

These crop budgets are a tool for estimating expenses. The sample costs are only a guide to illustrate a method of preparing your projections. They are based on many assumptions, including seeding rates, levels of fertilizer use, etc. Due to regional differences, there may be considerable variation in results.

To project your break-even price after total costs, enter your farm figures in the spaces provided. The resulting estimate will help you choose your crop mix and set target prices and marketing strategies for your farm.

Electronic versions of these crop budget worksheets can be found at ontario.ca/agbusiness under Cost of Production Budgets.

The use of imperial and metric measurement in this publication reflects the way information is reported by industry. Fertilizer rates are typically reported in kilogram (kg)/hectare. See page 20 for metric and imperial conversions.

Front cover: Field of soybeans mid-season.

Back cover: Sprout of recently appeared corn. Photo source: Shutterstock.

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2021 FIELD CROP BUDGETS

Crop budgets are a management tool to estimate costs and evaluate cropping alternatives. The sample costs are not averages or recommended treatments. The budgets comprise treatments derived from crop advisors in the areas where the crops are commonly grown. There will be differences due to growing region, cropping practices, individual needs and yield expectations. The budgets, unless indicated otherwise, are based on conventional tillage practices. Seed costs, except for the *Bacillus thuringiensis* (Bt), Roundup Ready (RR) and herbicide-tolerant corn, spring canola and soybeans, are for non-genetically enhanced varieties. The budgets developed for Bt, RR or herbicide-tolerant varieties do not represent an endorsement of these products. They are included due to the current predominance of these production systems in field crop operations.

Identity Preserved (IP) crops require budgeting for any extra expenses and revenue, e.g., increased seed, weed control, storage and equipment cleaning costs. Some of the budgets provide a line item for this.

Interest rates were calculated at 3.45% for the period between planting and harvest.

These budgets will be most meaningful if you use your expected yields and specific costs in developing production plans. Input prices for seed, fertilizer, fuel and pesticides were based on the survey results reported in the Ontario Farm Input Monitoring Project conducted by the University of Guelph, Ridgetown campus. The production insurance and risk management program premiums shown are the producer premiums at the highest coverage level and at the floating price, if available.

The estimated costs for machinery are derived from agricultural engineering formulas and Ontario average custom rates. The Ontario average custom rates are allocated across the six machinery-related expenses. It is recommended that you use your records to derive your costs. Experience is the best guide to help budget machinery costs. Prior year's statements of income and expenses can provide information on equipment repairs, maintenance and fuel costs. The portion of those costs that relates to crop production can be divided by the acres of crop produced to arrive at a cost per acre.

Overhead expenses are a major part of the total cost of doing business. In addition to the depreciation of machinery, include depreciation on all related tools and storage buildings. Land costs would include property tax and any other land-related costs. Other overhead expenses should include insurance, professional fees, office, vehicles and storage. In all cases, divide overhead expenses by the acreage of crop to express costs on a per-acre basis. Interest on investment is an opportunity cost to you — the rate of return that you expect or want on your invested capital.

If there are significant debt commitments for land and equipment, an alternative method of budgeting overhead expenses is to use the debt servicing requirements. In this case, use the actual interest and principal payment commitments, rather than depreciation and expected return on invested capital.

"Total Revenue" is the yield you expect, multiplied by the price you expect. Yield information is most accurate if based on your experience with the land and techniques you will be using. If you do not have such records, check with AGRICORP or a local farm supply dealer. They can help you develop plans and reasonable expectations for your crops.

"Contribution Margin" is the difference between total operating expenses and total revenue. "Operating Expenses" (e.g., seed, fertilizer, fuel, repairs, etc.) change with the crop grown and the production blend used. "Fixed or overhead costs" will show little or no change whether one crop or another is grown. "Contribution Margin" is a quick and easy measure for comparing relative profitability among your cropping choices.

Table 1. Adjustment of nitrogen requirements for previous crops with nitrogen credits	N requiremen	
Type of crop	Corn	Other Crops
Perennial forage, less than one-third legume	0	0
Perennial forage, one-third to half legume	55	55
Perennial forage, half or more legume	110	110
Clover cover crop seeded/ploughed in same year	80	45¹
Soybean and field bean residue	30	0
¹ Applies where the legume stand is thick and over 40 cm (16 in.) high.		

2021 Crop Comparison Summary Table for Selected Field Crops (\$/acre)*

_	-		-				_		-
Expense	Corn Conventional Tillage	Herbicide- Tolerant Spring Canola	Non-GMO Soybeans No Till	Roundup Ready Soybeans No Till	Coloured Beans	White/ Black Beans	Soft Red Winter Wheat No Till	Oats (Southern Ontario)	Hard Red Spring Wheat
Seed	110.75	89.50	52.35	78.15	150.00	88.40	69.45	47.00	70.90
Seed treatment	1.60	_	13.00	13.00	_	-	_	_	_
Fertility	123.75	98.30	41.00	41.00	40.10	40.10	97.25	68.20	64.15
Pesticides	25.25	54.80	82.65	27.00	121.85	130.35	40.70	25.15	30.20
Total Inputs	261.35	242.60	189.00	159.15	311.95	258.85	207.40	140.35	165.25
Tillage	63.00	56.00	_	_	97.00	61.00	_	56.00	56.00
Planting	25.00	22.00	26.00	26.00	25.00	30.00	27.00	22.00	22.00
Spraying	11.00	33.00	22.00	22.00	44.00	55.00	33.00	33.00	22.00
Fertilizing	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
Harvesting & trucking	87.85	51.00	57.50	57.50	117.75	66.00	66.30	56.35	58.80
Total Machinery	198.85	174.00	117.50	117.50	295.75	224.00	138.30	179.35	170.80
	1								
Drying	96.95	_	-	-	_	_	_	_	_
Production insurance	12.20	16.45	8.60	8.60	24.45	16.95	10.15	7.20	9.25
Risk management	6.90	10.35	3.00	3.00	0.20	1.30	3.85	10.00	4.90
Interest @ 3.45%	9.70	6.85	5.20	4.70	8.70	7.65	9.90	4.20	5.10
Marketing & other	43.35	4.00	13.80	13.80	5.85	6.80	1.90	1.70	1.25
Total Costs	629.30	454.25	337.10	306.75	646.90	515.55	371.50	342.80	356.55
	1								
Yield									
Price									
Gross Return									
Net Margin/Acre									
Less:									
Land cost/rent									
Utilities/acct/misc.									
Net Return per Acre									
* The eren comperison	aumman, table is	dariyad fram	the individue	al budgata in	the publication	on Como o	vnanca itam	a haya baan a	ambinad

^{*} The crop comparison summary table is derived from the individual budgets in the publication. Some expense items have been combined in the summary table. For the break-out of the individual expenses, refer to the respective budget in the publication.

