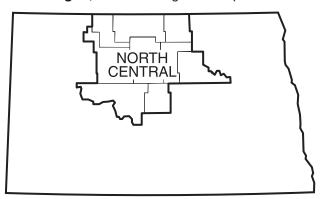


Projected 2004 Crop Budgets North Central North Dakota

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The 2004 crop budgets provide an estimate of revenues and costs for selected crops. Each set of budgets are developed for a multi-county region. There is considerable variation in soil type and productivity, weather conditions, as well as management and production practices within each region. Therefore, THESE BUDGETS ARE ONLY INTENDED TO BE USED AS A GUIDE. EVERY INDIVIDUAL IS HIGHLY ENCOURAGED TO DEVELOP HIS/HER OWN BUDGETS!

PROFITABILITY and CASH FLOW budgets are shown because each provides valuable information to the producer. To fully understand the budgets, it is important that you study the explanations of how each item is calculated.



The PROFITABILITY budget accounts for full economic opportunity costs for land and machinery investment, regardless of farm operator equity position. The bottom line is the return to labor and management. This is the expected "payment" to the producer for the labor and managerial efforts required by the crop enterprise. Each individual must make the decision whether it is sufficient.

The profitability budget can be changed to conform to the more common definition of accounting profit (return to unpaid labor and management, and owner equity) by replacing the machinery investment and land investment cost items with your per acre interest, or rental, expense of machinery and land, respectively.

For short-run planning decisions you can omit the indirect costs if the land and machinery required to produce the different enterprises are in place. Simply compare the crop enterprises by calculating return over direct costs. Labor requirements and risk should also be considered. Insurance is not available for some crops.

The profitability budget can be used for long run decisions if the revenues and costs are realistic for several years.(Crop prices, direct costs, and the land tax and investment are best estimates for only the 2004 crop year, but crop yields are historic averages and machinery ownership costs are an average for the total length of ownership). If the budget shows a high return to labor and management, and is representative for several years, increased acreage and corresponding investment should be considered. However, if long-run returns to labor and management are unsatisfactory the best decision may be to exit the crop enterprise and employ the machinery and land investment, and labor and management, in a different enterprise or investment.

The CASH FLOW budget shows the one-year cash flow feasibility of the crop enterprise. The net cash flow represents the cash left for family living, state and federal taxes, saving and investment after all the cash operating expenses and 2004 land and machinery debt obligations (principal and interest payments) have been met. It is assumed that there are loans on 40% of the land and machinery investment. No depreciation or provision for machinery replacement is considered.

De-coupled payments under the 2002 Farm Bill are not included in the budgets because those payments are not tied to crop selection or production.

Primary Assumptions For All Budgets:

Market Price: Best estimates of NDSU extension economists. The greater of projected market price and marketing loan rate is used.

Market Yields: Average yield for the 7 year period 1996-2002, after the low and high yield years are removed. Yields for canola, field peas, crambe, safflower, yellow mustard, buckwheat, millet and garbanzo beans are from NDSU extension agronomists and industry sources.

Current cropland value/acre = \$403.00

Current cropland rent/acre = \$ 31.89

Fertilizer: Cost of fertilizer applied, based on soil test, to meet yield goal of 130% of market yield.

Soil test - recrop:

Nitrogen - 50 lb

Phosphorus - 8 ppm

Potassium -363 ppm

Fertilizer prices:

Nitrogen - .23/lb Phosphorus - .22/lb Potassium - .13/lb

Seed Prices:

Spring Wheat 5.75/bu
Durum 6.25/bu
Barley 4.60/bu

Corn Grain RR
Oil Sunflower
Conf. Sunflower
1.34/thous.kern.
64/thou.kern.
1.05/thou.kern.

Soybean RR 25/50 lbs Dry Beans .59/lb Flax 9.00/bu Canola 3.00/lb Oats 3.50/bu Field Peas 5.75/bu .15/lb Millet .28/lb Buckwheat .23/lb Lentils Mustard .85/lb Rve 4.00/bu Winter Wheat 4.750/bu Corn silage .80/thou.kern.

Alfalfa 2.60/lb

Fuel prices:

Diesel 1.05/gal Gas 1.45/gal

Lubrication charge: 15% of fuel cost

Miscellaneous: soil testing, machinery rent and custom work.

Direct costs charged 6.00% interest for 6 month period.

Costs of moving crop to storage are included.

Crops assumed to be planted on dryland recrop ground.

Assumptions for Profitability Budgets:

Misc. Overhead - Machinery housing and insurance at .5% and .85%, respectively, of average machinery investment. Also, liability insurance and license fees of trucks. In addition, \$1 per acre is assumed for general farm utilities, farm publications, meetings, dues, income tax preparation, legal fees, etc.

