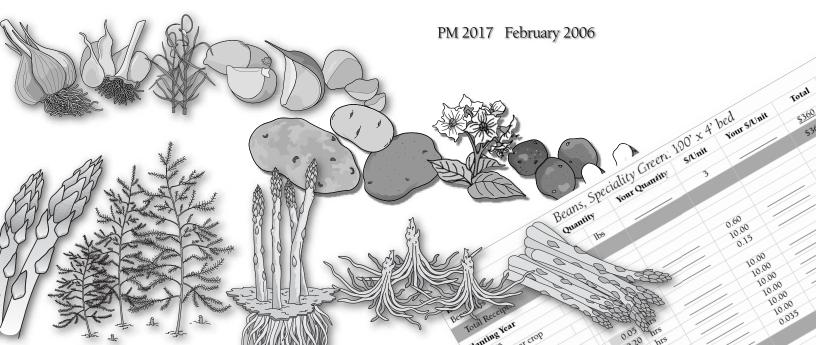


IOWA STATE UNIVERSITY University Extension



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Introduction

An enterprise budget is an estimate of the costs and returns to produce a product (enterprise). For example, an Iowa corn and soybean producer would be interested in developing both a corn and soybean enterprise budget. Vegetable growers that may have 35 – 40 different products may wish to develop budgets on their key products (those products that contribute the most to the attainment of producer goals).

Why use enterprise budgets? In economic terms, enterprise budgets help to allocate land, labor, and capital, which are limited, to the most appropriate use. The most appropriate use is defined by the person in control of the resources and may be used to maximize profits or minimize soil loss or any other goal.

The estimated costs and returns illustrated in this publication are based on farm data received from three small farms over a three year period. Not all crops were grown on each farm each year. The original farm-derived budgets were adjusted slightly to make them more uniform regarding ownership costs, fertilization cost and amounts of inputs, and other expenses. The budgets were developed on a 4 ft by 100 ft bed basis to better represent small farm production. The exception is strawberries, which is on a per acre basis.

Budget Format

Enterprise budget formats vary. Some are complex. Others are quite simple. Note that the budgets included in this publication are divided into five sections. The first section illustrates the total receipts the enterprise provides on a set unit(s). Records should be kept on both a sales unit (per lb.) and land unit (per bed) basis.

The second section is the costs of planting and growing the product. These costs are segmented for two reasons. First, these costs are incurred whether a product is sold or not. Once the seed is planted or weeding is completed, it is a sunk cost and needs to be covered from some source. The second purpose is there is a time delay between preharvest expenses and the time the product is sold. These expenses may have to be covered by borrowing or savings or some other source. Therefore, interest on pre-harvest costs should be included as a production expense.

The third section is the harvest component. Note that packaging costs are included with the harvesting activity. Pre-harvest and harvest expenses are combined to equal total variable costs.

The fourth section relates to ownership costs. Each producer owns or controls assets that they use to produce income such as land, machinery, irrigation equipment, and other items. Ownership costs are an allocation to realize some return for the use of those assets. In this example, the land use is \$160 per acre. It is assumed that produce is grown on 70 beds per acre so the \$160 cost is shared by the 70 beds, or \$2.29 per bed. Machinery investment is assumed to be \$7.14 per bed or about \$500 per acre. Machinery is assumed to have a 3-year life so the total machinery investment for replacement purposes is \$1,500 per acre. Therefore, a 3-acre produce farm would have approximately \$4,500 worth of machinery investment that could be replaced every 3 years. The irrigation system is assumed to need replacement every 3 years for a total per acre investment of approximately \$240. Total ownership costs are estimated at \$10.57 per bed. The last section is the summary of returns. Total costs would be variable and ownership costs combined. The return over variable costs would be total receipts minus total variable costs. The return over all costs would be total receipts minus combined variable and ownership costs.

Limitations

The illustrated budgets are to be used as an indication of what a particular crop could average over time and location. Individual farm results will vary from these numbers based on soil types, location to markets, and managerial ability, among other considerations.

Note the budgets include receipts as well as costs through harvest and handling. Marketing and/or transaction costs have been excluded. Marketing costs vary tremendously based on whether products are distributed through a community supported agriculture share, wholesaler, or direct through a farmers' market or other outlet. For this reason, they have not been included in the budgets. Marketing costs should, however, be included to determine crop profitability because, in some cases, costs can shift annual returns from a positive to a negative number. A method to determine and compare marketing (transaction) costs will be described in a future publication.