Crop Budgeting Tools:

- Ontario Enterprise Budgeting Tools: ontario.ca/agbusiness, search for "budgeting tools"
- Custom Farmwork Rates: ontario.ca/agbusiness, search for "custom farm rates"
- Custom Farmwork Rate calculator: ontario.ca/agbusiness, search for "custom farm rate calculator"
- Field Crop Statistics: Harvested Area, Production, Crop Prices, Corn Supply and Disposition: ontario.ca/agbusiness, search for "field crop statistics"
- Crop Nutrient Removal calculator (from IPNI): www.ipni.net/article/IPNI-3346
- Corn Nitrogen calculator: www.gocorn.net
- Mobile Apps: Cash Cropper, Pest Manager and Ontario Corn Nitrogen Calculator: www.gfo.ca/apps

ALFALFA-TIMOTHY HAY

DIRECT SEEDING E	STABLISHI	MENT	Sample Costs/ Acre	Your Farm Budget
Seed	13.45 kg	g/ha alfalfa	74.15	
Other seed (timothy)	4.48 kg/	ha	13.95	
Inoculant			1.05	
Fertility	crop	24 kg/ha P ₂ O ₅ (6.1 kg/tonne removal rate)	8.85	
	removal	92 kg/ha K ₂ 0 (23.5 kg/tonne removal rate)	30.40	
Herbicide	broadlea	f weed control	15.90	
Production insuranc	e		4.20	
Tractor and	fuel (37	L) and lubricants	40.50	
machine expenses	repairs		41.40	
Custom work	2 pestici	de applications	22.00	
	2 fertilize	er applications, mixing and delivery	24.00	
	ļ	oping — plastic — 50% yield	42.40	
Twine		· · · · · · · · · · · · · · · · · · ·	2.10	
Operator labour (sel	f or hired)		27.85	
Interest	/		11.05	
	Total Establishment Year Expense			
ANNUAL OPERATIN	359.80 over 2 cuts)			
		— over 4 years (less establishment year sales)		
Fertility	crop	47 kg/ha P ₂ O ₅ (6.1 kg/tonne removal rate)	17.60	
Continey	removal	183 kg/ha K ₂ O (applied in fall) (23.5 kg/tonne removal rate)		
Tractor and		L) and lubricants	28.10	
machine expenses	repairs	L) and rabilicants	32.10	
Twine	ТСРАПЗ		4.20	
Production insuranc			21.25	
Custom work		er applications, mixing and delivery	24.00	
Custom work		oping — plastic	84.80	
Other costs	Dale Wia	pping — piastic	04.00	
			-	
Land rent	£ - : \			
Operator labour (sel			28.80	
Interest on operatin	8		6.25	
		Total Annual Operating Expenses	307.70	
REVENUE				
Expected yield				
Expected price				
	-		ie (Yield x Price)	
0\/=DII=15	.=0	CONTRIBUTION MARGIN (Revenue – Ope	rating Expenses)	
OVERHEAD EXPENS	1			
Machinery	deprecia		32.95	
	interest	on investment	15.85	
Land			_	
Other overhead			6.85	
	_	WING CROPS IN ROTATION		
		duction (from Table 1) x price of N)		
Grain yield increase				
Total benefits/year				
		TOTAL EXPENSES	363.35	
		Break-even price on your farm (total expenses	/expected yield):	

BARLEY

					Feed Barley	Malting Barley	
OPERATING EXPENS	ES				Sample Costs/	Sample Costs/	Your Farm
(costs based on proje	ected yield	of 1.5 tonnes	/acre (70 bu/acı	re))	Acre	Acre	Budget
Expenses for Grain							
Seed			acre, certified see		56.40	56.40	
Fertility			a Urea (Northern		53.65	_	
			Urea (Southern C		42.70	-	
			Urea (Eastern On		26.60	_	
			6 kg/ha Urea (Ma		_	26.60	
	crop		₅ (8.0 kg/tonne re		11.30	11.30	
	removal		(6.3 kg/tonne re	moval rate)	7.90	7.90	
Herbicide		roadleaf weed control			10.55	10.55	
	grassy we	eed control	,		9.60	9.60	
Fungicide	6 1 (00)				19.65	19.65	
Tractor and machine		uel (26 L) and lubricants			28.60	28.60	
expenses	repairs a	nd maintenanc	e		25.45	25.45	
Production insurance		nm			7.20	7.20	
Risk Management Pro			12.10	12.10			
	larketing board fees (\$1.19/tonne) ustom work fertilizer application, mixing and delivery				1.80	1.80	
Custom work			king and delivery		12.00	12.00	
		de application		22.00	22.00		
	other				-	-	
Trucking (\$9.00/tonn	e)				13.70	13.70	
Storage					_	_	
Quality testing					_	_	
Land rent						_	
Operator labour (self	or hired)				12.65	12.65	
Interest on operating					6.65	6.40	
			rain (Feed (avera		298.55	283.90	
Expenses for Straw (1						
Fertility	crop		5 (2.6 kg/tonne re		4.55	4.55	
			(20.0 kg/tonne r	removal rate)	31.30	31.30	
Tractor and machine		and lubricants			6.15	6.15	
expenses	repairs a	nd maintenanc	e		7.20	7.20	
Twine					6.50	6.50	
Other					13.90	13.90	
		T	otal Operating Ex		69.60	69.60	
			Total Ope	erating Expenses	368.15	353.50	
REVENUE							
Expected barley yield							
Expected barley price							
			Total	Market Revenue	(Yield x Price)		
Program payment							
				Total	Barley Revenue		
Expected straw yield							
Expected straw price							
			Tota	al Straw Revenue			
				_	Total Revenue		
		CONTRIB	UTION MARGIN (·	 /		
				Barley		g Barley	
OVERUEAR EVER			Portov Only	Barley & Straw	Barley Only	Barley & Straw	
OVERHEAD EXPENSE	1		Barley Only				
OVERHEAD EXPENSE Machinery	depreciat		37.65	46.05	37.65	46.05	
Machinery	depreciat	ion on investment				46.05 15.45	
Machinery Land	depreciat		37.65 13.05	46.05 15.45	37.65 13.05	15.45 -	
Machinery	depreciat interest o		37.65	46.05	37.65		

SPRING CANOLA (Herbicide Tolerant)

OPERATING EXPEN	Sample Costs/ Acre	Your Farm Budget			
Seed	5.6 kg/h	a hybrid, treated	89.50		
Fertility	110 kg/l	na N (188 kg/ha urea + 112 kg/ha ammonium sulphate) ¹	65.70		
	crop	61 kg/ha P ₂ O ₅ (24.5 kg/tonne removal rate)	22.70		
	removal	30 kg/ha K ₂ 0 (12.0 kg/tonne removal rate)	9.90		
Herbicide	grass an	d broadleaf weed control	11.90		
Technology use agr	eement		_		
Insecticide	if require	d (swede midge)	21.90		
Fungicide	if require	d	21.00		
Tractor and	fuel (30	_) and lubricants	33.50		
machine expenses	repairs a	nd maintenance	22.00		
Marketing board ar	d Grain Fir	ancial Protection fees (\$4.00/tonne)	4.00		
Production insurance			16.45		
Risk Management I	Risk Management Program				
		application, mixing and delivery	12.00		
		de applications	33.00		
	_				
Trucking (\$9.00/to	Frucking (\$9.00/tonne) 9.00				
Storage			_		
Land rent			_		
Operator labour (se	elf or hired)		15.50		
Interest on operatir			6.85		
		Total Operating Expenses	405.25		
REVENUE					
Expected yield					
Expected price					
		Total Market Revenu	ie (Yield x Price)		
Program payment					
			Total Revenue		
		CONTRIBUTION MARGIN (Revenue – Ope	rating Expenses)		
OVERHEAD EXPEN	SES		<u> </u>		
Machinery	deprecia	depreciation			
,	-	on investment	33.90 9.90		
Land			_		
Other overhead			5.45		
		TOTAL EXPENSES	454.50		
		Break-even price on your farm (total expenses	/expected vield):		

Nitrogen rate is based on nitrogen price of \$1.19/kg (\$0.54/lb) N and a canola price of \$500/tonne. 112 kg/ha ammonium sulphate (21-0-0-24) supplies 27 kg/ha sulphur.