Land investment charge = average cash rent for region minus land tax.

Machinery investment: 4.5% real interest rate, over the years of machine ownership, is charged on average machinery investment. The real, or inflation adjusted, rate is the commercial rate minus the inflation rate. Ave. mach. investment = (Purchase price + Disposal price)/2

Depreciation = (Purchase price - disposal price / years ownership)

Assumptions for Cash Cost Budgets:

Misc. Overhead - same as for "profitability" budget except the housing expense calculation for machinery is omitted.

Machinery Investment cost = Annual principal and interest payment on machinery debt. Loan amount is 40% of total machinery investment. Terms of machinery debt is 7 years at 6.5% interest. You should enter your actual annual debt payment for machinery per acre.

Land Investment cost = Annual principal and interest payment on land debt. Loan amount is 40% of crop land value. Terms of land debt is 30 years at 6.75% interest. You should use your actual annual land loan payment per acre. Substitute cash rent cost for land taxes and loan payment if land is cash rented instead of owned.

Example Sequence of Operations

Field operations sequence for spring wheat, durum, barley and oats.

OP. NO.	DESCRIPTION	(FEET) WIDTH	(MPH) SPEED	(AC/HR) Fld Cap	(\$/AC) FUEL & LUBE	(\$/AC) EST. REPAIRS
1	Field Cultivate	45	5.0	23.2	\$ 0.64	\$ 0.81
2	Pick Rocks		3.0	29.1	0.18	0.39
3	Plant	35	5.0	14.8	1.00	3.09
4	Spray	70	6.0	33.1	0.16	0.41
5	Combine str. cut	25	4.0	8.5	1.44	2.76
6	Chisel Plow	35	4.5	16.2	0.92	1.04
	Trucks*				0.50	0.61
	Grain auger (pto)			0.07	0.01
	Pickup truck allo	cation			0.84	0.45
		Total			5.76	9.57

^{*} Truck costs will vary between crops.

Spring Wheat

Market Yield Market Price	28 \$ 3.29	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		92.12	92.12	
DIRECT COSTS -Seed -Herbicides -Fungicides* -Insecticides** -Fertilizer -Crop Insurance -Fuel & Lubricati -Repairs -Drying	on	8.63 9.90 1.50 0.00 13.71 3.50 5.76 9.57 0.00	8.63 9.90 1.50 0.00 13.71 3.50 5.76 9.57 0.00	
-Miscellaneous-Operating Interes	est	1.00 1.61	1.00 1.61	
SUM OF LISTED DIR INDIRECT (FIXED) Co -Misc. Overhead -Machinery Depr	OSTS	3.45 11.90	2.64	
-Machinery Depri -Machinery Invest -Land Taxes -Land Investmen	stment	7.35 4.23 27.66	17.90 4.23 12.67	
SUM OF LISTED IND	IRECT COSTS	54.59	37.43	
SUM OF ALL LISTED	COSTS	109.76	92.61	
RETURN TO LABOR NET CASH FLOW	& MANAGEMEN	T (17.64) xxxxxx	xxxxxx (0.49)	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	BUDGET UNIT	(bu): 1.97 1.95 3.92	1.97 1.34 3.31	

^{*}Foliar fungicide would cost about \$9.50 plus application. Recent trials consistantly show 15% to 20% yield improvement over diseased untreated crop.

^{**}Orange wheat blossom midge insecticide would cost about \$6 per acre plus application.

Durum

Market Yield Market Price	25 \$ 3.67	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		91.75	91.75	
DIRECT COSTS -Seed -Herbicides -Fungicides* -Insecticides** -Fertilizer -Crop Insurance -Fuel & Lubricati -Repairs -Drying	on	12.50 9.90 1.50 0.00 11.01 3.60 5.70 9.50 0.00	12.50 9.90 1.50 0.00 11.01 3.60 5.70 9.50 0.00	
-Miscellaneous-Operating Interest	est	1.00 1.64	1.00 1.64	
SUM OF LISTED DIR	ECT COSTS	56.36	56.36	
INDIRECT (FIXED) C -Misc. Overhead -Machinery Depi -Machinery Investand Taxes -Land Investmen	reciation stment	3.40 11.77 7.26 4.23 27.66	2.59 xxxxxx 17.66 4.23 12.67	
SUM OF LISTED IND	IRECT COSTS	54.32	37.15	
SUM OF ALL LISTED	COSTS	110.68	93.51	
RETURN TO LABOR NET CASH FLOW	& MANAGEMEN ⁻	T (18.93) xxxxxx	xxxxxx (1.76)	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	BUDGET UNIT (bu) : 2.25 2.17 4.43	2.25 1.49 3.74	

^{*}Foliar fungicide would cost about \$9.50 plus application. Recent trials consistantly show 15% to 20% yield improvement over diseased untreated crop.

