# Publication 60 Field Crop Budgets 2022

Ministry of Agriculture, Food and Rural Affairs



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 22 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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# **2022 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.

	N requiremen (kg/	
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
<sup>1</sup> Applies where the legume stand is thick and over 40 cm (16 in.) high.		

	Corn Conventional	Herbicide- Tolerant Spring	Non-GMO Soybeans	Roundup Ready Soybeans	Coloured	White/ Black	Soft Red Winter Wheat	Oats (Southern	Hard Red Spring
Expense	Tillage	Canola	No Till	No Till	Beans	Beans	No Till	Ontario)	Wheat
Seed	114.25	84.75	50.65	82.15	137.05	101.40	70.10	47.00	70.90
Seed treatment	1.60	_	13.00	13.00	_	_	_	_	-
Fertility	200.45	151.30	64.10	64.10	63.30	63.30	146.90	100.45	96.90
Pesticides	26.80	56.15	82.65	27.05	125.55	134.50	40.70	25.15	30.20
Total Inputs	343.10	292.20	210.40	186.30	325.90	299.20	257.70	172.60	198.00
Tillage	64.75	57.35	_	_	99.30	62.70	_	57.35	57.35
Planting	25.40	22.60	26.65	26.65	25.30	30.30	27.65	22.30	22.30
Spraying	11.10	33.35	22.20	22.20	44.45	55.55	33.35	33.35	22.20
Fertilizing	12.10	12.10	12.10	12.10	12.10	12.10	12.10	12.10	12.10
Harvesting & trucking	91.20	52.80	59.10	59.10	121.15	68.20	68.00	57.90	60.40
Total Machinery	204.55	178.20	120.05	120.05	302.30	228.85	141.10	183.00	174.35
Drying	96.80	_	_	_	_	_	_	_	-
Production insurance	15.75	19.55	10.25	10.25	26.35	19.00	12.50	10.05	12.55
Risk management	6.90	10.35	3.00	3.00	0.20	1.30	3.85	10.00	4.90
Interest @ 3.45%	11.25	7.85	5.65	5.25	9.10	8.50	11.50	4.50	5.80
Marketing & other	43.35	4.00	13.80	13.80	5.90	6.50	1.90	1.70	1.25
Total Costs	721.70	512.15	363.15	338.65	669.75	563.35	428.55	381.85	396.85
Yield	1	1							1
Price									
Gross Return									
Net Margin/Acre									
Less:									
Land cost/rent									
Utilities/acct/misc.									
Net Return per Acre									

\* 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:**

Market and input prices projected were as of November 2021. Given the variability of the markets expected for 2022, it is important to use current prices. Use the following tools to determine your cost of production:

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

DIRECT SEEDING E	STABLISH	MENT	Sample Costs/ Acre	Your Farm Budget
Seed	13.45 kį	g/ha alfalfa	90.60	
Other seed (timothy)	4.48 kg/	′ha	17.95	
Inoculant			1.05	
Fertility	crop	24 kg/ha P <sub>2</sub> O <sub>5</sub> (6.1 kg/tonne removal rate)	16.50	
	removal	92 kg/ha K <sub>2</sub> 0 (23.5 kg/tonne removal rate)	41.25	
Herbicide	broadlea	f weed control	15.95	
Production insuranc	e		4.40	
Tractor and	fuel (37	L) and lubricants	44.10	
machine expenses	repairs		42.15	
Custom work	2 pestic	de applications	22.20	
	2 fertiliz	er applications, mixing and delivery	24.20	
		pping — plastic — 50% yield	42.40	
Twine			2.50	
Operator labour (sel	f or hired)		29.00	
Interest	,		12.60	
		Total Establishment Year Expenses	406.85	
ANNUAL OPERATIN	<b>G EXPENS</b>	ES (costs based on projected yield of 3.15 tonnes DM/acre		
		— over 4 years (less establishment year sales)		
Fertility	crop	$47 \text{ kg/ha} P_2O_5 (6.1 \text{ kg/tonne removal rate})$	32.90	
	removal	183 kg/ha $K_2O$ (applied in fall) (23.5 kg/tonne removal rate)		
Tractor and		L) and lubricants	30.60	
machine expenses	repairs		32.60	
Twine	4.95			
Production insuranc			24.40	
Custom work	-	er applications, mixing and delivery	24.20	
		pping — plastic	84.80	
Other costs			04.00	
Land rent			_	
Operator labour (sel	f or birod)		29.95	
			6.40	
Interest on operating	g	Total Annual On anting Funances		
	-	Total Annual Operating Expenses	358.65	
REVENUE				
Expected yield				
Expected price		7.4.1 D		
			ie (Yield x Price)	
		CONTRIBUTION MARGIN (Revenue – Operation of the second sec	rating Expenses)	
OVERHEAD EXPENS	1	11	00.05	
Machinery	deprecia		32.95	
	Interest	on investment	15.85	
Land			-	
Other overhead			6.85	
		WING CROPS IN ROTATION	1	
		duction (from Table 1) x price of N)		
Grain yield increase				
Total benefits/year				
		TOTAL EXPENSES	414.30	
		Break-even price on your farm (total expenses	/expected yield):	