See the canola section of the OMAFRA Agronomy Guide for Field Crops, Publication 811, for more accurate nitrogen requirements for canola, adjusted for yield and fertilizer cost.

WINTER CANOLA

OPERATING EXPENSES (costs based on projected yield of 1.3 tonnes/acre) Sample Costs/ Acre					
Seed*	,	— hybrid, treated	75.30		
Fertility**	195 kg/ha	a N (373 kg/ha urea + 112 kg/ha ammonium sulphate) ¹	106.05		
	crop	80 kg/ha P ₂ O ₅ (24.5 kg/tonne removal rate)	29.55		
	removal	39 kg/ha K ₂ O (12.0 kg/tonne removal rate)	12.95		
Herbicide	volunteer	cereal control	11.85		
nsecticide	if required	(cabbage seedpod weevil)	21.90		
Fungicide	if required		21.00		
Tractor and	fuel (24 L)	, lubricants	26.60		
machine expenses	repairs an	d maintenance	16.05		
Marketing board and	d Grain Fina	ancial Protection fees (\$4.00/tonne)	5.20		
Production insuranc	e		16.45		
Risk Management F	Program		13.45		
Custom work	fertilizer a	pplication, mixing and delivery	12.00		
	3 pesticide	e applications	33.00		
	other		-		
rucking (\$9.00/tonne) 11.70					
Storage			-		
Land rent			_		
Operator labour (se	If or hired)		12.05		
Interest on operatin	g		7.35		
		Total Operating Expenses	432.45		
REVENUE					
Expected yield					
Expected price					
		Total Market Revenu	ie (Yield x Price)		
Program payment					
			Total Revenue		
		CONTRIBUTION MARGIN (Revenue – Ope	rating Expenses)		
OVERHEAD EXPENS	SES		·		
Machinery	depreciation		24.35		
	interest or	n investment	7.35		
Land			_		
Other overhead			2.25		
		TOTAL EXPENSES	466.40		
		Break-even price on your farm (total expenses	/expected yield):		

Seeding rate recommended range is 3.4–5.6 kg/ha (3–5 lb/acre). Tr
 ** Additional nitrogen in the fall may be beneficial if seeding is delayed.

¹¹² kg/ha ammonium sulphate (21-0-0-24) supplies 27 kg/ha sulphur.

COLOURED BEANS

OPERATING EXPENSES (costs based on projected yield of 0.86 tonnes/acres (19 cwt/acre)) Acre					
· · · · · · · · · · · · · · · · · · ·		g/ha (4–5 seeds/ft row) certified, treated seed (with	150.00	Budget	
		e plus Cruiser insecticide)			
	40 kg/h		19.00		
,	crop	30 kg/ha P ₂ O ₅ (14.0 kg/tonne removal rate)	11.15		
	removal	30 kg/ha K ₂ 0 (14.0 kg/tonne removal rate)	9.95		
Herbicide	annual g	rass and broadleaf weeds	69.15		
	other we	ed control, if required	_		
Insecticide			_		
Fungicide	if require	ed (white mould)	44.70		
Crop pre-harvest			8.00		
	fuel (45	L) and lubricants	49.55		
		and maintenance	48.70		
Marketing board fees	s (\$6.80)	/tonne)	5.85		
Production insurance		· · · ·	24.45		
Risk Management Pr	rogram		0.20		
		application, mixing and delivery	12.00		
<u> </u>		ide applications	44.00		
Trucking (\$9.00/tonne) 7.75					
Drying			-		
Land rent			_		
Operator labour (self	or hired		25.10		
Interest on operating	<u></u>		8.70		
		Total Operating Expenses	538.25		
REVENUE					
Expected yield					
Expected price					
		Total Market Revenu	ie (Yield x Price)		
Less pick charges (ty	ypically 2	%–4%)			
Program payment					
			Total Revenue		
		CONTRIBUTION MARGIN (Revenue – Ope	rating Expenses)		
OVERHEAD EXPENS	ES				
Machinery	depreciation		71.90		
	interest	on investment	25.50		
Land			_		
Other overhead			11.60		
		TOTAL EXPENSES	647.25		
		Break-even price on your farm (total expenses	/expected yield):		

GRAIN CORN

				Tillage System		
				Non-GMO		
			Conventional	Conventional	No-Till	Your
OPERATING EXPENS	SES		Sample	Sample	Sample	Farm
(costs based on proj	ected yield	of 4.43 tonnes/acre (174 bu/acre))	Costs/Acre	Costs/Acre	Costs/Acre	Budge
Seed1 (average	32,000 k	ternels — treated — RR ²	109.50	_	109.50	
cost of 3 hybrids)	32,000 k	kernels — treated — Bt	99.10	-	99.10	
	32,000 k	ernels — treated — multi-trait	123.55	-	123.55	
	32,000 k	ernels — treated — non-GMO	_	89.00	_	
Insecticide seed trea	tment, if r	equired	1.60	1.60	1.60	
Fertility ³	173 kg/h	na N (618 kg/ha of 28-0-0 U.A.N.)	75.95	75.95	75.95	
•	crop	80 kg/ha P ₂ O ₅	29.80	29.80	29.80	
	removal	(7.25 kg/tonne removal rate)				
		54 kg/ha K ₂ O	18.00	18.00	18.00	
		(4.9 kg/tonne removal rate)				
Herbicide	annual gi	rass and broadleaf weed	25.25	31.55	25.25	
	burndowr		_	_	11.40	
	other wee	ed control, if required	_	_	_	
Insecticide/fungicide			_	_	_	
Tractor and		conventional, 19 L no-till) and lubricant	37.85	37.85	20.70	
machine expenses		nd maintenance	26.15	26.15	15.05	
Marketing board and		ancial Protection fees (\$0.401/tonne)	1.75	1.75	1.75	
Production insurance		110101 1 101001011 1000 (\$\pi\$ 1 10\pi\$)	12.20	12.20	12.20	
Risk Management Pr			6.90	6.90	6.90	
Custom work		application, mixing and delivery	12.00	12.00	12.00	
Oustoni work		applications	11.00	11.00	22.00	
	other	аррпсанонз	11.00	11.00	22.00	
Trucking (\$9.00/toni	1		39.85	39.85	39.85	
Drying (\$21.90/tonn		<u> </u>	96.95	96.95	96.95	
Land rent	ie, o points	5)	90.93	90.93	90.93	
Operator labour (self	or hirad)		15.30	15.30	8.00	
Storage (\$2.35/tonr		(A months)	41.60	41.60	41.60	
		(4 monuis)	9.70		9.45	
Interest on operating	5	Takal Outside Function		9.45		
DEVENUE		Total Operating Expenses	572.55	556.90	559.15	
REVENUE	/0	faller in a serie O FOV series in II decree	\			<u> </u>
Expected yield	(Cor	n following corn: 8.5% corn yield decrea	ase)			
Expected price					~~	
			lotai ivi	arket Revenue	(Yleid X Price)	
Program payment						
					Total Revenue	
		CONTRIBUTIO	N MARGIN (Re	venue – Operat	ing Expenses)	
OVERHEAD EXPENS						
Machinery	depreciat	ion	39.75	39.75	22.35	
	interest o	on investment	12.55	12.55	7.15	
Land			_	_	_	
Other overhead			4.40	4.40	2.90	
		TOTAL EXPENSES	629.25	613.60	591.55	

Seed treated with fungicide only.

See www.gocorn.net for more accurate nitrogen requirements for corn.

Roundup Ready.