^{**}Orange wheat blossom midge insecticide would cost about \$6 per acre plus application.

Malting Barley

Market Yield Market Price*	51 \$ 2.29	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		116.79	116.79	
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides -Fertilizer -Crop Insurance -Fuel & Lubricati -Repairs -Drying	on	6.90 8.70 1.25 0.00 16.99 2.50 6.61 10.66 0.00	6.90 8.70 1.25 0.00 16.99 2.50 6.61 10.66 0.00	
-Miscellaneous -Operating Inter	est	1.00 1.64 =====	1.00 1.64 ======	
SUM OF LISTED DIR	ECT COSTS	56.25	56.25	
INDIRECT (FIXED) C -Misc. Overhead -Machinery Dep -Machinery Inve -Land Taxes -Land Investmen	reciation stment	4.03 13.43 8.61 4.23 27.66	3.08 xxxxxx 21.11 4.23 12.67	
SUM OF LISTED IND	IRECT COSTS	57.97	41.08	
SUM OF ALL LISTED	COSTS	114.22	97.33	
RETURN TO LABOR NET CASH FLOW	& MANAGEMEN	T 2.57 xxxxxx	xxxxxx 19.46	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	BUDGET UNIT (bu) : 1.10 1.14 2.24	1.10 0.81 1.91	

^{*}On average, about 50% of production is feed quality. Feed barley price projection is \$1.73.

Corn Grain

Market Yield Market Price	72 \$ 1.99	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		143.28	143.28	
DIRECT COSTS -Seed* -Herbicides -Fungicides -Insecticides -Fertilizer -Crop Insurance -Fuel & Lubricati -Repairs -Drying -Miscellaneous		28.14 11.50 0.00 0.00 21.50 0.00 8.68 14.35 6.48 1.00	28.14 11.50 0.00 0.00 21.50 0.00 8.68 14.35 6.48 1.00	
-Operating Interes	est	2.75	2.75	
SUM OF LISTED DIR	ECT COSTS	94.40	94.40	
INDIRECT (FIXED) C -Misc. Overhead -Machinery Depi -Machinery Inve- -Land Taxes -Land Investmen	reciation stment	5.42 20.73 12.75 4.23 27.66	4.01 xxxxxx 32.64 4.23 12.67	
SUM OF LISTED IND	IRECT COSTS	70.79	53.54	
SUM OF ALL LISTED	COSTS	165.19	147.94	
RETURN TO LABOR NET CASH FLOW	& MANAGEMEN ⁻	Γ (21.91) xxxxxx	xxxxxx (4.66)	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	BUDGET UNIT (bu): 1.31 0.98 2.29	1.31 0.74 2.05	

^{*}Roundup (glyphosate) resistant corn.
**Crop insurance is only available by written agreement

Oil Sunflower

Market Yield Market Price	1400 \$ 0.108	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		151.20	151.20	
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides* -Fertilizer -Crop Insuranc -Fuel & Lubrica -Repairs -Drying		13.44 11.90 0.00 0.00 13.95 5.50 6.42 10.37 2.80	13.44 11.90 0.00 0.00 13.95 5.50 6.42 10.37 2.80	
-Miscellaneous -Operating Inte		1.00 1.96	1.00 1.96	
SUM OF LISTED D	IRECT COSTS	67.34	67.34	
INDIRECT (FIXED) -Misc. Overhea -Machinery De -Machinery Inv -Land Taxes -Land Investm	ad epreciation vestment	4.14 14.15 9.17 4.23 27.66	3.12 xxxxxx 23.09 4.23 12.67	
SUM OF LISTED IN	IDIRECT COSTS	59.36	43.10	
SUM OF ALL LISTE	ED COSTS	126.70	110.44	
RETURN TO LABOUNET CASH FLOW	R & MANAGEMEN	Γ 24.50 xxxxxx	xxxxxx 40.76	
LISTED COSTS PE -Direct Costs -Indirect Costs -Total Costs		0.05 0.04 0.09	0.05 0.03 0.08	

^{*}Sunflower beetle insecticide would cost about \$2 plus application. Red seed weevil insecticide would cost about \$6 plus application.

