1	18 Hr	Cultivator, Sweep,	4 Rw	0.45 Hr		Directed S	pray Rig. 8	0.45 Hr		
Drag Scr			45 Hr	Fertilizer Injector, 4		0.60 Hr			nplete System	0.45 Hr		
Lister, 5 B		0.	22 Hr	Offset Disk, 10.5'		0.09 Hr		Offset Disl		0.05 Hr		
Offset Dis	sk, 16.5'	0.	15 Hr	Offset Disk, 18'		0.30 Hr		Pickup Tru	ick, 1/2 Ton	1.67 Hr		
Planter/G	Gramor, 4 Bd,6	0.	90 Hr	Rowbuck, 10'		0.09 Hr		Tractor, 8	0 PTO HP	0.18 Hr		
Tractor, 1	100 PTO HP	0.	05 Hr	Tractor, 100 PTO F	IP,	2.80 Hr		Tractor, 15	50 PTO HP	0.45 Hr		
Tractor, 2	200 PTO HP, 4	1WD 0.	90 Hr	V-Ripper, 5 Shnk		0.45 Hr						
	REQUIREM											
10-53-00			00 Lb	32-00-00, URAN 32	2, Lqd	60.00 Ga		Bromoxyn		1.00 Pt		
Chlorotha			00 Pt	DCPA		10.00 Lb		Mancozeb		2.40 Ga		
Permethr			50 Lb	Processing Onions		20.50 Lb		Sulfur		35.00 Lb		
Surfactant	(spreader)	0.	30 Pt	Water, District		33.00 AI						
LABOR REC	QUIREMENT	(per Acre)										
Irrigators		4.	40 Hr	Other		1.00 Hr		Tractor		4.87 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.

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

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

First		Equipment/ Custom Oper	Job Rate	Material Use a	and Co	ost		S	ervice Cost	Labor
No. Month	Times Operation	HP Self-Prop./ Implement	Acre/Hr	Name	Appl.	Rat	e \$/Un	it	\$ / Unit	Types
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' Laser, Complete System	2.00							Tractor
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). Drv 40	00.00	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 Proces	sing Onions	2.50	Lb	0.00	Lb		Tractor Other
Oct	1.0 Apply Herbicide/Ground	100 Directed Spray Rig. 8	4.00 DCPA	1	10.00	Lb	6.18	Lb		Tractor
Oct	11.0 Irrigate	3, ·	2.50 Water,	District	3.00	Αl	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	Mancoze	eb	2.40	Ga	16.40	Ga	4.24 Ac	
			Surfacta	nt (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 Bromox	kynil	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 32-00-0	00, URAN 32, 3	30.00		170.80	Tn		Tractor
Feb	2.0 Apply Fungicide/Air	CST Air Spray, 7 Gal Mix	Chloroth		2.00		59.00		5.23 Ac	
				nt (spreader)	0.10		16.40			
Feb	1.0 Apply Insecticide/Air	CST Air Spray, 5 Gal Mix	Permeth		15.50		16.17		4.75 Ac	
Mar	1.0 Apply Fungicide/Air	CST Air Spray, 5 Gal Mix	Sulfur	3	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		ing Onions 1	18.00	Lb	0.00	Lb	0.00	
May	1.0 Disk Residue Pickup use 50 Mi/Ac	200 Offset Disk, 16.5' Pickup Truck, 1/2 Ton	6.00 0.60							Tractor

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

Table 12F OperationsCalendar; Dry Onions (Processing), 2001COUNTY: La PazFARM: Western Arizona VegetablesW. WATER SOURCE: TILLAGE: CRIR Conventional CROP: Onions, Dry AREA: Parker CRIR ACRES: 1 Sandy-Loam 03/25/2001 IRRIGATION SYSTEM: Flood Furrow SOIL: YIELD: 18 Tn/Acre PREVIOUS CROP: Wheat DATE:

ANLA.	FAIREI CRIR TILLD. 10 TII/A		Month and Times Operation Performed									03/23/	
No.	Operation	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				
ļ	Soil Fertility									1 P			
5	Apply Fert/Ground										1 P		
3	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

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

Item	Unit	Quantity	Price/	Budgeted	Total	Your Farm
			Unit	/Acre	/Acre	Budget
INCOME -> Melons	Crtn	237.00	\$6.98	\$1,654.26	\$1,654.26	
CASH LAND PREPARATION AND GROV	WING EXPENSES (inc	cluding sales tax)			04.40	
Paid Labor (including benefits) Tractor/Self Propelled				47.11	91.10	
Irrigation				40.92		
Other/ Contract				3.07		
Chemicals and Custom Applications					304.31	
Fertilizer				104.98	001.01	
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) Water Assessment (See Note Below)	**				0.00	
Other Purchased Inputs &					189.04	
Seed/Transplants				15.04	109.04	
Other Services and Rentals				174.00		
	-VI CV6H I VND DDL	PARATION AND GROWII	IC EVDENCES		637.02	
CASH HARVEST AND POST HARVEST		FARATION AND GROW!	NG EXPENSES		037.02	
Custom Harvest/Post Harvest					367.35	
TO1	AL HARVEST AND P	OST HARVEST EXPENS	E		367.35	
OPERATING OVERHEAD -> PICKUP US	SE .				13.69	
OPERATING INTEREST AT 10.0%	-				5.29	
TOTAL CASH OPERATING EXPENSES					\$1,023.35	
RETURNS OVER CASH OPERATI	NG 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

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

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

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

	First		Hour	s *	Operation	ng Costs	(\$/ACRE *)	Per Opera	ition		Tot. Cash		
No.	Month	Operation	Machine	Labor	Fuel/Rps.	Labor C	ust/Serv.	Materials	Total	Times	Expenses	Class	
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	Н	
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	EXPENSE	S (include:	s all times over):						1023.35	Т	

*NOTES: Machine and labor hours and operating cost are for one time over the designated acreage. The "Tot. Cash Expense" column and the "TOTAL CASH OPERATING EXPENSES" row include all operations, all times over. Classes are defined below. A water assessment charge of \$19.25 per Acre is included as an ownership cost in Table B.

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 ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	/
Yields		\$5.24	\$6.28	\$6.98	\$7.68		Break-even Price
- 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

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

		Water					Operati	ng Costs (\$/A				
	Number	Applied	Total	Purchased	Fuel, Oil				Other			
Month *	Irrigations	(inches)	Labor (Hrs)	Water	and Repairs	3	Labor	Chemicals	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	
	50 Mi/Acre				13.69	9					13.69	
	nterest at 10.0)								5.29	5.29	
Water Asses	ssment			**								
Total	8.0	40.0	11.11		66.26		91.10	295.83	15.04	555.12	1023.35	
%	0.0	10.0			6.47		8.90	28.91	1.47	54.25	100.00	
	SOURCE REC		S (per Acre)		RGY REQUIR		**	,				
Total N		158.2		Diesel Fu		27						
Total P		126.0		Unleaded			.0 Ga					
Total K		15.0		All Direct	Energy	4	.4 M I	BTU				
Total Labo		11.1										
Total Wat	er	40.0										
EQUIPMEN	IT REQUIREM	MENTS (per A	Acre)									
Bed Shar	per, 4 Rw	·· 0.	36 Hr	Cultivator, Sweep,	4 Rw	2.02 H	r	Directed S	Spray Rig, 8	0.18 Hr		
Drag Scr	aper, 14'	0.	45 Hr	Fertilizer Broadcas	ter,	0.18 H	r		njector, 4 Row	0.26 Hr		
Laser, Co	omplete Syste	m 0.	45 Hr	Lister, 5 Bottom		0.22 H	r	Offset Dis	k, 13.5'	0.00 Hr		
Offset Dis	sk, 18'	0.	48 Hr	Pickup Truck, 1/2 T	- Ton	1.67 H	r	Planter, D	rill Type, 4 Row	0.36 Hr		
Rowbuck	r, 10'	0.	23 Hr	Saddle Tk Sprayer	, 2 Tk 8	0.22 H	r	Tractor, 3	5 PTO HP	0.60 Hr		
Tractor,	50 PTO HP,	0.	63 Hr	Tractor, 70 PTO H	P,	2.02 H	r	Tractor, 10	00 PTO HP,	1.02 Hr		
Tractor, 2	200 PTO HP, 4	4WD 1.	15 Hr	V-Ripper, 5 Shnk		0.22 H	r					
MATERIALS	S REQUIREM	ENT (per Acı	re)									
10-10-05	, Lqd	30.	00 Ga	11-48-00, Dry	20	0.00 L	b	32-00-00,	URAN 32, Lqd	30.00 Ga		
Abamecti	in	10.	00 Oz	Bensulide	1	10.00 P	t	Bifenthrin		10.00 Oz		
Cantalou	pe Sd	1.	50 Lb	Endosulfan		2.00 P	t	Imidaclopi	rid	5.00 Oz		
Water, Di	istrict	40.	00 AI					·				
LABOR REC	QUIREMENT	(per Acre)										
Irrigators		5.	34 Hr	Other		0.40 H	r	Tractor		5.37 Hr		

^{*}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.

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

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

First	T:	On sustinu	Equipment/ Custom Oper	Job Rate		Use and C				Service Cost	Labor
o. Month	limes	Operation	HP Self-Prop./ Implement	Acre/Hr	Name	Аррі	. Kat	e \$/Ur	IJŢ	\$ / Unit	Туре
Jun		Rip	200 V-Ripper, 5 Shnk	4.00							Tractor
Jun		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
			Bed Shaper, 4 Rw								Other
Jul	1.0	Apply Herbicide/Ground	50 Saddle Tk Sprayer, 2 Tk 8	4.00	Bensulide	10.00	Pt	42.58	Ga		Tractor
Jul	1.0	Apply Insect./Ground	50 Directed Spray Rig, 8 Row	5.00	Imidacloprid	5.00	Oz	588.40	Ga		Tractor
Jul	5.0	Buck Rows	50 Rowbuck, 10'	20.00							Tractor
Jul	7.0	Irrigate		1.50	Water, District	5.00	ΑI	0.00	ΑF		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	ΑI	0.00	ΑF		Irrigators
				;	32-00-00, URAN 32,	30.00	Ga	170.80	Tn		
Jul	1.0	Thinning	CST Thinning							75.00 Ac	
Aug	2.0	Apply Insecticide/Air	CST Air Spray, 3 Gal Mix		Bifenthrin			490.00		4.24 Ac	
					Endosulfan	1.00					
				,	Abamectin	5.00	Oz	732.91	Ga		
Aug		Hand Weeding	CST Hand Weeding							75.00 Ac	
Aug		Apply Fert/Ground	100 Fertilizer Injector, 4 Row	3.50	10-10-05, Lqd	30.00	Ga	251.33	Tn		Tractor
Aug		Pollinate	CST Bee Hive Rental							15.00 Ac	
Sep		Harvest	CST Harv/pack/haul Melons							1.55 Ct	
Sep		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, 2001COUNTY: La Paz FARM: Western Arizona Vegetables TILLAGE: WATER SOURCE: CRIR Double Crop ACRES: 1 Sandy-Loam 03/25/2001 CROP: Cantaloupe IRRIGATION SYSTEM: Flood Furrow SOIL: AREA: Parker YIELD: 237 DATE: Ct/Acre PREVIOUS CROP: Cantaloupe

AKEA.	Falkel FIELD. 231	Cl/Acie			1 1\LV	UUS CRU	Г.	Caritai	oupe		DATE.		03/23/2	.001
						Month	and Times	S Operation	n Perforr	ned				
No.	Operation		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

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

lton	I In:i4	On antifer	Drice'	Dudante d	Total	Vous Form
Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
						9
INCOME -> Lettuce	Crtn	823.00	\$5.26	\$4,328.98	\$4,328.98	
CASH LAND PREPARATION AND GROW	VING EXPENSES (inc	luding 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 Herbicide				106.86 18.42		
Other Chemicals				0.36		
Farm Machinery and Vehicles					39.36	
Diesel Fuel				17.80	33.00	
Repairs and Maintenance				21.57		
Irrigation Water (excluding labor)					0.00	
Water Assessment (See Note Below) *	· ×					
Other Purchased Inputs &				101 = 0	335.86	
Seed/Transplants Other Services and Rentals				101.76 234.10		
	VI CV6H I VND DDE.	PARATION AND GROWII	VIC EVDENCES	2J4. IU	728.11	
CASH HARVEST AND POST HARVEST		FARATION AND GROW!	ING EVLENOE9		720.11	
Paid Labor (including benefits)					2.19	
Tractor/Self Propelled				2.19	۷. ۱۶	
Farm Machinery and Vehicles					4.72	
Diesel Fuel				2.22	7.12	
Repairs and Maintenance				2.50		
Custom Harvest/Post Harvest					1975.20	
TOT	AL HARVEST AND P	OST HARVEST EXPENS	E		1982.11	
OPERATING OVERHEAD -> PICKUP US	E				13.69	
OPERATING INTEREST AT 10.0%					174.91	
TOTAL CASH OPERATING EXPENSES					\$2,898.81	
RETURNS OVER CASH OPERATIN	NG EXPENSES				\$1,430.17	
		5				

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 14B. Allocations of Ownership 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

Item	CASH COST BASI	S (\$/ACRE) Net Returns	TOTAL COST BAS Income and Costs	IS (\$/ACRE) Net Returns
TOTAL INCOME at \$5.26 / Ct TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$4,328.98 \$2,898.81	\$1,430.17	\$4,328.98 \$2,898.81	\$1,430.17
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead (5.0%of Total Operating Exp.) General Farm Maintenance (3.0% of Total Operating Exp.)	4.64 144.94 86.96		4.64 144.94 86.96	
Total Cash Overhead Expenses	236.55		236.55	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles	3,135.36	\$1,193.62	3,135.36 26.07	\$1,193.62
Interest on Equity, Machinery and Vehicles			11.68	
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK	>	\$1,193.62	37.75	\$1,155.87
Land Cost / Rent or Lease Water Assessment **	150.00 38.50		150.00 38.50	
Total Land Costs RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK			188.50	\$967.37
Management Services (8% of Total Operation Expenses)			231.91	
TOTAL OWNERSHIP COST	425.05		694.71	
TOTAL COST RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO RISK (PROFITS)	\$3,323.86 >	\$1,005.12	\$3,593.52 >	\$735.46
Item	CASH COST BASIS	S (\$/ACRE) Net Returns	TOTAL COST BASI Income and Costs	S (\$/ACRE) Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$3.52 \$0.52 \$4.04		\$3.52 \$0.84 \$4.37

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

FARM: LaPaz County COUNTY: La Paz 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

	First		Hours	s *	Operatii	ng Costs	(\$/ACRE *	Per Oper	ation		Tot. Cash		
No.	Month	Operation	Machine	Labor	Fuel/Rps.		ust/Serv.		Total	Times	Expenses	Class	
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	Н	
25	Jan	Residue Disposal 823 Ct	0.225	0.250	4.72	2.19			6.91	1.0	6.91	Р	
		Pickup Use 50 Mi/Acre	1.667		13.69						13.69		
		Operating Interest at 10.0					174.91				174.91		
		TOTAL CASH OPERATING	EXPENSE	S (include	। s all times over):						2898.81	Т	

*NOTES: Machine and labor hours and operating cost are for one time over the designated acreage. The "Tot. Cash Expense" column and the "TOTAL CASH OPERATING EXPENSES" row include all operations, all times over. Classes are defined below. A water assessment charge of \$38.50 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMAR	RY BY CLASS	SENSITIVI"	TY OF THE	NET REV	ENUES OVE	ER TOTAL C	ASH EXPEN	ISES (\$/AC	RE)
Land Preparation (L)	149.30	Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Growing (G)	578.81	Yields		\$3.95	\$4.73	\$5.26	\$5.79	\$6.58	Break-even Price
Harvest (H)	1,975.20								.
Post Harvest (P)	6.91	- 25%	617.3	64.72	551.73	876.41	1,201.08	1,688.09	3.84
Marketing (M)	0.00	- 10%	740.7	254.42	838.83	1,228.44	1,618.05	2,202.46	3.60
Operating Overhead (O)	188.59	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
Total (T)	\$2,898.81								
		Break-even \	∕ield	575.13	380.01	309.91	261.65	212.10	

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

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

		Water					Operati	ng Costs (\$/A	CRE *)		
	Number	Applied	Total	Purchased	Fuel, O				Other		
Month *	Irrigations	(inches)	Labor (Hrs)	Water	and Repa	airs	Labor	Chemicals	Purchases	Services	Total
AUG C SEP C	1.0	12.0	1.21 1.27			.41	10.58 10.38	68.90		3.00	30.99 86.68
OCT C NOV C	1.0 2.0	6.0 12.0	3.55 0.90		9	.85 .01	28.49 7.45	24.81 121.29	101.76	85.34	164.91 217.09
DEC C JAN N	2.0	12.0	0.65 0.25		1	.70 .72	5.26 2.19	66.72		154.75 1975.20	228.43 1982.11
Pickup Use Operating Ir	nterest at 10.0		0.20	•		.69	2.10			174.91	13.69 174.91
Water Asses	ssment			**							
Total %	6.0	42.0	7.83		57. 1.	78 99	64.35 2.22		101.76 3.51	2393.20 82.56	2898.81 100.00
TOTAL RES Total N Total P Total Labo Total Wate		UIREMENTS 221.8 225.0 7.8 42.0	S (per Acre)	TOTAL ENE Diesel Fi Unleade All Direc	uel d Gas	2	21.8 Ga 5.0 Ga	ĺ			
	T REQUIREM										
Bed Shar			45 Hr	Directed Spray Rig		0.18		Drag Scra		0.26 Hr	
Fertilizer Lister, 7 f	Broadcaster,		18 Hr 22 Hr	High Clearance Sp Offset Disk, 10.5'	orayer,	0.18 0.11		Laser, Cor Offset Dis	mplete System	0.26 Hr 0.67 Hr	
,	ruck, 1/2 Ton		22 FI 67 Hr	Planter, Stanhay, 4	1 Row	0.11		Rowbuck.	,	0.07 Hr	
	ivator. 4Rw		45 Hr	Sprinkler Trailer	r I COV	0.32		,	0 PTO HP,	0.32 Hr	
Tractor,	50 PTO HP,	0.	41 Hr	Tractor, 70 PTO F	ŀP,	0.63		Tractor, 10	00 PTO HP,	0.45 Hr	
Tractor, 1	150 PTO HP,	0.	22 Hr	Tractor, 200 PTO I	HP, 4WD	1.31	Hr	V-Ripper,	5 Shnk	0.38 Hr	
MATERIALS	REQUIREM	ENT (per Acr	re)								
	, Treble Super		00 Lb	33-00-00, Amm. N	itrate,	64.00		Abamectir		10.00 Oz	
Benefin			00 Pt	BT		2.00		Head Lett		160.00 Th	
Methomy			00 Pt	Permethrin		24.40	Uz	Spreader-	activator	3.20 Oz	
Water, Di			00 AI								
LABOR REG Irrigators	QUIREMENT	,	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