Nitrogen rate is based on the nitrogen rate calculator. Nitrogen recommendation is for corn grown in southwestern/central Ontario, 2,800 heat units, clay loam soil, following wheat with straw removed, with projected corn yield of 4.43 tonnes/acre (174 bu/acre), nitrogen cost of \$1.10/kg and corn price of \$189/tonne (\$4.80/bu).

SILAGE CORN

OPERATING EXPENSES (costs based on projected yield of 8.71 tonnes DM/acre) Sample Costs/ Acre			Your Farm Budget			
Seed Seed on project	cted yield of 8.71 tonnes DM/acre) Acre 32,000 kernels, with seed treatment 111.10					
Insecticide seed treat						
	· · · · · · · · · · · · · · · · · · ·					
Fertility ¹	173 kg/ha N (618 kg/ha of 28-0-0 U.A.N.)	75.95				
	crop 120 kg/ha P ₂ O ₅ (5.5 kg/tonne removal rate) removal 254 kg/ha K ₂ O (11.7 kg/tonne removal rate)	44.45				
	20 1 kg/ na 120 (1111 kg/ torme formevar rate)	84.15				
Herbicide	annual grass and broadleaf weeds	25.25				
	other weed control, if required	-				
Insecticide/fungicide	if required	-				
Tractor and machine	fuel (18 L) and lubricants	19.70				
expenses	repairs and maintenance	18.50				
Silo repair and mainte	enance	-				
Production insurance 12.20						
Silage inoculant		_				
Custom work	fertilizer application, mixing and delivery	12.00				
	pesticide applications	11.00				
	harvest	90.00				
Land rent		-				
Operator labour (self	or hired)	8.90				
Interest on operating		8.90				
	Total Operating Expenses	523.70				
REVENUE						
Expected yield						
Expected price						
	Total Market Revenu	e (Yield x Price)				
Program payment						
		Total Revenue				
	CONTRIBUTION MARGIN (Revenue – Oper	rating Expenses)				
OVERHEAD EXPENSE	is a second seco					
Machinery	depreciation	27.30				
	interest on investment	9.70				
Land		_				
Other overhead		4.65				
	TOTAL EXPENSES	565.35				
	Break-even price on your farm (total expenses					

Nitrogen rate is based on the nitrogen rate calculator. Nitrogen recommendation is for corn grown in southwestern/central Ontario, 2,800 heat units, clay loam soil, following wheat with straw removed, with projected grain corn yield of 4.43 tonnes/acre (174 bu/acre), ensiled at 65% moisture, nitrogen cost of \$1.10/kg and corn price of \$189/tonne (\$4.80/bu).

See www.gocorn.net for more accurate nitrogen requirements for corn.

FLAX

OPERATING EXPE (costs based on p		Sample Costs/ Acre	Your Farm Budge		
Expenses for Grain	n				
Seed	49 kg/ha certif	ied, treated		28.45	
Fertility	45 kg/ha N			21.35	
	crop removal	24 kg/ha P ₂ O ₅ (7.5 kg/tonne	removal rate)	8.75	
		18 kg/ha K ₂ O (5.8 kg/tonne i	removal rate)	6.05	
Herbicide	broadleaf weed	control		5.50	
	grass weed cor	trol, if required		19.75	
	desiccant			9.50	
Fungicide				-	
Tractor and	fuel (26 L) and	lubricants		28.60	
machine expenses	repairs and ma	intenance		25.45	
Production insurar	- 1 - 1			8.75	
Custom work		ation, mixing & delivery		12.00	
	2 pesticide app			22.00	
	other				
Trucking (\$9.00/to				6.95	
Storage	JO _j			0.55	
Land rent					
Operator labour (s	olf or hired)			12.65	
Interest on operati	· · · · · · · · · · · · · · · · · · ·			3.70	
interest on operati	ıııg	Total Operating Exp	onoco Croin	219.45	
Evnances for Stra	w (aasts based o	n projected yield of 2.21 tonnes		219.45	
•			•	C EE	
Fertility	crop removal	18 kg/ha P ₂ O ₅ (3.2 kg/tonne		6.55 34.75	
Tue et eu eue el	fuel (CI) and l	105 kg/ha K ₂ 0 (19.0 kg/tonr	ie removai rate)		
Tractor and	fuel (6 L) and It			6.15	
machine expenses	repairs and ma	intenance		7.20	
Twine				7.60	
Other				13.90	
		Total Operating Exp		76.15	
		Total Oper	ating Expenses	295.60	
REVENUE					
Expected flax yield					
Expected flax price	e				
		Tota	Market Revenu	e (Yield x Price)	
Program payment					
			Tot	tal Flax Revenue	
		CONTRIBUTION MARGIN	(Revenue – Opei	rating Expenses)	
OVERHEAD EXPE	NSES		Flax Only	Flax & Straw	
Machinery	depreciation		37.65	46.05	
-	interest on inve	stment	13.05	15.45	
Land	1		_	_	
Other overhead			5.65	7.65	
		TOTAL EXPENSES	275.80	364.75	
		Break-even price on your farm			

OATS

OPERATING EXPENSION (costs based on pro		of 1.26 tonnes/acre (81 bu/acre))		Sample Costs/ Acre	Your Farm Budget
Seed		seeds/acre, certified treated		47.00	
Fertility		N (245 kg/ha Urea)		53.40	
	crop	24 kg/ha P ₂ O ₅ (7.5 kg/tonne removal rate)		8.75	
	removal	18 kg/ha K ₂ O (5.8 kg/tonne removal rate)		6.05	
Herbicide	weed contr	ol, if required		5.50	
Fungicide				19.65	
Plant growth regulat	or			14.85	
Tractor and	fuel (26 L)	and lubricants		28.60	
machine expenses	repairs and	maintenance		25.40	
Production insuranc	е			7.20	
Risk Management P	rogram			10.00	
Marketing board fee	s (\$1.34/to	nne)		1.70	
Custom work	fertilizer ap	plication, mixing and delivery		12.00	
	3 pesticide	applications		33.00	
Trucking (\$9.00/ton	ne)			11.35	
Storage				_	
Land rent				_	
Operator labour (sel	f or hired)			12.65	
Interest on operating	g			4.20	
		Total Operating Expens	es — Grain	301.30	
Expenses for Straw	(costs base	ed on project yield of 2.21 tonnes/acre)			
Fertility	crop	18 kg/ha P ₂ O ₅ (3.2 kg/tonne removal rate)	6.55		
-	removal	105 kg/ha K ₂ 0 (19.0 kg/tonne removal rate)		34.75	
Tractor and	fuel (6 L) a	nd lubricants		6.15	
machine expenses		maintenance		7.20	
Twine				7.60	
Other				13.90	
		Total Operating Expense	es — Straw	76.15	
		Total Operating		377.45	
REVENUE		room operating	5 =pooo	011110	
Expected oat yield _					
Expected oat price _					
,		Total Ma	rket Revenu	e (Yield x Price)	
Program payment				, , , , , , , , , , , , , , , , , , , ,	
			Tot	al Oats Revenue	
Expected straw yield	<u> </u>				
Expected straw price		-			
		Total S	raw Revenu	e (Yield x Price)	
		10,00		Total Revenue	
		CONTRIBUTION MARGIN (Rev	enue – Onei		
OVERHEAD EXPENS	SES		Oats Only	Oats & Straw	
Machinery	depreciatio	n	37.65	46.05	
	•	investment	13.05	15.45	
Land				10.40	
			5.65	7.65	
()ther overhead					
Other overhead		TOTAL EXPENSES	357.65	446.60	