Confectionery Sunflower

Market Yield Market Price	1340 \$ 0.145	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		194.30	194.30	
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides* -Fertilizer -Crop Insuranc -Fuel & Lubrica -Repairs -Drying -Miscellaneous -Operating Inte	ation	18.90 11.90 0.00 6.00 12.86 7.30 6.38 10.33 2.68 5.50 2.46	18.90 11.90 0.00 6.00 12.86 7.30 6.38 10.33 2.68 5.50 2.46	
SUM OF LISTED D		84.31	====== 84.31	
INDIRECT (FIXED) -Misc. Overhea -Machinery De -Machinery Inv -Land Taxes -Land Investm	ad preciation vestment	4.11 14.07 9.11 4.23 27.66	3.09 xxxxxx 22.93 4.23 12.67	
SUM OF LISTED IN	IDIRECT COSTS	59.18	42.92	
SUM OF ALL LISTE	ED COSTS	143.49	127.23	
RETURN TO LABOUNET CASH FLOW	R & MANAGEMEN ⁻	T 50.81 xxxxxx	xxxxxx 67.07	
LISTED COSTS PE -Direct Costs -Indirect Costs -Total Costs	,	0.06 0.04 0.11	0.06 0.03 0.09	

notes:

*One treatment of insecticide for red seed weevil, lygus bugs and banded moths. Custom application cost of \$4.50 is under "Miscellaneous." A second treatment is often needed. Insecticide for sunflower beetle would cost about \$2 plus application.

Soybeans

Market Yield Market Price	25 \$ 5.03	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		125.75	125.75	
DIRECT COSTS -Seed* -Herbicides* -Fungicides -Insecticides -Fertilizer -Crop Insurance -Fuel & Lubrica -Repairs -Drying -Miscellaneous -Operating Inte	tion	29.10 9.75 0.00 0.00 3.07 4.60 4.95 9.01 0.00 1.50 1.86	29.10 9.75 0.00 0.00 3.07 4.60 4.95 9.01 0.00 1.50 1.86	
SUM OF LISTED DI		63.85	63.85	==========
INDIRECT (FIXED) (-Misc. Overhead -Machinery Dep -Machinery InveLand Taxes -Land Investme	d preciation estment	3.29 11.50 6.91 4.23 27.66	2.53 xxxxxx 17.29 4.23 12.67	
SUM OF LISTED IN	DIRECT COSTS	53.60	36.71	
SUM OF ALL LISTER	COSTS	117.45	100.55	
RETURN TO LABOR NET CASH FLOW	& MANAGEMEN	IT 8.30 xxxxxx	xxxxxx 25.20	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	BUDGET UNIT	(bu): 2.55 2.14 4.70	2.55 1.47 4.02	

^{*}Roundup (glyphosate) resistant soybeans. Per acre cost of conventional soybean seed be about \$11.50 for public varieties and \$18 for private varieties, and herbicide costs would be about \$18.

Drybeans

Market Yield Market Price	1400 \$ 0.17	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		238.00	238.00	
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides -Fertilizer -Crop Insuranc -Fuel & Lubrica -Repairs -Drying -Miscellaneous	ation	29.50 20.42 0.00 0.00 14.60 10.60 6.67 11.37 0.00 1.00 2.82	29.50 20.42 0.00 0.00 14.60 10.60 6.67 11.37 0.00 1.00 2.82	
-Operating Inte		2.82 ====== 96.98	2.82 ====== 96.98	=========
INDIRECT (FIXED) -Misc. Overhea -Machinery De -Machinery Inv -Land Taxes -Land Investme	COSTS ad preciation estment	4.17 15.10 9.89 4.23 27.66	3.07 xxxxxx 24.95 4.23 12.67	
SUM OF LISTED IN	DIRECT COSTS	61.06	44.92	
SUM OF ALL LISTE	D COSTS	158.04	141.90	
RETURN TO LABOR NET CASH FLOW	R & MANAGEMEN	T 79.96 xxxxxx	xxxxxx 96.10	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	R BUDGET UNIT (0.07 0.04 0.11	0.07 0.03 0.10	

Flax

Market Yield Market Price	20 \$ 5.19	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		103.80	103.80	
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides* -Fertilizer -Crop Insurance -Fuel & Lubricat -Repairs -Drying		6.30 14.71 0.00 0.00 9.79 4.80 6.70 10.80 0.00	6.30 14.71 0.00 0.00 9.79 4.80 6.70 10.80 0.00	
-Miscellaneous -Operating Inter	est	1.00 1.62	1.00 1.62	
SUM OF LISTED DIR		55.72	55.72	
INDIRECT (FIXED) C -Misc. Overhead -Machinery Dep -Machinery Inve -Land Taxes -Land Investmen	reciation stment	3.66 12.91 8.28 4.23 27.66	2.74 xxxxxx 20.04 4.23 12.67	
SUM OF LISTED IND	IRECT COSTS	56.73	39.67	
SUM OF ALL LISTED	COSTS	112.45	95.39	
RETURN TO LABOR NET CASH FLOW	& MANAGEMEN	T (8.65) xxxxxx	xxxxxx 8.41	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	BUDGET UNIT (bu): 2.79 2.84 5.62	2.79 1.98 4.77	

notes:

*Insecticide for grasshopper outbreak late July or August would cost about \$8 per acre plus application.