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

First			Equipment/ Custom Oper	Job Rate						Service Cost	
No. Month	Times	Operation	HP Self-Prop./ Implement	Acre/Hr	Name	Appl	. Rat	e \$/Uı	it	\$ / Unit	Туре
Aug		Disk	200 Offset Disk, 18'	4.00							Tractor
Aug		Rip	200 V-Ripper, 5 Shnk	2.38							Tractor
Aug	1.0	Laser Level	200 Drag Scraper, 14'	3.50							Tractor
			Laser, Complete System								
Sep		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	ΑI	0.00	ΑF		Irrigators
Sep		Soil Fertility	CST Soil Analysis (Surface)							3.00 Ac	
Sep		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	2.00	Head Lettuce Sd	160.00	Th	0.60	Th		Tractor
			Planter, Stanhay, 4 Row								
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
											Irrigators
Oct	1.0	Irrigate/Sec Sys		1.00	Water, District	6.00	ΑI	0.00	AF		Irrigators
					Permethrin	6.40	Oz	120.50	Ga		-
Oct	1.0	Bird Control	CST Bird Control							6.10 Hr	
Nov	1.0	Remove Sprinklers	40 Sprinkler Trailer	5.71							Tractor
											Irrigators
Nov	1.0	Apply Insect./Ground	High Clearance Sprayer, 18	10.00	Abamectin	10.00	Oz	550.00	Ga		Tractor
Nov	4.0	Irrigate/Run Fertilizer		5.00	Water, District	6.00	ΑI	0.00	AF		Irrigators
		-		;	33-00-00, Amm. Nitrate,	16.00	Ga	270.00	Tn		
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	1	Methomyl	1.00	Pt	48.94	Ga	4.24 Ac	
				l	Permethrin	6.00	Oz	120.50	Ga		
				l	BT .	2.00	Lb	0.96	Lb		
				;	Spreader-activator	1.60	Oz	13.50	Ga		
Dec	2.0	Hand Weeding	CST Hand Weeding		•					75.00 Ac	
Dec	1.0	Apply Insecticide/Air	CST Air Spray, 5 Gal Mix	ı	Methomyl	1.00	Pt	48.94	Ga	4.75 Ac	
		: : :		l	Permethrin	12.00	Oz	120.50	Ga		
				;	Spreader-activator	1.60	Oz	13.50	Ga		
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 OperationsCalendar; Fall Lettuce, 2001COUNTY: La PazFARM: Western Arizona Vegetables WATER SOURCE: CRIR TILLAGE: Double Crop ACRES: 1 YIELD: 823 Sandy-Loam 03/25/2001 IRRIGATION SYSTEM: CROP: Lettuce, Iceberg Flood Furrow SOIL: ARFA: Parker PREVIOUS CROP-DATE: Ct/Acre Honeydew Melons

AREA:	Parker YIELD: 823	3 Ct/Acı	·e		PREV	IOUS CRC			dew Melo		DATE:		03/25/	2001
							and Times			ned				
No.	Operation		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Disk									2 C				
2	Rip									1 C				
3	Laser Level									1 C				
4	List										1 C			
5	Buck Rows										3 C	2 C		
3	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 Y	ear N = N	ext Year											

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

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

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

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
			UIIIL	ACIE	Acre	Buuget
INCOME -> Melons	Crtn	514.00	\$3.33	\$1,711.62	\$1,711.62	
CASH LAND PREPARATION AND GRO	WING EXPENSES (inc	:luding sales tax)				
Paid Labor (including benefits)	באו בוזטבט (וווכ	amig calco tan)			91.10	
Tractor/Self Propelled				47.11	30	
Irrigation				40.92		
Other/ Contract				3.07		
Chemicals and Custom Applications					304.31	
Fertilizer				104.98	004.01	
Insecticide				142.91		
Herbicide				56.42		
Farm Machinery and Vehicles					52.28	
Diesel Fuel				24.95	JZ.Z0	
Repairs and Maintenance				27.33		
Irrigation Water (excluding labor)				0	0.00	
Water Assessment (See Note Below)	; **				0.00	
,	•				000.00	
Other Purchased Inputs & Seed/Transplants				32.23	206.23	
Other Services and Rentals				32.23 174.00		
	TAL 040111 4515 555	DADATION AND ODG!!!!	NO EVERNOSO	174.00	050.00	
		PARATION AND GROWII	NG EXPENSES		653.92	
CASH HARVEST AND POST HARVEST	EXPENSES					
Custom Harvest/Post Harvest					773.45	
ТО	TAL HARVEST AND P	OST HARVEST EXPENS	E		773.45	
OPERATING OVERHEAD -> PICKUP U	SE				13.69	
OPERATING INTEREST AT 10.0%					5.49	
TOTAL CASH OPERATING EXPENSES	;				\$1,446.55	
RETURNS OVER CASH OPERAT					\$265.07	
					Ψ200.01	

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 BASI	S (\$/ACRE) Net Returns	TOTAL COST BAS	SIS (\$/ACRE) Net Returns
TOTAL INCOME at \$3.33 / Ct TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$1,711.62 \$1,446.55	\$265.07	\$1,711.62 \$1,446.55	\$265.07
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead (5.0% of Total Operating Exp.) General Farm Maintenance (3.0% of Total Operating Exp.)	4.98 72.33 43.40		4.98 72.33 43.40	
Total Cash Overhead Expenses Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles	120.71 1,567.26	\$144.36	120.71 1,567.26 28.25 10.17	\$144.36
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK			38.42	\$105.94
Land Cost / Rent or Lease Water Assessment **	150.00 19.25		150.00 19.25	
Total Land Costs RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK	169.25	(\$24.89)	169.25	(\$63.31)
Management Services (8% of Total Operation Expenses)			115.72	
TOTAL OWNERSHIP COST	289.96		444.10	
TOTAL COST RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO RISK (PROFITS)	\$1,736.51 >	(\$24.89)	\$1,890.65 >	(\$179.03)
Item	CASH COST BASI	S (\$/ACRE) Net Returns	TOTAL COST BAS Income and Costs	IS (\$/ACRE) Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$2.81 \$0.56 \$3.38		\$2.81 \$0.86 \$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: IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam 1.0 AREA: Parker CRIR YIELD: 514.0 Ct / Acre PREVIOUS CROP: Cantaloupes DATE: 8/22/01

	First	<u> </u>	Hour	s *	Operatii	ng Costs	(\$/ACRE *)	Per Opera	ition		Tot. Cash		
No.	Month	Operation	Machine	Labor	Fuel/Rps.	Labor C	ust/Serv.	Materials	Total	Times	Expenses	Class	
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	Н	
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	EXPENSE	S (include:	। s all times over):						1446.55	Т	

*NOTES: Machine and labor hours and operating cost are for one time over the designated acreage. The "Tot. Cash Expense" column and the "TOTAL CASH OPERATING EXPENSES" row include all operations, all times over. Classes are defined below. A water assessment charge of \$19.25 per Acre is included as an ownership cost in Table B.

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 OF THE NET REVENUES OF THE NET REVENUES OF THE NET REVENUES OF T

(L)	80.91
	573.01
	773.45
	0.00
	0.00
d (O)	19.18
	,

Total (T) \$1,446.55

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

Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	,
Yields		\$2.50	\$3.00	\$3.33	\$3.66	\$4.16	Break-even Price
- 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

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

		Water					Onera	ting Co	sts (\$/A	CRF *)			
	Number	Applied	Total	Purchased	Fuel, Oil		Opera	ung Co	οιο (Φ/ Α	Other			
Month *	Irrigations	(inches)	Labor (Hrs)	Water	and Repair		Labor	Chei	micals	Purchases	Services	Total	
						_							
JUN C			1.53		21.1		13.46		34.98		3.00	72.62	
JUL C	4.0	20.0	4.77		14.4		38.44		110.82	32.23	81.00	276.91	
AUG C	4.0	20.0	3.85		8.2		30.87		95.00		94.24	228.37	
SEP C	50 Mi/Acre		0.95		8.4 13.6		8.33	i	55.03		777.69	849.47 13.69	
	nterest at 10.0	,			13.0	9					5.49	5.49	
Water Asse		,		**							5.49	5.49	
Water Asses	SSITIETIL												
Total	8.0	40.0	11.11		65.9		91.10		295.83	32.23	961.42	1446.55	
%					4.50	3	6.30	0	20.45	2.23	66.46	100.00	_
TOTAL RES	SOURCE REC	NUREMENT	S (ner Acre)	TOTAL ENE	RGY RECUIE	PEMENI.	TS (ner l	Δcre)					
Total N	DOUNGE NEG	158.2	o (per Acre)	Diesel Fu			7.1 G						
Total P		126.0		Unleaded			7.1 G						
Total K		15.0		All Direct				BTU					
Total Lab	or	11.1		All Direct	Lifelgy		T.T IVI	ы					
Total Wat		40.0											
FOLUDIALN	T REQUIREM	MENITO (non /	\ oro\										
	oer, 4 Rw	\1	36 Hr	Cultivator, Sweep,	4 Dw	2.02	⊔r	D	irootod C	pray Rig, 8	0.18 Hr		
Drag Scr			45 Hr	Fertilizer Broadcas		0.18				njector, 4 Row	0.16 Hr		
	omplete Syste		45 Hr	Lister, 5 Bottom	tci,	0.10			ffset Disk		0.00 Hr		
Offset Di			48 Hr	Pickup Truck, 1/2	Γοη	1.67				rill Type, 4 Row	0.36 Hr		
Rowbuck	,		23 Hr	Saddle Tk Sprayer		0.22				5 PTO HP	0.60 Hr		
	50 PTO HP,		63 Hr	Tractor, 70 PTO H		2.02				0 PTO HP.	1.02 Hr		
	200 PTO HP, 4		15 Hr	V-Ripper, 5 Shnk	,	0.22			,	,			
MATERIALS	S REQUIREM	ENT (per Ac	re)										
10-10-05			00 Ga	11-48-00, Dry	2	00.00	Lb	32	2-00-00.	URAN 32, Lqd	30.00 Ga		
Abamect	· •	10.	00 Oz	Bensulide		10.00	Pt		ifenthrin	, 1	10.00 Oz		
Endosulfa	an	2.	00 Pt	Honeydew Seeds		1.50	Th	In	nidaclopri	id	5.00 Oz		
Water, D	istrict	40.	00 AI	•					·				
LABOR REG	QUIREMENT	(per Acre)											
Irrigators			34 Hr	Other		0.40	Hr	T	ractor		5.37 Hr		

^{*}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

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

First		Equipment/ Custom Oper	Job Rate	Material	Use and C	ost		- :	Service Cost	Labor
No. Month 1	Times Operation	HP Self-Prop./ Implement	Acre/Hr	Name	Appl.	. Rat	te \$/Ur	nit	\$ / Unit	Туре
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' 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 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	ΑI	0.00	ΑF		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		Water, District 32-00-00, URAN 32,	5.00 30.00		0.00 170.80			Irrigators
Jul	1.0 Thinning	CST Thinning							75.00 Ac	
Aug	2.0 Apply Insecticide/Air	CST Air Spray, 3 Gal Mix	[Bifenthrin	5.00	Oz	490.00	Ga	4.24 Ac	
· ·	• • •		[Endosulfan	1.00	Pt	33.17	Ga		
			1	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, 2001COUNTY: La Paz FARM: Western Arizona Vegetables TILLAGE: WATER SOURCE: CRIR Double Crop CROP: Honeydews AREA: Parker ACRES: 1 Sandy-Loam 03/25/2001 IRRIGATION SYSTEM: Flood Furrow SOIL: YIELD: 499 Ct/Acre PREVIOUS CROP: Cantaloupe DATE:

ANLA.	Faikei HELD. 499 CVA	OC		1 1 L V I	003 CR0		Caritai			DATE.		03/23/2	.001
					Month a	and Times	s Operation	n Perforr	ned				
No.	Operation	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

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

Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Crtn	625.00	\$6.98	\$4,362.50	\$4,362.50	
CASH LAND PREPARATION AND GRO Paid Labor (including benefits)	WING EXPENSES (inc	luding sales tax)			94.45	
Tractor/Self Propelled				41.51	94.40	
Iractor/Self Propelled Irrigation				41.51 46.04		
Other/ Contract				6.90		
				0.90		
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	2	
Repairs and Maintenance				26.53		
Irrigation Water (excluding labor)					0.00	
Water Assessment (See Note Below)	**				0.00	
,	•					
Other Purchased Inputs &					188.06	
Seed/Transplants				20.06		
Other Services and Rentals				168.00		
TO	TAL CASH LAND PRE	PARATION AND GROWIN	NG EXPENSES		559.92	
CASH HARVEST AND POST HARVEST	EXPENSES					
Custom Harvest/Post Harvest					968.75	
	TAL HADVEST AND DO	OST HARVEST EXPENSI	=		968.75	
		OUT HAILVEST EAFEINS	_			
OPERATING OVERHEAD -> PICKUP US OPERATING INTEREST AT 10.0%	9E				13.69 13.46	
OFERATING INTEREST AT 10.0%					13.40	
TOTAL CASH OPERATING EXPENSES))-				\$1,555.82	
RETURNS OVER CASH OPERAT	ING EXPENSES				\$2,806.68	
					, ,	

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

Item	CASH COST BASI	S (\$/ACRE) Net Returns	TOTAL COST BAS	SIS (\$/ACRE) 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 General and Office Overhead (5.0%of Total Operating Exp.)	4.83 77.79		4.83 77.79	
General Farm Maintenance (3.0% of Total Operating Exp.)			46.67	
Total Cash Overhead Expenses	129.30		129.30	
Total Cash Operating and Overhead Cost	1,685.11	#0.077.00	1,685.11	Ф2 C77 20
RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity)		\$2,677.39		\$2,677.39
Capital Replacement, Machinery and Vehicles			27.50	
Interest on Equity, Machinery and Vehicles			10.05	
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK	_	¢2 677 30	37.56	
RETURNS TO LAND, MANAGEMENT AND RISK		φ2,077.39 	>	\$2,639.83
Land Cost / Rent or Lease	150.00		150.00	
Water Assessment **	19.25		19.25	
Total Land Costs RETURNS TO CAPITAL, MANAGEMENT AND RISK	169.25	\$2,508.14	169.25	
RETURNS TO CAPITAL, MANAGEMENT AND RISK	·	φ2,500.14	>	\$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 RETURNS TO RISK (PROFITS)		\$2,508.14	>	\$2,346.12
TETOTION TO MON (I NOT ITO)				ψ2,0π0.12
	CASH COST BASIS	S (\$/ACRE)	TOTAL COST BAS	ils (\$/ACRE)
Item	Income and Costs	Net Returns	Income and Costs	Net Returns
PDEAK EVEN PRIOR TO COVER OPERATING COST (PER)				
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$2.49 \$0.48		\$2.49 \$0.74
BREAK-EVEN PRICE TO COVER TOTAL COST		\$2.97		\$3.23

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

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

	First		Hour	s *	Operati	ng Costs	(\$/ACRE *)	Per Opera	tion		Tot. Cash		
No.	Month	Operation	Machine	Labor	Fuel/Rps.	Labor C	ust/Serv.	Materials	Total	Times	Expenses	Class	
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	Н	
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	EXPENSE	S (includes	s all times over):						1555.82	Т	

*NOTES: Machine and labor hours and operating cost are for one time over the designated acreage. The "Tot. Cash Expense" column and the "TOTAL CASH OPERATING EXPENSES" row include all operations, all times over. Classes are defined below. A water assessment charge of \$19.25 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMAR	RY BY CLASS	SENSITIVITY	Y OF THE I	NET REVE	NUES OVER	R TOTAL CAS	SH EXPENS	ES (\$/ACR	E)
Land Preparation (L)	78.68	Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Growing (G)	481.24	Yields		\$5.24	\$6.28	\$6.98	\$7.68	\$8.73	Break-even Price
Harvest (H)	968.75								
Post Harvest (P)	0.00	- 25%	468.8	994.24	1,485.02	1,812.21	2,139.40	2,630.18	3.11
Marketing (M)	0.00	- 10%	562.5	1,339.71	1,928.65	2,321.27	2,713.90	3,302.83	2.85
Operating Overhead (O)	27.15	Budgeted	625.0	1,570.02	2,224.40	2,660.65	3,096.90	3,751.27	2.72
		+ 10%	687.5	1,800.33	2,520.15	3,000.02	3,479.90	4,199.71	2.62
Total (T)	\$1,555.82	+ 25%	781.3	2,145.80	2,963.77	3,509.08	4,054.40	4,872.37	2.49
		Break-even	/ield	198.94	154.92	135.01	119.63	102.17	

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

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

		Water										
	Number	Applied	Total	Purchased	Fuel, Oil	٠,		g Costs (\$/A	Other			
Month *	Irrigations	(inches)	Labor (Hrs)	Water	and Repairs	. La	bor	Chemicals	Purchases	Services	Total	
FEB C			2.03		23.00) 1	7.29	52.47		3.00	95.76	
MAR C	3.0	18.0	4.11		15.04		3.42	63.83	20.06	0.00	132.35	
APR C	3.0	18.0	3.04		7.66		4.43	79.93	_0.00	174.50	286.52	
MAY C	3.0	18.0	2.25		1.55		7.54	15.91		489.13	524.13	
JUN C			0.20		3.78	3	1.75			484.38	489.91	
Pickup Use	50 Mi/Acre			•	13.69)					13.69	
Operating In	nterest at 10.0)								13.46	13.46	
Water Asses	ssment			**								
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 RES	SOURCE REQ	UIREMENT:	S (per Acre)	TOTAL ENE Diesel F	RGY REQUIRE	EMENTS (26.6	per Acr Gal	re)				
Total P		206.2		Unleade		5.0	Gal					
Total K		31.1			t Energy	4.3	M BT	ΓIJ				
Total Labo	or	11.6		7 2 00				. •				
Total Water		54.0										
EQUIPMEN	T REQUIREM	IENTS (per A	Acre)									
Bed Shap		**	36 Hr	Cultivator, Sweep,	4 Rw	1.57 Hr		Drag Scra	per, 10'	0.45 Hr		
Fertilizer	Broadcaster,	0.	18 Hr	Fertilizer Injector,	4 Row	0.51 Hr		Laser, Co	mplete System	0.45 Hr		
Lister, 5 E			22 Hr	Offset Disk, 18'		0.48 Hr			uck, 1/2 Ton	1.67 Hr		
Planter, D	Orill Type, 4 Ro	ow 0.	36 Hr	Rowbuck, 10'		0.02 Hr		Tractor, 5	60 PTO HP,	0.02 Hr		
	70 PTO HP,		57 Hr	Tractor, 100 PTO	HP,	1.28 Hr		Tractor, 20	00 PTO HP, 4W	D 1.38 Hr		
V-Ripper,	, 5 Shnk	0.	45 Hr									
	S REQUIREM											
11-48-00	, ,		00 Lb	15-08-04, Lqd		'0.00 Ga		Cantaloup	e Sd	2.00 Lb		
Endosulfa			00 Pt	Esfenvalerate		1.00 Pt		Sulfur		0.25 Lb		
Water, Di	istrict	54.	00 AI									
	QUIREMENT											
Irrigators		6.	00 Hr	Other		0.90 Hr		Tractor		4.73 Hr		