		Aspa	ragus: 100' ɔ	<u>c 4' bed</u>			
	Quan	-	Your Quantity	\$/Unit	Your Unit	Total	Your Total
Receipts							
Asparagus sales - Years 3-15	35	lbs		2.50		\$87.50	
Avg. Production Year Annual Receipts						\$87.50	
Planting Year							
Seed - cover crop	0.75	lbs		0.60		\$0.45	
Fertilization	6.00	lbs		0.15		0.90	
Crowns	30.00	plant		0.25		7.50	
Straw mulch	6.00	bales		2.50		15.00	
Labor							
Cover crop	0.05	hrs		10.00		0.50	
Land preparation - trench	0.10	hrs		10.00		1.00	
Fertilizer spreading	0.10	hrs		10.00		1.00	
Planting	0.50	hrs		10.00		5.00	
Hand hoeing	1.00	hrs		10.00		10.00	
Mulching	0.50	hrs		10.00		5.00	
Irrigation set up	0.25	hrs		10.00		2.50	
Interest on planting year costs	\$48.85			0.07		<u>3.42</u>	
Total Planting Year Costs						\$52.27	
Pre-Production Year							
Fertilization	6.00	lbs		0.15		\$0.90	
Labor							
Fertilizer spreading	0.10	hrs		10.00		1.00	
Hand hoeing	0.50	hrs		10.00		5.00	
Cutting and raking	0.30	hrs		10.00		3.00	
Interest on planting year costs	\$62.17			0.07		<u>4.35</u>	
Total Pre-Production Costs						\$66.52	
Production Year							
Pre-harvest							
Fertilization	6.00	lbs		0.15		\$0.90	
Straw mulch	2.00	bales		2.50		5.00	
Labor							
Fertilizer spreading	0.10	hrs		10.00		1.00	-
Hand hoeing	0.50	hrs		10.00		5.00	
Mulching	0.25	hrs		10.00		2.50	
Cutting and raking	0.30	hrs		10.00		3.00	
Interest on pre-harvest costs	\$83.92			0.035		<u>2.94</u>	
Total Pre-Harvest Costs						\$20.34	
Harvest (Average production / year- lbs)		35					
Bags (1 lb)	35	bags		0.03		\$1.19	
Labor		_					
Harvest	1.25	hrs		10.00		12.50	
Packaging	0.30	hrs		10.00		<u>3.00</u>	
Total Harvest Costs						\$16.69	<u> </u>
Total Variable Costs							
Per acre						\$37.03	
Per lb						1.06	
Ownership Costs (Annual)						\$1.14	
Irrigation system						\$1.14	
Machinery						7.14	
Land						2.29	
Total Ownership Costs						\$10.57	
Pre-Production Costs						¢4.42	
Amortized over 15 years Total Costs (Annual)						\$4.43	
Per acre						\$52.03	
Per lb						\$52.03 1.49	
Annual Returns Over Variable Costs							
Annual Returns Over Total Costs						\$50.47 \$35.47	
Amiuai keturns Over Iotal Costs						\$35.47	

		Ва	sil: 100' x 4'	bed			
	Qua	ntity	Your Quantity	\$/Unit	Your \$/Unit	Total	Your Total
Receipts Basil sales	25	lbs		10.00		\$250.00	
Total Receipts						\$250.00	
Planting Year							
Supplies							
Seed - cover crop	0.75	lbs		0.60		\$0.45	
Seed	1	packet		1.00		1.00	
Soil mix	0.1	bag		5.00		0.50	
Fertilization	12	lbs		0.15		1.80	
Labor							
Cover crop	0.05	hrs		10.00		0.50	
Soil mix	1.00	hrs		10.00		10.00	
Bed preparation	0.20	hrs		10.00		2.00	
Fertilizer spreading	0.10	hrs		10.00		1.00	
Transplanting	1.00	hrs		10.00	-	10.00	
Irrigation set up	0.25	hrs		10.00		2.50	
Weeding	2.00	hrs		10.00		20.00	
Interest on pre-harvest costs	\$49.75			0.035		<u>1.74</u>	
Total Pre-Harvest Costs						\$51.49	
Harvest							
Bags (1 lb)	25	bags		0.03		\$0.75	
Labor							
Harvest labor	2.00	hrs		10.00		20.00	
Packaging	0.30	hrs		10.00		<u>3.00</u>	
Total Harvest Costs						\$23.75	
Total Variable Costs							
Per crop year						\$75.24	
Per lb						3.01	
Ownership Costs (Annual)							
Irrigation system						\$1.14	
Machinery						7.14	
Land						<u>2.29</u>	
Total Ownership Costs						\$10.57	
Total Costs (Annual)							
Per bed						\$85.81	
Per lb						3.43	
Annual Returns Over Variable	Costs					\$174.76	
Annual Returns Over Total Co	ests					\$164.19	

	Веа	ns, Sp	eciality Green	: 100° x 4	l' bed		
	Qua	ntity	Your Quantity	\$/Unit	Your \$/Unit	Total	Your Total
Receipts				_			
Bean sales	120	lbs		3		<u>\$360.00</u>	
Total Receipts						\$360.00	
Planting Year							
Supplies							
Seed - cover crop	0.75	lbs		0.60		\$0.45	
Seed	2	lbs		10.00		20.00	
Fertilization	6	lbs		0.15		0.90	
Labor							
Cover crop	0.05	hrs		10.00		0.50	
Bed preparation	0.20	hrs		10.00		2.00	
Fertilizer spreading	0.10	hrs		10.00		1.00	
Planting	0.15	hrs		10.00		1.50	
Irrigation set up	0.25	hrs		10.00		2.50	
Weeding	2.00	hrs		10.00		20.00	
Interest on pre-harvest costs	\$48.85			0.035		<u>1.71</u>	
Total Pre-harvest Costs						\$50.56	
Harvest							
Bags (1 lb)	120	bags		0.03		\$3.60	
Labor		~0-				, , , , ,	
Harvest labor	15.00	hrs		10.00		150.00	
Packaging	0.50	hrs		10.00		<u>5.00</u>	
Total Harvest Costs						\$158.60	
Total Variable Costs						Ψ130.00	
bed						\$209.16	
Per lb						1.74	
						1.74	
Ownership Costs (Annual)						Φ1.14	
Irrigation system						\$1.14	
Machinery						7.14	
Land						<u>2.29</u>	
Total Ownership Costs						\$10.57	
Total Costs (Annual)							
Per bed						\$219.73	
Per lb						1.83	
Annual Returns Over Variabl	le Costs					\$150.84	
Annual Returns Over Total C	Losts					\$140.27	-