Canola

Market Yield Market Price	1340 \$ 0.094	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		125.96	125.96	
DIRECT COSTS -Seed -Herbicides -Fungicides* -Insecticides -Fertilizer** -Crop Insuranc -Fuel & Lubrica -Repairs -Drying -Miscellaneous	ation	16.50 15.75 0.00 7.00 26.79 4.80 6.18 10.13 0.00 1.00	16.50 15.75 0.00 7.00 26.79 4.80 6.18 10.13 0.00 1.00	
-Operating Inte	erest	2.64	2.64	
SUM OF LISTED DI	RECT COSTS	90.80	90.80	
INDIRECT (FIXED) -Misc. Overhea -Machinery De -Machinery Inv -Land Taxes -Land Investme	ad preciation estment	3.59 12.43 7.86 4.23 27.66	2.72 xxxxxx 19.15 4.23 12.67	
SUM OF LISTED IN	DIRECT COSTS	55.77	38.77	
SUM OF ALL LISTE	D COSTS	146.57	129.57	
RETURN TO LABOR NET CASH FLOW	R & MANAGEMEN	Γ (20.61) xxxxxx	xxxxxx (3.61)	
LISTED COSTS PEI -Direct Costs -Indirect Costs -Total Costs	R BUDGET UNIT (I	0.07 0.04 0.11	0.07 0.03 0.10	

^{*}Fungicide for white mold would cost about \$16 plus application. **Fertilizer cost includes 20 lbs sulfer at \$.26/lb.

Oats

Market Yield Market Price	54 \$ 1.28	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		69.12	69.12	
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides -Fertilizer -Crop Insurance -Fuel & Lubricat -Repairs -Drying -Miscellaneous	on	7.00 1.88 0.00 0.00 14.37 3.20 6.66 10.73 0.00 1.00	7.00 1.88 0.00 0.00 14.37 3.20 6.66 10.73 0.00 1.00	
-Operating Inter	est	1.35	1.35	
SUM OF LISTED DIR	ECT COSTS	46.19	46.19	
INDIRECT (FIXED) C -Misc. Overhead -Machinery Dep -Machinery Inve -Land Taxes -Land Investmen	reciation stment	4.09 13.56 8.71 4.23 27.66	3.12 xxxxxx 21.35 4.23 12.67	
SUM OF LISTED IND	IRECT COSTS	58.24	41.36	
SUM OF ALL LISTED	COSTS	104.43	87.55	
RETURN TO LABOR NET CASH FLOW	& MANAGEMEN	T (35.31) xxxxxx	xxxxxx (18.43)	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	BUDGET UNIT (bu) : 0.86 1.08 1.93	0.86 0.77 1.62	

Field Peas

Market Yield Market Price*	35 \$ 3.84	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		134.40	134.40	
DIRECT COSTS -Seed** -Herbicides -Fungicides -Insecticides -Fertilizer -Crop Insurance -Fuel & Lubricati -Repairs -Drying -Miscellaneous	on	17.25 14.64 0.00 0.00 4.98 5.30 6.52 11.05 0.00 2.00	17.25 14.64 0.00 0.00 4.98 5.30 6.52 11.05 0.00 2.00	
-Operating Interest -Opera		1.85 ====== 63.60	1.85 ====== 63.60	
INDIRECT (FIXED) C -Misc. Overhead -Machinery Depi -Machinery Inve -Land Taxes -Land Investmen	reciation stment	3.85 13.90 8.48 4.23 27.66	2.91 xxxxxx 20.76 4.23 12.67	
SUM OF LISTED IND	IRECT COSTS	58.12	40.57	
SUM OF ALL LISTED	COSTS	121.72	104.17	
RETURN TO LABOR NET CASH FLOW	& MANAGEMEN	T 12.68 xxxxxx	xxxxxx 30.23	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	BUDGET UNIT (bu): 1.82 1.66 3.48	1.82 1.16 2.98	

^{*}Food quality price estimate. Feed price of about \$2.75 is below loan rate.
**Producer's own seed is used. Seed cost for new grower would be about \$27.