^{*}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 1	Times Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acre/Hr	Mater Name	ial Use and C Appl		te \$ / Uı		Service Cost \$ / Unit	Labor Type
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' Laser, Complete System	2.00							Tractor 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 Bed Shaper, 4 Rw	2.50	Cantaloupe Sd	2.00	Lb	9.46	Lb		Tractor Other
Mar	1.0 Buck Rows	50 Rowbuck, 10'	40.00							Tractor
Mar	9.0 Irrigate		1.50	Water, District	6.00	ΑI	0.00	ΑF		Irrigators
Mar	7.0 Cultivate	70 Cultivator, Sweep, 4 Rw	4.00							Tractor
Mar	2.0 Apply Fert/Ground	100 Fertilizer Injector, 4 Row	3.50	15-08-04, Lqd	35.00	Ga	310.00	Tn		Tractor
Apr	2.0 Apply Insecticide/Air	CST Air Spray, 5 Gal Mix		Esfenvalerate Endosulfan	0.50 1.50		140.69 33.17	Ga Ga	4.75 Ac	
Apr	1.0 Apply Fungicide/Air	CST Air Spray, 5 Gal Mix	9	Sulfur	0.25	Lb	0.69	Lb	4.75 Ac	
Apr	2.0 Hand Weeding	CST Hand Weeding							75.00 Ac	
Apr	1.0 Pollinate	CST Bee Hive Rental							15.00 Ac	
May	1.0 Harvest	CST Harv/pack/haul Melons							1.55 Ct	
May	1.0 Disk Residue Pickup use 50 Mi/Ac	200 Offset Disk, 18' Pickup Truck, 1/2 Ton	5.00 0.60							Tractor

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

Table 16F Operations Calendar; Spring Cantaloupe, 2001

COUNT CROP: AREA:	Y: La Paz Cantaloupes Parker	FARM: ACRES: YIELD:	rn Arizona V Ct/Acre	egetable	S	IRRIG	R SOURC ATION SY OUS CRC	STEM:		Furrow , Upland		TILLAO SOIL: DATE:		Double Sandy- 03/25/2	-Loam
							Month	and Times	S Operation	on Perforr	ned				
No.	Operation			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/A	ir						1 C	1 C						
13	Apply Fungicide/Ai	r					1 C								
14	Hand Weeding						2 C								
15	Pollinate						1 C								
16	Harvest							.5 C	.5 C						
17	Disk Residue								1.0						

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

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

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

ltem	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 GR Paid Labor (including benefits) Tractor/Self Propelled Irrigation Other/ Contract	OWING EXPENSES (incl	uding sales tax)		86.09 23.66 23.63	133.38	
Chemicals and Custom Applications Fertilizer Insecticide	i			143.60 309.92	453.52	
Farm Machinery and Vehicles Diesel Fuel Gasoline Repairs and Maintenance Irrigation Water (excluding labor) Water Assessment (See Note Below	ı) **			42.73 14.13 59.54	0.00	
Other Purchased Inputs & Seed/Transplants Other Services and Rentals				96.23 303.00	399.23	
TO CASH HARVEST AND POST HARVES	OTAL CASH LAND PREP ST EXPENSES	ARATION AND GROWI	NG EXPENSES		1102.52	
Paid Labor (including benefits) Tractor/Self Propelled				1.46	1.46	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				1.48 1.67	3.15	
OPERATING OVERHEAD -> PICKUP	OTAL HARVEST AND PC USE	ST HARVEST EXPENS	iΕ		1096.00 1100.61 13.69	
OPERATING INTEREST AT 10.0% TOTAL CASH OPERATING EXPENSE RETURNS OVER CASH OPERA					33.65 \$2,250.47 (\$251.07)	

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 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

ltem	CASH COST BASI Income and Costs	S (\$/ACRE) Net Returns	TOTAL COST BAS Income and Costs	SIS (\$/ACRE) Net Returns
TOTAL INCOME at \$141.60 / Tn TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$1,999.39 \$2,250.47	(\$251.07)	\$1,999.39 \$2,250.47	(\$251.07)
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead (5.0% of Total Operating Exp.) General Farm Maintenance (3.0% of Total Operating Exp.)	12.31 112.52 67.51		12.31 112.52 67.51	
Total Cash Overhead Expenses	192.35		192.35	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES CAPITAL ALLOCATIONS (100% Equity)	2,442.81	(\$443.42)	2,442.81	(\$443.42)
Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles			60.75 17.46	
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK			78.21	(\$521.63)
Land Cost / Rent or Lease Water Assessment **	150.00 19.25		150.00 19.25	
Total Land Costs RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK			169.25	(\$690.88)
Management Services (8% of Total Operation Expenses)			180.04	
TOTAL OWNERSHIP COST	361.60		619.85	
TOTAL COST RETURNS TO CAPITAL, MANAGEMENT AND RISK	\$2,612.06	(\$612.67)	\$2,870.31	(0070.00)
RETURNS TO RISK (PROFITS)	CASH COST BASI		TOTAL COST BAS	(\$870.92) SIS (\$/ACRE)
Item	Income and Costs	Net Returns	Income and Costs	Net Returns
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$159.38 \$25.61 \$184.99		\$159.38 \$43.90 \$203.28

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

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

	First		Hour	s *	Operati	ng Costs	(\$/ACRE *)	Per Opera	ation		Tot. Cash		
No.	Month	Operation	Machine	Labor	Fuel/Rps.		ust/Serv. Í		Total	Times	Expenses	Class	
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		77.97	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	Н	
24	Jun	Residue Disposal 13.7 Tn	0.150	0.167	3.15	1.46			4.61	1.0	4.61	Р	
		Pickup Use 50 Mi/Acre	1.667		13.69						13.69		
		Operating Interest at 10.0					33.65				33.65		
		TOTAL CASH OPERATING	EXPENSE	S (include	s 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 SUM	MARY BY CLASS	SENSITIVIT	TY OF THE	NET REVE	ENUES OVI	ER TOTAL CA	ASH EXPEN	SES (\$/AC	RE)
Land Preparation (L)	251.43	Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Growing (G)	851.09	Yields		\$106.20	\$127.44	\$141.60	\$155.76	\$177.00	Break-even Price
Harvest (H)	1,096.00								
Post Harvest (P)	4.61	- 25%	10.6	-967.00	-742.07	-592.12	-442.16	-217.23	197.51
Marketing (M)	0.00	- 10%	12.7	-907.16	-637.25	-457.30	-277.35	-7.44	177.59
Operating Overhead	(O) 47.34	Budgeted	14.1	-867.27	-567.36	-367.42	-167.48	132.43	167.62
		+ 10%	15.5	-827.38	-497.48	-277.54	-57.61	272.29	159.47
Total (T)	\$2,250.47								
		Break-even Y	ïeld	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

		Water			Operating Costs (\$/ACRE *)											
Month *	Number Irrigations	Applied (inches)	Total Labor (Hrs)	Purchased Water	Fuel, Oil and Repairs	, I	abor	Chemicals	Other Purchases	Services	Total					
Month	rigutions	()		Trutor	and Ropans			5.1011110413	. 410114003	23, 7,000	70101					
DEC P			0.75		12.2	1	6.58				18.79					
JAN C	1.0	18.0	3.41		31.8	7	29.83	132.56	96.23	3.00	293.49					
FEB C			1.88		16.0		18.54			75.00	109.55					
MAR C	2.0	8.0	4.23		28.6		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		10.4		16.82	89.58		548.00	664.84					
JUN C			0.37	ļ	6.50		4.61			548.00	559.11					
	50 Mi/Acre				13.69	9					13.69					
	nterest at 10.0			**						33.65	33.65					
Water Asses	ssment			^^												
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 N Total P Total Labo Total Wat		247.2 183.1 14.6 50.0		Diesel Fu Unleaded All Direct	d Gas	48.1 14.4 8.5	Gal									
EQUIPMEN	T REQUIREM	ENTS (per A	Acre)													
	per, 4 Rw		20 Hr	Dbl. Gang Disk Cu	lt, 1 Rw	3.21 Hr		Directed S	Spray Rig, 8	0.22 Hr						
Drag Scr	aper, 14'		22 Hr	Fert. Side Dress U	-,	0.65 Hr			Broadcaster,	0.22 Hr						
	Injector, 3 Rov		51 Hr	Flexi-Planter - 4 Ur	nits	0.51 Hr			mplete System	0.22 Hr						
Lister, 5 I			15 Hr	Motor Grader, 12'		0.47 Hr		Offset Dis		0.45 Hr						
	ruck, 1/2 Ton		67 Hr	Saddle Tk Sprayer		2.55 Hr			arrow, 3 Section	0.51 Hr						
,	80 PTO HP,		18 Hr	Tractor, 150 PTO F	1P,	1.35 Hr		Tractor, 20	00 PTO HP, 4WE	0.98 Hr						
	Ton w/1000 G		35 Hr	V-Ripper, 5 Shnk		0.30 Hr										
	S REQUIREMI															
10-34-00			00 Ga	11-52-00, Dry	30	00.00 Lb			Amm. Nitrate,	500.00 Lb						
	, URAN 32, Lo		00 Ga	Endosulfan		1.20 Lb		Esfenvale		12.00 Pt						
Imidaclop	oria	16.	00 Oz	Water, District		50.00 AI		vvatermelo	on Seed (Hyb)	3.00 Th						
	QUIREMENT (
Irrigators		3.	09 Hr	Tractor		9.98 Hr		Truck Driv	er	1.50 Hr						

^{*}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			Equipment/ Custom Oper	Job Rate	Material U	se and C	ost		-	Service Cost	Labor
lo. Month	Times	Operation	HP Self-Prop./ Implement	Acre/Hr	Name	Appl	. Rat	te \$/Ur	nit	\$ / Unit	Туре
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		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	ΑI	0.00	ΑF		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 Section Harrow. 3 Section	1.75							Tractor
Mar	1 0	Hand Weeding	CST Hand Weeding							75.00 Ac	
Mar		Irrigate	CC. Hand Weeding	3 00	Water, District	4.00	ΑI	0.00	ΑF		Irrigators
Mar		Turn Vines	CST Hand Weeding	0.20	Trator, Diotriot	7.00	, vi	0.00	, vi	75.00 Ac	migatoro
Apr		Irrigate/Run Fertilizer	CC. Hand Weeding		Water, District	8.00	ΔΙ	0.00	ΔF		Irrigators
, (þi	2.0	inigato/rtail r citilizer			32-00-00, URAN 32,			170.80			iiigatois
May	1.0	Harvest	CST Harv/pack/haul		52 55 66, 610 ft 62,	10.00	Ju	. , 0.00		80.00 Tn	
Jun		Residue Disposal	200 Offset Disk, 18'	6.00							Tractor
oun		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 17F Operations Calendar; Spring Watermelons, 2001COUNTY: La PazFARM: Western Arizona VegetablesWATER SOURCE: CRIR TILLAGE: Double Crop CROP: Watermelons ACRES: 1 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam ARFA: Parker YIELD: 13.77 Tn/Acre PREVIOUS CROP: Cotton Unland 03/25/2001 DATE:

AREA:	Parker YIELD: 13.77	I n/Acre	· •									03/25/2		
		-				Month a	and Times	Operatio	n Perforn	ned				
No.	Operation	,	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Rip													1 P
2	Disk	1	1 C											1 P
3	Laser Level													1 P
4	Soil Fertility	1	1 C											
5	Apply Fert/Ground	1	1 C											
6	List	1	1 C											
7	Bed Shaping/Admire			1 C										
8	Plant	1	1 C											
9	Make Ditches	1	1 C	1 C	1 C	2 C	2 C							
10	Dust Control	1	10 C	30 C	30 C	30 C	30 C	30 C						
11	Irrigate	1	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

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

14	11-:4	0	Duic a /	D. dastad	Total	Vour Earne
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 GR	OWING EXPENSES (incl	uding sales tax)				
Paid Labor (including benefits)	CONTROL OF LINOLO (IIIC	amig outoo tunj			62.18	
Tractor/Self Propelled				32.08	52.10	
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	211.00	
Repairs and Maintenance				18.92		
Other Purchased Inputs &					335.86	
Seed/Transplants				101.76	555.00	
Other Services and Rentals				234.10		
т	TOTAL CASH LAND PREF	PARATION AND GROWIN	NG EXPENSES		1005.02	
CASH HARVEST AND POST HARVES		2				
Paid Labor (including benefits)					2.19	
Tractor/Self Propelled				2.19		
Farm Machinery and Vehicles					4.35	
Diesel Fuel				1.94	7.00	
Repairs and Maintenance				2.40		
Custom Harvest/Post Harvest					2047.20	
	TOTAL HARVEST AND PO	OST HARVEST EXPENSE	Ξ		2053.74	
OPERATING OVERHEAD -> PICKUP			*		13.69	
OPERATING OVERTICAL PROPERTIES OPERATING INTEREST AT 10.0%					185.03	
TOTAL CASH OPERATING EXPENSE	:Q				\$3,257.49	
						
RETURNS OVER CASH OPERA	TING EXPENSES				\$1,071.49	

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 ILLAGE: Conventional RRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salome/Wenden YIELD: 823.0 Ct / Acre PREVIOUS CROP: Honeydew Melons DATE: 8/22/01

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

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

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

First Hours * Operating Costs (\$/ACRE *) Per Operation Tot. Cash													
No.	Month	Operation	Machine	Labor	Fuel/Rps.		ust/Serv.		Total	Times	Expenses	Class	
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	Н	
25	Jan	Residue Disposal 853 Ct	0.225	0.250	4.35	2.19			6.54	1.0	6.54	Р	
		Pickup Use 50 Mi/Acre	1.667		13.69						13.69		
		Operating Interest at 10.0					185.03				185.03		
		TOTAL CASH OPERATING	EXPENSE	S (include:	s all times over)						3257.49	Т	

*NOTES: Machine and labor hours and operating cost are for one time over the designated acreage. The "Tot. Cash Expense" column and the "TOTAL CASH OPERATING EXPENSES" row include all operations, all times over. Classes are defined below.

OPERATING COST SUMMARY	/ BY CLASS	SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE)								
Land Preparation (L)	149.14	Prices ->		- 25%	- 10%	Budgeted	+ 10%	+ 25%		
Growing (G)	855.89	Yields		\$3.95	\$4.73	\$5.26	\$5.79	\$6.58	Break-even Price	
Harvest (H)	2,047.20									
Post Harvest (P)	6.54	- 25%	617.3	-265.91	221.10	545.77	870.44	1,357.45	4.38	
Marketing (M)	0.00	- 10%	740.7	-86.96	497.45	887.06	1,276.67	1,861.08	4.06	
Operating Overhead (O)	198.72	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	
Total (T)	\$3,257.49									
		Break-even Y	'ield	800.69	518.48	419.83	352.72	284.51		

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

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

		Water				O	perating	Costs (\$/A	CRE *)			
Month *	Number Irrigations	Applied (inches)	Total Labor (Hrs)	Purchased Water	Fuel, O and Repa	il		Chemicals	Other Purchases	Services	Total	
	1.0 1.0 2.0 2.0 50 Mi/Acre nterest at 10.0	12.0 6.0 12.0 12.0	1.21 1.27 2.67 1.77 0.65 0.25		83 48 82 80 4	3.56 3.87 2	0.58 0.39 11.59 4.36 5.26 2.19	68.90 24.81 121.29 66.72	101.76	3.00 85.34 154.75 2047.20 185.03	30.83 165.85 197.03 303.72 307.59 2053.74 13.69 185.03	
Total %	6.0	42.0	7.83		334.3 10.2		64.37 1.98	281.72 8.65	101.76 3.12	2475.32 75.99	3257.49 100.00	
TOTAL RES Total N Total P Total Lab Total Wat		221.8 225.0 7.8 42.0	S (per Acre)	TOTAL ENE Diesel F Unleade Electric / All Direc	uel d Gas ' Pumping	IREMENTS 21.5 5.0 2986.7 13.9	Gal Gal KWH	,				
Bed Shap Fertilizer Lister, 7 I Pickup Ti Sled Cult Tractor,	ruck, 1/2 Ton tivator, 4Rw 50 PTO HP, 150 PTO HP,	0.4 0.7 0.2 1.6 0.4 0.2	Acre) 45 Hr 18 Hr 22 Hr 67 Hr 45 Hr 41 Hr 22 Hr 38 Hr	Directed Spray Rig High Clearance Sp Offset Disk, 10.5' Planter, Stanhay, 4 Sprinkler Trailer Tractor, 70 PTO F Tractor, 175 PTO	orayer, 4 Row HP,	0.18 Hr 0.18 Hr 0.11 Hr 0.45 Hr 0.32 Hr 0.63 Hr 0.22 Hr		Offset Disk Rowbuck, Tractor, 40 Tractor, 10	nplete System k, 18' 10'	0.26 Hr 0.26 Hr 0.67 Hr 0.11 Hr 0.32 Hr 0.45 Hr 1.09 Hr		
		500.0 2.0 4.0	e) 00 Lb 00 Pt 00 Pt 00 Al	33-00-00, Amm. N BT Permethrin	itrate,	64.00 Ga 2.00 Lb 24.40 Oz		Abamectin Head Lettu Spreader-a	ıce Sd	10.00 Oz 160.00 Th 3.20 Oz		
LABOR REG	QUIREMENT	\	93 Hr	Tractor		3.91 Hr						