		Car	rots: 100' x	4' bed			
	Quai	ntity	Your Quantity	\$/Unit	Your \$/Unit	Total	Your Total
Receipts							
Carrot sales	170	lbs		0.80		<u>\$136.00</u>	
Total Receipts						\$136.00	
Planting Year							
Supplies							
Seed - cover crop	0.75	lbs		0.60		\$0.45	
Seed	3	packets		1.50		4.50	
Burlap	3	bags		1.80		5.40	
Fertilization	10	lbs		0.15		1.50	
Labor							
Cover crop	0.05	hrs		10.00		0.50	
Bed preparation	0.20	hrs		10.00		2.00	
Fertilizer spreading	0.10	hrs		10.00		1.00	
Planting, laying burlap	0.20	hrs		10.00		2.00	
Irrigation set up	0.25	hrs		10.00		2.50	
Weeding	0.75	hrs		10.00		7.50	
Interest on pre-harvest costs	\$27.35		-	0.035		<u>0.96</u>	
Total Pre-Harvest Costs						\$28.31	
Harvest							
Bags (1 lb)	170	bags		0.03		\$5.10	
Labor		O					
Harvest labor	3.50	hrs		10.00		35.00	
Packaging	0.30	hrs		10.00		3.00	
Total Harvest Costs						\$43.10	
Total Variable Costs							
Per bed						\$71.41	
Per lb						0.42	
Ownership Costs (Annual)							
Irrigation system						\$1.14	
Machinery						7.14	
Land						<u>2.29</u>	
Total Ownership Costs						\$10.57	
Total Costs (Annual)							
Per bed						\$81.98	
Per lb						0.48	
Annual Returns Over Variable	Costs					\$64.59	
Annual Returns Over Total Co	osts					\$54.02	

		Eg	gplant: 100' x	4' bed			
	Qua	ntity	Your Quantity	\$/Unit	Your \$/Unit	Total	Your Total
Receipts	120	11		1.40		¢102.00	
Eggplant sales	130	lbs		1.40		\$182.00	
Total Receipts						\$182.00	
Planting Year							
Supplies							
Seed - cover crop	0.75	lbs		0.60		\$0.45	
Seed	2	packet		1.00		2.00	
Soil mix Fertilization	0.5	bag lbs		5.00		2.50	
Straw mulch	7 4	bales		0.15 2.50		1.05 10.00	
Labor	7	Dates		2.30		10.00	
Cover crop	0.05	hrs		10.00		0.50	
Soil mix	1.00	hrs		10.00		10.00	
Fertilizer spreading	0.10	hrs		10.00		1.00	
Bed preparation	0.20	hrs		10.00		2.00	
Transplanting	1.30	hrs		10.00		13.00	
Irrigation set up	0.25	hrs		10.00		2.50	-
Mulching	0.50	hrs		10.00		5.00	
Weeding	0.75	hrs		10.00		7.50	
Interest on pre-harvest costs	\$57.50			0.035		<u>2.01</u>	
Total Pre-Harvest Costs						\$59.51	
Harvest		_					
Bags (1 lb)	130	bags		0.03		\$3.90	
Labor	2.00	1		10.00		20.00	
Harvest labor Packaging	2.00 0.30	hrs hrs		10.00 10.00		20.00 <u>3.00</u>	
	0.30	IIIS		10.00			
Total Harvest Costs						\$26.90	
Total Variable Costs							
Per bed						\$86.41	
Per lb						0.66	
Ownership Costs (Annual)							
Irrigation system						\$1.14	
Machinery						7.14	
Land						<u>2.29</u>	
Total Ownership Costs						\$10.57	
Total Costs (Annual)							
Per bed						\$96.98	
Per lb						0.75	
Annual Returns Over Variable	e Costs					\$95.59	
Annual Returns Over Total C	osts					\$85.02	

		G	arlic: 100' x	: 4' bed			
	Quan	tity	Your Quantity	\$/Unit	Your \$/Unit	Total	Your Total
Receipts							
Garlic sales	35	lbs		5.75		<u>\$201.25</u>	
Total Receipts						\$201.25	
Planting Year							
Supplies							
Seed - cover crop	0.75	lbs		0.60		\$0.45	
Seed	10	lbs		6.50		65.00	
Straw mulch	2	bales		2.50		5.00	
Fertilization	10	lbs		0.15		1.50	
Labor							
Cover crop	0.05	hrs		10.00		0.50	
Bed preparation	0.20	hrs		10.00		2.00	
Fertilizer spreading	0.10	hrs		10.00		1.00	
Planting	1.25	hrs		10.00		12.50	
Mulching	0.25	hrs		10.00		2.50	
Irrigation set up	0.25	hrs		10.00		2.50	
Weeding	0.25	hrs		10.00		2.50	
Interest on pre-harvest costs	\$95.45			0.035		3.34	
Total Pre-Harvest Costs						\$98.79	
Harvest							
Labor							
Harvest Labor	4.50	hrs		10.00		\$45.00	
Packaging	0.30	hrs		10.00		<u>3.00</u>	
Total Harvest Costs						\$48.00	
Total Variable Costs							
Per bed						\$146.79	
Per lb						4.19	
Ownership Costs (Annual)						¢1 14	
Irrigation system						\$1.14 7.14	
Machinery Land						2.29	
Total Ownership Costs						\$10.57	
Total Costs (Annual)						4177.2 6	
Per bed						\$157.36	
Per lb						4.50	
Annual Returns Over Variable	Costs					\$54.46	
Annual Returns Over Total Cos	sts					\$43.89	