# ALFALFA-TIMOTHY HAY

# BARLEY

					Feed Barley	Malting Barley	
OPERATING EXPENSI	ES				Sample Costs/	Sample Costs/	Your Farm
(costs based on proje		l of 1.5 tonnes	/acre (70 bu/acı	re))	Acre	Acre	Budget
Expenses for Grain	<b>,</b>			-11			
Seed	1.0-1.4	million seeds/a	cre, certified see	d	51.25	51.25	
Fertility			a Urea (Northern		76.15		
			Urea (Southern C		60.65	_	
			Urea (Eastern On		37.75	_	
			6 kg/ha Urea (Ma			37.75	
	crop		(8.0 kg/tonne re		21.15	21.15	
	removal		(6.3 kg/tonne re		10.70	10.70	
Herbicide		f weed control	(************************		10.55	10.55	
		eed control			9.60	9.60	
Fungicide	8				19.65	19.65	
Tractor and machine	fuel (26 I	L) and lubricant	s		31.20	31.20	
expenses	· · · ·	nd maintenance			25.95	25.95	
Production insurance	1.000100		-		10.05	10.05	
Risk Management Pro	ogram				12.10	12.10	
Marketing board fees		nne)			1.80	1.80	
Custom work			ing and delivery		12.10	12.10	
		de application	ing and derivery		22.20	22.20	
	other						
Trucking (\$9.10/tonn					13.90	13.90	
Storage	0)				10.30	13.30	
Quality testing							
Land rent							
Operator labour (self	or hirod)				13.15	13.15	
Interest on operating	or filleu)				7.40	7.05	
	Inorating		ain (Food (avora	ge of 3 regions))	330.95	<b>310.15</b>	
Expenses for Straw (					330.33	510.15	
Fertility	crop		(2.6  kg/tonne re)		8.50	8.50	
rentinty	removal		(20.0 kg/tonne r		42.45	42.45	
Tractor and machine		and lubricants	(20.0 kg/ tolline i		6.70	6.70	
expenses		nd maintenance	2		7.30	7.30	
Twine			-		8.30	8.30	
Other					14.45	14.45	
Other		То	tal Operating Ex	penses — Straw	87.75	87.75	
				erating Expenses	418.70	397.90	
REVENUE			Total Ope		410.70	557.50	
Expected barley yield						, 	
Expected barley yield							
			Total	Market Revenue	(Vield v Price)		
Program payment			Total	Market Nevenue	(Tield X Thee)		
				Total P	Barley Revenue		
Expected straw yield				Iotai i	Janey Nevenue		
Expected straw price							
			Tot	al Straw Revenue	(Vield v Price)		
			1013		Total Revenue		
		CONTDID		Revenue – Opera			
		CONTRIB		Barley	<u> </u>	g Barley	
OVERHEAD EXPENSE	s			Barley & Straw	Barley Only		
	-	tion	Barley Only 37.65	46.05	37.65	Barley & Straw 46.05	
Machinery	depreciat						
Land	interest (	on investment	13.05	15.45	13.05	15.45	
Land			-		-		
Other overhead			5.65	7.65	5.65	7.65	
	TAT	AL EXPENSES	387.30	487.85	366.50	467.05	

OPERATING EXPEN		eld of 1.0 tonnes/acre (2,200 lb/acre))	Sample Costs/ Acre	Your Farm Budget
Seed	1	a hybrid, treated	84.75	Dudget
Fertility		na N (197 kg/ha urea + 112 kg/ha ammonium sulphate) <sup>1</sup>	95.50	
Tertility	crop	$61 \text{ kg/ha} P_2O_5$ (24.5 kg/tonne removal rate)	42.35	
	removal	$30 \text{ kg/ha} \text{ K}_20$ (12.0 kg/tonne removal rate)	13.45	
Herbicide		d broadleaf weed control	11.90	
Technology use agr	0			
Insecticide		d (swede midge)	23.25	
Fungicide	if require		23.23	
Tractor and	· · ·	_) and lubricants	36.50	
machine expenses	-	nd maintenance	22.65	
	<u> </u>	ancial Protection fees (\$4.00/tonne)	4.00	
Production insurance		ומווטומו דוטופטווטוו ובבא (14.00/ נטוווופ)	19.55	
Risk Management F		19.55		
Custom work	-	application mixing and delivery		
Custom work		application, mixing and delivery	12.10	
	other	de applications	33.35	
T 1: . (#0.40/!	-			
Trucking (\$9.10/tor	9.10			
Storage			-	
Land rent			-	
Operator labour (se			16.15	
Interest on operatir	ng		7.85	
		Total Operating Expenses	463.80	
REVENUE				
Expected yield				
Expected price				
		Total Market Revenu	ie (Yield x Price)	
Program payment				
			Total Revenue	
		<b>CONTRIBUTION MARGIN (Revenue – Oper</b>	rating Expenses)	
<b>OVERHEAD EXPEN</b>	SES			
Machinery	depreciat	ion	33.90	
	interest of	on investment	9.90	
Land			_	
Other overhead			5.45	
		TOTAL EXPENSES	513.05	
		Break-even price on your farm (total expenses	/expected yield):	

### **SPRING CANOLA (Herbicide Tolerant)**

<sup>1</sup> Nitrogen rate is based on nitrogen price of \$1.69/kg (\$0.77/lb) N and a canola price of \$750/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 Sample Costs   (costs based on projected yield of 1.3 tonnes/acre) Acre					
Seed*	4.5 kg/h	a — hybrid, treated	75.30		
Fertility**		a N (388 kg/ha urea + 112 kg/ha ammonium sulphate) <sup>1</sup>	154.80		
-	crop	80 kg/ha $P_2O_5$ (24.5 kg/tonne removal rate)	55.20		
	removal	39 kg/ha K <sub>2</sub> 0 (12.0 kg/tonne removal rate)	17.55		
Herbicide	volunteer	cereal control	11.85		
Insecticide	1	d (cabbage seedpod weevil)	23.25		
Fungicide	if require	d	21.00		
Tractor and	fuel (24 l	.), lubricants	29.00		
machine expenses	repairs a	nd maintenance	16.55		
Marketing board an	d Grain Fir	ancial Protection fees (\$4.00/tonne)	5.20		
Production insurance	ce	· · · · · ·	19.55		
Risk Management F	Program		13.45		
Custom work	_	application, mixing and delivery	12.10		
	3 pestici	de applications	33.35		
	other				
Trucking (\$9.10/tor	11.85				
Storage			-		
Land rent			-		
Operator labour (se	If or hired)		12.55		
Interest on operatir	ng		8.85		
		Total Operating Expenses	521.40		
REVENUE					
Expected yield					
Expected price					
		Total Market Revenu	ie (Yield x Price)		
Program payment					
			<b>Total Revenue</b>		
		<b>CONTRIBUTION MARGIN (Revenue – Open</b>	rating Expenses)		
OVERHEAD EXPEN	SES				
Machinery	depreciation		24.35		
	interest of	on investment	7.35		
Land			-		
Other overhead			2.25		
		TOTAL EXPENSES	555.35		
		Break-even price on your farm (total expenses	/expected yield):		

\*\* Additional nitrogen in the fall may be beneficial if seeding is delayed.

<sup>1</sup> 112 kg/ha ammonium sulphate (21-0-0-24) supplies 27 kg/ha sulphur.