SOYBEANS

			1	Γillage System	1	
			Non-GMO Soybeans Conventional	Non-GMO Soybeans No-Till	Roundup Ready No- Till	
OPERATING EXPENS		I of 1.28 tonnes/acre (47 bu/acre))	Sample Costs/Acre	Sample Costs/Acre	Sample Costs/Acre	Your Farm Budget
Seed		seeds/acre in 15-in. rows — drill	52.35	52.35	78.15	Duuget
Seed		seeds/acre in 15-in. rows — clinic seeds/acre in 15-in. rows — planter)	32.33	32.33	78.13	
Fungicide seed treati		, , , , , , , , , , , , , , , , , , , ,	13.00	13.00	13.00	
		noculants, If required	-	_	_	
Fertility	crop removal	45 kg/ha P ₂ O ₅ (14.0 kg/tonne removal rate)	16.60	16.60	16.60	
		74 kg/ha K ₂ 0 (23.0 kg/tonne removal rate)	24.40	24.40	24.40	
Herbicide		ass and broadleaf weeds	69.90	69.90	14.25	
	burndowr		_	12.75	12.75	
The constitute of the state		ed control, if required	_	_	_	
Insecticide/fungicide	if require		- 20.00	- 10.10	- 10.10	
Tractor and machine expenses		conventional, 17 L no till) and lubricants	28.60	19.10	19.10	
·		nd maintenance ancial Protection fees (\$1.39/tonne)	26.45 1.80	14.00	14.00	
Production insurance		ancial Protection fees (\$1.39/tonne)	8.60	1.80 8.60	1.80 8.60	
			3.00	3.00	3.00	
Risk Management Pr	ogram		3.00	3.00	3.00	
Drying, if required Custom work	posticido	applications	11.00	22.00	22.00	
Custom work		application, mixing and delivery	12.00	12.00	12.00	
Added expense for IF		application, mixing and delivery	12.00	12.00	12.00	
Trucking (\$9.00/tonr			11.50	11.50	11.50	
Storage (\$2.35/mon		(A months)	12.00	12.00	12.00	
Land rent	tilly torrito /	(+ mondis)	12.00	12.00	12.00	
Operator labour (self	or hired)		12.65	8.65	8.65	
Interest on operating			5.25	5.20	4.70	
interest on operating		Total Operating Expenses	309.10	306.85	276.50	
REVENUE	,	resum operating asperts				
Expected yield	(So)	beans following soybeans: 10% soybea	n yield decreas	se)		
Expected price						
			Total Mar	ket Revenue (Yield x Price)	
Additional revenue fr	om IP					
Program payment						
				1	Total Revenue	
		CONTRIBUTION	MARGIN (Reve	enue – Operati	ng Expenses)	
OVERHEAD EXPENS	ES					
Machinery	depreciat	ion	38.75	21.05	21.05	
	interest of	on investment	13.55	6.65	6.65	
Land				_	_	
Other overhead			6.00	2.60	2.60	
		TOTAL EXPENSES	367.40	337.15	306.80	
	,	Break-even price on	your farm (tota	l expenses/ex	(pected yield):	

SWITCHGRASS

		Direct 9	Seeded	
			No-Till	
ESTABLISHMENT EXPENSES (spring wheat costs based on projected yield of 1.33 tonnes/acre (51 bu/acre))		Sample	Sample	Your Farn
		Costs/Acre	Costs/Acre	Budget
Seed	11.25 kg/ha switchgrass	120.00	120.00	
Fertility	nitrogen, if required	_	_	
·	crop P ₂ O ₅	_	_	
	removal K ₂ O	_	_	
Herbicide	annual grass and broadleaf control	12.90	12.90	
	burndown	_	12.75	
	other weed control, if required	_	_	
Insecticide/fungicide	if required	_	_	
Tractor and machine	fuel (13 L conventional, 5 L no till) and lubricants	14.15	5.70	
expenses	repairs and maintenance	18.60	6.10	
Custom work	pesticide applications	11.00	22.00	
,	fertilizer applications, mixing and delivery			
Harvest and trucking (_	_	
Operator labour (self of		9.40	4.30	
Establishment failure		_	_	
Interest on operating		3.05	3.10	
merost on operating	Total Establishment Year Expenses	189.10	186.85	
ANNUAL OPERATING	EXPENSES (costs based on projected yield of 4.0 tonnes/			
	penses — over 7 years (less establishment year sales)	40.45	34.65	
Fertility	76 kg/ha nitrogen	36.70	36.70	
1 or emeg	$crop$ P_2O_5		-	
	removal K_2O	_		
Tractor and machine	fuel (18 L) and lubricants	20.15	20.15	
expenses	repairs and maintenance	31.90	31.90	
Custom work	fertilizer applications, mixing and delivery	12.00	12.00	
Trucking	Tertilizer applications, mixing and delivery	12.00	12.00	
Removal and storage		93.00	93.00	
Twine		33.00	33.00	
Operator labour (self o	ar hired)	12.95	12.95	
Interest on operating	i ilicu)	4.25	4.15	
interest on operating	Total Annual Operating Expenses	251.40	245.50	
REVENUE	Total Allilual Operating Expenses	231.40	243.30	
Expected yield				
Expected price				
Expected price		Total Bayanua	(Viold v Dries)	
	CONTRIBUTION MARGIN (R	Total Revenue		
OVERHEAD EXPENSES		evenue – Operat	ing Expenses)	
		44.60	44.60	
Machinery	depreciation			
Lond	interest on investment	17.35	17.35	
Land		-	-	
Other overhead		9.20	9.20	
	TOTAL EXPENSES	322.55	316.65	

SOFT RED WINTER WHEAT

					Tillage			
					Conventional No-Till		Your	
OPERATING EXPENSES			Sample Costs/	Sample Costs/	Farm			
(costs based on projected yield of 2.4 tonnes/acre (87 bu/acre))					Acre	Acre	Budget	
Expenses for Grain								
Seed	_	nillion seeds/acre	, certified seed	d	69.45	69.45		
Fertility	135 kg/ha				64.10	64.10		
	crop	58 kg/ha P ₂ O ₅ (9			21.40	21.40		
	removal	35 kg/ha K₂0 (6	.0 kg/tonne re	emoval rate)	11.75	11.75		
Herbicide	broadleaf				10.55	10.55		
Fungicide		nead blight			19.65	19.65		
		se, if required			10.50	10.50		
Plant growth regula					14.85	14.85		
Tractor and		conventional, 17	L no till) and lւ	ubricants	28.60	19.10		
machine expenses	repairs an	d maintenance			24.85	14.00		
Production insuran					10.15	10.15		
Risk Management					3.85	3.85		
Marketing board ar	_			nne)	1.90	1.90		
Custom work		pplication, mixing	and delivery		12.00	12.00		
		e applications			33.00	33.00		
Added expense for						_		
Trucking (\$9.00/to	nne)				21.30	21.30		
Land rent					_	_		
Operator labour (se	elf or hired)				12.65	8.65		
Interest on operati	ng				10.60	9.90		
		Tota	I Operating Ex	penses — Grain	381.15	356.10		
Expenses for Strav	w (costs bas	sed on projected y	ield of 2.41 to	onnes/acre)				
Fertility	crop	10 kg/ha P ₂ O ₅ (2			3.80	3.80		
	removal	72 kg/ha K ₂ 0 (1	.2.0 kg/tonne	removal rate)	23.95	23.95		
Tractor and	fuel (6 L)	and lubricants			6.15	6.15		
machine expenses	repairs an	d maintenance			7.20	7.20		
Twine					8.30	8.30		
Other					13.90	13.90		
		Total	Operating Ex	penses — Straw	63.30	63.30		
			Total Ope	rating Expenses	444.45	419.40		
REVENUE								
Expected wheat yie	eld							
Expected wheat pri	ce							
				Tota	l Market Revenu	e (Yield x Price)		
Additional income	from IP							
Program payment								
					Total	Wheat Revenue		
Expected straw yie	ld							
Expected straw price	ce							
				To	tal Straw Revenu			
						Total Revenue		
			CONTRI	BUTION MARGIN	(Revenue - Oper	ating Expenses)		
			Convent	ional Tillage	No	-Till		
OVERHEAD EXPEN	ISES		Wheat Only	Wheat & Straw	Wheat Only	Wheat & Straw		
Machinery	depreciati	on	37.85	46.25	21.05	29.45		
	interest or	n investment	13.25	15.65	6.65	9.05		
Land	•		-	-	-	_		
Other overhead			5.85	7.85	2.65	4.65		
	Т	OTAL EXPENSES	438.10	514.20	386.45	462.55		
			Break-even	price on your farm	n (total expenses	/expected vield):		