		Greer	ıs, Salad: 100)' x 4' bea	d		
	Qua	ntity	Your Quantity	\$/Unit	Your \$/Unit	Total	Your Total
Receipts							
Greens sales	30	lbs		5.00		\$150.00	
Total Receipts						\$150.00	
Planting Year							
Supplies							
Seed - cover crop	0.75	lbs		0.60		\$0.45	
Seed	5	packets		1.00		5.00	
Fertilization	10	lbs		0.15		1.50	
Labor	2 2 -			10.00		2 - 2	
Cover crop	0.05	hrs		10.00		0.50	
Bed preparation	0.20	hrs		10.00		2.00	
Fertilizer spreading	0.10	hrs		10.00		1.00	
Planting	0.15	hrs		10.00		1.50	
Irrigation set up	0.25	hrs		10.00		2.50	
Weeding	0.50 \$19.45	hrs		10.00		5.00	
Interest on pre-harvest costs	\$19.45			0.035		0.68	
Total Pre-Harvest Costs						\$20.13	
Harvest							
Bags (1 lb) Labor	30	bags		0.03		\$0.90	
Harvest	1.25	hrs		10.00		12.50	
Packaging	0.30	hrs		10.00		<u>3.00</u>	
Total Harvest Costs						\$16.40	
Total Variable Costs							
Per bed						\$36.53	
Per lb						1.22	
Ownership Costs (Annual)						\$1.14	
Irrigation system						51.14 7.14	
Machinery Land						2.29	
Total Ownership Costs						\$10.57	
Total Costs (Annual)							
Per bed						\$47.10	
Per lb						1.57	
Annual Returns Over Variab	le Costs					\$113.47	
Annual Returns Over Total C	Costs					\$102.90	

		Peo	ıs, Snow: 100'	x 4' bed			
	Quar	ntity	Your Quantity	\$/Unit	Your \$/Unit	Total	Your Total
Receipts							
Snow pea sales	50	lbs		3.50		<u>\$175.00</u>	
Total Receipts						\$175.00	
Planting Year							
Supplies							
Seed - cover crop	0.75	lbs		0.60		\$0.45	
Seed	2	lbs		10.00		20.00	
Fertilization	6	lbs		0.15		0.90	
Cages	7	cages		0.65		4.55	
Labor							
Cover crop	0.05	hrs		10.00		0.50	
Bed preparation	0.20	hrs		10.00		2.00	
Fertilizer spreading	0.10	hrs		10.00		1.00	
Planting	0.25	hrs		10.00		2.50	
Irrigation set up	0.25	hrs		10.00		2.50	
Set cages	0.50	hrs		10.00		5.00	
Weeding	2.00	hrs		10.00		20.00	
Interest on pre-harvest costs	\$59.40			0.035		2.08	
Total Pre-Harvest Costs						\$61.48	
Harvest	50	1		0.02		¢1.50	
Bags (1 lb)	50	bags		0.03		\$1.50	
Labor	4.00	1		10.00		10.00	
Harvest labor	4.00	hrs		10.00		40.00	
Packaging	0.30	hrs		10.00		3.00	
Total Harvest Costs						\$44.50	
Total Variable Costs							
Per bed						\$105.98	
Per lb						2.12	
Orangelia Costa (America)							
Ownership Costs (Annual)						¢1 14	
Irrigation system						\$1.14	
Machinery						7.14	
Land						2.29	
Total Ownership Costs						\$10.57	
Total Costs (Annual)							
Per bed						\$116.55	
Per lb						2.33	
Annual Returns Over Variab	le Costs					\$69.02	
Annual Returns Over Total (Costs					\$58.45	

		Pa	otatoes: 100's	x 4' bed			
	Qua	ntity	Your Quantity	\$/Unit	Your \$/Unit	Total	Your Total
Receipts							
Potato sales	120	lbs		1.25		<u>\$150.00</u>	
Total Receipts						\$150.00	
Planting Year							
Supplies							
Seed - cover crop	0.75	lbs		0.60		\$0.45	
Seed	20	lbs		.35		7.00	
Straw mulch	5	bales		2.50		12.50	
Fertilization	10	lbs		0.15		1.50	
Labor							
Cover crop	0.05	hrs		10.00		0.50	
Bed preparation	0.50	hrs		10.00		5.00	
Fertilizer spreading	0.10	hrs		10.00		1.00	
Planting	1.00	hrs		10.00		10.00	
Mulching	0.50	hrs		10.00		5.00	
Irrigation set up	0.25	hrs		10.00		2.50	
Weeding	0.40	hrs		10.00		4.00	
Interest on pre-harvest costs	\$49.45			0.035		<u>1.73</u>	
Total Pre-Harvest Costs						\$51.18	
Harvest							
Bags (5 lb)	24	bags		0.15		\$3.60	
Labor	21	Dags		0.13		Ψ3.00	
Harvest labor	2.00	hrs		10.00		20.00	
Packaging	0.30	hrs		10.00		3.00	
	0.30	1115		10.00			
Total Harvest Costs						\$26.60	
Total Variable Costs							
Per bed						\$77.78	
Per lb						0.65	
Ownership Costs (Annual)							
Irrigation system						\$1.14	
Machinery						7.14	
Land						2.29	
Total Ownership Costs						\$10.57	
Total Costs (Annual)							
Per bed						\$88.35	
Per lb						0.74	
Annual Returns Over Variabl	le Costs					\$72.22	
Annual Returns Over Total C	`osts					\$61.65	•
Ammuni Returns Over Itlai C	20313					Ψ01.03	