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

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

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

First		Equipment/ Custom Oper	Job Rate		Use and C				Service Cost	
No. Month	Times Operation	n HP Self-Prop./ Implement	Acre/Hr	Name	Appl.	Rate	\$/Ur	it	\$ / Unit	Туре
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'	3.50							Tractor
		Laser, Complete System								
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	ΑI	79.17	ΑF		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			00-45-00, Treble	500.00					Tractor
Oct	1.0 Plant	100 Bed Shaper, 4 Rw	2.00	Head Lettuce Sd	160.00	Th	0.60	Th		Tractor
_		Planter, Stanhay, 4 Row								_
Oct		Ground 70 Directed Spray Rig, 16 Row		Benefin	2.00	Pt	8.69	Ga		Tractor
Oct	1.0 Set Sprinklers	40 Sprinkler Trailer	5.71							Tractor
										Irrigators
Oct	1.0 Irrigate/Sec Sys			Water, Pump	6.00		79.17			Irrigators
0.1	40 5: 10 4 1	00T D: 10 1 1	ŀ	Permethrin	6.40	Oz	120.50	Ga	0.40.11	
Oct	1.0 Bird Control	CST Bird Control	4						6.10 Hr	
Nov	1.0 Remove Sprinkle	ers 40 Sprinkler Trailer	5.71							Tractor
	404 11 110		40.00	A1 (*	40.00	_		_		Irrigators
Nov	1.0 Apply Insect./Gr			Abamectin			550.00			Tractor
Nov	4.0 Irrigate/Run Fert	ilizer		Water, Pump	6.00		79.17			Irrigators
Nov	1.0. Apply Indept /Cr	aund High Classones Carover 10		33-00-00, Amm. Nitrate,			270.00			Tractor
Nov	1.0 Apply Insect./Gr	. , ,	10.00	Methomyl	2.00	Pι	48.94	Ga	75 00 Aa	
Nov Nov	1.0 Thinning 2.0 Cultivate	CST Thinning 70 Sled Cultivator, 4Rw	4.00						75.00 Ac	
Nov			4.00	Methomyl	1.00	Dŧ	48.94	00	4.24 Ac	Tractor
NOV	1.0 Apply Insecticide	e/Air CST Air Spray, 3 Gal Mix		,			120.50		4.24 AC	•
				Permethrin 3T	2.00		0.96			
					1.60		13.50			
Dec	2.0 Hand Weeding	CST Hand Weeding	`	Spreader-activator	1.00	UZ	13.50	Gd	75.00 Ac	
Dec	1.0 Apply Insecticide			Methomyl	1.00	Dŧ	48.94	Ga	4.75 Ac	
Dec	1.0 Apply insecticities	and Got All Splay, 5 Gai Wilk		Permethrin	12.00		120.50		4.73 AC	•
				Spreader-activator	1.60		13.50			
Jan	1.0 Harvest/Field Pa	ack CST Harv/pack/haul Lettuce	•	ppicauci-activatol	1.00	O2	13.50	Ga	2.40 Ct	•
Jan	1.0 Residue Disposa		4.00						2.40 CI	Tractor
Jail	Pickup use 50 M		0.60							Tractor
	i ickup use 50 ivi	ii/Ac Tickup Huck, I/2 Toll	0.00							

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

Table 18F Operations Calendar; Fall Lettuce, 2001COUNTY: La Paz FARM: Western Arizona Vegetables WATER SOURCE: McMullen/Valley Elec TILLAGE: Double Crop Sandy-Loam 03/25/2001 CROP: Lettuce, Iceberg ACRES: 1 IRRIGATION SYSTEM: Flood Furrow SOIL: DATE: AREA: Salome/Wenden YIELD: 853 Ct/Acre PREVIOUS CROP: Honeydew Melons

KEA:	REA: Salome/Wenden FIELD: 853 (;		FREVI	OUS CRO			dew ivielo		DATE		03/25/	2001
										ned				
0.	Operation		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Disk									2 C				
	Rip									1 C				
	Laser Level									1 C				
	List										1 C			
	Buck Rows										3 C	2 C		
	Preirrigate										1 C			
	Soil Fertility										1 C			
	Disk Ends											1 C	2 C	2 C
	Apply Fert/Ground										1 C			
)	Plant											1 C		
1	Apply Herbicide/Ground											1 C		
2	Set Sprinklers											1 C		
3	Irrigate/Sec Sys											1 C		
4	Bird Control											1 C		
5	Remove Sprinklers											1 C		
6	Apply Insect/Ground													1 C
7	Irrigate/Run Fertilizer												2 C	2 C
8	Apply Insect/Ground												1 C	
9	Thinning												1 C	
0	Cultivate												1 C	1 C
1	Apply Insecticide/Air													1 C
2	Hand Weeding													2 C
3	Apply Insecticide/Air													
	1 C													
4	Harvest/Field Pack	1 N												
5	Disk Residue		1 N											
NOTE		N = Ne												

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

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

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

14	11!4	O	Dei a a /	Duclarate d	Tetal	Vous Form
Item	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Melons	Crtn	237.00	\$7.02	\$1,663.74	\$1,663.74	
CASH LAND DEEDADATION AND ODG	JAVING EVDENOES (in al	uding calca tay)				
CASH LAND PREPARATION AND GRO Paid Labor (including benefits)	OMINO EVLENOES (IUC	iuuiiig sales lax)			101.61	
Tractor/Self Propelled				53.79	101.01	
Irrigation				40.92		
Other/ Contract				6.90		
Chemicals and Custom Applications					320.69	
Fertilizer				180.13	- y- - -	
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	645 t	
Irrigation Water (excluding labor)				205.05	316.67	
Pump Energy - Electric Repairs and Maintenance				295.05 21.62		
•				21.02		
Other Purchased Inputs &				05.07	268.07	
Seed/Transplants Other Services and Rentals				25.07 243.00		
)TAL OACUL AND DEED	VADATION AND SECTION	IO EVERNOSS	243.00	4004.00	
		PARATION AND GROWIN	NG EXPENSES		1064.23	
CASH HARVEST AND POST HARVES	I 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	
TC	OTAL HARVEST AND PO	OST HARVEST EXPENSE	트		372.88	
OPERATING OVERHEAD -> PICKUP L	JSE				13.69	
OPERATING INTEREST AT 10.0%					39.39	
TOTAL CASH OPERATING EXPENSES	3				\$1,490.19	
RETURNS OVER CASH OPERAT					\$173.55	
TETORING OVER CAGITOT ERA					ψ17 3.33	

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

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 Sandy-Loam SOIL: AREA: Salome/Wenden YIELD: 237.0 Ct / Acre PREVIOUS CROP: Wheat, Winter DATE: 11/1/01

	First		Hour	s *	Operatir	ng Costs	(\$/ACRE *)	Per Opera	tion		Tot. Cash		
No.	Month	Operation	Machine	Labor	Fuel/Rps.	Labor C	ust/Serv.	Materials	Total	Times	Expenses	Class	
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	Н	
22	Dec	Residue Disposal 237 Ct	0.180	0.200	3.78	1.75			5.53	1.0	5.53	Р	
		Pickup Use 50 Mi/Acre	1.667		13.69						13.69		
		Operating Interest at 10.0					39.39				39.39		
		TOTAL CASH OPERATING	EXPENSE	S (includes	all times over):						1490.19	Т	

*NOTES: Machine and labor hours and operating cost are for one time over the designated acreage. The "Tot. Cash Expense" column and the "TOTAL CASH OPERATING EXPENSES" row include all operations, all times over. Classes are defined below.

OPERATING COST SUMMARY BY CLASS

Land Preparation (L) 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)

OLIVOITIVI			INOLO OVI		COLLEXUE LING	$CC(\Psi/CC)$	'I \ L'
Prices ->		- 25%	- 10%	Budaeted	+ 10%	+ 25%	
Yields		\$5.26	\$6.32	\$7.02	\$7.72	\$8.77	Break-even Price
- 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	⁄ield	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

ANLA.	Salorne/ Went		LLD. 237	.0 Ct / Acie Fr	KEVIOOO OK	O1 . VVI	ical, vvi	illei	DATE.	1 1/ 1/0 1		
		Water				O	peratin	g Costs (\$/A	CRE *)			
Month *	Number Irrigations	Applied (inches)	Total Labor (Hrs)	Purchased Water	Fuel, Oi and Repa		bor	Chemicals	Other Purchases	Services	Total	
JUL C AUG C SEP C OCT C NOV C	3.0 3.0 2.0	18.0 18.0 12.0	2.78 4.19 3.19 2.21		29. 133. 127. 84.	22 : 14 :	23.87 34.09 25.75 17.91	108.89 117.75 89.81	25.07	3.00 244.24 183.67 183.67	164.83 310.13 486.94 286.01 183.67	
DEC C Pickup Use	50 Mi/Acre nterest at 10.0)	0.20		3. 13.	78 69	1.75			39.39	5.53 13.69 39.39	
Total %	8.0	48.0	12.57		391.3 26.2		03.37 6.94	316.45 21.24	25.07 1.68	653.97 43.89	1490.19 100.00	
TOTAL RES Total N Total P Total K Total Lab Total Wat		QUIREMENTS 149.6 206.2 31.1 12.6 48.0	S (per Acre)	Diesel F Unleade Electric		REMENTS 31.2 5.0 3413.3 16.6	Gal Gal KWH	I				
EQUIPMEN	IT REQUIREM	1ENTS (per A	Acre)									
Disk-List Fertilizer Offset Di Rowbuck	Injector, 4 Ro sk, 18' k, 10' 70 PTO HP,	0. w 0. 0. 0. 2.	36 Hr 22 Hr 51 Hr 48 Hr 18 Hr 02 Hr 45 Hr	Cultivator, Sweep Drag Scraper, 10' Laser, Complete S Pickup Truck, 1/2 Tandem Disk, 12' Tractor, 100 PTO	System Ton	2.02 Hr 0.45 Hr 0.45 Hr 1.67 Hr 0.16 Hr 1.50 Hr		Fertilizer E Lister, 5 B Planter, D Tractor, 5	Spray Rig, 8 Broadcaster, Bottom Irill Type, 4 Row 50 PTO HP, 00 PTO HP, 4WI	0.45 Hr 0.18 Hr 0.22 Hr 0.36 Hr 0.79 Hr 0.38 Hr		
MATERIALS 11-48-00 Bensulide Endosulf	ė	" 300. 10.	re) 00 Lb 00 Pt 25 Pt	15-08-04, Lqd Bifenthrin Imidacloprid		70.00 Ga 1.00 Oz 10.00 Oz		Benomyl Cantaloup Water, Pu		1.00 Lb 2.50 Lb 48.00 Al		
LABOR REG	QUIREMENT		34 Hr	Other		0.90 Hr		Tractor		6.33 Hr		

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

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

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

First		Equipment/ Custom Oper	Job Rate Materia	al Use and Cost	Service Cost Labor
No. Month	Times Operation	HP Self-Prop./ Implement	Acre/Hr Name	Appl. Rate \$ / Unit	\$ / Unit Type
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	Tractor
Jul	1.0 Apply Herbicide/Grou	nd 50 Directed Spray Rig, 8 Row	4.00 Bensulide	10.00 Pt 42.58 Ga	Tractor
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	Tractor
		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	Tractor
_		-	Imidacloprid	10.00 Oz 588.40 Ga	
Aug	8.0 Buck Rows	50 Rowbuck, 10'	40.00		Tractor
Aug	8.0 Irrigate		1.50 Water, Pump	6.00 AI 79.17 AF	Irrigators
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	Tractor
			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	Tractor
Sep	1.0 Thinning	CST Thinning			75.00 Ac
Sep	2.0 Hand Weeding	CST Hand Weeding			75.00 Ac
Sep	1.0 Pollinate	CST Bee Hive Rental			15.00 Ac
Sep	1.0 Apply Insecticide/Air	CST Air Spray, 3 Gal Mix	Benomyl	1.00 Lb 20.25 Lb	4.24 Ac
			Endosulfan	1.00 Pt 34.08 Ga	
Oct	1.0 Harvest	CST Harv/pack/haul Melons			1.55 Ct
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.

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Table 19F Operations Calendar; Fall Cantaloupe, 2001COUNTY: La Paz FARM: Western Arizona Vegetables WATER SOURCE: McMullen/Valley, Elect TILLAGE: Double Crop CROP: Cantaloupes Sandy-Loam 03/25/2001 ACRES: 1 IRRIGATION SYSTEM: Flood Furrow SOIL: ARFA: Salome/Wenden YIFI D: 237 PREVIOUS CROP-Wheat Winter DATF: Ct/Acre

AREA:	Salome/Wenden YIELD: 237 Ct/Ac				005 CR0			, winter		DATE		03/25/2	2001
					Month	and Times	S Operation	n Perforr	ned				
No.	Operation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Disk							2 C					
	Rip							1 C					
	Laser Level							1 C					
	Soil Fertility							1 C					
	Apply Fert/Ground							1 C					
	Apply Herbicide/Ground							1 C					
	Incorporate Herbicide							1 C					
	List							1 C					
)	Plant								1 C				
0	Apply Fert/Ground								1 C				
1	Buck Rows								3 C	3 C	2 C		
2	Irrigate								3 C	3 C	2 C		
3	Disk Ends									1 C	3 C	3 C	
4	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

			Pump	Pump Pump Case	Case		Overall	Well	Ownership Annual Cost of Pumping Irrigation Water	Annual	Cost of F	umpin	g Irrigatio	n Wate	_	TOTAL
Area	Energy	Price	ij	Rate	Diam Depth Pump	Depth	Pump	Cost	Cost *	Pump	Fixed		Variable Cost/AF	Sost/AF		COST
			(Ft)	(Ft) (GPM) (in)	(in)	(Ft) L	(Ft) Efficiency		(\$/Yr)	(AF)	/AF	Energy	Energy Repairs	Р Тах	Total	/AF
La Paz County																
MCMULLEN VALLEY	Diesel	0.80000 /Gal	450	1600	16	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	\$13.04 \$73.76	\$5.40		\$79.16 \$92.20	\$92.20
MCMULLEN VALLEY	Nat. Gas	Nat. Gas 0.42280 /Th	450	1600	16	1000	0.154	243641	27947	1273	\$21.95	\$21.95 \$41.96	\$6.27		\$48.23	\$48.23 \$70.18
BOUSE AREA	Diesel	0.80000 /Gal	380	2200	16	200	0.188	148429	14474	1750	\$8.27	\$8.27 \$39.23	\$5.29		\$44.52 \$52.79	\$52.79
BOUSE AREA	Electric	0.08661 /Kwh	380	2200	16	700	0.54	111923	9618	1750	\$5.50	\$5.50 \$62.41	\$4.56		\$66.97	\$72.47
BOUSE AREA	Nat. Gas	Nat. Gas 0.42239 /Th	380	2200	16	200	0.154	193219	19851	1750	\$11.34	\$11.34 \$35.40	\$5.29		\$40.69 \$52.04	\$52.04
Yuma County																
SOUTH YUMA MESA	Electric	Electric 0.09486 /Kwh	`	110 1500	16	16 400	0.54	58269	6121	6121 1485	\$4.12	\$4.12 \$19.79	\$1.32		\$21.11	\$25.23

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

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

Table A.3 Wage and Piece Rates

	2000	
Labor Group	Wage Rate	
Hand Weeders	\$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	' H
Windrower, Melons	\$6.62	/ Hr
Cutter & Packer	80.98	/ Box
Cutter/Wrapper/Packer	\$1.37	/ Box
Cutter/Watermelons	\$6.62	± \
Loader/Watermelons	\$6.62	± \
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	Rate
Apply Insecticide/Air	Air Spray, 5 Gal Mix	\$4.73 / Acre	Acre
Apply Insecticide/Air	Air Spray, 7 Gal Mix	\$5.23 /	Acre
Thinning	Thinning	\$75.00 /	Acre
Hand Weeding	Hand Weeding	\$75.00 / Acre	Acre
Harvest	Harvest Cauliflower	\$2.65 / Carton	Carton
Harvest	Harv/Load/Haul Broccoli	\$2.75 / Carton	Carton
Cut and Load	Cut & Load Melons	\$1.65 / Carton	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	/ 00:0\$	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