OPERATING EXPE (costs based on p	NSES rojected yield of 0.91 tonnes/acres (20 cwt/acre))	Sample Costs/ Acre	Your Farm Budget
Seed	78–90 kg/ha (4–5 seeds/ft row) certified, treated seed (with	137.05	
	fungicide plus Cruiser insecticide)		
Fertility	40 kg/ha N	26.95	
2	crop 32 kg/ha P <sub>2</sub> O <sub>5</sub> (14.0 kg/tonne removal rate)	22.05	
	removal 32 kg/ha K <sub>2</sub> 0 (14.0 kg/tonne removal rate)	14.30	
Herbicide			
	other weed control, if required	_	
Insecticide		_	
Fungicide	if required (white mould)	44.70	
Crop pre-harvest		8.00	
Tractor and	fuel (45 L) and lubricants	54.00	
machine expenses		49.65	
Marketing board fe		5.90	
Production insurar		26.35	
Risk Management	0.20		
Custom work	fertilizer application, mixing and delivery	12.10	
	4 pesticide applications	44.45	
Trucking (\$9.10/to	8.30		
Drying			
Land rent		_	
Operator labour (s	elf or hired)	26.10	
Interest on operat		9.10	
	Total Operating Expenses	562.05	
REVENUE		302.03	
Expected yield			
Expected price			
	Total Market Revenu	e (Vield x Price)	
Less pick charges			
Program payment	(typically 270-470)		
		Total Revenue	
	CONTRIBUTION MARGIN (Revenue – Oper		
OVERHEAD EXPE	• •	ating Expenses)	
Machinery	depreciation	71.90	
Machinery	interest on investment	25.50	
Land		20.00	
Other overhead		11.60	
		1 11.00	
Other Overhead	TOTAL EXPENSES	671.05	

# **COLOURED BEANS**

# **GRAIN CORN**

				Tillage System		
			Conventional	Non-GMO Conventional	No-Till	Your
OPERATING EXPENS			Sample	Sample	Sample	Farm
		d of 4.43 tonnes/acre (174 bu/acre))	Costs/Acre	Costs/Acre	Costs/Acre	Budget
Seed <sup>1</sup> (average		kernels — treated — RR <sup>2</sup>	114.75	-	114.75	
cost of 3 hybrids)		kernels — treated — Bt	101.45	-	101.45	
		kernels — treated — multi-trait	126.60	-	126.60	
	32,000 kernels — treated — non-GMO ecticide seed treatment, if required		_	88.55	_	
			1.60	1.60	1.60	
Fertility <sup>3</sup>		na N (618 kg/ha of 28-0-0 U.A.N.)	120.40	120.40	120.40	
	crop	80 kg/ha P <sub>2</sub> O <sub>5</sub>	55.65	55.65	55.65	
	removal	(7.25 kg/tonne removal rate)				
		54 kg/ha K <sub>2</sub> 0 (4.9 kg/tonne removal rate)	24.40	24.40	24.40	
Herbicide	annual g	rass and broadleaf weed	26.80	31.55	26.80	
	burndow				11.40	
		ed control, if required	_	_		
Insecticide/fungicide			_	_	_	
Tractor and	-	conventional, 19 L no-till) and lubricant	41.25	41.25	22.55	
machine expenses		nd maintenance	26.20	26.20	15.45	
-		ancial Protection fees (\$0.401/tonne)	1.75	1.75	1.75	
Production insurance			15.75	15.75	15.75	
Risk Management Pr			6.90	6.90	6.90	
Custom work		application, mixing and delivery	12.10	12.10	12.10	
		applications	11.10	11.10	22.20	
	other					
Trucking (\$9.10/tonr			41.30	41.30	41.30	
Drying (\$21.90/tonn			96.80	96.80	96.80	
Land rent	o, o point				-	
Operator labour (self	or hired)		15.90	15.90	8.30	
Storage (\$2.35/tonn		(A months)	41.60	41.60	41.60	
Interest on operating			11.25	10.90	11.00	
interest on operating		Total Operating Expenses	665.00	643.70	650.20	
REVENUE				11		1
Expected yield	(Coi	rn following corn: 8.5% corn yield decrea	ase)			
Expected price						
			Total M	arket Revenue	(Yield x Price)	
Program payment						
					Total Revenue	
		CONTRIBUTIO	N MARGIN (Re	evenue – Operat	ing Expenses)	
OVERHEAD EXPENS	ES					
Machinery	depreciat	tion	39.75	39.75	22.35	
	interest of	on investment	12.55	12.55	7.15	
Land						
Other overhead			4.40	4.40	2.90	
		TOTAL EXPENSES	721.70	700.40	682.60	
		Break-even price	on your farm (to	otal expenses/e	xpected vield):	

<sup>2</sup> Roundup Ready.

<sup>3</sup> 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 \$1.74/kg and corn price of \$252/tonne (\$6.40/bu). See www.gocorn.net for more accurate nitrogen requirements for corn.

OPERATING EXPENS	ES	Sample Costs/	Your Farm
(costs based on proje	ected yield of 8.71 tonnes DM/acre)	Acre	Budget
Seed	32,000 kernels, with seed treatment	116.35	
Insecticide seed treat	ment, if required	1.60	
Fertility <sup>1</sup>	173 kg/ha N (618 kg/ha of 28-0-0 U.A.N.)	120.40	
	crop 120 kg/ha P <sub>2</sub> O <sub>5</sub> (5.5 kg/tonne removal rate)	83.10	
	removal 254 kg/ha K <sub>2</sub> 0 (11.7 kg/tonne removal rate)	114.10	
Herbicide	annual grass and broadleaf weeds	26.80	
	other weed control, if required	-	
Insecticide/fungicide	if required	-	
Tractor and machine	fuel (18 L) and lubricants	21.45	
expenses	repairs and maintenance	18.85	
Silo repair and mainte	enance	_	
Production insurance	15.75		
Silage inoculant		-	
Custom work	fertilizer application, mixing and delivery	12.10	
	pesticide applications	11.10	
	harvest	90.00	
Land rent		-	
Operator labour (self	or hired)	9.30	
Interest on operating		11.05	
	Total Operating Expenses	651.95	
REVENUE			
Expected yield			
Expected price			
	Total Market Revenue	e (Yield x Price)	
Program payment			
		Total Revenue	
	CONTRIBUTION MARGIN (Revenue – Operation	ating Expenses)	
<b>OVERHEAD EXPENSE</b>		/	
Machinery	depreciation	27.30	
-	interest on investment	9.70	
Land		_	
Other overhead		4.65	
	TOTAL EXPENSES	693.60	
	Break-even price on your farm (total expenses,		

#### SILAGE CORN

<sup>1</sup> 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 \$1.74/kg and corn price of \$252/tonne (\$6.40/bu). See <a href="https://www.gocorn.net">www.gocorn.net</a> for more accurate nitrogen requirements for corn.