		Potato	oes, Sweet: 10	00' x 4' bo	ed		
	Qua		Your Quantity	\$/Unit	Your \$/Unit	Total	Your Total
Receipts							
Potato sales	80	lbs		1.20		<u>\$96.00</u>	
Total Receipts						\$96.00	
Planting Year							
Supplies							
Seed - cover crop	0.75	lbs		0.60		\$0.45	
Plants	95	plants		0.10		9.50	
Fertilization	10	lbs		0.15		1.50	
Labor							
Cover crop	0.05	hrs		10.00		0.50	
Bed preparation	0.20	hrs		10.00		2.00	
Fertilizer spreading	0.10	hrs		10.00		1.00	
Planting	0.20	hrs		10.00		10.00	
Mulching	0.50	hrs		10.00		2.00	
Irrigation set up	0.25	hrs		10.00		2.50	
Weeding	1.20	hrs		10.00		12.00	
Interest on pre-harvest costs	\$31.45			0.035		<u>1.10</u>	
Total Pre-Harvest Costs						\$32.55	
Harvest							
Bags (1 lb)	80	bags		0.03		\$2.40	
Labor							
Harvest labor	2.00	hrs		10.00		20.00	
Packaging	0.30	hrs		10.00	-	<u>3.00</u>	
Total Harvest Costs						\$25.40	
Total Variable Costs							
Per crop year						\$57.95	
Per lb						0.72	
Ownership Costs (Annual)						h = - 1	
Irrigation system						\$1.14	
Machinery						7.14	
Land						<u>2.29</u>	
Total Ownership Costs						\$10.57	
Total Costs (Annual)							
Per bed						\$68.52	
Per lb						0.86	
Annual Returns Over Variabl	le Costs					\$38.05	
Annual Returns Over Total C	Costs					\$27.48	

		Raspb	erries, Red: 10	00° x 4° b	ed		
	Quar	ıtity	Your Quantity	\$/Unit	Your \$/Unit	Total	Your Total
Receipts			-				
Raspberry sales							
Year one of production	10	qts		8.00		\$80.00	
Year two through ten	30	qts		8.00		<u>240.00</u>	
Average Receipts	28					\$224.00	
Planting Year							
Supplies							
Seed- cover crop	0.75	lbs		0.60		\$0.45	
Fertilization	6.00	lbs		0.15		0.90	
Plants	35.00	plants		1.60		56.00	
Straw mulch	6.00	bales		2.50		15.00	
Labor							
Cover crop	0.05	hrs		10.00		0.50	
Bed preparation - trench	0.10	hrs		10.00		1.00	
Fertilizer spreading	0.10	hrs		10.00		1.00	
Planting	0.50	hrs		10.00		5.00	
Hand hoeing	1.00	hrs		10.00		10.00	
Mulching	0.50	hrs		10.00		5.00	
Irrigation set up	0.25	hrs		10.00		2.50	
Interest on planting year costs	\$97.35			0.07		6.81	
Total Planting Year Costs						\$104.16	
First Year of Production							
Pre-Harvest							
Fertilization	6.00	lbs		0.15		\$0.90	
Straw mulch	2.00	bales		3.00		6.00	
Labor	0.10			10.00		1.00	
Fertilizer spreading	0.10	hrs		10.00		1.00	
Hand hoeing	0.50	hrs		10.00		5.00	
Mulching	0.25	hrs		10.00		2.50	
Cutting and raking Interest on pre-harvest costs	0.30	hrs		10.00		3.00	
	\$18.40			0.035		0.64	
Total Pre-Harvest Costs						\$19.04	
Harvest (Ave. production / yea				0.10		41.22	
Containers (qts)	10			0.10		\$1.00	
Labor	1 (7	1		10.00		1670	
Harvest	1.67	hrs		10.00		16.70	
Packaging	0.30	hrs		10.00		3.00	
Total Harvest Costs						\$20.70	
Total Pre-Harvest and Harvest (Costs - Year	r 1				\$39.74	
Second Year of Production							
Total Pre-Harvest Costs (Same	as first year	of produ	action)			\$19.04	
Harvest (Ave. production / yea	r - gts) 30						
Containers (qts)	30			0.10		\$3.00	
Labor						,	
Harvest	5	hrs		10.00		50.00	
Packaging	0.30	hrs		10.00		3.00	
Total Harvest Costs						\$56.00	
Total Pre-Harvest and Harvest (Costs - Vega	r 7				\$75.04	
Total I IC-Hai vest allu Hai vest C	Costs - Ital					\$1J.UT	