Code Yuma Cou 130 1140	Area Descripion	Description	Primary	Secondary	Total
Yuma Cou 130 1140					
130	Viima Coiinty (14) Property Tayes Vegetable Crons	s Vegetable Crops			
130 1140	own (sindoin(ti) fill	s, • egetable oleps			
1140	Yuma	Yuma	\$9.3805	\$3.5525	\$12.9330
	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	\$30.000			
203	North Gila Valley ID	\$26.0000			
704	Welton-Mohawk IDD	\$1.0000			
902	Unit B Irrigation O&M	\$1			
707 708	Unit B Irrigation-Contract Unit B Irrigation-Non Coop.	\$8.6800 \$1.0000			
LaPaz Cou	LaPaz County (15) Property Taxes	Si	Primary	Secondary	Total
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	Aguila 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		
0.0.404.00		055.00 / 5	A
0-0-12 LQD 7.5-26-0-8 LQD	0-0-12 LQD 7.5-26-0-8 LQD	\$55.00 / Tn	\$55.00 \$260.00
· · · · · · ·		\$260.00 / Tn	
00-45-00, TREBLE SUPER 00-52-00 LQD	00-45-00, TREBLE SUPER 00-52-00 LQD	\$317.50 / Tn \$317.00 / Tn	\$260.00 \$299.50
05-26-00-08 PHOSFURIC	05-26-00-08 PHOSFURIC	\$290.00 / Tn	\$299.00
10-34-00 LQD	10-34-00 LQD	\$266.40 / Tn	\$263.33
11-48-00 DRY	11-48-00 DRY	\$330.00 / Tn	\$330.00
11-52-00 DRY	11-52-00 DRY	\$284.00 / Tn	\$273.33
15-0-0-16 N-phuric ACID	15-0-0-16 N-phuric ACID	\$205.00 / Tn	\$205.00
15-15-15 DRY	15-15-15 DRY	\$320.00 / Tn	\$320.00
16-20-00 DRY	16-20-00 DRY	\$240.67 / Tn	\$250.50
16-20-00 LQD	16-20-00 LQD	\$220.00 / Tn	\$220.00
17-00-00 LQD, CAN 17	17-00-00 LQD, CAN 17	\$0.00 / Tn	\$175.00
18-46-00 DRY	18-46-00 DRY	\$275.00 / Tn	\$245.00
20-0-0-40 Nitro-Sul	20-0-0-40 Nitro-Sul	\$0.00 / Tn	\$280.00
20-00-00 Amm. NITRATE, DRY	20-00-00 Amm. NITRATE, DRY	\$0.00 / Tn	\$222.50
20-00-00 Amm. NITRATE, LQD	20-00-00 Amm. NITRATE, LQD	\$0.00 / Tn	\$155.00
21-00-00 Amm SULFATE	21-00-00 Amm SULFATE	\$0.00 / Tn	\$184.00
28-0-0-9 N-Phuric ACID	28-0-0-9 N-Phuric ACID	\$0.00 / Tn	\$240.00
32-00-00 URAN 32, LQD	32-00-00 URAN 32, LQD	\$173.00 / Tn	\$170.80
*	33-00-00 Amm. NITRATE, DRY	\$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		
	AATREV 4L 0.5 CAL	00.00 / / /	045.75
Atrazine	AATREX, 4L, 2.5 GAL	\$0.00 / Lb	
			\$15.75
Atrazine	AATREX, 80W, 5 LB	\$2.18 / Lb	\$2.98
Atrazine Benefin	AATREX, 80W, 5 LB BALAN, 1.5EC, 2.5 GAL	\$2.18 / Lb \$14.95 / Ga	\$2.98 \$8.69
Atrazine Benefin Dicamba	AATREX, 80W, 5 LB BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL	\$2.18 / Lb \$14.95 / Ga \$85.76 / Ga	\$2.98 \$8.69 \$97.06
Atrazine Benefin Dicamba Cyanazine	AATREX, 80W, 5 LB BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL	\$2.18 / Lb \$14.95 / Ga \$85.76 / Ga \$25.26 / Ga	\$2.98 \$8.69 \$97.06 \$31.25
Atrazine Benefin Dicamba Cyanazine Bromoxynil	AATREX, 80W, 5 LB BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL	\$2.18 / Lb \$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga	\$2.98 \$8.69 \$97.06 \$31.25 \$53.30
Atrazine Benefin Dicamba Cyanazine Bromoxynil Bromoxynil	AATREX, 80W, 5 LB BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL	\$2.18 / Lb \$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga	\$2.98 \$8.69 \$97.06 \$31.25 \$53.30 \$105.81
Atrazine Benefin Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn	AATREX, 80W, 5 LB BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL	\$2.18 / Lb \$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga	\$2.98 \$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63
Atrazine Benefin Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d	AATREX, 80W, 5 LB BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL	\$2.18 / Lb \$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga	\$2.98 \$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15
Atrazine Benefin Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor	AATREX, 80W, 5 LB BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL	\$2.18 / Lb \$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga	\$2.98 \$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50
Atrazine Benefin Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor	AATREX, 80W, 5 LB BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL	\$2.18 / Lb \$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga	\$2.98 \$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23
Atrazine Benefin Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC	AATREX, 80W, 5 LB BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL	\$2.18 / Lb \$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga	\$2.98 \$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09
Atrazine Benefin Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop	AATREX, 80W, 5 LB BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E)	\$2.18 / Lb \$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga	\$2.98 \$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00
Atrazine Benefin Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl	AATREX, 80W, 5 LB BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL	\$2.18 / Lb \$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga \$120.00 / Ga	\$2.98 \$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00 \$67.75
Atrazine Benefin Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl Pronamide	AATREX, 80W, 5 LB BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL KERB, 50W, 3LB	\$2.18 / Lb \$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga \$120.00 / Ga \$55.54 / Ga \$22.75 / Lb	\$2.98 \$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00 \$67.75 \$26.27
Atrazine Benefin Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl Pronamide MSMA	AATREX, 80W, 5 LB BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL KERB, 50W, 3LB BUENO 6	\$2.18 / Lb \$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga \$120.00 / Ga \$55.54 / Ga \$22.75 / Lb \$0.00 / Ga	\$2.98 \$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00 \$67.75 \$26.27 \$20.60
Atrazine Benefin Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl Pronamide	AATREX, 80W, 5 LB BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL KERB, 50W, 3LB	\$2.18 / Lb \$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga \$120.00 / Ga \$55.54 / Ga \$22.75 / Lb	\$2.98 \$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00 \$67.75 \$26.27 \$20.60 \$18.00
Atrazine Benefin Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl Pronamide MSMA MSMA	AATREX, 80W, 5 LB BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL KERB, 50W, 3LB BUENO 6 MSMA ANY BRAND, 6S, 5 GAL	\$2.18 / Lb \$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga \$120.00 / Ga \$55.54 / Ga \$22.75 / Lb \$0.00 / Ga \$18.33 / Ga	\$2.98 \$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00 \$67.75 \$26.27 \$20.60
Atrazine Benefin Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl Pronamide MSMA MSMA Bensulide	AATREX, 80W, 5 LB BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL KERB, 50W, 3LB BUENO 6 MSMA ANY BRAND, 6S, 5 GAL PREFAR, 4E, 5 GAL	\$2.18 / Lb \$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga \$120.00 / Ga \$55.54 / Ga \$22.75 / Lb \$0.00 / Ga \$18.33 / Ga \$38.12 / Ga	\$2.98 \$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00 \$67.75 \$26.27 \$20.60 \$18.00 \$42.58
Atrazine Benefin Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl Pronamide MSMA MSMA Bensulide Pendimethalin	AATREX, 80W, 5 LB BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL KERB, 50W, 3LB BUENO 6 MSMA ANY BRAND, 6S, 5 GAL PREFAR, 4E, 5 GAL PROWL, 4E, 5 GAL	\$2.18 / Lb \$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga \$120.00 / Ga \$55.54 / Ga \$22.75 / Lb \$0.00 / Ga \$18.33 / Ga \$38.12 / Ga \$27.52 / Ga	\$2.98 \$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00 \$67.75 \$26.27 \$20.60 \$18.00 \$42.58 \$22.23
Atrazine Benefin Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl Pronamide MSMA MSMA Bensulide Pendimethalin Pyritiodac-sodium	AATREX, 80W, 5 LB BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL KERB, 50W, 3LB BUENO 6 MSMA ANY BRAND, 6S, 5 GAL PREFAR, 4E, 5 GAL PROWL, 4E, 5 GAL STAPLE OZ.	\$2.18 / Lb \$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga \$120.00 / Ga \$55.54 / Ga \$22.75 / Lb \$0.00 / Ga \$33.12 / Ga \$38.12 / Ga \$27.52 / Ga \$23.00 / Oz	\$2.98 \$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00 \$67.75 \$26.27 \$20.60 \$18.00 \$42.58 \$22.23
Atrazine Benefin Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl Pronamide MSMA MSMA Bensulide Pendimethalin Pyritiodac-sodium Butylate	AATREX, 80W, 5 LB BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL KERB, 50W, 3LB BUENO 6 MSMA ANY BRAND, 6S, 5 GAL PREFAR, 4E, 5 GAL PROWL, 4E, 5 GAL STAPLE OZ. SUTAN+, 6.7E, 2.5 GAL	\$2.18 / Lb \$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga \$120.00 / Ga \$55.54 / Ga \$22.75 / Lb \$0.00 / Ga \$18.33 / Ga \$38.12 / Ga \$27.52 / Ga \$23.00 / Oz \$17.98 / Ga	\$2.98 \$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00 \$67.75 \$26.27 \$20.60 \$18.00 \$42.58 \$22.23 \$24.72 \$18.75
Atrazine Benefin Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl Pronamide MSMA MSMA Bensulide Pendimethalin Pyritiodac-sodium Butylate Trifluralin	AATREX, 80W, 5 LB BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL KERB, 50W, 3LB BUENO 6 MSMA ANY BRAND, 6S, 5 GAL PREFAR, 4E, 5 GAL PROWL, 4E, 5 GAL STAPLE OZ. SUTAN+, 6.7E, 2.5 GAL TREFLAN, 4E, 30 GAL	\$2.18 / Lb \$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga \$120.00 / Ga \$55.54 / Ga \$22.75 / Lb \$0.00 / Ga \$18.33 / Ga \$38.12 / Ga \$27.52 / Ga \$27.52 / Ga \$27.98 / Ga \$0.00 / Ga	\$2.98 \$8.69 \$97.06 \$31.25 \$53.30 \$105.30 \$15.15 \$65.23 \$34.09 \$125.00 \$67.75 \$26.27 \$20.60 \$18.00 \$42.58 \$22.23 \$24.72 \$18.75 \$24.95
Atrazine Benefin Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl Pronamide MSMA MSMA Bensulide Pendimethalin Pyritiodac-sodium Butylate Trifluralin Trifluralin	AATREX, 80W, 5 LB BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 2.5 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL KERB, 50W, 3LB BUENO 6 MSMA ANY BRAND, 6S, 5 GAL PREFAR, 4E, 5 GAL PROWL, 4E, 5 GAL STAPLE OZ. SUTAN+, 6.7E, 2.5 GAL TREFLAN, 4E, 30 GAL TREFLAN, 4E, 30 GAL TREFLAN, 4E, 2.5 GAL	\$2.18 / Lb \$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$67.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga \$120.00 / Ga \$55.54 / Ga \$22.75 / Lb \$0.00 / Ga \$18.33 / Ga \$38.12 / Ga \$27.52 / Ga \$27.52 / Ga \$27.52 / Ga \$27.59 / Ga	\$2.98 \$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$65.23 \$34.09 \$125.00 \$67.75 \$26.27 \$20.60 \$18.00 \$42.58 \$22.23 \$24.72 \$18.75 \$24.95 \$21.15
Atrazine Benefin Dicamba Cyanazine Bromoxynil Bromoxynil Prometryn 2,4-d Metolachlor Metolachlor EPTC Fluazifop Diclofop Methyl Pronamide MSMA MSMA Bensulide Pendimethalin Pyritiodac-sodium Butylate Trifluralin Trifluralin	AATREX, 80W, 5 LB BALAN, 1.5EC, 2.5 GAL BANVEL, 4E, 1 GAL BLADEX, 4L, 2.5 GAL BRONCO, 2.6/1.4L, 2.5 GAL BUCTRIL, 4E, 2,5 GAL CAPAROL, 4L, 2.5 GAL D - 2,4-D AMINE, 4E, 1 GAL DUAL, 8E, 30 GAL EPTAM, 7E, 5 GAL FUSILADE, 2000 (1E) HOELON, 3EC, 5 GAL KERB, 50W, 3LB BUENO 6 MSMA ANY BRAND, 6S, 5 GAL PREFAR, 4E, 5 GAL PROWL, 4E, 5 GAL STAPLE OZ. SUTAN+, 6.7E, 2.5 GAL TREFLAN, 4E, 30 GAL TREFLAN, 4E, 2.5 GAL TREFLAN, 4E, 2.5 GAL TREFLAN, 4E, 2.5 GAL	\$2.18 / Lb \$14.95 / Ga \$85.76 / Ga \$25.26 / Ga \$52.93 / Ga \$52.93 / Ga \$30.00 / Ga \$11.71 / Ga \$0.00 / Ga \$60.84 / Ga \$26.08 / Ga \$120.00 / Ga \$55.54 / Ga \$22.75 / Lb \$0.00 / Ga \$18.33 / Ga \$38.12 / Ga \$27.52 / Ga \$27.52 / Ga \$27.52 / Ga \$27.59 / Ga \$29.75 / Ga \$0.00 / Ga	\$2.98 \$8.69 \$97.06 \$31.25 \$53.30 \$105.81 \$29.63 \$15.15 \$82.50 \$65.23 \$34.09 \$125.00 \$67.75 \$26.27 \$20.60 \$18.00 \$42.58 \$22.23 \$24.72 \$18.75 \$24.95 \$21.15 \$0.85

Table B.1 Prices of Materials Used

Common Name	Example Trade Name	1998	2001
		Price	Price
	Herbicides Continued		
Oryzalin	SURFLAN	\$0.00 / Ga	\$80.86
Napropamide	DEVRINOL	\$0.00 / Ga	\$8.75
Simazine	PRINCEP 4L	\$0.00 / Ga	\$19.50
Carfentrazone-ethyl	AIM	\$0.00 / Oz	\$8.80
Diglycolamine	CLARITY	\$0.00 / Ga	\$91.30
Clethodim	SELECT 2 EC	\$0.00 / Ga	\$192.71
Pronamide	COTTON PRO	\$0.00 / Ga	\$28.00
Imazethapyr	PURSUIT DG	\$0.00 / Oz	\$10.65
Sethoxydim	POAST	\$0.00 / Ga	\$67.85
	Insecticides		
Imidacloprid	ADMIRE, F	\$591.67 / Ga	\$588.40
Abamectin	AGRI-MEK, 15EC, 1 GAL	\$706.00 / Ga	\$732.91
Permethrin	AMBUSH,2E, 1GAL	\$115.83 / Ga	\$120.50
Cypermethrin	AMMO, 2.5EC, 1GAL	\$285.64 / Ga	\$291.66
Fenvalerate	ASANA, XL, 1 GAL	\$146.61 / Ga	\$144.04
Cyfluthrin	BAYTHROID, 2E, 1 GAL	\$496.00 / Ga	\$520.67
Sulprophos	BOLSTAR, 6E, 5 GAL	\$490.00 / Ga	\$288.38
Bifenthrin	CAPTURE, 2EC, 1 GAL	\$549.00 / Ga	\$490.00
Profenofos	CURACRON, 6E, 2.5 GAL	\$120.00 / Ga	\$120.00
Profenofos	CURACRON, 8E, 2.5 GAL	\$0.00 / Ga	\$113.00
Dimethoate	CYGON,'267', 5 GAL	\$26.50 / Ga	\$26.50
Dimethoate	CYGON,'400', 2.5 GAL	\$35.13 / Ga	\$35.59
Dimethoate	CYGON,'400', 5 GAL	\$38.00 / Ga	\$38.00
Malathion	CYTHION, ULV, 5 GAL	\$29.42 / Ga	\$32.00
Fenpropathrin	DANITOL	\$174.00 / Ga	\$167.83
Dimethoate	DIMETHONATE, 4E, 2.5 GAL	\$24.75 / Ga	\$12.00
BT	DIPEL, 2X, 1 LB	\$10.50 / Lb	\$11.02
Disulfoton	DISYSTON, 15G, 10 LB	\$1.79 / Lb	\$1.74
Disulfoton	DISYSTON, 15G, 50 LB	\$0.00 / Lb	\$20.50
Disulfoton	DISYSTON, 8E, 5 GAL	\$71.08 / Ga	\$66.44
Carbofuran	FURADAN, 15G, 50 LB	\$1.65 / Lb	\$1.17
Carbofuran	FURADAN,4F,2.5GAL	\$75.95 / Ga	\$76.85
Azinphos Methyl	GUTHION, 2L, 5 GAL	\$31.25 / Ga	\$30.30
Lambdacyhalothrin	KARATE, 1E, 1 GAL	\$278.75 / Ga	\$270.00
Methomyl	LANNATE, 24%L, 2.5 GAL	\$49.05 / Ga	\$48.94
Chlorpyrifos	LOCK - ON	\$37.08 / Ga	\$37.73
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 Methyl Parathian	OVASYN, 5 GAL	\$47.56 / Lb	\$46.74
Methyl Parathion	PARATHION/METHYL, 4E, 5 GAL	\$0.00 / Ga \$27.50 / Ga	\$30.00 \$25.75
Methyl Parathion Endosulfan	PENNCAP M, 2L, 5 GAL PHASER, 3EC, 1 GAL	\$27.50 / Ga \$33.47 / Ga	\$25.75 \$34.08
Tralomethrin	SCOUT X-TRA, 1 GAL	\$33.47 / Ga \$283.89 / Ga	\$34.08
Carbaryl	SEVIN, 4F, 2.5 GAL	\$28.75 / Ga	\$330.00 \$28.75
Carbaryl	SEVIN, 4F, 2.5 GAL SEVIN, 80S, 10 LB	\$28.75 / Ga \$4.76 / Lb	\$28.75 \$4.98
Carbaryl	SEVIN, 80S, 10 LB SEVIN, XLR PLUS, 2.5 GAL	\$4.76 / LD \$25.00 / Ga	\$4.98 \$25.00
		\$25.00 / Ga \$600.00 / Ga	•
Spinosad Phorate	SUCCESS THIMET 20G 50 LB	•	\$609.67 \$2.03
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 \$336.00
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 Benomyl Chlorothalonil Mancozeb Mancozeb Metalaxyl Vinclozolin	BAYETON, 50WP, 5 LB BENLATE, 50WP, 2 LB BRAVO 500, 2.5 GAL DITHANE, M45, 80W, 3 LB DITHANE, M45, 80W, 50 LB RIDOMIL, 2E, 1 GAL RONILAN, 50DF, 5 LB	\$61.50 / Lb \$19.03 / Lb \$59.00 / Ga \$0.00 / Lb \$3.20 / Lb \$204.58 / Ga \$23.20 / Lb	\$70.12 \$20.25 \$42.60 \$3.20 \$3.10 \$202.05 \$24.59
	Defoliants		
Endothall Tribufos Thidiazuron Merphos Thidiazuron/Diuron Paraquat Paraquat	ACCELERATE, 0.5S, 5 GAL DEF-6, 6E, 2.5 GAL DROPP, 50WP, 1 LB FOLEX, 6E, 5 GAL GINSTAR GRAMOXONE EXTRA, 2.5L, 2.5 GAL GRAMOXONE, 2S, 5 GAL SODIUM CHLORATE 3, 1 GAL SODIUM CHLORATE #2, 3, 1 GAL	\$24.33 / Ga \$45.92 / Ga \$56.16 / Lb \$46.88 / Ga \$200.00 / Lb \$0.00 / Ga \$40.00 / Ga \$1.40 / Ga \$0.00 / Ga	\$24.35 \$46.28 \$59.00 \$50.78 \$216.71 \$43.00 \$40.78 \$1.25 \$6.50
	Miscellaneous		
Chlorine Comp. Gas Mepiquat Chloride Ethephon Spreader-Activator Sulfuric Acid Surfactant Vegetable Oil	Chlorine Comp. Gas PIX, .35L, 1 GAL PREP, 6E, 5 GAL Sorba Spray Zip Sulfuric Acid Bulk Surfactant (Spreader) Vegetable Oil Concentrate	\$0.80 / Lb \$107.75 / Ga \$62.67 / Ga \$13.50 / Ga \$75.00 / Tn \$16.13 / Ga \$13.00 / Ga	\$0.80 \$118.60 \$64.33 \$13.50 \$75.00 \$16.40 \$14.75

Table B.1 Prices of Materials Used

Common Name	Example Trade Name	1998	2001	
		Price	Price	
	Cartons & Boxes			
Boxes & Supplies	Boxes & Supplies	\$0.95 / Ct	\$0.95	
Boxes for Cauliflower	Boxes for Cauliflower	\$0.95 / Ct	\$0.95	
Boxes for Leaf Lettuce	Boxes for Leaf Lettuce	\$1.05 / Ct	\$1.09	
Broccoli Boxes	Broccoli Boxes	\$0.82 / Ct	\$0.90	
Field Crates (Bu)	Field Crates (Bu)	\$0.00 / Sk	\$7.58	
Cantaloupe Cartons	Cantaloupe Cartons	\$0.87 / Ct \$0.49 / Sk	\$1.00	
Corn Sacks 5 Dz Cap Lettuce Cartons	Corn Sacks 5 Dz Cap Lettuce Cartons	\$0.49 / Sk \$1.00 / Ct	\$0.84 \$1.15	
Onion Bags	Onion Bags	\$1.00 / Ct \$1.10 / Sk	\$1.10	
Plastic Mulch (Average)	Plastic Mulch (Average)	\$75.00 / Roll	\$85.00	
Watermelon Bins	Watermelon Bins	\$9.00 / Ea	\$11.00	
Waxed Cartons	Waxed Cartons	\$1.20 / Ct	\$1.30	
Wirebound Crates	Wirebound Crates	\$1.60 / Ct	\$1.70	
	Vegetable Seeds			
Beet Seed	Beet Seed	\$5.67 / Lb	\$6.08	
Bell Pepper (OP)	Bell Pepper (OP)	\$31.67 / Lb	\$32.67	
Broccoli Seed (Hybrid)	Broccoli Seed (Hybrid)	\$2.36 / Th	\$2.65	
Broccoli Seed (OP)	Broccoli Seed (OP)	\$15.00 / Lb	\$15.00	
Butternut Squash Sd	Butternut Squash Sd	\$11.18 / Lb	\$11.80	
Cabbage Sd (OP)	Cabbage Sold (Hybrid)	\$16.75 / Lb	\$17.13	
Cabbage Seed (Hybrid)	Cabbage Seed (Hybrid)	\$2.54 / Th	\$2.89 \$9.90	
Cantaloupe Sd (Hybrid) Carrot Seed (Raw/Hybrid)	Cantaloupe Sd (Hybrid) Carrot Seed (Raw/Hybrid)	\$9.46 / Lb \$0.22 / Th	\$9.90 \$0.25	
Carrot Seed (Raw/Hybrid) Cauliflower Sd (Hyb)	Cauliflower Sd (Hyb)	\$0.22 / 111 \$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) Parslev Seed	Onion Seed (Pelletized) Parsley Seed	\$0.87 / Th	\$0.87 \$12.67	
Pickling Cucumber (Hyb)	Pickling Cucumber (Hyb)	\$11.83 / Lb \$19.48 / Lb	\$12.67 \$19.48	
Potato Seed	Potato Seed	\$16.00 / Cw	\$16.00	
Potato Seed + Fung.	Potato Seed + Fung.	\$0.00 / Cw	\$0.00	
Pumpkin Seed (Hyb)	Pumpkin Seed (Hyb)	\$19.88 / Th	\$20.25	
Radish Seed	Radish Seed	\$4.51 / Lb	\$5.75	
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	
Formato Seed (Hybrid)	Tomato Seed (Hybrid)	\$10.34 / Th	\$10.0	
Furnip Sd (Hyb)	Turnip Sd (Hyb)	\$25.17 / Lb	\$25.1	
Turnip Seed (OP)	Turnip Seed (OP)	\$4.75 / Lb	\$4.7	
Watermelon Seed (Hyb)	Watermelon Seed (Hyb)	\$30.26 / Th	\$31.58 \$27.70	
Watermelon Seed (OP)	Watermelon Seed (OP) Watermelon, Seedless	\$27.70 / Th \$186.00 / Lb	\$27.70 \$180 O	
Watermelon, Seedless			\$189.00 \$47.0	
Zucchini Seed (Hybrid)	Zucchini Seed (Hybrid)	\$50.00 / Lb	\$47.	