HARD RED WINTER WHEAT

					Tillage	System	
					Conventional	No-Till	Your
OPERATING EXPENSES (costs based on projected yield of 2.2 tonnes/acre (82 bu/acre))				Sample	Sample	Farm	
)	Costs/Acre	Costs/Acre	Budget	
Expenses for Gra		·	, ,		·		
Seed		llion seeds/acre, ce	ertified seed		70.65	70.65	
Fertility	165 kg/ha				78.30	78.30	
	crop	55 kg/ha P ₂ O ₅ (9.	.8 kg/tonne ren	noval rate)	20.25	20.25	
	removal	34 kg/ha K ₂ 0 (6.0			11.15	11.15	
Herbicide	broadleaf w		o rig/ territe rem	loval rate)	10.55	10.55	
TICIDICIAC		control, if required			10.55	10.00	
Fungicide	fusarium he				19.65	19.65	
rungicide		e, if required			10.50	10.50	
Diana dua de la marco		e, ii requireu	-		L		
Plant growth regu			- 491V 1 to de -2 -		14.85	14.85	
Tractor and		conventional, 17 L n	o tili) and lubric	ants	28.60	19.10	
machine expense		I maintenance			24.85	14.00	
Production insura					11.50	11.50	
Risk Managemen					3.65	3.65	
		ncial Protection fees)	1.80	1.80	
Custom work		applications, mixing	and delivery		24.00	24.00	
	3 pesticide	applications			33.00	33.00	
Added expense for	or IP				_		
Trucking (\$9.00/	tonne)				20.15	20.15	
Land rent					_	_	
Operator labour (self or hired)				12.65	8.65	
Interest on opera	 iting				11.35	10.65	
		Tot	al Operating Ex	cpenses — Grain	407.45	382.40	
Expenses for Str	aw (costs base	ed on projected yiel		-			ļ
Fertility	crop	10 kg/ha P ₂ O ₅ (1.		<u> </u>	3.80	3.80	
Torumcy	removal	72 kg/ha K ₂ 0 (12.0 kg/tonne removal rate)			23.95	23.95	
Tractor and		nd lubricants	o Ng/ torinio roi	movar rate)	6.15	6.15	
machine expense		I maintenance			7.20	7.20	
Twine	75 Tepairs and	maintenance			8.30	8.30	
Other		Tak	-l On a nation of Face	C+	13.90	13.90	
		10ta		penses — Straw	63.30	63.30	
DE1/E1/15			lotal Ope	erating Expenses	470.75	445.70	
REVENUE							l I
Expected wheat y							
Expected wheat p	orice						
				Total	Market Revenue	e (Yield x Price)	
Additional income							
Program payment	<u>c</u>						
					Total	Wheat Revenue	
Expected straw yi	ield						
Expected straw p	rice						
				Tota	Straw Revenue	e (Yield x Price)	
						Total Revenue	
			CONTRIB	UTION MARGIN (I	Revenue – Opera	ating Expenses)	
				onal Tillage	-	-Till	
OVERHEAD EXPE	ENSES		Wheat Only	Wheat & Straw	Wheat Only	Wheat & Straw	
Machinery	depreciatio	n	37.85	46.25	21.05	29.45	
aoi in loi y		investment	13.25	15.65	6.65	9.05	
Land	Interest on	mvestment	13.23	15.05	0.05	9.00	
				7.05	- 0.65	4.05	
Other overhead		TOTAL EVENING	5.85	7.85	2.65	4.65	
		TOTAL EXPENSES	464.40	540.50	412.75	488.85	
				rice on your farm	/		

		HARD RED SPR	ING WHEAT		
OPERATING EXPE		5 tonnes/acre (56.0 bu/acr	- IIa	Sample Costs/ Acre	Your Farm Budget
Expenses for Grain		tollies/ acre (30.0 bu/ acr	<i></i>	ACIE	Buuget
Seed		eeds/acre, certified seed		70.90	
Fertility	101 kg/ha N (22			42.70	
1 er tility	crop removal	37 kg/ha P ₂ O ₅ (9.8 kg/to	nne removal rate)	13.85	
	Crop removar	23 kg/ha K ₂ 0 (6.0 kg/to		7.60	
Herbicide	broadleaf weeds	23 kg/11a k20 (0.0 kg/t0	ille removal rate)	10.55	
TICIDICIAC		control, if required		10.55	
	other weed contro			_	
Fungicide	fusarium head bli	<u> </u>		19.65	
Tractor and	fuel (26 L) and lu			28.60	
machine expenses				25.45	
Production insuran	<u> </u>	chance		9.25	
Risk Management				4.90	
		rotection fees (\$0.81/tonne	<u> </u>	1.25	
Custom work		on, mixing and delivery)	12.00	
Castoni Work	2 pesticide applicati			22.00	
	other	ations		22.00	
Added expense for					
Trucking (\$9.00/to	13.80				
Land rent	inic)			13.00	
Operator labour (se	12.65				
Interest on operati	5.10				
microst on operati	116	Total Onerating	g Expenses — Grain	300.25	
Expenses for Stray	w (costs based on r	projected yield of 2.14 tonne		000.20	
Fertility	crop removal	9 kg/ha P ₂ O ₅ (1.7 kg/tor		3.35	
roruncy	orop removar	64 kg/ha K ₂ 0 (12.0 kg/t	21.25		
Tractor and	fuel (6 L) and lub		offic femoval fate)	6.15	
machine expenses				7.20	
Twine	Tepairs and main	criance		7.35	
Other				13.90	
Other		Total Operating	Expenses — Straw	59.20	
			Operating Expenses	359.45	
REVENUE		iotai	operating Expenses	359.45	
Expected wheat yie	ald.				
Expected wheat pri	-				
Expedica wheat ph			Total Market Revenu	ıe (Vield x Price)	
Additional income	from IP		Total Markot Rovolk	10 (11010 X 11100)	
Program payment	110111 11				
r rogram payment			Tota	I Wheat Revenue	
Expected straw yie	ld		1018	at Northiae	
Expected straw yie					
Expected Straw prin			Total Straw Revenu	ie (Yield y Price)	
			.otal Stiaw Reveilt	Total Revenue	
		CONTRIBUTION MAR	GIN (Revenue – One		
OVERHEAD EXPEN	ISFS	OUNTRIDUTION WIAK	Wheat Only	Wheat & Straw	
Machinery	depreciation		37.65	46.05	
iviaci iii i c i y	<u> </u>	mont	13.05	15.45	
Land	interest on invest	IIICIIL	13.05	15.45	
Land Other overhead				7.65	
other overnead			5.65	7.65	