Millet

Market Yield Market Price	1300 \$ 0.06	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		78.00	78.00	
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides -Fertilizer -Crop Insuranc -Fuel & Lubrica -Repairs -Drying	ation	3.75 1.50 0.00 0.00 5.19 0.00 6.16 10.12 0.00	3.75 1.50 0.00 0.00 5.19 0.00 6.16 10.12 0.00	
-Miscellaneous-Operating Inte		1.00 0.83	1.00 0.83	
SUM OF LISTED DI		28.55	28.55	
INDIRECT (FIXED) -Misc. Overhea -Machinery De -Machinery Inv -Land Taxes -Land Investme	d preciation estment	3.58 12.40 7.83 4.23 27.66	2.71 xxxxxx 19.09 4.23 12.67	
SUM OF LISTED IN	DIRECT COSTS	55.70	38.69	
SUM OF ALL LISTE	D COSTS	84.25	67.24	
RETURN TO LABOR NET CASH FLOW	R & MANAGEMEN	T (6.25) xxxxxx	xxxxxx 10.76	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	R BUDGET UNIT (0.02 0.04 0.06	0.02 0.03 0.05	

Buckwheat

Market Yield Market Price	900 \$ 0.108	Profitability Per Acre	Cash Flow Per Acre	w Your Figures
MARKET INCOME		97.20	97.2	0
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides -Fertilizer -Crop Insurance -Fuel & Lubrica -Repairs -Drying -Miscellaneous	tion	14.00 0.00 0.00 0.00 4.35 0.00 5.62 9.35 0.00 1.00	14.00 0.00 0.00 4.33 0.00 5.66 9.33 0.00	00
-Operating Inter		1.03	1.0	
SUM OF LISTED DIF	RECT COSTS	35.34	35.3	4
INDIRECT (FIXED) Consideration of the construction of the construc	d preciation estment	3.28 11.43 7.00 4.23 27.66	2.5 xxxxx 17.1 4.2 12.6	x
SUM OF LISTED IN	DIRECT COSTS	53.60	36.5	
SUM OF ALL LISTE	COSTS	88.95	71.8	9
RETURN TO LABOR NET CASH FLOW	& MANAGEMEN	T 8.25 xxxxxx	xxxxx 25.3	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	BUDGET UNIT (0.04 0.06 0.10	0.0 0.0 0.0	4

Lentils

Market Yield Market Price	1150 \$ 0.134	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		154.10	154.10	
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides -Fertilizer -Crop Insuranc -Fuel & Lubric -Repairs -Drying -Miscellaneous	ation	16.10 16.14 0.00 0.00 2.73 12.60 6.71 10.67 0.00 4.00 2.07	16.10 16.14 0.00 0.00 2.73 12.60 6.71 10.67 0.00 4.00 2.07	
SUM OF LISTED D		2.07 ====== 71.02	2.07 ====== 71.02	
INDIRECT (FIXED) -Misc. Overhea -Machinery De -Machinery Inv -Land Taxes -Land Investm	ad epreciation vestment	3.45 12.46 7.76 4.23 27.66	2.59 xxxxxx 19.02 4.23 12.67	
SUM OF LISTED IN	IDIRECT COSTS	55.56	38.50	
SUM OF ALL LISTE	ED COSTS	126.58	109.52	
RETURN TO LABO NET CASH FLOW	R & MANAGEMEN	T 27.52 xxxxxx	xxxxxx 44.58	
LISTED COSTS PE -Direct Costs -Indirect Costs -Total Costs	`	0.06 0.05 0.11	0.06 0.03 0.10	

Yellow Mustard

Market Yield Market Price	950 \$ 0.144	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		136.80	136.80	
-Seed -Herbicides -Fungicides -Insecticides -Fertilizer -Crop Insurance -Fuel & Lubrica -Repairs -Drying -Miscellaneous -Operating Inte	tion	10.20 5.95 0.00 0.00 11.96 0.00 5.66 9.20 0.00 1.00 1.32	10.20 5.95 0.00 0.00 11.96 0.00 5.66 9.20 0.00 1.00 1.32	
SUM OF LISTED DI		45.29	45.29	
INDIRECT (FIXED) (-Misc. Overhea -Machinery Dep -Machinery Invo-	d preciation estment	3.16 11.20 6.79 4.23 27.66	2.40 xxxxxx 16.63 4.23 12.67	
SUM OF LISTED IN	DIRECT COSTS	53.04	35.93	
SUM OF ALL LISTE	D COSTS	98.33	81.23	
RETURN TO LABOR NET CASH FLOW	& MANAGEMEN	Г 38.47 хххххх	xxxxxx 55.57	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	R BUDGET UNIT (I	0.05 0.06 0.10	0.05 0.04 0.09	