Table B.2 Cost Data for Equipment and Implements

	New Hrs to Annual					Dollar Cost per Hour of Use						
Name	Price	Wearout	Hours	Deprec	Opp. Int.	THI	Repairs	Fuel	Total			
Tractors												
Tractor, 25 PTO HP	\$13,003	12,000	1200	\$0.76	\$0.59	\$0.14	\$1.09	\$1.12	\$3.71			
Tractor, 25 PTO HP, MFWD	\$16,577	16,000	1200	\$0.80	\$0.71	\$0.17	\$0.80	\$1.03	\$3.51			
Tractor, 35 PTO HP	\$20,550	12,000	1200	\$1.21	\$0.94	\$0.22	\$1.73	\$1.57	\$5.66			
Tractor, 35 PTO HP, MFWD	\$22,786	16,000	1200	\$1.11	\$0.97	\$0.23	\$1.09	\$1.45	\$4.85			
Tractor, 40 PTO HP	\$21,942	12,000	1200	\$1.29	\$1.00	\$0.24	\$1.84	\$1.80	\$6.17			
Tractor, 40 PTO HP , MFWD	\$25,371	16,000	1200	\$1.23	\$1.08	\$0.26	\$1.22	\$1.66	\$5.45			
Tractor, 50 PTO HP	\$25,307	12,000	1200	\$1.49	\$1.15	\$0.27	\$2.13	\$2.25	\$7.29			
Tractor, 50 PTO HP, MFWD	\$29,041	16,000	1200	\$1.41	\$1.24	\$0.30	\$1.39	\$2.07	\$6.41			
Tractor, 60 PTO HP	\$29,285	12,000	1200	\$1.72	\$1.33	\$0.32	\$2.46	\$2.70	\$8.53			
Tractor, 60 PTO HP, MFWD	\$35,664	16,000	1200	\$1.73	\$1.52	\$0.36	\$1.71	\$2.48	\$7.81			
Tractor, 70 PTO HP	\$32,461	12,000	1200	\$1.91	\$1.48	\$0.35	\$2.73	\$3.15	\$9.61			
Tractor, 70 PTO HP, MFWD	\$39,646	16,000	1200	\$1.92	\$1.69	\$0.40	\$1.90	\$2.90	\$8.82			
Tractor, 80 PTO HP	\$36,784	12,000	1200	\$2.16	\$1.67	\$0.40	\$3.09	\$3.60	\$10.92			
Tractor, 80 PTO HP, MFWD	\$45,029	16,000	1200	\$2.18	\$1.92	\$0.46	\$2.16	\$3.31	\$10.04			
Tractor, 100 PTO HP	\$50,344	12,000	1200	\$2.96	\$2.29	\$0.54	\$4.23	\$4.50	\$14.52			
Tractor, 100 PTO HP, MFWD	\$61,243	16,000	1200	\$2.97	\$2.62	\$0.62	\$2.94	\$4.14	\$13.29			
Tractor, 125 PTO HP	\$65,746	12,000	1200	\$3.86	\$2.99	\$0.71	\$5.52	\$6.07	\$19.16			
Tractor, 125 PTO HP, MFWD	\$76,656	16,000	1200	\$3.72	\$3.28	\$0.78	\$3.68	\$5.59	\$17.04			
Tractor, 150 PTO HP	\$81,578	12,000	1200	\$4.79	\$3.71	\$0.88	\$6.85	\$6.74	\$22.98			
Tractor, 150 PTO HP, MFWD	\$92,268	16,000	1200	\$4.48	\$3.94	\$0.94	\$4.43	\$6.21	\$20.00			
Tractor, 175 PTO HP	\$98,877	12,000	1200	\$5.81	\$4.50	\$1.07	\$8.31	\$7.87	\$27.55			
Tractor, 175 PTO HP, MFWD	\$110,999	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. Tractor, 300 Eng HP, Art.	\$118,900 \$134,560	16,000 16,000	2000 2000	\$4.84 \$5.48	\$3.40 \$3.85	\$0.80 \$0.91	\$5.71 \$6.46	\$7.87 \$10.12	\$22.62 \$26.81			
Tractor, 335 Eng HP, Art.	\$137,034	16,000	2000	\$5. 4 8	\$3.92	\$0.91	\$6.58	\$10.12	\$28.01			
Tractor, 375 Eng HP, Art.	\$157,004	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		,		70.0	*****	7	40.0.	****	700110			
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												
	£14 700	2.000	000	64.47	¢4.00	eo 70	ድጋ ላይ	#0.07	£14.70			
Pickup Truck, Mini	\$14,703 \$17,960	3,000	600	\$4.17	\$1.29 \$1.52	\$0.70	\$2.95	\$2.67 \$4.00	\$11.79 \$12.97			
Pickup Truck, 1/2 Ton Pickup Truck, 3/4 Ton	\$17,860 \$21,212	4,000 4,000	600 600	\$3.80 \$4.51	\$1.52 \$1.81	\$0.86 \$1.02	\$3.69 \$4.30	\$4.00 \$4.67	\$13.87 \$16.30			
Pickup Truck, 3/4 Ton Pickup Truck, 3/4 Ton 4WD	\$21,212 \$23,169	5,500	600	\$4.51 \$3.58	\$1.81 \$1.92	\$1.02 \$1.11	\$4.39 \$4.95	\$4.67 \$5.34	\$16.39 \$16.89			
Pickup Truck, 3/4 Ton 4VVD	\$23,169	5,500	600	\$3.58 \$3.54	\$1.92 \$1.90	\$1.11 \$1.10	\$4.95 \$4.88	\$5.34 \$7.34	\$16.89			
Truck, 5 Ton w/1000 Gal Tank	\$39,638	5,500	600	\$5.5 4 \$6.13	\$3.28	\$1.10 \$1.90	\$4.00 \$8.46	\$7.3 4 \$9.34	\$10.75			
Truck, 5 Ton, Grain	\$39,636 \$48,138	5,500	600	\$6.13 \$7.44	\$3.20 \$3.99	\$2.31	\$10.28	\$9.34 \$9.34	\$33.35			
Crew Bus, 44 Passenger	\$54,638	5,500	600	\$7. 44 \$8.44	\$4.53	\$2.62	\$10.26	\$9.34 \$9.34	\$36.59			
Truck, Module Hauler	\$54,636 \$144,955	5,500	1000	\$0.44 \$22.40	\$4.55 \$7.56	\$4.17	\$30.94	\$9.34 \$5.03	\$70.11			
Truck, Mixer/Feeder w/Scales	\$41,524	12,000	1000	\$22.40 \$2.94	\$7.50 \$2.03	\$4.17 \$0.48	\$30.94 \$3.49	\$5.03 \$5.03	\$13.96			
Truck, WINCI/I CCUCI W/OCAICS	ψ 4 1,324	12,000	1000	φ4.94	φ∠.∪პ	φ∪.40	φ3.49	φυ.υა	काञ.५०			