	Raspberries, Red: 100' x 4' bed (cont.)							
	Quantity	Your Quantity	\$/Unit	Your \$/Unit	Total	Your Total		
Per acre Per qt					\$71.51 2.55			
Ownership Costs (Annual) Irrigation system Machinery Land					\$1.14 7.14 <u>2.29</u>			
Total Ownership Costs					\$10.57			
Pre-Production Costs Amortized over 10 years					\$10.42			
Total Costs (Annual) Per acre Per qt					\$92.50 3.30			
Annual Returns Over Variable C	Costs				\$152.49			
Annual Returns Over Total Cost	ts				\$131.50			

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Strami	berries:	(1no	Acro
JUUVVI	iciiics.	O_{110}	11010

Receips		Quan	tity	Your Quantity	\$/Unit	Your \$/Unit	Total	Your Total	
First Production Year	Receipts								
First Production Year	Strawberry Sales								
Second Production Year 2,000 qts 2,50 7,500,00		4,000	qts		2.25		\$9,000.00		
Third Production Year 2,000 qts 3,00 5,000,00	Second Production Year		-						
Establishment Year Supplies Seed- cover crop 75.00 Ibo 0.60 S45.00 Ibo 0.15 S45.00 Ibo	Third Production Year	2,000			3.00		6,000.00		
Supplies Seed - cover crop 75.00 lbs 0.60 \$45.00	Average Receipts	3,000					\$7,500.00		
Seed-cover crop									
Plants	Supplies								
Plants	Seed- cover crop	75.00	lbs		0.60		\$45.00		
Straw mulch	Plants	5.00			100.00		500.00		
Straw mulch									
Date			lg						
Labor	Straw mulch	7.00			45.00		315.00		
Cover crop	- •		bales						
Land preparation - trench		2.22			10.00		22.22		
Fertilizer spreading	-								
Transplanting 18.00 hrs 10.00 180.00 ——————————————————————————————————									
Hand hoeing	1 0								
Pull off blossoms									
Mulching 16.00 hrs 10.00 160.00 160.00 Irrigation set up									
Irrigation set up									
The content of Establishment Year Costs \$2,455.00 \$2,412.85									
Total Establishment Year Costs			1115						
First Year of Production Substitution Substit		Ψ2,233.00	_		0.07				
Straw Mulch							Ψ2,112.09		
Straw Mulch		200.00	lla o		0.15		¢45.00		
Straw Mulch	reitinzation	300.00			0.13		\$43.00		
Labor Remove mulch 8.00 hrs 10.00 80.00 — Fertilizer spreading 1.00 hrs 10.00 300.00 — Hand hoeing 30.00 hrs 10.00 10.00 300.00 — Mowing 1.00 hrs 10.00 10.00 10.00 — Renovation 4.00 hrs 10.00 40.00 — Mulching 16.00 hrs 10.00 160.00 — Irrigation tear down & set up 2.00 hrs 10.00 20.00 — Interest on Est. and 1st Year Costs \$3,392.85 0.035 118.75 — Total Pre-Harvest Costs \$1,000 — Trays for u-pick 100 tray 1.00 100.00 — Labor Pickers 1,000 qt 0.75 \$150.00 — Total Harvest Costs \$1,000.00 — Total Harvest Costs \$1,000 — Total Pre-harvest and harvest costs - Year 1 \$2,098.75 — Second Year of Production	Straw Mulch	7.00	_		45.00		315.00		
Labor Remove mulch 8.00 hrs 10.00 80.00 — Fertilizer spreading 1.00 hrs 10.00 10.00 — Hand hoeing 30.00 hrs 10.00 300.00 — Mowing 1.00 hrs 10.00 10.00 — Renovation 4.00 hrs 10.00 40.00 — Mulching 16.00 hrs 10.00 160.00 — Irrigation tear down & set up 2.00 hrs 10.00 20.00 — Interest on Est. and 1st Year Costs \$3,392.85 0.035 118.75 — Total Pre-Harvest Costs \$1,098.75 Harvest (Production - qts) 4,000 — 0.15 \$150.00 — Containers 1,000 0.15 \$150.00 — Trays for u-pick 100 tray 1.00 100.00 — Labor Pickers 1,000 qt 0.75 750.00 — Total Harvest Costs \$1,000.00 — \$2,098.75 — <td colspa<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td>	<td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Remove mulch 8.00 hrs 10.00 80.00 — Fertilizer spreading 1.00 hrs 10.00 10.00 — Hand hoeing 30.00 hrs 10.00 300.00 — Mowing 1.00 hrs 10.00 10.00 — Renovation 4.00 hrs 10.00 40.00 — Mulching 16.00 hrs 10.00 160.00 — Irrigation tear down & set up 2.00 hrs 10.00 20.00 — Interest on Est. and 1st Year Costs \$3,392.85 0.035 118.75 — Total Pre-Harvest Costs \$1,098.75 Harvest (Production - qts) 4,000 — — Containers 1,000 0.15 \$150.00 — Trays for u-pick 100 tray 1.00 100.00 — Labor Pickers 1,000 qt 0.75 750.00 — Total Harvest Costs \$1,000.00 — Total Pre-harvest and harvest costs - Year 1 \$2,098.75 —	Labor		Buics						
Fertilizer spreading		8.00	hrs		10.00		80.00		
Hand hoeing 30.00 hrs 10.00 300.00									
Mowing 1.00 hrs 10.00 10.00 ————————————————————————————————————									
Renovation 4.00 hrs 10.00 40.00 — Mulching 16.00 hrs 10.00 160.00 — Irrigation tear down & set up 2.00 hrs 10.00 20.00 — Interest on Est. and 1st Year Costs \$3,392.85 0.035 118.75 — Total Pre-Harvest Costs \$1,098.75 — — Harvest (Production - qts) 4,000 — — — Containers 1,000 — 0.15 \$150.00 — Trays for u-pick 100 tray 1.00 100.00 — Labor Pickers 1,000 qt 0.75 750.00 — Total Harvest Costs \$1,000.00 — \$2,098.75 — Second Year of Production	e e					-			
Mulching Irrigation tear down & set up 16.00 hrs 10.00 160.00 20.00 160.00 20.00 160.00 20.00 100.									
Irrigation tear down & set up 2.00 hrs 10.00 20.00									
Total Pre-Harvest Costs \$1,098.75 Harvest (Production - qts) 4,000									
Harvest (Production - qts) 4,000 —<	Interest on Est. and 1st Year Costs	\$3,392.85			0.035		<u>118.75</u>		
Harvest (Production - qts) 4,000 —<	Total Pre-Harvest Costs						\$1,098,75		
Containers 1,000 — 0.15 — \$150.00 — Trays for u-pick 100 tray 1.00 100.00 — Labor Pickers 1,000 qt — 0.75 — 750.00 — Total Harvest Costs \$1,000.00 — \$2,098.75 — Second Year of Production		4.000					Ψ1,000.10		
Trays for u-pick 100 tray 1.00 100.00					0.15		\$150.00		
Labor Pickers 1,000 qt 0.75 750.00 — Total Harvest Costs \$1,000.00 Total pre-harvest and harvest costs - Year 1 \$2,098.75 — Second Year of Production			trav						
Pickers 1,000 qt 0.75 750.00	· -		/						
Total Harvest Costs \$1,000.00 Total pre-harvest and harvest costs - Year 1 \$2,098.75 Second Year of Production		1,000	qt		0.75		750.00		
Second Year of Production									
	Total pre-harvest and harvest costs	- Year 1					\$2,098.75		
	Second Year of Production								
		irst Year of Pr	oduction))			\$1,098.75		