356.60

Break-even price on your farm (total expenses/expected yield):

428.60

TOTAL EXPENSES

WHITE/BLACK BEANS

OPERATING EXPEN	ISES ojected yield of 22 cwt/acre)	Sample Costs/ Acre	Your Farm Budget	
Seed	125,000–150,000 seeds/acre (67-78 kg/ha, 15–20-in. rows)	88.40		
	certified, treated seed (with fungicide plus Cruiser insecticide)			
Fertility	40 kg/ha N	19.00		
	crop 30 kg/ha P ₂ O ₅ (14.0 kg/tonne removal rate)	11.15		
	removal 30 kg/ha K ₂ 0 (14.0 kg/tonne removal rate)	9.95		
Herbicide	annual grass and broadleaf weeds	69.15		
Crop pre-harvest		8.00		
Fungicide, if	white mould	44.70		
required	anthracnose	8.50		
Insecticide		_		
Tractor and	fuel (34 L) and lubricants	37.45		
machine expenses	repairs and maintenance	28.40		
Marketing board fe	es (\$6.80/tonne)	6.80		
Production insurance		16.95		
Risk Management I	Program	1.30		
Custom work	fertilizer application, mixing and delivery	12.00		
	5 pesticide applications	55.00		
Trucking (\$9.00/tonne) 9.00				
Drying		_		
Land rent		_		
Operator labour (se	If or hired)	18.60		
Interest on operatir	ng	7.65		
	Total Operating Expense	s 452.00		
REVENUE				
Expected yield				
Expected price				
	Total Market Reve	nue (Yield x Price)		
Less pick charges (typically 2%–4%)			
Program payment				
		Total Revenue		
	CONTRIBUTION MARGIN (Revenue – Op	erating Expenses)		
OVERHEAD EXPEN	SES			
Machinery	depreciation	43.90		
	interest on investment	14.30		
Land		_		
Other overhead		5.40		
	TOTAL EXPENSE	515.60		
	Break-even price on your farm (total expense	es/expected yield):		

ORGANIC — GRAIN CORN AND SOYBEANS*

		Grain Corn	Soybeans	
	PENSES projected yield of 3.05 tonnes/acre (120 bu/acre) grain corn; (36.70 bu/acre) soybeans)	Sample Costs/ Acre	Sample Costs/ Acre	Your Farm Budget
Seed	grain corn: 32,000 kernels, certified, organic; soybeans: 200,000 seeds/acre, certified, organic in 21–30-in. rows	108.15	70.00	
Seed inoculant		_	6.40	
Fertility	manure, compost**	100.00	_	
	dry fertilizer	50.00	50.00	
Herbicide		-	-	
Insecticide		_	_	
Fungicide		_	_	
Soil maintenance	e (cover crop, fallow etc.)**	40.00	20.00	
Tractor and	fuel (37 L corn, 39 L soybeans) and lubricants	40.70	43.35	
machine expense		34.50	43.70	
Marketing board \$1.39/tonne (so	and Grain Financial Protection fees (\$0.401/tonne (corn), objection)	1.20	1.40	
Certification fees	6	3.75	3.75	
Production insur	ance	18.90	18.10	
Risk Manageme	nt Program	4.75	2.35	
Custom work		ı	_	
Added expense t	for handling organic crops	-	_	
Trucking (\$9.00/	/tonne corn, \$9.00/tonne soybeans)	27.45	9.00	
Drying (\$21.90/	tonne corn)	66.75	_	
Storage		9.00	9.00	
Land rent		_	_	
Operator labour	(self or hired)	20.35	21.65	
Labour — hand	weed	_	-	
Interest on opera	ating	9.05	5.15	
	Total Operating Expenses	534.55	303.85	
REVENUE				
Expected yield _				
Expected price _	Total Market	Davanua (Via	ald v Dulas)	
Program paymen		Revenue (116	eiu x Price)	
			al Revenue	
	CONTRIBUTION MARGIN (Revenue	- Operating	Expenses)	
OVERHEAD EXP	1			
Machinery	depreciation	50.90	65.00	
Lond	interest on investment	16.90	23.40	
Other everbead		6.70	10.00	
Other overhead	TOTAL EVERNORO	6.70	10.90	
	TOTAL EXPENSES Break-even price on your farm (total ex	609.05	403.15	

^{*} Organic budget estimates do not include transition period costs.

^{**} Manure, compost and cover crop estimates are highly variable, depending on individual farm situations.

ORGANIC — WINTER WHEAT AND SPELT*

OPERATING EXPENSES				Winter Wheat	Spelt	
(costs based on projected yield of 1.50 tonnes/acre (55 bu/acre) wheat; 1.09 tonnes/acre spelt)					Sample Costs/Acre	Your Farm Budget
Seed	wheat: 1.5–1.7 million seeds/ac spelt: 180 kg/ha certified, organi	ganic;	108.00	134.20		
Fertility	manure, compost**			100.00	100.00	
	dry fertilizer			50.00	50.00	
Herbicide				_	-	
Fungicide				_	_	
Soil maintenance (d	over crop, fallow, etc.)**			40.00	40.00	
Tractor and	fuel (30 L) and lubricants			33.15	33.15	
machine expenses	repairs and maintenance			27.10	27.10	
Production insurance	se			31.00	21.20	
Risk Management F	Program			2.45	_	
	d Grain Financial Protection fee (\$6	0.81/tonne (w	neat))	1.20	_	
Certification fees	()	, , , , , , , , , , , , , , , , , , , ,	,,	3.75	3.75	
Custom work				-		
	handling organic crops			_	_	
Trucking (\$9.00/tor				13.45	9.85	
Storage	···-,			9.00	9.00	
Land rent				- 5.00		
Operator labour (se	If or hired)			16.05	16.05	
Labour — hand wee				10.00	10.00	
Interest on operating					12.70	
interest on operatin	.=	erating Expen	coc Grain	12.45 447.60	457.00	
Evnences for Straw	(costs based on projected yield o			447.00	457.00	
Tractor and	fuel (6 L) and lubricants	JI Z.41 tolliles	/ acie;	6.15	6.15	
machine expenses	repairs and maintenance			7.20	7.20	
Twine	repairs and maintenance			8.30	8.30	
				13.90	13.90	
Other	Total On	erating Expens	Strow	35.55	35.55	
	Total Op	Total Operation		483.15	492.55	
REVENUE		Total Operation	ig Expenses	463.13	492.55	
-						
Expected yield						
Expected price			Tatal Manua	-4 D ()	(lald a Dalas)	
Dua dua na la al mara ant			lotal Wark	et Revenue (\	riela x Price)	
Program payment						
				10	otal Revenue	
Expected straw yield						
Expected straw price	e					
			Total Stra	aw Revenue ()		
					otal Revenue	
	CON	TRIBUTION M		_		
OVERHEAD EXPEN		Wheat Only	Wheat & Straw	Spelt Only	Spelt & Straw	
Machinery	depreciation	42.10	50.50	42.10	50.50	
	interest on investment	14.30	16.70	14.30	16.70	
Land			=			
Other overhead		6.45	8.45	6.45	8.45	
	TOTAL EXPENSES	510.45	558.80	519.85	568.20	
	D I	ven price on yo				

 $^{\ ^*}$ $\ ^{\rm Organic}$ budget estimates do not include transition period costs.

^{**} Manure, compost and cover crop cost estimates are highly variable, depending on individual farm situations.