		FLAX			
OPERATING EXPE		.77 tonnes/acre)		Sample Costs/ Acre	Your Farm Budget
Expenses for Grain				1 1	
Seed	49 kg/ha certifi	ed, treated		26.60	
Fertility	45 kg/ha N			30.35	
	crop removal	24 kg/ha P <sub>2</sub> O <sub>5</sub> (7.5 kg/tonne	removal rate)	16.40	
		18 kg/ha K <sub>2</sub> 0 (5.8 kg/tonne		8.20	
Herbicide	broadleaf weed		,	5.50	
	grass weed cont			19.80	
	desiccant	······		9.50	
Fungicide				_	
Tractor and	fuel (26 L) and I	ubricants	31.20		
machine expenses				25.95	
Production insuran				12.95	
Custom work		tion, mixing & delivery		12.95	
GUSLOIN WORK	2 pesticide appl			-	
	2 pesticide appl	ICAUONS		22.20	
Trucking (\$0.40.4)				-	
Trucking (\$9.10/to	nne)	7.05			
Storage		-			
Land rent				-	
Operator labour (se	,			13.15	
Interest on operati	ng			4.15	
		Total Operating Exp		245.10	
	w (costs based on	projected yield of 2.21 tonnes			
Fertility	crop removal	18 kg/ha P <sub>2</sub> O <sub>5</sub> (3.2 kg/tonne	removal rate)	12.25	
		105 kg/ha K <sub>2</sub> 0 (19.0 kg/ton	ne removal rate)	47.15	
Tractor and	fuel (6 L) and lu	bricants		6.70	
machine expenses	repairs and mai	ntenance		7.30	
Twine	·			9.70	
Other				14.45	
		Total Operating Exp	enses — Straw	97.55	
			ating Expenses	342.65	
REVENUE		•		II.	
Expected flax yield					
Expected flax price					
		Tota	I Market Revenu	e (Yield x Price)	
Program payment		1010			
			Tot	tal Flax Revenue	
		CONTRIBUTION MARGIN			
OVERHEAD EXPEN			Flax Only	Flax & Straw	
Machinery	depreciation		37.65	46.05	
Machine y	interest on invest	stmont			
Land	Interest on inves	Suitent	13.05	15.45	
Land			-		
Other overhead			5.65	7.65	
		TOTAL EXPENSES	301.45	411.80	

		OATS			
OPERATING EXPEN (costs based on pro		d of 1.26 tonnes/acre (81 bu/acre))		Sample Costs/ Acre	Your Farm Budget
Seed		n seeds/acre, certified treated		47.00	
Fertility		a N (245 kg/ha Urea)		75.85	
i oi cincy	crop	24 kg/ha $P_2O_5$ (7.5 kg/tonne removal rate)		16.40	
	removal	$18 \text{ kg/ha} \text{ K}_20$ (5.8 kg/tonne removal rate)		8.20	
Herbicide		rol, if required		5.50	
Fungicide	weed com			19.65	
Plant growth regulat	or			14.85	
Tractor and	1	) and lubricants		31.20	
machine expenses	· · ·	d maintenance		25.95	
Production insurance				10.05	
				10.05	
Risk Management F					
Marketing board fee	Y			1.70	
Custom work		pplication, mixing and delivery		12.10	
T 11 . /** 10 /	. ·	e applications		33.35	
Trucking (\$9.10/tor	ine)		11.50		
Storage		_			
Land rent					
Operator labour (se		13.15			
Interest on operatin		4.50			
		Total Operating Expenses	— Grain	340.95	
Expenses for Straw	(costs bas	ed on project yield of 2.21 tonnes/acre)			
Fertility	crop	$18 \text{ kg/ha } P_2O_5 (3.2 \text{ kg/tonne removal rate})$		12.25	
	removal	105 kg/ha K <sub>2</sub> 0 (19.0 kg/tonne removal rate)		47.15	
Tractor and	fuel (6 L) a	and lubricants		6.70	
machine expenses	repairs an	d maintenance		7.30	
Twine				9.70	
Other				14.45	
		Total Operating Expenses	— Straw	97.55	
		Total Operating E		438.50	
REVENUE					
Expected oat yield _					
Expected oat price					
		Total Marke	et Revenu	e (Yield x Price)	
Program payment					
			Tot	al Oats Revenue	
Expected straw yield	 1		101		
Expected straw yield					
	C		W Dever	o (Viold x Brico)	
		Iotal Stra	w Revenu	e (Yield x Price) Total Revenue	
			0		
	CEC.	CONTRIBUTION MARGIN (Reven			
OVERHEAD EXPENS			Dats Only	Oats & Straw	
Machinery	depreciati		37.65	46.05	
	interest or	n investment	13.05	15.45	
Land			-	_	
Other overhead			5.65	7.65	
		TOTAL EXPENSES	397.30	507.65	
		Break-even price on your farm (total	expenses	/expected yield):	

# SOYBEANS

				Fillage System		
			Non-GMO Soybeans Conventional	Non-GMO Soybeans No-Till	Roundup Ready No- Till	
OPERATING EXPENS	FS		Sample	Sample	Sample	Your Farm
		l of 1.28 tonnes/acre (47 bu/acre))	Costs/Acre	Costs/Acre	Costs/Acre	Budget
Seed	r <u> </u>	seeds/acre in 15-in. rows — drill	50.65	50.65	82.15	
0000		) seeds/acre in 15-in. rows — planter)	00.00		02.20	
Fungicide seed treatment			13.00	13.00	13.00	
-		noculants, If required	-	-	_	
Fertility	crop	45 kg/ha P <sub>2</sub> O <sub>5</sub>	31.05	31.05	31.05	
	removal	(14.0 kg/tonne removal rate)				
		74 kg/ha K <sub>2</sub> 0 (23.0 kg/tonne removal rate)	33.05	33.05	33.05	
Herbicide	annual gi	ass and broadleaf weeds	69.90	69.90	14.30	
	burndowr		_	12.75	12.75	
	other we	ed control, if required	_	-	-	
Insecticide/fungicide			_	-	-	
Tractor and	fuel (26 L	. conventional, 17 L no till) and lubricants	31.20	20.80	20.80	
machine expenses	repairs a	nd maintenance	27.00	14.40	14.40	
Marketing board and	Grain Fina	ancial Protection fees (\$1.39/tonne)	1.80	1.80	1.80	
Production insurance	;		10.25	10.25	10.25	
Risk Management Pr	ogram		3.00	3.00	3.00	
Drying, if required			-	-	-	
Custom work	pesticide	applications	11.10	22.20	22.20	
	fertilizer	application, mixing and delivery	12.10	12.10	12.10	
Added expense for IF	>		_	_	_	
Trucking (\$9.10/tonr	ne)		11.65	11.65	11.65	
Storage (\$2.35/mon	th/tonne >	( 4 months)	12.00	12.00	12.00	
Land rent			_	_	_	
Operator labour (self	or hired)		13.15	9.00	9.00	
Interest on operating	5		5.70	5.65	5.25	
		Total Operating Expenses	336.60	333.25	308.75	
REVENUE					•	
Expected yield	(Soy	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						
				г	otal Revenue	
		CONTRIBUTION	MARGIN (Reve	enue – Operati	ng Expenses)	
<b>OVERHEAD EXPENS</b>	ES					
Machinery	depreciat	ion	38.75	21.05	21.05	
	interest o	on investment	13.55	6.65	6.65	
Land			_	-	-	
Other overhead			6.00	2.60	2.60	
		TOTAL EXPENSES	394.90	363.55	339.05	
		Break-even price on	vour farm (tota	l expenses/ex		