Rye

Market Yield Market Price	34 \$ 1.99	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		67.66	67.66	
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides -Fertilizer -Crop Insurance -Fuel & Lubricat		4.80 0.00 0.00 0.00 19.12 3.50 6.14 9.88	4.80 0.00 0.00 0.00 19.12 3.50 6.14 9.88	
-Drying -Miscellaneous -Operating Inter	est	0.00 1.00 1.33	0.00 1.00 1.33	
SUM OF LISTED DIF	RECT COSTS	45.77	45.77	
INDIRECT (FIXED) C -Misc. Overhead -Machinery Dep -Machinery InveLand Taxes -Land Investme	l reciation estment	3.62 12.32 7.75 4.23 27.66	2.76 xxxxxx 18.94 4.23 12.67	
SUM OF LISTED IND	DIRECT COSTS	55.58	38.60	
SUM OF ALL LISTED	COSTS	101.35	84.38	
RETURN TO LABOR NET CASH FLOW	& MANAGEMEN	T (33.69) xxxxxx	xxxxxx (16.72)	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	BUDGET UNIT ((bu): 1.35 1.63 2.98	1.35 1.14 2.48	

Winter Wheat

Market Yield* Market Price	36 \$ 2.87	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		103.32	103.32	
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides -Fertilizer -Crop Insurance -Fuel & Lubricat -Repairs -Drying -Miscellaneous -Operating Inter	ion	4.75 1.50 0.00 0.00 20.92 3.50 6.17 9.64 0.00 1.00	4.75 1.50 0.00 0.00 20.92 3.50 6.17 9.64 0.00 1.00	
SUM OF LISTED DIF		48.90	48.90	=======================================
INDIRECT (FIXED) C -Misc. Overhead -Machinery Dep -Machinery Inve -Land Taxes -Land Investment	l reciation stment	3.52 12.15 7.45 4.23 27.66	2.69 xxxxxx 18.24 4.23 12.67	
SUM OF LISTED IND	DIRECT COSTS	55.00	37.83	
SUM OF ALL LISTED	COSTS	103.91	86.73	
RETURN TO LABOR NET CASH FLOW	& MANAGEMEN	T (0.59)	xxxxxx 16.59	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	BUDGET UNIT	(bu): 1.36 1.53 2.89	1.36 1.05 2.41	

^{*}Yield is per harvested acre, 1996-2002 acreage abandonment averaged 11%.

Corn Silage

Market Yield Market Price	9.1 \$ 18.00	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		163.80	163.80	
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides -Fertilizer -Crop Insuranc -Fuel & Lubrica -Repairs -Drying -Miscellaneous	tion *	16.00 15.00 0.00 0.00 24.14 4.60 5.33 8.60 0.00 28.50	16.00 15.00 0.00 0.00 24.14 4.60 5.33 8.60 0.00 28.50	
-Operating Inte		3.07	3.07	
INDIRECT (FIXED) (-Misc. Overhea -Machinery Dep -Machinery Investment -Land Taxes -Land Investment	COSTS d preciation estment	2.85 7.94 6.16 4.23 27.66	2.16 xxxxxx 14.74 4.23 12.67	
SUM OF LISTED IN	DIRECT COSTS	48.84	33.80	
SUM OF ALL LISTE	D COSTS	154.07	139.03	
RETURN TO LABOR NET CASH FLOW	& MANAGEMEN	T 9.73 xxxxxx	xxxxxx 24.77	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	R BUDGET UNIT ((ton): 11.56 5.37 16.93	11.56 3.71 15.28	

^{*}includes custom harvest and hauling

Oats Hay Crop and Alfalfa Seeding

Market Yield Market Price	2.0 \$ 36.00	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		72.00	72.00	
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides -Fertilizer -Crop Insuran -Fuel & Lubric -Repairs -Drying -Miscellaneou	cation	33.00 0.00 0.00 0.00 17.00 0.00 6.26 11.83 0.00 3.10	33.00 0.00 0.00 0.00 17.00 0.00 6.26 11.83 0.00 3.10	
-Operating Int	erest	2.14	2.14	
SUM OF LISTED D	DIRECT COSTS	73.32	73.32	
INDIRECT (FIXED) -Misc. Overhe -Machinery De -Machinery In -Land Taxes -Land Investm	ad epreciation vestment	4.63 12.29 9.45 4.23 27.66	3.58 xxxxxx 23.10 4.23 12.67	
SUM OF LISTED II	NDIRECT COSTS	58.26	43.59	
SUM OF ALL LIST	ED COSTS	131.59	116.91	
RETURN TO LABO NET CASH FLOW	R & MANAGEMEN	Г (59.59) хххххх	xxxxxx (44.91)	
LISTED COSTS PE -Direct Costs -Indirect Costs -Total Costs	ER BUDGET UNIT (ton): 36.66 29.13 65.79	36.66 21.79 58.45	

Alfalfa (established)