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

Table B.2 Cost Data for Equipment and Implements

High Classrance Strayer, 18 Pkw	Repairs Fuel Total	Renairs					101-	D.:	N
High Clearance Strayer, 18 Rv		Порино	IHI	Opp. Int.	Deprec	Hours	Wearout	Price	Name
Section Sprayer, 2 row S22, 100 1,500 200 \$11,43 \$5.87 \$1.35 \$1.023 \$1.001 \$1.001 \$1.001 \$1.501 \$0.001 \$1.501 \$1.501 \$0.001 \$1.501 \$0.001 \$1.501 \$0.001 \$1.501 \$0.001 \$1.501 \$0.001 \$1.501 \$0.001 \$1.501 \$0.001 \$1.501 \$0.001 \$1.501 \$0.001 \$1.501 \$0.001 \$1.501 \$0.001 \$1.501 \$0.001 \$1.501 \$0.001 \$1.502 \$0.001 \$1.501 \$0.001 \$1.501 \$0.001 \$1.501 \$0.001 \$1.501 \$0.001 \$1.501 \$0.001 \$1.501 \$0.001 \$0.001 \$1.501 \$0.00									
Directed Spray Rig. 16 Row \$3,775 1,500 500 \$1,54 \$0,48 \$0,10 \$1,75 \$1,00 \$1,00 \$00 \$3,37 \$1,00 \$00 \$3,37 \$1,00 \$00 \$3,37 \$1,00 \$00 \$3,37 \$1,00 \$00 \$3,37 \$1,00 \$00 \$3,37 \$1,00 \$00 \$3,00 \$1,00 \$00 \$3,00 \$1,00 \$00 \$1,00 \$00 \$1,00 \$00 \$1,00 \$00 \$1,00 \$00 \$1,00 \$00 \$1,00 \$00 \$1,00 \$00 \$1,00 \$00 \$1,00 \$00 \$1,00 \$00 \$1,00 \$00 \$0,00 \$1,00 \$00 \$0,00 \$0									* * *
Directed Spray Rig. 16 Row \$8,250 1,500 500 \$3,37 \$1,05 \$0,23 \$3,82 \$3,80									* * '
Saddle R Sprayer, 2 Tk 8 Row S8,250 1,500 200 84,27 S2,19 S0,51 \$3,82 Manual Sprayer, kir Biest 600 GAL ENG S51,000 2,000 500 51,24 50,64 \$0,15 \$1,11 \$3,73 \$15,46 \$30,00 \$3,00 \$3,89 \$5,37 \$12,5 \$8,53 \$3,81 \$30,25 \$3,84 \$30,91 \$3,87 \$3,88 \$30,91 \$3,87 \$3,88 \$30,91 \$3,87 \$3,88 \$30,91 \$3,87 \$3,88 \$30,91 \$3,87 \$3,88 \$30,91 \$3,87 \$3,88 \$3,91 \$3,87									
Manual Spray Rig., 150 g on ski Sprayer, Air Blast 500 GAL END \$51,000 2,000 500 \$16,74 \$61,55 \$13,77 \$15,46 \$50,8794r, Air Blast 500 GAL END \$14,4818 2,000 500 \$4,86 \$1,79 \$0,40 \$4,49 \$50,8794r, Air Blast 500 GAL END \$14,4818 2,000 500 \$4,86 \$1,79 \$0,40 \$4,49 \$50,8794r, Air Blast 500 GAL END \$14,4818 2,000 500 \$2,85 \$1,35 \$0,31 \$0,25 \$2,85 \$1,35 \$0,31 \$0,25 \$2,85 \$1,35 \$0,31 \$0,25 \$2,85 \$1,35 \$0,31 \$0,25 \$2,85 \$1,35 \$0,31 \$0,25 \$2,85 \$1,35 \$0,31 \$0,25 \$2,85 \$1,35 \$0,31 \$0,25 \$2,85 \$1,35 \$0,31 \$0,25 \$2,85 \$1,35 \$0,31 \$0,25 \$2,85 \$1,35 \$0,31 \$0,25 \$2,85 \$1,35 \$0,31 \$0,25 \$2,85 \$. ,
Sprayer, Ar Blast 500 GAL PTO \$14,000 \$00 \$16,74 \$6,15 \$1,37 \$15,46 \$8,07 \$10,000 \$14,000 \$10,000 \$4,86 \$1,79 \$30,40 \$4,46 \$20,000 \$00 \$4,86 \$1,79 \$30,40 \$4,46 \$20,000 \$00 \$4,86 \$1,79 \$30,40 \$4,46 \$20,000 \$00 \$4,86 \$1,79 \$30,40 \$4,46 \$20,000 \$00 \$2,85 \$1,35 \$0,31 \$0,25 \$20,000 \$2,80 \$1,30 \$10,25 \$20,000 \$2,80 \$1,30 \$10,25 \$20,000 \$2,80 \$1,30 \$10,25 \$2,80 \$20,000 \$2,80 \$1,30 \$10,10 \$2,25 \$2,80 \$2,8									
Sprayer, Air Blast 500 GAL, PTO									
Spraycab									• •
Baler Agon Pall Sa2,284 3,000 30,00 58,99 5,37 51,25 58,53 58,672 20,000 30,000 50,000 52,193 51,001 52,28 52,167 58,673 51,05 50,001 52,28 52,167 58,673 51,05 50,001 52,28 52,167 58,673 51,05 50,001 52,28 52,167 58,673 51,05 50,001 50									
Bale Wagon, Pull \$32,284	ψ4.70	ψ0.23	ψ0.51	ψ1.55	Ψ2.00	300	3,000	Ψ12,000	
Baler, 17. BIG BALE \$90,000 \$21,93 \$10,101 \$22,83,167 Baler, 3 wire wimotor \$51,045 \$20,000 \$30,825 \$3,98 \$30,001 \$22,83,267 \$30,001 \$22,83,267 \$30,001 \$30,825 \$31,001 \$30,825 \$31,001 \$30,001 \$30,001 \$31,170 \$30,301 \$31,177 \$30,30 \$31,177 \$30,301 \$30,001	\$8.53 \$24.14	\$8.53	\$1.25	\$5.37	\$8.99	300	3.000	\$32,284	_ · ·
Baler, 2 Wire Auto PTO									9
Baler, 3 wire wimotor									
Forage Harvester PTO RC2 Forage Harvester PTO SB8.0 S38.672 Z.500 S30 S30.73 S3						300			Baler, 3 wire w/motor
Forage Harvester PTO WP6.2 \$32,023 2,500 300 \$10,22 \$5.54 \$12.8 \$8.3.2 Forage Wagon PTO Unloader \$30,000 2,000 400 \$1.04 \$4.33 \$9.8 \$6.62 Tree Shaker, PTO \$7.835 2,500 400 \$2.26 \$1.05 \$0.24 \$2.41 Nul Harvester \$14,835 2,500 400 \$2.26 \$1.05 \$0.24 \$2.41 Nul Harvester \$14,835 2,500 400 \$3.26 \$1.05 \$0.24 \$2.41 Nul Harvester \$28,339 3,000 400 \$3.733 \$3.76 \$0.87 \$7.49 Module Builder \$28,339 3,000 200 \$18.81 \$14.26 \$3.38 \$16.38 Module Handler \$80,000 3,000 200 \$18.81 \$14.26 \$3.38 \$16.38 Mower, 7 \$3.903 2,000 300 \$14.7 \$0.71 \$0.16 \$2.92 Potato Harvester, 2 Rw \$70,350 2,500 450 \$26.35 \$11.55 \$2.63 \$25.52 Potato Harvester, 4 Rw \$92,000 2,500 450 \$26.35 \$11.55 \$2.63 \$25.52 Combine Pickup Regular Head \$10,239 2,000 450 \$3.45 \$1.34 \$9.03 \$2.33 Bean Kniffe Rig - 3 Pt/8 Row \$13.040 2,000 450 \$3.45 \$1.34 \$9.03 \$2.33 Bean Kniffe Rig - 3 Pt/8 Row \$13.640 2,000 450 \$2.15 \$0.88 \$0.20 \$2.00 Rake, 9.5 LH AND RH \$17,600 2,500 300 \$4.55 \$2.50 \$3.55 \$3.34 Saveeper, 13 Tractor Mounted \$82,475 250 200 \$46.69 \$8.52 \$1.67 \$4.91 Blade Scraper, 10'						300			
Forage Wagon PTO Unloader	\$9.58 \$29.21	\$9.58	\$1.48	\$6.38	\$11.77	300	2,500	\$36,873	Forage Harvester PTO SB8.0
Tree Shaker, PTO \$7,635 \$14,835 \$2,500 \$400 \$3,266 \$1,05 \$3,24 \$2,41 \$4,835 \$4,000 \$7,33 \$3,276 \$3,077 \$7,49 Module Builder \$62,000 \$3,000 \$	\$8.32 \$25.37	\$8.32	\$1.28	\$5.54	\$10.22	300	2,500	\$32,023	Forage Harvester PTO WP6.2
Nut Harvester \$14.835	\$6.82 \$22.57	\$6.82	\$0.98	\$4.33	\$10.44	400	2,000	\$30,000	Forage Wagon PTO Unloader
Module Handler	\$2.41 \$5.96	\$2.41	\$0.24	\$1.05	\$2.26	400	2,500	\$7,635	Tree Shaker, PTO
Module Handler	\$4.63 \$11.53	\$4.63	\$0.47	\$2.05	\$4.39	400	2,500	\$14,835	Nut Harvester
Mower, 7'	\$7.49 \$19.45	\$7.49	\$0.87	\$3.76	\$7.33	400	3,000	\$28,339	Module Builder
Potato Harvester, 2 Rw			\$3.38	\$14.26	\$18.81	200	3,000	\$62,000	Module Handler
Potato Harvester, 4 Rw \$92,000 2,500 450 \$26.35 \$11.55 \$2.63 \$25.22 Combine Pickup Regular Head \$10,239 2,000 450 \$3.45 \$1.34 \$0.30 \$2.33 \$2.33 \$2.33 \$2.30 \$2.000 450 \$3.45 \$1.35 \$1.34 \$0.30 \$2.33 \$2.33 \$2.30 \$2.000 450 \$3.45 \$1.35 \$1.35 \$0.39 \$3.39 \$2.30 \$2.000 450 \$3.45 \$1.35 \$1.35 \$0.39 \$3.39 \$2.000 \$4.50 \$3.45 \$1.73 \$0.39 \$3.39 \$2.000 \$4.50 \$3.45 \$1.73 \$0.39 \$3.39 \$2.000 \$4.50 \$3.45 \$1.73 \$0.39 \$3.39 \$2.000 \$4.50 \$3.45 \$1.73 \$0.39 \$3.39 \$2.000 \$4.50 \$3.21 \$0.000 \$4.50 \$3.21 \$0.000 \$4.50 \$3.25 \$0.000 \$4.50 \$3.25 \$0.000 \$4.35 \$2.36 \$0.55 \$3.3.4 \$2.000 \$4.60 \$9.50 \$3.00 \$3.65 \$2.36 \$0.55 \$3.3.4 \$2.30 \$0.55 \$3.3.4 \$2.47 \$0.000 \$3.00 \$3.65 \$2.30 \$0.55 \$3.3.4 \$2.30 \$0.55 \$3.3.4 \$2.47 \$0.000 \$3.00 \$3.65 \$2.30 \$3.00 \$5.71 \$4.3.2 \$0.000 \$3.00 \$3.65 \$2.00 \$3	\$2.92 \$5.25	\$2.92	\$0.16	\$0.71	\$1.47	300	2,000	\$3,903	Mower, 7'
Combine Pickup Regular Head \$10,239 2,000 450 \$3.45 \$1.34 \$0.30 \$2.33 Bean Knife Rig - 3 Pt2R Row \$6,589 2,000 460 \$450 \$4.25 \$1.73 \$0.39 \$3.95 Bean Rod/mindrower 10 Row \$6,589 2,000 460 \$4.55 \$3.45 \$2.36 \$0.55 \$3.34 Rake, 9.5" LH \$13,619 2,500 300 \$4.35 \$3.26 \$0.55 \$3.34 Rake, 9.5" LH AND RH \$17,600 2,500 300 \$4.35 \$3.65 \$0.71 \$4.32 Sweeper, 10" Tractor Mounted \$22,475 250 200 \$46.69 \$8.52 \$1.67 \$4.91 Levelling Equipment Blade Scraper, 10" Levelling Equipment Blade Scraper, 10" \$4,560 2,500 130 \$1.72 \$1.55 \$0.37 \$0.96 Blade Scraper, 10" Landplane 14"X 60" \$2,500 2,500							2,500		
Bean Knife Rig - 3 PV8 Row \$13,040 2,000 450 \$4,25 \$1,73 \$0.39 \$3.95 Bean Rod/Mindrower 10 Row \$6,589 2,000 450 \$2,15 \$0.88 \$0.00 \$2.00 Rake, 9, 5' LH \$13,619 2,500 300 \$4.55 \$2.36 \$0.55 \$3.34 Rake, 9, 5' LH AND RH \$17,600 2,500 300 \$4.56 \$3.05 \$0.71 \$4.32 Sweeper, 13' Tractor Mounted \$22,475 250 200 \$46.69 \$8.52 \$1.67 \$4.91 Leveling Equipment									•
Bean Rod/Windrower 10 Row \$6,589 2,000 450 \$2.15 \$0.88 \$0.20 \$2.00 Rake, 9.5" LH \$13,619 2,500 300 \$4.35 \$2.36 \$0.55 \$3.34 Rake, 9.5" LH \$17,600 2,500 300 \$4.35 \$2.36 \$0.55 \$3.34 Rake, 9.5" LH AND RH \$17,600 2,500 300 \$4.69 \$8.52 \$3.05 \$0.71 \$4.32 Sweeper, 13" Tractor Mounted \$22,475 250 200 \$46.69 \$8.52 \$1.67 \$4.91 \$1.91 \$1.07 \$4.91 \$1.92 \$1.07 \$4.91 \$1.92 \$1.07 \$0.26 \$0.66 \$1.05 \$1.72 \$1.55 \$0.37 \$0.96 \$1.08 \$2.797 \$1.07 \$0.26 \$0.66 \$0.66 \$1.05 \$1.19 \$1.07 \$0.26 \$0.66 \$. •
Rake, 9.5' LH Rake, 9.5' LH Rake, 9.5' LH AND RH Ra									_
Rake, 9.5' LH AND RH Sweeper, 13' Tractor Mounted \$22,475									
Sweeper, 13' Tractor Mounted \$22,475 250 200 \$46.69 \$8.52 \$1.67 \$4.91									
Blade Scraper, 10' \$4,560 2,500 130 \$1.72 \$1.55 \$0.37 \$0.96									
Blade Scraper, 10' \$4,560 2,500 130 \$1.72 \$1.55 \$0.37 \$0.96 Blade Scraper, 8' \$3,145 2,500 130 \$1.19 \$1.07 \$0.26 \$0.66 Drag Scraper, 14' \$5,127 2,500 130 \$1.93 \$1.75 \$0.26 \$0.66 Drag Scraper, 14' \$5,127 2,500 200 \$8.91 \$6.14 \$1.45 \$14.03 Laser Receiver, Complete Syste \$24,500 20,000 1500 \$1.08 \$0.77 \$0.18 \$0.49 \$14.03 Laser Receiver, Complete Syste \$24,500 20,000 1500 \$1.08 \$0.07 \$0.18 \$0.49 \$14.03 Laser Receiver, Complete Syste \$24,500 20,000 200 \$2.98 \$1.82 \$0.43 \$3.65 \$14.03 Laser Receiver, Complete Syste \$24,500 20,000 200 \$3.07 \$1.88 \$0.44 \$3.77 \$1.00 Moldboard Plow, 3-16 2 Way \$7,470 2,000 200 \$3.07 \$1.88 \$0.44 \$3.77 \$1.00 Moldboard Plow, 5-16 2 Way \$10,329 2,000 110 \$4.83 \$4.19 \$1.00 \$5.22 \$1.00 Moldboard Plow, 5-16 2 Way \$10,329 2,000 110 \$4.83 \$4.19 \$1.00 \$5.22 \$1.00 Moldboard Plow, 5-16 2 Way \$10,329 2,000 110 \$4.77 \$4.14 \$0.99 \$5.15 \$1.00 Subsoiler, Heavy Duty, 3 Shank \$4,400 2,000 120 \$2.03 \$1.66 \$0.04 \$1.63 \$1.00 \$1	\$4.91 \$61.78	\$4.91	\$1.67	\$8.52	\$46.69	200	250	\$22,475	
Blade Scraper, 8' \$3,145 2,500 130 \$1.19 \$1.07 \$0.26 \$0.66 Drag Scraper, 14' \$5,127 2,500 130 \$1.93 \$1.75 \$0.42 \$1.08 Landplane 14'X 60' \$25,600 2,500 200 \$8.91 \$6.14 \$1.45 \$14.03 Laser Receiver, Complete Syste \$24,500 20,000 1500 \$1.08 \$0.77 \$0.18 \$0.49 Plows Moldboard Plow, 3-16 2 Way \$7,235 2,000 200 \$2.98 \$1.82 \$0.43 \$3.65 Moldboard Plow, 4-16 2 Way \$7,470 2,000 200 \$3.07 \$1.88 \$0.44 \$3.77 Moldboard Plow, 5-16 2 Way \$10,329 2,000 110 \$4.77 \$4.14 \$0.99 \$5.15 Subsoiler, Heavy Duty, 3 Shank \$4,400 2,000 110 \$4.77 \$4.14 \$0.99 \$5.15 Subsoiler, Heavy Duty, 7 Shank \$7,290 2,000 110 \$3.41 \$2.96 \$0.71 \$2.69 Ripper, 3 Shank \$3,743 2,000 110 \$3.41 \$2.96 \$0.52 \$1.97 \ V-Ripper, 7 Sk with Wings \$7,650 2,000 110 \$3.301 \$2.61 \$0.62 \$2.38 V-Ripper, 7 Sk with Wings \$7,660 2,000 110 \$3.31 \$2.01 \$0.62 \$2.38 V-Ripper, 11 Sk \$8,206 2,000 200 \$3.38 \$3.20 \$0.48 \$3.03 \$1.64 Border Disk, Dbl. Gang \$5,600 2,000 200 \$3.38 \$0.60 \$0.14 \$0.99 \$5.15 Disks Border Disk, Dbl. Gang \$5,600 2,000 200 \$3.361 \$2.21 \$0.52 \$2.36 Dbl. Offset Disk, 115' \$13,979 2,000 200 \$3.64 \$2.21 \$0.52 \$2.56 Dbl. Offset Disk, 116' \$18,851 2,000 200 \$3.64 \$2.23 \$0.69 \$3.44 Dbl. Offset Disk, 116' \$18,851 2,000 200 \$4.84 \$2.96 \$0.69 \$3.44									Leveling Equipment
Drag Scraper, 14' \$5,127 2,500 130 \$1.93 \$1.75 \$0.42 \$1.08	\$0.96 \$4.60	\$0.96	\$0.37	\$1.55	\$1.72	130	2,500	\$4,560	Blade Scraper, 10'
Landplane 14'X 60' \$25,600 2,500 200 \$8.91 \$6.14 \$1.45 \$14.03 \$1.08 \$24,500 20,000 1500 \$1.08 \$0.77 \$0.18 \$0.49 \$1.00 \$1	\$0.66 \$3.17	\$0.66	\$0.26	\$1.07	\$1.19	130	2,500	\$3,145	Blade Scraper, 8'
Description	\$1.08 \$5.18	\$1.08	\$0.42	\$1.75	\$1.93	130	2,500	\$5,127	Drag Scraper, 14'
Moldboard Plow, 3-16 2 Way	\$14.03 \$30.53	\$14.03	\$1.45	\$6.14	\$8.91	200	2,500	\$25,600	Landplane 14'X 60'
Moldboard Plow, 3-16 2 Way \$7,235 2,000 200 \$2.98 \$1.82 \$0.43 \$3.65 Moldboard Plow, 4-16 2 Way \$7,470 2,000 200 \$3.07 \$1.88 \$0.44 \$3.77 Moldboard Plow, 5-16 2 Way \$10,329 2,000 110 \$4.83 \$4.19 \$10.00 \$5.22 Switch Plow, 6-16 \$10,200 2,000 110 \$4.77 \$4.14 \$0.99 \$5.15 Subsoiler, Heavy Duty, 3 Shank \$4,400 2,000 120 \$2.03 \$1.66 \$0.40 \$1.63 Subsoiler, Heavy Duty, 7 Shank \$7,290 2,000 110 \$3.41 \$2.96 \$0.71 \$2.69 Ripper, 3 Shank \$3,743 2,000 110 \$1.75 \$1.52 \$0.36 \$1.38 V-Ripper, 5 Sk \$5.331 2,000 110 \$2.49 \$2.16 \$0.52 \$1.97 V-Ripper, 7 Sk with Wings \$7,650 2,000 110 \$3.58 \$3.11 \$0.74 \$2.83 V-Ripper, 9 Sk \$8.031 2,000 200 \$3.38 \$2.07 \$0.48 \$3.03 \$1.64 Sorder Disk, 6 Disk \$2.372 2,000 200 \$0.98 \$0.60 \$0.14 \$0.69 Sorder Disk, Heavy Duty \$2.551 2,000 200 \$3.64 \$0.52 \$4.99 \$0.15 \$0.75 \$1.00 Sorder Disk, 13' \$8,768 2,000 200 \$3.64 \$2.21 \$0.52 \$4.90 \$1.00 Sorder Disk, 12' \$11,758 2,000 200 \$3.64 \$2.23 \$0.52 \$2.50 \$0.67 \$1.00 Sorder Disk, 12' \$11,758 2,000 200 \$3.64 \$2.23 \$0.52 \$2.50 \$0.60 Sorder Disk, 12' \$11,758 2,000 200 \$3.64 \$2.23 \$0.52 \$2.50 \$0.60 Sorder Disk, 12' \$11,758 2,000 200 \$3.64 \$2.23 \$0.52 \$2.50 \$0.60 Sorder Disk, 12' \$11,758 2,000 200 \$3.64 \$2.23 \$0.52 \$2.55 \$0.60 Sorder Disk, 12' \$11,758 2,000 200 \$3.64 \$2.23 \$0.52 \$2.55 \$0.60 Sorder Disk, 12' \$11,758 2,000 200 \$3.64 \$2.23 \$0.52 \$2.55 \$0.60 Sorder Disk, 12' \$11,758 2,000 200 \$3.64 \$2.23 \$0.52 \$2.55 \$0.60 Sorder Disk, 12' \$11,758 2,000 200 \$3.64 \$2.23 \$0.52 \$2.55 \$0.60 Sorder Disk, 12' \$11,758 2,000 200 \$3.64 \$2.23 \$0.52 \$2.55 \$0.60 Sorder Disk, 12' \$11,758 2,000 200 \$3.64 \$2.23 \$0.52 \$2.55 \$0.60 Sorder Disk, 12' \$11,758 2,000 200 \$3.64 \$2.23 \$0.52 \$2.55 \$0.60 Sorder Disk, 12' \$11,758 2,000 200 \$3.64 \$2.23 \$0.52 \$2.55 \$0.60 Sorder Disk, 12' \$11,758 2,000 200 \$3.64 \$2.23 \$0.52 \$2.55 \$0.60 Sorder Disk, 12' \$11,758 2,000 200 \$3.64 \$2.23 \$0.52 \$2.55 \$0.60 Sorder Disk, 12' \$11,758 \$2.000 200 \$3.64 \$2.23 \$0.52 \$2.55 \$0.60 Sorder Disk, 12' \$11,758 \$2.000 200 \$3.64 \$2.23 \$0.52 \$2.55 \$0.60 Sorder Disk, 12' \$11,758 \$2.000 200 \$3.64 \$2.23 \$0.52 \$2.55 \$0.60 Sorder Disk,	\$0.49 \$2.53	\$0.49	\$0.18	\$0.77	\$1.08	1500	20,000	\$24,500	Laser Receiver, Complete Syste
Moldboard Plow, 4-16 2 Way \$7,470 2,000 200 \$3.07 \$1.88 \$0.44 \$3.77 Moldboard Plow, 5-16 2 Way \$10,329 2,000 110 \$4.83 \$4.19 \$1.00 \$5.22 Switch Plow, 6-16 \$10,200 2,000 110 \$4.77 \$4.14 \$0.99 \$5.15 Subsoiler, Heavy Duty, 3 Shank \$4,400 2,000 120 \$2.03 \$1.66 \$0.40 \$1.63 Subsoiler, Heavy Duty, 7 Shank \$7,290 2,000 110 \$3.41 \$2.96 \$0.71 \$2.69 Ripper, 3 Shank \$3,743 2,000 110 \$3.41 \$2.96 \$0.71 \$2.69 \$0.72 \$0.36 \$1.38 \$0.72 \$0.36 \$1.38 \$0.72 \$0.36 \$1.38 \$0.72 \$0.36 \$1.38 \$0.72 \$0.36 \$1.38 \$0.72 \$0.36 \$1.38 \$0.72 \$0.36 \$1.38 \$0.72 \$0.36 \$1.38 \$0.72 \$0.36 \$1.38 \$0.72 \$0.36 \$1.38 \$0.72 \$0.36 \$0.52 \$0.36 \$1.38 \$0.72 \$0.38 \$0.60 \$0.52 \$0.99 \$0.60 \$0.99 \$0.60 \$0.99 \$0.9									Plows
Moldboard Plow, 5-16 2 Way \$10,329 2,000 110 \$4.83 \$4.19 \$1.00 \$5.22 Switch Plow, 6-16 \$10,200 2,000 110 \$4.77 \$4.14 \$0.99 \$5.15 Subsoiler, Heavy Duty, 3 Shank \$4,400 2,000 120 \$2.03 \$1.66 \$0.40 \$1.63 Subsoiler, Heavy Duty, 7 Shank \$7,290 2,000 110 \$3.41 \$2.96 \$0.71 \$2.69 Ripper, 3 Shank \$3,743 2,000 110 \$1.75 \$1.52 \$0.36 \$1.38 V-Ripper, 5 Sk \$5,331 2,000 110 \$2.49 \$2.16 \$0.52 \$1.97 V-Ripper, 7 Sk \$6,440 2,000 110 \$3.01 \$2.61 \$0.62 \$2.38 V-Ripper, 7 Sk with Wings \$7,650 2,000 110 \$3.58 \$3.11 \$0.74 \$2.83 V-Ripper, 9 Sk \$8,031 2,000 200 \$3.31 \$2.02 \$0.47 \$2.97 V-Ripper, 11 Sk \$8,031 2,000<	\$3.65 \$8.88	\$3.65	\$0.43	\$1.82	\$2.98	200	2,000	\$7,235	Moldboard Plow, 3-16 2 Way
Switch Plow, 6-16 \$10,200 2,000 110 \$4.77 \$4.14 \$0.99 \$5.15 Subsoiler, Heavy Duty, 3 Shank \$4,400 2,000 120 \$2.03 \$1.66 \$0.40 \$1.63 Subsoiler, Heavy Duty, 7 Shank \$7,290 2,000 110 \$3.41 \$2.96 \$0.71 \$2.69 Ripper, 3 Shank \$3,743 2,000 110 \$1.75 \$1.52 \$0.36 \$1.38 V-Ripper, 5 Sk \$5,331 2,000 110 \$2.49 \$2.16 \$0.52 \$1.97 V-Ripper, 7 Sk \$6,440 2,000 110 \$3.01 \$2.61 \$0.62 \$2.38 V-Ripper, 7 Sk with Wings \$7,650 2,000 110 \$3.58 \$3.11 \$0.74 \$2.83 V-Ripper, 9 Sk \$8,031 2,000 200 \$3.31 \$2.02 \$0.47 \$2.97 V-Ripper, 11 Sk \$8,206 2,000 200 \$3.38 \$2.07 \$0.48 \$3.03 Disks Border Di	\$3.77 \$9.17	\$3.77	\$0.44	\$1.88	\$3.07	200	2,000	\$7,470	Moldboard Plow, 4-16 2 Way
Subsoiler, Heavy Duty, 3 Shank \$4,400 2,000 120 \$2.03 \$1.66 \$0.40 \$1.63 Subsoiler, Heavy Duty, 7 Shank \$7,290 2,000 110 \$3.41 \$2.96 \$0.71 \$2.69 Ripper, 3 Shank \$3,743 2,000 110 \$1.75 \$1.52 \$0.36 \$1.38 V-Ripper, 5 Sk \$5,331 2,000 110 \$2.49 \$2.16 \$0.52 \$1.97 V-Ripper, 7 Sk \$6,440 2,000 110 \$3.01 \$2.61 \$0.62 \$2.38 V-Ripper, 7 Sk with Wings \$7,650 2,000 110 \$3.58 \$3.11 \$0.74 \$2.83 V-Ripper, 9 Sk \$8,031 2,000 200 \$3.31 \$2.02 \$0.47 \$2.97 V-Ripper, 9 Sk \$8,031 2,000 200 \$3.31 \$2.02 \$0.47 \$2.97 V-Ripper, 11 Sk \$8,206 2,000 200 \$3.38 \$2.07 \$0.48 \$3.03 Disk Border Disk, D	\$5.22 \$15.24	\$5.22	\$1.00	\$4.19	\$4.83	110	2,000	\$10,329	Moldboard Plow, 5-16 2 Way
Subsoiler, Heavy Duty, 7 Shank \$7,290 2,000 110 \$3.41 \$2.96 \$0.71 \$2.69 Ripper, 3 Shank \$3,743 2,000 110 \$1.75 \$1.52 \$0.36 \$1.38 V-Ripper, 5 Sk \$5,331 2,000 110 \$2.49 \$2.16 \$0.52 \$1.97 V-Ripper, 7 Sk \$6,440 2,000 110 \$3.01 \$2.61 \$0.62 \$2.38 V-Ripper, 7 Sk with Wings \$7,650 2,000 10 \$3.58 \$3.11 \$0.74 \$2.83 V-Ripper, 9 Sk \$8,031 2,000 200 \$3.31 \$2.02 \$0.47 \$2.97 V-Ripper, 11 Sk \$8,206 2,000 200 \$3.38 \$2.07 \$0.48 \$3.03 Disks Border Disk, Dbl. Gang \$5,600 2,000 200 \$2.30 \$1.41 \$0.33 \$1.64 Border Disk, 6 Disk \$2,372 2,000 200 \$0.98 \$0.60 \$0.14 \$0.69 Border Disk, 11.5'	\$5.15 \$15.05	\$5.15	\$0.99	\$4.14	\$4.77	110	2,000	\$10,200	Switch Plow, 6-16
Ripper, 3 Shank \$3,743 2,000 110 \$1.75 \$1.52 \$0.36 \$1.38 V-Ripper, 5 Sk \$5,331 2,000 110 \$2.49 \$2.16 \$0.52 \$1.97 V-Ripper, 7 Sk \$6,440 2,000 110 \$3.01 \$2.61 \$0.62 \$2.38 V-Ripper, 7 Sk with Wings \$7,650 2,000 110 \$3.58 \$3.11 \$0.74 \$2.83 V-Ripper, 9 Sk \$8,031 2,000 200 \$3.31 \$2.02 \$0.47 \$2.97 V-Ripper, 11 Sk \$8,206 2,000 200 \$3.38 \$2.07 \$0.48 \$3.03 \$1.64 Sorder Disk, Dbl. Gang \$5,600 2,000 200 \$3.38 \$2.07 \$0.48 \$3.03 \$1.64 Sorder Disk, 6 Disk \$2,372 2,000 200 \$0.98 \$0.60 \$0.14 \$0.69 Sorder Disk, Heavy Duty \$2,551 2,000 200 \$1.05 \$0.64 \$0.15 \$0.75 Solb. Offset Disk, 11.5' \$13,979 2,000 200 \$5.75 \$3.52 \$0.62 \$4.09 Solb. Offset Disk, 115 \$1.64 Sorder Disk, 16' \$18,156 2,000 200 \$3.64 \$2.21 \$0.52 \$2.56 Dbl. Offset Disk, 16' \$18,156 2,000 200 \$8.56 \$5.24 \$1.22 \$6.08 Offset Disk, 10.5' \$8,851 2,000 200 \$3.64 \$2.23 \$0.52 \$2.59 Offset Disk, 12' \$11,758 2,000 200 \$3.64 \$2.23 \$0.59 \$3.44	\$1.63 \$5.71	\$1.63	\$0.40	\$1.66	\$2.03	120	2,000	\$4,400	Subsoiler, Heavy Duty, 3 Shank
Ripper, 3 Shank \$3,743 2,000 110 \$1.75 \$1.52 \$0.36 \$1.38 V-Ripper, 5 Sk \$5,331 2,000 110 \$2.49 \$2.16 \$0.52 \$1.97 V-Ripper, 7 Sk \$6,440 2,000 110 \$3.01 \$2.61 \$0.62 \$2.38 V-Ripper, 7 Sk with Wings \$7,650 2,000 110 \$3.58 \$3.11 \$0.74 \$2.83 V-Ripper, 9 Sk \$8,031 2,000 200 \$3.31 \$2.02 \$0.47 \$2.97 V-Ripper, 11 Sk \$8,206 2,000 200 \$3.38 \$2.07 \$0.48 \$3.03 \$0.00	\$2.69 \$9.77	\$2.69	\$0.71	\$2.96	\$3.41	110	2,000	\$7,290	Subsoiler, Heavy Duty, 7 Shank
V-Ripper, 5 Sk \$5,331 2,000 110 \$2.49 \$2.16 \$0.52 \$1.97 V-Ripper, 7 Sk \$6,440 2,000 110 \$3.01 \$2.61 \$0.62 \$2.38 V-Ripper, 7 Sk with Wings \$7,650 2,000 110 \$3.58 \$3.11 \$0.74 \$2.83 V-Ripper, 9 Sk \$8,031 2,000 200 \$3.31 \$2.02 \$0.47 \$2.97 V-Ripper, 11 Sk \$8,206 2,000 200 \$3.38 \$2.07 \$0.48 \$3.03 Disks Border Disk, Dbl. Gang \$5,600 2,000 200 \$2.30 \$1.41 \$0.33 \$1.64 Border Disk, 6 Disk \$2,372 2,000 200 \$0.98 \$0.60 \$0.14 \$0.69 Border Disk, Heavy Duty \$2,551 2,000 200 \$0.98 \$0.60 \$0.14 \$0.69 Border Disk, 11.5' \$13,979 2,000 200 \$5.75 \$3.52 \$0.82 \$4.09 Dbl. Offset Disk, 13' \$8,768 2,000 200 \$3.64 \$2.21 \$0.52 \$2.56 Dbl. Offset Disk, 16' \$18,156 2,000 200 \$7.47 \$4.57 \$1.07 \$5.31 Dbl. Offset Disk, 12' \$20,808 2,000 200 \$8.56 \$5.24 \$1.22 \$6.08 Offset Disk, 10.5' \$8,851 2,000 200 \$3.64 \$2.23 \$0.52 \$2.59 Offset Disk, 12' \$11,758 2,000 200 \$4.84 \$2.96 \$0.69 \$3.44						110			
V-Ripper, 7 Sk V-Ripper, 7 Sk with Wings V-Ripper, 7 Sk with Wings V-Ripper, 9 Sk V-Ripper, 9 Sk V-Ripper, 11 Sk Border Disk, Dbi. Gang Border Disk, 6 Disk Sold Sold Sold Sold Sold Sold Sold Sold						110			1
V-Ripper, 7 Sk with Wings \$7,650 2,000 110 \$3.58 \$3.11 \$0.74 \$2.83 V-Ripper, 9 Sk \$8,031 2,000 200 \$3.31 \$2.02 \$0.47 \$2.97 V-Ripper, 11 Sk \$8,206 2,000 200 \$3.38 \$2.07 \$0.48 \$3.03 \end{array} Disks Disks Disk D									1
V-Ripper, 9 Sk \$8,031 2,000 200 \$3.31 \$2.02 \$0.47 \$2.97 \$ V-Ripper, 11 Sk \$8,206 2,000 200 \$3.38 \$2.07 \$0.48 \$3.03 \$ Disks									
V-Ripper, 11 Sk \$8,206 2,000 200 \$3.38 \$2.07 \$0.48 \$3.03 Disks Border Disk, Dbl. Gang \$5,600 2,000 200 \$2.30 \$1.41 \$0.33 \$1.64 Border Disk, 6 Disk \$2,372 2,000 200 \$0.98 \$0.60 \$0.14 \$0.69 Border Disk, Heavy Duty \$2,551 2,000 200 \$1.05 \$0.64 \$0.15 \$0.75 Dbl. Offset Disk, 11.5' \$13,979 2,000 200 \$5.75 \$3.52 \$0.82 \$4.09 Dbl. Offset Disk, 13' \$8,768 2,000 200 \$3.61 \$2.21 \$0.52 \$2.56 Dbl. Offset Disk, 16' \$18,156 2,000 200 \$7.47 \$4.57 \$1.07 \$5.31 Dbl. Offset Disk, 21' \$20,808 2,000 200 \$8.56 \$5.24 \$1.22 \$6.08 Offset Disk, 10.5' \$8,851 2,000 200 \$3.64 \$2.23 \$0.52 \$2.59 Offset Dis									
Disks Border Disk, Dbl. Gang \$5,600 2,000 200 \$2.30 \$1.41 \$0.33 \$1.64 Border Disk, 6 Disk \$2,372 2,000 200 \$0.98 \$0.60 \$0.14 \$0.69 Border Disk, Heavy Duty \$2,551 2,000 200 \$1.05 \$0.64 \$0.15 \$0.75 Dbl. Offset Disk, 11.5' \$13,979 2,000 200 \$5.75 \$3.52 \$0.82 \$4.09 Dbl. Offset Disk, 13' \$8,768 2,000 200 \$3.61 \$2.21 \$0.52 \$2.56 Dbl. Offset Disk, 16' \$18,156 2,000 200 \$7.47 \$4.57 \$1.07 \$5.31 Dbl. Offset Disk, 21' \$20,808 2,000 200 \$8.56 \$5.24 \$1.22 \$6.08 Offset Disk, 10.5' \$8,851 2,000 200 \$3.64 \$2.23 \$0.52 \$2.59 Offset Disk, 12' \$11,758 2,000 200 \$4.84 \$2.96 \$0.69 \$3.44	** **								L. =
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Border Disk, 6 Disk \$2,372 2,000 200 \$0.98 \$0.60 \$0.14 \$0.69 \$0.69 Border Disk, Heavy Duty \$2,551 2,000 200 \$1.05 \$0.64 \$0.15 \$0.75 Dbl. Offset Disk, 11.5' \$13,979 2,000 200 \$5.75 \$3.52 \$0.82 \$4.09 Dbl. Offset Disk, 13' \$8,768 2,000 200 \$3.61 \$2.21 \$0.52 \$2.56 Dbl. Offset Disk, 16' \$18,156 2,000 200 \$7.47 \$4.57 \$1.07 \$5.31 Dbl. Offset Disk, 21' \$20,808 2,000 200 \$8.56 \$5.24 \$1.22 \$6.08 Offset Disk, 10.5' \$8,851 2,000 200 \$3.64 \$2.23 \$0.52 \$2.59 Offset Disk, 12' \$11,758 2,000 200 \$4.84 \$2.96 \$0.69 \$3.44	\$1.64 \$5.68	\$1.64	\$0.33	¢1 //1	\$2.30	200	2 000	\$5,600	
Border Disk, Heavy Duty \$2,551 2,000 200 \$1.05 \$0.64 \$0.15 \$0.75 \$ Dbl. Offset Disk, 11.5' \$13,979 2,000 200 \$5.75 \$3.52 \$0.82 \$4.09 \$ Dbl. Offset Disk, 13' \$8,768 2,000 200 \$3.61 \$2.21 \$0.52 \$2.56 \$ Dbl. Offset Disk, 16' \$18,156 2,000 200 \$7.47 \$4.57 \$1.07 \$5.31 \$ Dbl. Offset Disk, 21' \$20,808 2,000 200 \$8.56 \$5.24 \$1.22 \$6.08 \$ Offset Disk, 10.5' \$8,851 2,000 200 \$3.64 \$2.23 \$0.52 \$2.59 \$ Offset Disk, 12' \$11,758 2,000 200 \$4.84 \$2.96 \$0.69 \$3.44									
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104eet Diels 42 E1 640 004 0 000 000 1 65 00 60 00 1 5 5 5									
Offset Disk, 13.5' \$13,604 2,000 200 \$5.60 \$3.43 \$0.80 \$3.98									
Offset Disk, 16.5' \$16,163 2,000 200 \$6.65 \$4.07 \$0.95 \$4.73									
Offset Disk, 18' \$19,224 2,000 200 \$7.91 \$4.84 \$1.13 \$5.62									· ·
Offset Disk, 21' \$21,342 2,000 200 \$8.78 \$5.37 \$1.26 \$6.24									
Offset Disk, 8' \$6,787 2,000 200 \$2.79 \$1.71 \$0.40 \$1.98									
Tandem Disk, 10' \$7,800 2,000 200 \$3.21 \$1.96 \$0.46 \$2.28									
Tandem Disk, 12' \$8,600 2,000 200 \$3.54 \$2.17 \$0.51 \$2.51	\$2.51 \$8.73	\$2.51	\$0.51	\$2.17	\$3.54	200	2,000	\$8,600	
Cultivators									
Section Harrow, 3 Section \$1,437 2,000 200 \$0.59 \$0.36 \$0.08 \$0.51	\$0.51 \$1.55	\$0.51	\$0.08	\$0.36	\$0.59	200	2,000	\$1,437	Section Harrow, 3 Section
Section Harrow, 4 Section \$1,699 2,000 200 \$0.70 \$0.43 \$0.10 \$0.61	\$0.61 \$1.83	\$0.61	\$0.10	\$0.43	\$0.70	200	2,000	\$1,699	Section Harrow, 4 Section
Vegetable Cultivator, 4 Row \$7,850 2,000 250 \$3.04 \$1.66 \$0.39 \$3.07	\$3.07 \$8.15	\$3.07	\$0.39	\$1.66	\$3.04	250	2,000	\$7,850	Vegetable Cultivator, 4 Row
Rolling Cultivator, 4 Rw \$4,823 2,000 250 \$1.87 \$1.02 \$0.24 \$1.88	\$1.88 \$5.01	\$1.88	\$0.24	\$1.02	\$1.87	250	2,000	\$4,823	Rolling Cultivator, 4 Rw
Rolling Cultivator, 6 Rw \$6,492 2,000 250 \$2.51 \$1.37 \$0.32 \$2.54						250			Rolling Cultivator, 6 Rw
Rotary Hoe, 4 Rw \$4,710 2,000 250 \$1.82 \$1.00 \$0.23 \$1.43									
Rotary Hoe, 6 Rw \$5,587 2,000 250 \$2.16 \$1.18 \$0.27 \$1.70									
Cultivator, Sweep, 4 Rw \$4,721 2,000 250 \$1.83 \$1.00 \$0.23 \$1.68									The state of the s
Cultivator, Sweep, 6 Rw \$6,527 2,000 250 \$2.53 \$1.38 \$0.32 \$2.33									
Cultivator, 6 Row \$6,100 2,000 250 \$2.36 \$1.29 \$0.30 \$2.17									
Spring Tooth Revovator, 16' \$7,497 2,000 200 \$3.09 \$1.89 \$0.44 \$2.67									