	Strawberries: One Acre (cont.)							
	Quantity		Your Quantity	\$/Unit	Your \$/Unit	Total	Your Total	
Harvest (Production - qts) Containers Trays for u-pick Labor	3,000 1,000 75.00	tray		0.15 1.00		\$150.00 75.00		
Pickers	1,000	qt		0.75		<u>750.00</u>		
Total Harvest Costs						\$975.00		
Total Pre-Harvest and Harvest Costs	s - Year 2					\$2,073.75		
Third Year of Production								
Total Pre-Harvest Costs (Same as Fi	rst Year of Pro	oduction)			\$1,098.75		
Harvest (Production - qts) Containers Trays for u-pick Labor	2,000 1,000 50.00	tray		0.15 1.00		\$150.00 50.00		
Pickers Total Harvest Costs	1,000	qt		0.75		750.00 \$950.00		
Total Pre-Harvest and Harvest Costs	s - Year 3					\$2,048.75		
Average Total Variable Costs Per acre Per qt						\$2,073.75 0.69		
Ownership Costs (Annual) Irrigation System Machinery (cycle mower and trace Land Total Ownership Costs	tor)					\$80.00 500.00 160.00 \$740.00		
						\$170.00		
Preproduction Costs Amortized over 3 years						\$804.28		
Total Costs (Annual) Per acre Per qt						\$3,618.03 1.21		
Annual Returns Over Variable Co	sts					\$5,426.25		
Annual Returns Over Total Costs						\$3,881.97		

			es, Cherry: 10				
	Quar	tity	Your Quantity	\$/Unit	Your \$/Unit	Total	Your Total
Receipts	145	11		2.25		¢226.25	
Cherry tomato sales	145	lbs		2.25		\$326.25	
Total Receipts						\$326.25	
Planting Year							
Supplies							
Seed - cover crop	0.75	lbs		0.60		\$0.45	
Seed	0.25	packet		3.00		0.75	
Soil mix	0.25	bag		5.00		1.25	
Fertilization	10	lbs		0.15		1.50	
Straw mulch	4	bales		2.50		10.00	
Cages	20	cages		0.10		2.00	
Labor	0.05	1		10.00		0.50	
Cover crop Soil mix	0.05 1.00	hrs hrs		10.00 10.00		0.50 10.00	
Fertilizer spreading	0.10	hrs		10.00		1.00	
Transplanting	1.50	hrs		10.00		15.00	
Irrigation set up	0.25	hrs		10.00		2.50	
Mulch, set cages	2.00	hrs		10.00		20.00	
Interest on pre-harvest costs	\$64.95	1113		0.035		2.27	
Total Pre-Harvest Costs	Ψ01.23			0.033		\$67.22	
						\$01.22	
Harvest	1.48	,		2.22		4.4.2 7	
Bags (1 lb)	145	bags		0.03		\$4.35	
Labor Harvest labor	4.00	lawa		10.00		40.00	
Packaging	4.00 0.30	hrs hrs		10.00 10.00		40.00 3.00	
Removing cages/vines	2.00	hrs		10.00		<u>20.00</u>	
Total Harvest Costs	2.00	1113		10.00		\$67.35	
						\$07.33	
Total Variable Costs							
Per bed						\$134.57	
Per lb						0.93	
Ownership Costs (Annual)							
Irrigation system						1.14	
Machinery						7.14	
Ownership costs (approx. 10 ⁶	% of gross sa	ıles)				<u>2.29</u>	
Total Ownership Costs						\$10.57	
T : 10 : (1 1)							
Total Costs (Annual)						¢145 14	
Per bed Per lb						\$145.14	
						1.00	
Annual Returns Over Variable	e Costs					\$191.68	
Annual Returns Over Total C	osts					\$181.11	