Market Yield Market Price	1.8 \$ 55.00	Profitability Per Acre	Cash Flow Per Acre	Your Figures
Warket i nee	φ 55.00	T ET ACIE	i ei Acie	i iguies
MARKET INCOME		99.00	99.00	
DIRECT COSTS				
-Seed		0.00	0.00	
-Herbicides		0.00	0.00	
-Fungicides		0.00	0.00	
-Insecticides		0.00	0.00	
-Fertilizer		4.78	4.78	
-Crop Insurar	nce	0.00	0.00	
-Fuel & Lubri		4.63	4.63	
-Repairs		8.38	8.38	
-Drying		0.00	0.00	
-Miscellaneou	IS	2.70	2.70	
-Operating In		0.61	0.61	
- p		=======	=======	
SUM OF LISTED [DIRECT COSTS	21.11	21.11	
INDIRECT (FIXED)) COSTS			
-Misc. Overhe		3.89	3.08	
-Machinery D	epreciation	9.56	XXXXXX	
-Machinery Ir		7.22	18.34	
-Land Taxes		4.23	4.23	
-Land Investr	nent	27.66	12.67	
		=======	=======	
SUM OF LISTED I	NDIRECT COSTS	52.56	38.32	
SUM OF ALL LIST	ED COSTS	73.66	59.43	
RETURN TO LABO	OR & MANAGEMEN	Г 25.34	xxxxxx	
NET CASH FLOW		XXXXXX	39.57	
LISTED COSTS PE	ER BUDGET UNIT (ton) :		
-Direct Costs		11.73	11.73	
-Indirect Cost	S	29.20	21.29	
-Total Costs		40.92	33.02	

Machinery List

Machine	Purch. Price	Annual Use	Years to trade	Trade in	Deprec.	Invest.	Repairs	Ac/hr
2WD 100HP Tractor	49800	400 hr	20	16068	4.22/hr	3.71/hr	5.07/hr	
2WD 160HP Tractor	82100	500 hr	15	24287	7.71/hr	4.79/hr	8.36/hr	
4WD 280HP Tractor	113000	500 hr	15	33440	10.61/hr	6.59/hr	6.58/hr	
SP Combine (base unit)	130900	250 hr	12	32549	32.78/hr	14.71/hr	21.24/hr	
Tandem Truck (2)	50300	150 hr	20	12750	12.52/hr	9.46/hr	6.60/hr	
Pick-up Truck	18600	300 hr	10	3800	4.93/hr	1.68/hr	2.47/hr	
Swather 25 ft	13500	1000 ac	20	3183	0.52/ac	0.38/ac	0.23/ac	12.1
Sprayer 70 ft	15600	2200 ac	15	6203	0.28/ac	0.22/ac	0.26/ac	33.1
Chisel Plow 35 ft	23800	1600 ac	15	13906	0.41/ac	0.53/ac	0.64/ac	16.2
Field Cultivator 45 ft	29800	3000 ac	15	16489	0.30/ac	0.35/ac	0.53/ac	23.2
Tandem Disk 28 ft	22800	800 ac	20	6553	1.02/ac	0.83/ac	0.65/ac	12.2
Harrow (springtooth) 60 f	t 9700	1200 ac	20	5589	0.17/ac	0.29/ac	0.13/ac	34.0
Row-crop cultivator 12-30	9900	800 ac	15	5463	0.37/ac	0.43/ac	0.37/ac	11.6
Air Seeder 35 ft	67400	1800 ac	12	31533	1.66/ac	1.24/ac	2.65/ac	14.8
Planter 12-30	36500	800 ac	20	12143	1.52/ac	1.37/ac	2.02/ac	10.6
Bean cutter 6-30	7800	400 ac	20	2233	0.70/ac	0.56/ac	0.43/ac	6.5
Corn head 6-30	23400	400 ac	20	2192	2.65/ac	1.44/ac	0.83/ac	4.5
Grain head w/pu	10200	1200 ac	10	3606	0.55/ac	0.26/ac	0.19/ac	8.5
Grain str. cut 25 ft	13800	1000 ac	12	3898	0.82/ac	0.40/ac	0.25/ac	8.5
Head w/sunf pans 25 ft	17200	400 ac	20	1813	1.92/ac	1.07/ac	0.32/ac	8.5
Soybeans str. cut 25 ft	21300	800 ac	20	1978	1.21/ac	0.65/ac	0.40/ac	8.5
Head w/drybean pickups	21300	400 ac	20	2253	2.38/ac	1.32/ac	0.40/ac	8.5
Mower-conditioner 14 ft	18700	400 ac	20	4412	1.79/ac	1.30/ac	1.19/ac	5.7
Baler (large round)	19000	400 ac	20	6058	1.62/ac	1.41/ac	2.66/ac	5.0
Rock picker	14300	50 hr	20	4530	0.33/ac	0.28/ac	0.21/ac	29.1
Loader for tractor	4900	150 hr	15	1922	1.35/hr	1.04/hr	2.28/hr	
Grain auger	5000	50 hr	20	700	4.30/hr	2.57/hr	0.62/hr	