Table B.2 Cost Data for Equipment and Implements

	New	Hrs to	Annual		Dolla	ar Cost	per Hour of	Use	
Name	Price	Wearout	Hours	Deprec	Opp. Int.	THI	Repairs	Fuel	Total
Miscellaneous Tillage									
Cultipacker, 13'	\$4,800	2,000	200	\$1.98	\$1.21	\$0.71	\$0.95		\$4.84
Pegasus, 4 Row	\$26,436	2,000	250	\$10.23	\$5.59	\$3.24	\$5.21		\$24.28
Pegasus, 6 Row	\$36,174	2,000	250	\$14.00	\$7.65	\$1.77	\$7.13		\$30.56
Furrow Spike, 4 Rw Lister, 5 Bottom	\$5,200 \$5,597	2,000 2,000	250 200	\$2.01 \$2.30	\$1.10 \$1.41	\$0.26 \$0.33	\$1.85 \$2.83		\$5.22 \$6.87
Lister, 7 Bottom	\$6,628	2,000	200	\$2.30	\$1.41	\$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 Disk-Lister, 6 Rw	\$19,164 \$27,026	2,000 2,000	200 200	\$7.89 \$11.12	\$4.83 \$6.81	\$1.13 \$1.59	\$5.60 \$7.90		\$19.45 \$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
F 200 A 10 22									
Fertilizer Application	00 :00		,_,	# 5 / 5	00.00	# 2.55	05.50		04465
Fert. Side Dress Unit, 4Rw	\$8,400	1,200	150	\$5.42	\$2.96	\$0.69	\$5.59 \$6.10		\$14.66 \$16.22
Fert. Side Dress Unit, 6Rw Fertilizer Injector, 3 Rw	\$9,300 \$5,686	1,200	150	\$6.00 \$3.37	\$3.28 \$1.60	\$0.76 \$0.37	\$6.19 \$3.78		\$16.23 \$0.12
Fertilizer Injector, 3 RW Fertilizer Injector, 4 RW	\$5,686 \$7,108	1,200 1,200	200 200	\$3.37 \$4.22	\$1.60 \$2.00	\$0.37 \$0.46	\$3.78 \$4.73		\$9.12 \$11.40
Fertilizer Injector, 4 RW	\$9,296	1,200	200	\$5.51	\$2.62	\$0.60	\$6.19		\$14.91
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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 Planter, Drill Type, 4 Rw	\$3,610 \$10,956	1,500 1,500	150.00 150.00	\$1.98 \$6.01	\$1.21 \$3.68	\$0.71 \$2.15	\$1.80 \$5.48		\$5.71 \$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 Planter, Flex 2 Line	\$5,124 \$886	1,500 1,500	120.00 120.00	\$2.97 \$0.51	\$2.05 \$0.35	\$1.21 \$0.21	\$2.56 \$0.44		\$8.79 \$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 Row Crop Shredder, 4 Row	\$9,152	2,000	200 200	\$3.77 \$5.19	\$2.30	\$0.54 \$0.74	\$3.38		\$9.99
Rotary Mower, Offset 10.7'	\$12,600 \$8,007	2,000 2,000	200	\$3.30	\$3.17 \$2.02	\$0.74 \$0.47	\$4.66 \$7.05		\$13.76 \$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 Vineyard Shredder, 7'	\$1,615 \$9,495	3,000 2,500	200 200	\$0.49 \$3.30	\$0.37 \$2.28	\$0.09 \$0.54	\$0.43 \$3.15		\$1.38 \$9.27
Bin Trailer	\$9,495 \$1,275	3,000	200	\$3.30	\$2.28 \$0.29	\$0.54 \$0.07	\$3.15 \$0.34		\$9.27 \$1.09
Cattle Trailer, Gooseneck	\$3,012	3,000	500	\$0.36	\$0.29	\$0.07	\$0.80		\$1.09
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