	To	omatoe	s, Heirloom:	100' x 4'	bed		
	Quantity		Your Quantity	\$/Unit	Your \$/Unit	Total	Your Total
Receipts							
Heirloom tomato sales	400	lbs		1.75		<u>\$700.00</u>	
Total Receipts						\$700.00	
Planting Year							
Supplies							
Seed - cover crop	0.75	lbs		0.60		\$0.45	
Seed	0.25	packet		3.00		0.75	
Soil mix	0.25	bag		5.00		1.25	
Fertilization	10	lbs		0.15		1.50	
Straw mulch	4	bales		2.50		10.00	
Cages	20	cages		0.10		2.00	
Labor		O					
Cover crop	0.05	hrs		10.00		0.50	
Soil mix	1.00	hrs		10.00		10.00	
Fertilizer spreading	0.10	hrs		10.00		1.00	
Transplanting	1.50	hrs		10.00		15.00	
Irrigation set up	0.25	hrs		10.00		2.50	
Mulch, set cages	2.00	hrs		10.00		20.00	
Interest on pre-harvest costs	\$64.95	1113		0.035		20.00 2.27	
Total Pre-Harvest Costs	ΨΟ 1.23			0.033		\$67.22	
						\$01.22	
Harvest							
Bags (1 lb)	400	bags		0.03		\$12.00	
Labor							
Harvest labor	4.00	hrs		10.00		40.00	
Packaging	0.30	hrs		10.00		3.00	
Removing cages/vines	2.00	hrs		10.00		<u>20.00</u>	
Total Harvest Costs						\$75.00	
Total Variable Costs							
Per bed						\$142.22	
Per lb						0.36	
						0.50	
Ownership Costs (Annual)							
Irrigation system						\$1.14	
Machinery						7.14	
Land						<u>2.29</u>	
Total Ownership Costs						\$10.57	
Total Costs (Annual)							
Per bed						\$152.79	
Per lb						0.38	
	6 .						
Annual Returns Over Variabl						\$557.78	
Annual Returns Over Total C	osts					\$547.21	

Iowa State University Extension Publications

Check out these other fruit and vegetable production publications from Iowa State University Extension. These publications are available through any ISU Extension county office, online at https://www.extension.iastate.edu/store/ or by calling (515) 294-5247.

B 0861 Midwest Small Fruit Pest Management Handbook

FG 0601 Annual Fruit/Vegetable Progress Report

IDEA 0002 Small Fruits - Insect and Disease Management for Backyard Fruit Growers in the Midwest IDEA 0003 Tree Fruits - Insect and Disease Management for Backyard Fruit Growers in the Midwest

NRAES 0022 Refrigeration and Controlled Atmosphere for Horticulture Crop

NRAES 0033 Greenhouse Engineering

NRAES 0043 Composting to Reduce the Waste Stream

NRAES 0072 Greenhouse Systems - Automation, Culture, and Environment

PD 0031 Plant Disease Identification Form

PM 0230 Insect and Disease Management in the Vegetable Garden PM 0534 Planting and Harvesting Times for Garden Vegetables

PM 0608 Tomatoes

PM 0666 Weed Management in the Home Garden
PM 0672D Production Guide for Commercial Strawberries

PM 0683 Composting Yard Waste PM 0717 Growing Strawberries at

PM 0717 Growing Strawberries at Home PM 0719 Rhubarb in the Home Garden PM 0820 Garden Soil Management

PM 1204 Morels, False Morels and Other Cup Fungi

PM 1239 Growing and Drying Herbs

PM 1295A Strawberries - Alternative Ag Enter

PM 1375 Midwest Commercial Small Fruit and Grape Spray Guide 2006

PM 1502 Reducing Insecticide Use in the Home Garden
PM 1536A Calling ISU About Plant and Insect Problems
PM 1542 Tips for Providing Plant and Insect Samples to ISU

PM 1692 Local Food Systems for Iowa

PM 1693 Iowa CSA Farms, 2003 Statewide List of Iowa CSA Farms, Producers, and Organizers PM 1694 Iowa Community Supported Agriculture Resource Guide for Producers and Organizers

PM 1706 Growing Raspberries in the Home Garden

PM 1788 Growing Fruit in Iowa PM 1887 Selling Fruits and Vegetables

RG 201 Integrated Pest Management for Vegetable Gardens

RG 0204 Apply Pesticides Safely
RG 0205 Store Pesticides Safely
RG 0206 Questions About Composting

RG 0207 Nonchemical Pest Control for the Home Lawn and Garden

RG 0208 Botanical Insecticides in the Home Garden

RG 0209 Organic Mulches RG 0501 Pruning Raspberries

ST 0011 Soil Sample Information Sheet for Horticulture Crops

Prepared by Craig Chase, farm management field specialist, Iowa State University Extension. This project was funded by a grant from the Leopold Center for Sustainable Agriculture located at Iowa State University.



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