ORGANIC — BARLEY AND OATS*

OPERATING EXPE	NSES			Barley	Oats	
	rojected yield of 1.2 tonno	Sample	Sample	Your Farm		
	65 bu/acre) oats)	Costs/Acre	Costs/Acre	Budget		
Expenses for Grain						
Seed	barley: 168 kg/ha certificats: 157 kg/ha certificats			95.45	84.00	
Fertility	manure/compost**			_	_	
	dry fertilizer			50.00	50.00	
Herbicide				_	-	
Fungicide				-	-	
Soil maintenance	(cover crop, fallow etc.)**			40.00	40.00	
Tractor and	fuel (30 L) and lubricant	:S		33.15	33.15	
machine expenses	repairs and maintenanc	e		28.65	28.65	
Production insurar	nce			7.20	7.20	
Risk Management	Program			9.70	8.00	
	ee (\$1.19/tonne (barley), \$	S1.34/tonne (oa	ats))	1.45	1.35	
Certification fees				3.75	3.75	
Custom work				_	_	
Added expense for	r handling organic crops			_	_	
Trucking (\$9.00/to				10.95	9.05	
Storage	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			9.00	9.00	
Land rent				-	-	
Operator labour (se	elf or hired)			16.05	16.05	
Labour — hand we	<u> </u>					
Interest on operati			_	8.75	8.30	
meroot on operati		tal Operating Ex	xpenses — Grain	314.10	298.50	
Expenses for Stra	w (costs based on project					
Tractor and	fuel (6 L) and lubricants	-	(6.15	6.15	
machine expenses				7.20	7.20	
Twine	Topano ana mamenana			6.50	7.60	
Other			_	13.90	13.90	
0 11 10 1	Tot	al Onerating Fx	penses — Straw	33.75	34.85	
	100		erating Expenses	347.85	333.35	
REVENUE		Total Ope	rating Expended	017.00	000.00	
Expected yield						
Expected price						
Expected price			Total M	larket Revenue	(Vield v Price)	
Program payment			Total III	idiket Nevelide	(TICIA X T TICC)	
rogram paymone					Total Revenue	
Expected straw yie	-Id				Total Nevellae	
Expected straw pri						
Expected Straw pri	<u> </u>		Total	Straw Revenue	(Viold v Price)	
			iotai	Straw Revenue	Total Revenue	
		CONTRIBLE	TION MARGIN (Re	Overnie Opera		
OVEDHEAD EVDE	NCEC				Oats & Straw	
OVERHEAD EXPER		Barley Only	Barley & Straw	Oats Only		
Machinery	depreciation	40.50	48.90	40.50	48.90	
	interest on investment	13.20	15.60	13.20	15.60	
			1	_		
			7.05		7.05	
Land Other overhead	TOTAL EXPENSES	5.05 372.85	7.05 419.40	5.05 357.25	7.05 404.90	

^{*} Organic budget estimates do not include transition period costs.

^{**} Manure, compost and cover crop cost estimates are highly variable, depending on individual farm situations.

OMAFRA RESOURCES

Selected Factsheets and Publications

Agronomy Guide for Field Crops, Publication 811
Budgeting Farm Machinery Costs
Field Crop Protection Guide, Publication 812
Guide to Custom Farmwork and Short-Term Equipment Rental
Guide to Weed Control Field Crops
Soil Fertility Handbook, Publication 611
Ontario Farm Record Book, Publication 540

To obtain a digital copy of this publication, visit ontario.ca and search for the publication number and title.

To obtain print copies of this or any other OMAFRA publication, please order:

• online at ontario.ca/publications

OMAFRA has excellent tools and information to help manage your farm business in the Agricultural Business Management section at ontario.ca/agbusiness. For results of the Custom Farmwork and Equipment Rental Rates survey, go to ontario.ca/agbusiness and search for "Ontario cost of production and budgets." The Ontario Enterprise Budgets, also found on the OMAFRA website, has budgets for cost of production, including field crops. You can download a Budgeting Tool Excel file, modify the numbers to reflect your operation, and the file will complete the calculations. The Budgeting Tool also lets you assess the potential effect of production and marketing risk factors and risk management strategies.

Publication 60, *Field Crop Budgets*, is updated by John Molenhuis, Business Analysis and Cost of Production Specialist, OMAFRA, Brighton (john.molenhuis@ontario.ca), and the OMAFRA Field Crops Unit.

METRIC CONVERSION TABLES

Application rate conversions (approximate)

Metric to Imperial

litres per hectare × 0.09 = gallons per acre
litres per hectare × 0.36 = quarts per acre
litres per hectare × 0.71 = pints per acre
millilitres per hectare × 0.015 = fluid ounces per acre
grams per hectare × 0.015 = ounces per acre
kilograms per hectare × 0.89 = pounds per acre
tonnes per hectare × 0.45 = tons per acre

Imperial to metric

gallons per acre × 11.23 = litres per hectare (L/ha)
quarts per acre × 2.8 = litres per hectare (L/ha)
pints per acre × 1.4 = litres per hectare (L/ha)
fluid ounces per acre × 70 = millilitres per hectare (mL/ha)
tons per acre × 2.24 = tonnes per hectare (t/ha)
pounds per acre × 1.12 = kilograms per hectare (kg/ha)
ounces per acre × 70 = grams per hectare (g/ha)

Liquid equivalents

litres/hectare approximate gallons/acre

50 L/ha = 5 gal/acre 100 L/ha = 10 gal/acre 150 L/ha = 15 gal/acre 200 L/ha = 20 gal/acre 250 L/ha = 25 gal/acre 300 L/ha = 30 gal/acre

Dry weight equivalents

grams or kilograms/hectare ounces or pounds/acre

 $100 \text{ g/ha} = 1\frac{1}{2} \text{ oz/acre}$ 200 g/ha = 3 oz/acre $300 \text{ g/ha} = 4\frac{1}{4} \text{ oz/acre}$ 500 g/ha = 7 oz/acre700 g/ha = 10 oz/acre1.10 kg/ha = 1 lb/acre $1.50 \text{ kg/ha} = 1\frac{1}{4} \text{ lb/acre}$ $2.00 \text{ kg/ha} = 1\frac{3}{4} \text{ lb/acre}$ $2.50 \text{ kg/ha} = 2\frac{1}{4} \text{ lb/acre}$ 3.25 kg/ha = 3 lb/acre $4.00 \text{ kg/ha} = 3\frac{1}{2} \text{ lb/acre}$ $5.00 \text{ kg/ha} = 4\frac{1}{2} \text{ lb/acre}$ $6.00 \text{ kg/ha} = 5\frac{1}{4} \text{ lb/acre}$ $7.50 \text{ kg/ha} = 6^{3}/_{4} \text{ lb/acre}$ 9.00 kg/ha = 8 lb/acre11.00 kg/ha = 10 lb/acre $13.00 \text{ kg/ha} = 11\frac{1}{2} \text{ lb/acre}$ 15.00 kg/ha = 13½ lb/acre

Handy metric conversion factor

litres per hectare \times 0.4 = litres per acre kilograms per hectare \times 0.4 = kilograms per acre

Conversion tables — imperial to metric (approximate)

Area	Volume (dry)	Volume (liquid)	Weight
1 square foot = 0.09 m^2	1 cubic yard = 0.76 m^3	1 fluid ounce (imp.)= 28.41 mL	1 ounce = 28.35 g
1 square yard = 0.84 m^2	1 bushel = 36.37 L	1 pint (imp.) = 0.57 L	1 pound = $453.6 g$
1 acre = 0.40 ha		1 gallon (imp.) = 4.55 L	1 ton = 0.91 tonne
		1 gallon (U.S.) = 3.79 L	

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