			Direct \$	Seeded	
			Conventional	No-Till	
			Sample	Sample	Your Farr
ESTABLISHMENT EXP	ENSES		Costs/Acre Costs/Acre		Budget
Seed		j/ha switchgrass	160.00	160.00	
Fertility		if required			
i or chirdy	crop	P <sub>2</sub> O <sub>5</sub>	_		
	removal	K <sub>2</sub> O			
Herbicide		ass and broadleaf control	13.80	13.80	
TICIDICIUC	burndowr		15.00	12.75	
				12.75	
luce esticide /f. verticide		ed control, if required			
Insecticide/fungicide	if require		-	-	
Tractor and machine		_ conventional, 5 L no till) and lubricants	15.40	6.20	
expenses	· ·	nd maintenance	18.85	6.20	
Custom work		applications	11.10	22.20	
fertilizer applications, mixing and delivery		-	-		
Harvest and trucking (	_	at)			
Operator labour (self o	r hired)		9.80	4.45	
Establishment failure r	rate		-	-	
Interest on operating	3.80	3.80			
		Total Establishment Year Expenses	232.75	229.40	
ANNUAL OPERATING I	EXPENSES	(costs based on projected yield of 4.0 tonnes/	/acre (4.4 tons/	(acre))	
Establishment year exp	penses —	over 7 years (less establishment year sales)	48.00	42.00	
Fertility	1	a nitrogen	52.10	52.10	
-	crop	P <sub>2</sub> O <sub>5</sub>	-	_	
	removal	K <sub>2</sub> O	_	_	
Tractor and machine	fuel (18 I	_) and lubricants	21.95	21.95	
expenses		nd maintenance	32.25	32.25	
Custom work		applications, mixing and delivery	12.10	12.10	
Trucking	Tortainzor				
Removal and storage			93.00	93.00	
Twine			33.00	33.00	
Operator labour (self o	r birod)		13.50	13.50	
	r mreu)				
Interest on operating			4.70	4.60	
		Total Annual Operating Expenses	270.45	264.35	
REVENUE					
Expected yield					
Expected price					
			<b>Total Revenue</b>	<u> </u>	
		CONTRIBUTION MARGIN (R	evenue – Operat	ing Expenses)	
<b>OVERHEAD EXPENSES</b>	S				
Machinery	depreciat	tion	44.60	44.60	
	interest of	on investment	17.35	17.35	
Land	a.		-	-	
			9.20	0.00	
Other overhead			9.20	9.20	

### **SWITCHGRASS**

#### **Tillage System** Conventional **No-Till** Your Sample Costs/ **OPERATING EXPENSES** Sample Costs/ Farm Budget (costs based on projected yield of 2.4 tonnes/acre (87 bu/acre)) Acre Acre **Expenses for Grain** 70.10 Seed 1.4-1.8 million seeds/acre, certified seed 70.10 Fertility 135 kg/ha N 91.00 91.00 58 kg/ha P<sub>2</sub>O<sub>5</sub> (9.8 kg/tonne removal rate) 39.95 39.95 crop removal 35 kg/ha K<sub>2</sub>O (6.0 kg/tonne removal rate) 15.95 15.95 Herbicide broadleaf weeds 10.55 10.55 Fungicide fusarium head blight 19.65 19.65 leaf disease, if required 10.50 10.50 Plant growth regulator 14.85 14.85 Tractor and fuel (26 L conventional, 17 L no till) and lubricants 31.20 20.80 machine expenses repairs and maintenance 25.35 14.40 12.50 Production insurance 12.50 3.85 3.85 **Risk Management Program** Marketing board and Grain Financial Protection fees (\$0.81/tonne) 1.90 1.90 Custom work fertilizer application, mixing and delivery 12.10 12.10 3 pesticide applications 33.35 33.35 Added expense for IP 21.55 Trucking (\$9.10/tonne) 21.55 Land rent Operator labour (self or hired) 13.15 9.00 12.25 11.50 Interest on operating 413.50 **Total Operating Expenses — Grain** 439.75 Expenses for Straw (costs based on projected yield of 2.41 tonnes/acre) Fertility 10 kg/ha P<sub>2</sub>O<sub>5</sub> (1.7 kg/tonne removal rate) 7.10 7.10 crop removal 72 kg/ha K<sub>2</sub>O (12.0 kg/tonne removal rate) 32.45 32.45 fuel (6 L) and lubricants 6.70 6.70 Tractor and machine expenses repairs and maintenance 7.30 7.30 Twine 10.60 10.60 Other 14.45 14.45 Total Operating Expenses — Straw 78.60 78.60 518.35 **Total Operating Expenses** 492.10 REVENUE Expected wheat yield Expected wheat price Total Market Revenue (Yield x Price) Additional income from IP Program payment **Total Wheat Revenue** Expected straw yield Expected straw price Total Straw Revenue (Yield x Price) **Total Revenue CONTRIBUTION MARGIN (Revenue – Operating Expenses) Conventional Tillage No-Till** Wheat Only Wheat Only Wheat & Straw **OVERHEAD EXPENSES** Wheat & Straw 37.85 29.45 Machinery depreciation 46.25 21.05 13.25 interest on investment 15.65 6.65 9.05 Land Other overhead 5.85 7.85 2.65 4.65 **TOTAL EXPENSES** 496.70 588.10 443.85 535.25

## SOFT RED WINTER WHEAT

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

					Tillage	e System	
					Conventional	No-Till	Your
<b>OPERATING EXPE</b>	NSES				Sample	Sample	Farm
(costs based on p	rojected yield	l of 2.2 tonnes/acr	e (82 bu/acre	e))	Costs/Acre	Costs/Acre	Budget
Expenses for Grain			. ,		,		
Seed		illion seeds/acre, ce	ertified seed		71.00	71.00	
Fertility	165 kg/ha		111.20	111.20			
	crop	55 kg/ha P <sub>2</sub> O <sub>5</sub> (9	.8 kg/tonne re	moval rate)	37.80	37.80	
	removal	34 kg/ha K <sub>2</sub> 0 (6.			15.10	15.10	
Herbicide	broadleaf v		o 1.8/ to 1.10 i o		10.55	10.55	
	other weed control, if required						
Fungicide fusarium head blight		19.65	19.65				
Tungloide		e, if required			10.50	10.50	
Plant growth regula					14.85	14.85	
Tractor and		conventional, 17 L n	o till) and lubr	icante	31.20	20.80	
machine expenses		a maintenance			25.35	14.40	
Production insurar					13.90	13.90	
Risk Management		and Deate street	· (\$0.04 (t-)		3.65	3.65	
-	1	ncial Protection fees		e)	1.80	1.80	
Custom work		applications, mixing	and delivery		24.20	24.20	
		applications			33.35	33.35	
Added expense for							
Trucking (\$9.10/to	onne)				20.40	20.40	
Land rent					_		
Operator labour (se					13.15	9.00	
Interest on operati	ng				13.10	12.35	
		Tot	al Operating E	xpenses — Grain	470.75	444.50	
<b>Expenses for Stra</b>	w (costs base	ed on projected yiel	ld of 2.41 toni	nes/acre)			
Fertility	crop	10 kg/ha P <sub>2</sub> O <sub>5</sub> (1	.7 kg/tonne re	moval rate)	7.10	7.10	
	removal	72 kg/ha K <sub>2</sub> 0 (12	2.0 kg/tonne r	emoval rate)	32.45	32.45	
Tractor and	fuel (6 L) a	nd lubricants			6.70	6.70	
machine expenses	repairs and	d maintenance			7.30	7.30	
Twine					10.60	10.60	
Other					14.45	14.45	
		Tota	al Operating E	xpenses — Straw	78.60	78.60	
				erating Expenses	549.35	523.10	
REVENUE		_			0.0000		1
Expected wheat yie	ble						
Expected wheat pr							
				Total	Market Revenu	e (Yield x Price)	
Additional income	from IP			iotai	market Nevenu		
Program payment					Tatal	Wheet Devenue	
Fundated straughter					Iotal	Wheat Revenue	
Expected straw yie							
Expected straw pri	ce						
				lota	al Straw Revenu	e (Yield x Price)	
						Total Revenue	
				BUTION MARGIN (			
				ional Tillage		p-Till	
OVERHEAD EXPEN			Wheat Only	Wheat & Straw	Wheat Only	Wheat & Straw	
Machinery	depreciatio	n	37.85	46.25	21.05	29.45	
	interest on	investment	13.25	15.65	6.65	9.05	
Land			-	-	-	-	
Other overhead			5.85	7.85	2.65	4.65	
		TOTAL EXPENSES	527.70	619.10	474.85	566.25	
				price on your farm			

### HARD RED WINTER WHEAT

OPERATING EXPE				Sample Costs/	Your Farm
		tonnes/acre (56.0 bu/acre	e))	Acre	Budget
Expenses for Grai					
Seed		eeds/acre, certified seed		70.90	
Fertility	101 kg/ha N (220			60.65	
	crop removal	37 kg/ha P <sub>2</sub> O <sub>5</sub> (9.8 kg/to		25.90	
		23 kg/ha K <sub>2</sub> 0 (6.0 kg/tor	ine removal rate)	10.35	
Herbicide	broadleaf weeds		10.55		
	grass or wild oat o			-	
	other weed contro	-		-	
Fungicide	fusarium head blig			19.65	
Tractor and	fuel (26 L) and luk			31.20	
machine expenses		enance		25.95	
Production insura				12.55	
Risk Management				4.90	
-	1	otection fees (\$0.81/tonne)		1.25	
Custom work		on, mixing and delivery		12.10	
	2 pesticide applic	ations	22.20		
	other			-	
Added expense fo				_	
Trucking (\$9.10/te	onne)			13.95	
Land rent				_	
Operator labour (s	self or hired)			13.15	
Interest on operating 5.80					
		Total Operating	Expenses — Grain	341.05	
-	w (costs based on p	rojected yield of 2.14 tonne			
Fertility	crop removal	9 kg/ha P <sub>2</sub> O <sub>5</sub> (1.7 kg/ton	ne removal rate)	6.30	
		64 kg/ha K <sub>2</sub> 0 (12.0 kg/to	onne removal rate)	28.80	
Tractor and	fuel (6 L) and lubr	icants		6.70	
machine expense	s repairs and maint	enance		7.30	
Twine				9.40	
Other				14.45	
		Total Operating	Expenses — Straw	72.95	
		Total O	perating Expenses	414.00	
REVENUE					
Expected wheat yi	ield				
Expected wheat p	rice				
		1	otal Market Revenu	e (Yield x Price)	
Additional income	from IP				
Program payment					
			Tota	Wheat Revenue	
Expected straw yie	eld				
Expected straw pr	ice				
			Total Straw Revenu	e (Yield x Price)	
				Total Revenue	
		CONTRIBUTION MARC	GIN (Revenue – Oper	rating Expenses)	
OVERHEAD EXPE	NSES		Wheat Only	Wheat & Straw	
Machinery	depreciation		37.65	46.05	
2	interest on invest	ment	13.05	15.45	
Land					
			E CE	7.05	
Other overhead			5.65	7.65	

# HARD RED SPRING WHEAT

OPERATING EXPE (costs based on p		eld of 22 cwt/acre)	Sample Costs/ Acre	Your Farm Budget
Seed		0-150,000 seeds/acre (67-78 kg/ha, 15-20-in. rows)	101.40	
		, treated seed (with fungicide plus Cruiser insecticide)		
Fertility	40 kg/h	a N	26.95	
	crop	$32 \text{ kg/ha } P_2O_5 (14.0 \text{ kg/tonne removal rate})$	22.05	
	removal	32 kg/ha K <sub>2</sub> O (14.0 kg/tonne removal rate)	14.30	
Herbicide	annual g	rass and broadleaf weeds	72.85	
Crop pre-harvest			8.00	
Fungicide, if	white mo	buld	44.70	
required	anthracr	lose	8.95	
Insecticide			_	
Tractor and	fuel (34	L) and lubricants	40.85	
machine expenses		and maintenance	29.10	
Marketing board fe			6.50	
Production insurar		,	19.00	
Risk Management			1.30	
Custom work		application, mixing and delivery	12.10	
		de applications	55.55	
Trucking (\$9.10/to	9.10			
Drying				
Land rent			_	
Operator labour (s	elf or hired		19.35	
Interest on operat			8.50	
	5	Total Operating Expenses	500.55	
REVENUE			500.55	
Expected yield				
Expected price	· · · · · · · · · · · · · · · · · · ·			
	<u> </u>	Total Market Revenu	e (Vield v Price)	
Less pick charges	(typically 2			
Program payment				
Fiografii payment			Total Revenue	
		CONTRIBUTION MARGIN (Revenue – Ope		
OVERHEAD EXPE	NGES		acing Expenses)	
Machinery	deprecia	tion	43.90	
machinery	· ·	on investment	14.30	
Land	Interest		14.30	
Land				
Other overhead		TOTAL EXPENSES	5.40 564.15	

# WHITE/BLACK BEANS

	Grain Corn	Soybeans	
OPERATING EXPENSES (costs based on projected yield of 3.05 tonnes/acre (120 bu/acre) grain corn; 1.0 tonnes/acre (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	116.40	91.80	
Seed inoculant		6.40	
Fertility manure, compost**	100.00		
dry fertilizer	50.00	50.00	
Herbicide	-	-	
Insecticide			
Fungicide			
Soil maintenance (cover crop, fallow etc.)**	40.00	20.00	
Tractor and fuel (37 L corn, 39 L soybeans) and lubricants	44.40	47.25	
machine expenses repairs and maintenance	35.25	44.50	
Marketing board and Grain Financial Protection fees (\$0.401/tonne (corn), \$1.39/tonne (soybeans))	1.20	1.40	
Certification fees	3.75	3.75	
Production insurance	25.35	21.50	
Risk Management Program	4.75	2.35	
Custom work	-	-	
Added expense for handling organic crops	-	-	
Trucking (\$9.10/tonne corn, \$9.10/tonne soybeans)	28.45	9.30	
Drying (\$21.90/tonne corn)	66.65	-	
Storage	9.00	9.00	
Land rent	_	-	
Operator labour (self or hired)	21.15	22.55	
Labour — hand weed	_	-	
Interest on operating	9.40	5.70	
Total Operating Expenses	555.75	335.50	
REVENUE			
Expected yield			
Expected price	<b>-</b>		
Program payment Total Market	Revenue (116	eld x Price)	
		al Revenue	
CONTRIBUTION MARGIN (Revenue	e – Operating	Expenses)	
OVERHEAD EXPENSES		6 - 6 -	
Machinery depreciation	50.90	65.00	
interest on investment	16.90	23.40	
Land	_	-	
Other overhead	6.70	10.90	
TOTAL EXPENSES	630.25	434.80	

#### COAIN COON AND COVDEANC\*

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

Organic budget estimates do not include transition period costs. \*

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

				Winter		
OPERATING EXPEN	ISES			Wheat	Spelt	
(costs based on pro 1.09 tonnes/acres	ojected yield of 1.50 tonnes/acre	(55 bu/acre)	wheat;	Sample Costs/Acre	Sample Costs/Acre	Your Farm Budget
Seed	wheat: 1.5–1.7 million seeds/ac	re. certified. or	ganic:	99.70	116.35	244801
	spelt: 180 kg/ha certified, organi		8,			
Fertility	manure, compost**			100.00	100.00	
	dry fertilizer			50.00	50.00	
Herbicide					_	
Fungicide				_	_	
-	cover crop, fallow, etc.)**			40.00	40.00	
Tractor and	fuel (30 L) and lubricants			36.15	36.15	
machine expenses	repairs and maintenance			27.70	27.70	
Production insurance	1 · ·			41.45	30.25	
Risk Management F				2.45	_	
	d Grain Financial Protection fee (\$0	0.81/tonne (w	neat))	1.20		
Certification fees		,	.,	3.75	3.75	
Custom work				-	_	
	handling organic crops			_		
Trucking (\$9.10/tor				13.65	9.95	
Storage				9.00	9.00	
Land rent					_	
Operator labour (se	If or hired)			16.70	16.70	
Labour — hand wee				10110	10110	
Interest on operatin				12.65	12.60	
	-	erating Expen	ses — Grain	454.40	452.45	
Expenses for Straw	(costs based on projected yield of					
Tractor and	fuel (6 L) and lubricants		/ /	6.70	6.70	
machine expenses	repairs and maintenance			7.30	7.30	
Twine				10.60	10.60	
Other				14.45	14.45	
	Total Op	erating Expens	ses — Straw	39.05	39.05	
		Total Operati		493.45	491.50	
REVENUE			3 - 1			
Expected yield						
Expected price						
			Total Mark	et Revenue ()	(ield x Price)	
Program payment						
				Т	otal Revenue	
Expected straw yield	d					
Expected straw pric						
			Total Stra	aw Revenue ()	(ield x Price)	
				-	otal Revenue	
	CON	TRIBUTION M	ARGIN (Reve			
		Wheat	Wheat &	Spelt	Spelt &	
OVERHEAD EXPEN	SES	Only	Straw	Only	Straw	
Machinery	depreciation	42.10	50.50	42.10	50.50	
	interest on investment	14.30	16.70	14.30	16.70	
Land		_	-	_		
-		- 6.45	- 8.45	- 6.45	- 8.45	

#### CDELT+ MANTED MANEAT

\* 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 EXPEN	ISES			Barley	Oats	
	ojected yield of 1.2 tonne	es/acre (56 bu/	/acre) barley;	Sample Costs/Acre	Sample Costs/Acre	Your Farm Budget
Expenses for Grain						
Seed	barley: 168 kg/ha certifi			107.75	108.50	
	oats: 157 kg/ha certifie	d, organic				
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		36.15	36.15	
machine expenses	repairs and maintenance	Э		29.30	29.30	
Production insurance	ce			10.05	10.05	
Risk Management I	Program			9.70	8.00	
-	e (\$1.19/tonne (barley), \$	1.34/tonne (oa	ts))	1.45	1.35	
Certification fees				3.75	3.75	
Custom work						
Added expense for	handling organic crops			-		
Trucking (\$9.10/to	nne)			11.10	9.15	
Storage				9.00	9.00	
Land rent				_	_	
Operator labour (se	If or hired)			16.70	16.70	
Labour — hand we	ed			-	-	
Interest on operatir	ng			9.30	9.20	
· ·	-	al Operating Ex	penses — Grain	334.25	331.15	
Expenses for Strav	(costs based on project		-	rley), 2.21 tonr	es/acre (oats))	
Tractor and	fuel (6 L) and lubricants		. <u> </u>	6.70	6.70	
machine expenses	repairs and maintenance	Э		7.30	7.30	
Twine	, · ·			8.30	9.70	
Other				14.45	14.45	
	Tot	al Operating Ex	penses — Straw	36.75	38.15	
			rating Expenses	371.00	369.30	
REVENUE						
Expected yield						
Expected price						
			Total M	larket Revenue	(Yield x Price)	
Program payment			lotal II			
					Total Revenue	
Expected straw yiel	d					
Expected straw price						
			Total	Straw Revenue	(Vield x Price)	
			iviai		Total Revenue	
		CONTRIBUT	TION MARGIN (R			
OVERHEAD EXPEN	SES	Barley Only	Barley & Straw	Oats Only	Oats & Straw	
		40.50	48.90	40.50	48.90	
Machinery	depreciation					
Land	interest on investment	13.20	15.60	13.20	15.60	
Land Other overhead		-		-	-	
LITTOR OVORDOOD		5.05	7.05	5.05	7.05	
	TOTAL EXPENSES	393.00	442.55	389.90	440.85	

\* 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 <u>ontario.ca</u> 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 <u>ontario.ca/agbusiness</u>. For results of the Custom Farmwork and Equipment Rental Rates survey, go to <u>ontario.ca/agbusiness</u> 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.

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

### METRIC CONVERSION TABLES

#### Application rate conversions (approximate)

<b>Metric to Imperial</b> litres per hectare × 0.09 = gallons per acre	Dry weight equivalents grams or kilograms/hectare ounces or pounds/acre
litres per hectare × 0.36 = quarts per acre	$100 \text{ g/ha} = 1\frac{1}{2} \text{ oz/acre}$
litres per hectare $\times 0.71 = \text{pints per acre}$	200 g/ha = 3 oz/acre
millilitres per hectare × 0.015 = fluid ounces per acre	$300 \text{ g/ha} = 4\frac{1}{4} \text{ oz/acre}$
grams per hectare × 0.015 = ounces per acre	500 g/ha = 7 oz/acre
kilograms per hectare × 0.89 = pounds per acre	700 g/ha = 10 oz/acre
tonnes per hectare × 0.45 = tons per acre	1.10  kg/ha = 1  lb/acre
	$1.50 \text{ kg/ha} = 1\frac{1}{4} \text{ lb/acre}$
Imperial to metric	2.00 kg/ha = 1 <sup>3</sup> / <sub>4</sub> lb/acre
gallons per acre × 11.23 = litres per hectare (L/ha)	2.50 kg/ha = $2^{1/4}$ lb/acre
quarts per acre $\times 2.8$ = litres per hectare (L/ha)	3.25  kg/ha = 3  lb/acre
pints per acre $\times$ 1.4 = litres per hectare (L/ha)	$4.00 \text{ kg/ha} = 3^{1/2} \text{ lb/acre}$
fluid ounces per acre × 70 = millilitres per hectare (mL/ha)	5.00 kg/ha = 4 <sup>1</sup> ⁄ <sub>2</sub> lb/acre
tons per acre × 2.24 = tonnes per hectare (t/ha)	$6.00 \text{ kg/ha} = 5\frac{1}{4} \text{ lb/acre}$
pounds per acre × 1.12 = kilograms per hectare (kg/ha)	$7.50 \text{ kg/ha} = 6^{3}/_{4} \text{ lb/acre}$
ounces per acre × 70 = grams per hectare (g/ha)	9.00 kg/ha = 8 lb/acre
	11.00 kg/ha = 10 lb/acre
Liquid equivalents	13.00 kg/ha = 11 <sup>1</sup> / <sub>2</sub> lb/acre
litres/hectare approximate gallons/acre 50 L/ha = 5 gal/acre	15.00 kg/ha = 13 <sup>1</sup> / <sub>2</sub> lb/acre

#### Handy metric conversion factor

litres per hectare × 0.4 = litres per acre kilograms per hectare × 0.4 = kilograms per acre

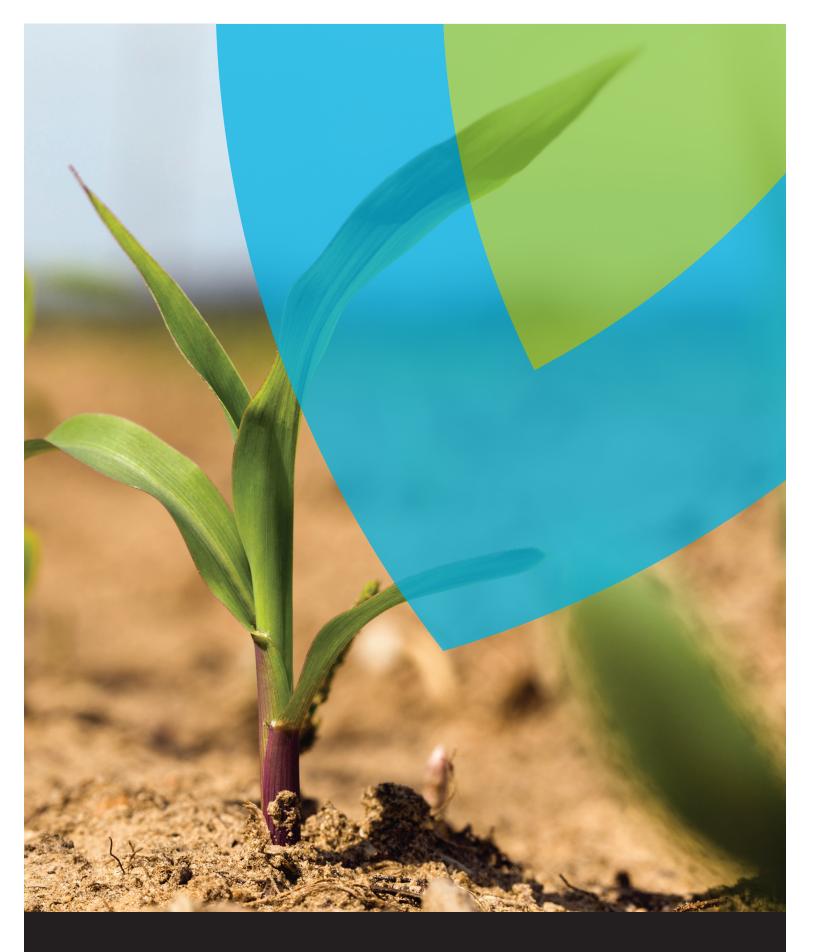
#### Conversion tables imperial to metric (approximate)

Area	Volume (dry)	Volume (liquid)	Weight
$1 \text{ square foot} = 0.09 \text{ m}^2$	1 cubic yard = $0.76 \text{ m}^3$	1 fluid ounce (imp.)= 28.41 mL	1 ounce = 28.35 g
1 square yard = $0.84 \text{ m}^2$	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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#### Agricultural Information Contact Centre: 1-877-424-1300 1-855-696-2811 (TTY) E-mail: ag.info.omafra@ontario.ca

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