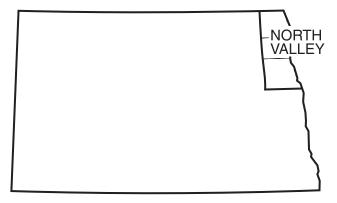


Projected 2004 Crop Budgets North Valley North Dakota

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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 = \$736.00

Current cropland rent/acre = \$ 49.53

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

Soil test	 recrop:
Nitrogoo	

nitrogen	- 45 10
Phosphorus	- 11 ppm
Potassium	-280 ppm

Fertilizer prices:

Nitrogen	25/lb
Phosphorus	22/lb
Potassium	13/lb

Seed Prices:

ccu i necs.	
Spring Wheat	5.75/bu
Durum	6.25/bu
Barley	4.60/bu
Corn Grain RR	1.34/thous.kern.
Oil Sunflower	.64/thou.kern.
Conf. Sunflower	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
Buckwheat	.28/lb
Mustard	.85/lb
Alfalfa	3.15/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, oats and flax.

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	Field Cultivate	45	5.0	23.2	\$ 0.64	\$ 0.81
3	Plant	30	4.5	11.5	0.74	2.87
4	Spray	70	6.0	33.1	0.16	0.41
5	Swath	25	5.0	12.1	0.44	0.65
6	Combine	25	4.0	8.5	1.44	2.70
7	Chisel Plow	35	4.5	16.2	0.92	1.04
8	Chisel Plow	35	4.5	16.2	0.92	1.04
	Trucks*				0.70	0.85
	Grain auger (pto	o)			0.07	0.01
	Pickup truck allo	cation			0.84	0.45
		Total			7.51	11.64

* Truck costs will vary between crops.

Spring Wheat

Market Yield Market Price	39 \$ 3.41	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		132.99	132.99	
DIRECT COSTS -Seed -Herbicides -Fungicides* -Insecticides -Fertilizer -Crop Insurance -Fuel & Lubricat -Repairs -Drying -Miscellaneous		$ \begin{array}{r} 11.50\\ 11.50\\ 1.50\\ 0.00\\ 24.16\\ 4.50\\ 7.51\\ 11.64\\ 0.00\\ 1.00\\ \end{array} $	$\begin{array}{c} 11.50\\ 11.50\\ 1.50\\ 0.00\\ 24.16\\ 4.50\\ 7.51\\ 11.64\\ 0.00\\ 1.00\\ \end{array}$	
-Operating Inter	est	2.20 ======	2.20 ======	
SUM OF LISTED DIF	ECT COSTS	75.51	75.51	
INDIRECT (FIXED) C -Misc. Overhead -Machinery Dep -Machinery Inve -Land Taxes -Land Investme	l reciation stment	4.08 13.90 9.12 9.70 39.83	3.07 xxxxxx 22.04 9.70 23.13	
SUM OF LISTED INC	DIRECT COSTS	76.62	57.93	
SUM OF ALL LISTED	COSTS	152.13	133.45	
RETURN TO LABOR NET CASH FLOW	& MANAGEMEN	T (19.14) xxxxxx	xxxxxx (0.46)	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	BUDGET UNIT (bu) : 1.94 1.96 3.90	1.94 1.49 3.42	

notes:

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

Durum

Market Yield Market Price	27 \$ 3.85	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		103.95	103.95	
DIRECT COSTS -Seed -Herbicides -Fungicides* -Insecticides -Fertilizer -Crop Insurance -Fuel & Lubrica -Repairs -Drying -Miscellaneous	tion	12.50 11.50 1.50 0.00 13.27 5.00 7.30 11.38 0.00 1.00	$12.50 \\ 11.50 \\ 1.50 \\ 0.00 \\ 13.27 \\ 5.00 \\ 7.30 \\ 11.38 \\ 0.00 \\ 1.0$	
-Operating Inte		1.90	1.90 =======	
SUM OF LISTED DI INDIRECT (FIXED) (-Misc. Overhea -Machinery Dep -Machinery Invo -Land Taxes -Land Investme	COSTS d preciation estment	65.35 3.86 13.40 8.74 9.70 39.83	65.35 2.89 xxxxx 21.07 9.70 23.13	
SUM OF LISTED IN	DIRECT COSTS	75.53	56.79	
SUM OF ALL LISTE	O COSTS	140.88	122.14	
RETURN TO LABOR NET CASH FLOW	& MANAGEMEN	T (36.93) xxxxxx	xxxxxx (18.19)	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	R BUDGET UNIT (bu) : 2.42 2.80 5.22	2.42 2.10 4.52	

notes:

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

Malting Barley

Market Yield Market Price*	56 \$ 2.30	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		128.80	128.80	
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides -Fertilizer -Crop Insurance -Fuel & Lubricat -Repairs -Drying -Miscellaneous -Operating Inter	ion	9.20 9.90 1.25 0.00 19.81 3.40 7.82 12.01 0.00 1.00 1.93	9.20 9.90 1.25 0.00 19.81 3.40 7.82 12.01 0.00 1.00 1.93	
SUM OF LISTED DIF	RECT COSTS	======= 66.32	======= 66.32	
INDIRECT (FIXED) C -Misc. Overhead -Machinery Dep -Machinery Inve -Land Taxes -Land Investme	COSTS 1 preciation estment	4.39 14.60 9.65 9.70 39.83	3.32 xxxxxx 23.41 9.70 23.13	
SUM OF LISTED IN	DIRECT COSTS	======= 78.16	======= 59.56	
SUM OF ALL LISTED	COSTS	144.48	125.88	
RETURN TO LABOR NET CASH FLOW	& MANAGEMEN	IT (15.68) xxxxxx	xxxxxx 2.92	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	BUDGET UNIT	(bu): 1.18 1.40 2.58	1.18 1.06 2.25	

notes:

*On average, about 60% of production is feed quality.

Feed barley price projection is \$1.74.

Corn Grain

Market Yield Market Price	98 \$ 1.96	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		192.08	192.08	
DIRECT COSTS -Seed* -Herbicides -Fungicides -Insecticides** -Fertilizer -Crop Insurance -Fuel & Lubricati -Repairs -Drying -Miscellaneous		34.84 11.50 0.00 0.00 33.02 6.60 9.86 15.55 8.78 1.00	34.84 11.50 0.00 0.00 33.02 6.60 9.86 15.55 8.78 1.00	
-Operating Intere		3.63 ======	3.63 ======	
SUM OF LISTED DIR		124.78	124.78	
INDIRECT (FIXED) C -Misc. Overhead -Machinery Depu -Machinery Invest -Land Taxes -Land Investmer	eciation stment	6.03 22.34 14.04 9.70 39.83	4.47 xxxxxx 35.71 9.70 23.13	
SUM OF LISTED IND	IRECT COSTS	91.94	73.01	
SUM OF ALL LISTED	COSTS	216.71	197.79	
RETURN TO LABOR NET CASH FLOW	& MANAGEMEN	NT (24.63) xxxxxx	xxxxxx (5.71)	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	BUDGET UNIT	(bu) : 1.27 0.94 2.21	1.27 0.75 2.02	

notes:

*Roundup (glyphosate) resistant corn. **Corn borer insecticide, foliar applied mid-season, would cost about \$7 plus application.

Oil Sunflower

Market Yield Market Price	1370 \$ 0.111	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		152.07	152.07	
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides* -Fertilizer -Crop Insurand -Fuel & Lubric -Repairs -Drying -Miscellaneous -Operating Inte	ation	15.36 11.90 0.00 0.00 13.79 6.70 7.75 11.03 2.74 1.00 2.11	15.36 11.90 0.00 13.79 6.70 7.75 11.03 2.74 1.00 2.11	
SUM OF LISTED D		====== 72.38	=======================================	
INDIRECT (FIXED) -Misc. Overhea -Machinery De -Machinery Inv -Land Taxes -Land Investm	COSTS ad epreciation vestment	4.32 15.43 9.92 9.70 39.83	3.21 xxxxxx 25.07 9.70 23.13	
SUM OF LISTED IN	IDIRECT COSTS	79.20	61.11	
SUM OF ALL LISTE	D COSTS	151.58	133.50	
RETURN TO LABO NET CASH FLOW	R & MANAGEMEN	T 0.49 xxxxxx	xxxxxx 18.57	
LISTED COSTS PE -Direct Costs -Indirect Costs -Total Costs	,	lb) : 0.05 0.06 0.11	0.05 0.04 0.10	

notes:

*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	1250 \$ 0.149	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		186.25	186.25	
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides* -Fertilizer -Crop Insurance -Fuel & Lubricat -Repairs -Drying -Miscellaneous	tion	21.00 11.90 0.00 6.00 11.60 8.90 7.37 11.07 2.50 5.50	21.00 11.90 0.00 6.00 11.60 8.90 7.37 11.07 2.50 5.50	
-Operating Inter		2.57 ======= 88.41	2.57 ======= 88.41	
INDIRECT (FIXED) C -Misc. Overhead -Machinery Dep -Machinery Inve -Land Taxes -Land Investme	COSTS d preciation estment	4.34 15.37 9.98 9.70 39.83	3.23 xxxxxx 25.12 9.70 23.13	
SUM OF LISTED IN	DIRECT COSTS	79.22	61.19	
SUM OF ALL LISTED	COSTS	167.63	149.60	
RETURN TO LABOR NET CASH FLOW	& MANAGEMEN	NT 18.62 xxxxxx	xxxxxx 36.65	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	BUDGET UNIT	(lb) : 0.07 0.06 0.13	0.07 0.05 0.12	

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	29 \$ 5.23	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		151.67	151.67	
DIRECT COSTS -Seed* -Herbicides* -Fungicides -Insecticides -Fertilizer -Crop Insurance -Fuel & Lubricati -Repairs -Drying -Miscellaneous		29.10 9.75 0.00 0.00 1.28 4.90 6.14 10.34 0.00 1.50	29.10 9.75 0.00 0.00 1.28 4.90 6.14 10.34 0.00 1.50	
-Operating Intere		1.89	1.89	
SUM OF LISTED DIR INDIRECT (FIXED) C -Misc. Overhead -Machinery Depu -Machinery Inve -Land Taxes -Land Investmen	OSTS reciation stment	64.90 3.63 12.62 7.92 9.70 39.83	64.90 2.75 xxxxxx 19.51 9.70 23.13	
SUM OF LISTED IND	IRECT COSTS	73.70	55.09	
SUM OF ALL LISTED	COSTS	138.60	119.99	
RETURN TO LABOR NET CASH FLOW	& MANAGEMEN	T 13.07 xxxxxx	xxxxxx 31.68	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	BUDGET UNIT (bu) : 2.24 2.54 4.78	2.24 1.90 4.14	

notes:

*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 Insurand -Fuel & Lubrica -Repairs -Drying -Miscellaneous	ation	29.50 20.42 0.00 14.12 9.80 7.40 12.02 0.00 1.00	29.50 20.42 0.00 0.00 14.12 9.80 7.40 12.02 0.00 1.00	
-Operating Inte		2.83 ======	2.83 ======	
SUM OF LISTED DI	RECT COSTS	97.10	97.10	
INDIRECT (FIXED) -Misc. Overhea -Machinery De -Machinery Inv -Land Taxes -Land Investme	nd preciation estment	4.33 15.70 10.42 9.70 39.83	3.17 xxxxxx 26.04 9.70 23.13	
SUM OF LISTED IN	DIRECT COSTS	====== 79.98	======= 62.04	
SUM OF ALL LISTE	D COSTS	177.07	159.14	
RETURN TO LABOR NET CASH FLOW	R & MANAGEMEN	T 60.93 xxxxxx	xxxxxx 78.86	
LISTED COSTS PEI -Direct Costs -Indirect Costs -Total Costs	R BUDGET UNIT ((lb) : 0.07 0.06 0.13	0.07 0.04 0.11	

notes:

*Fungicide for white mold would cost about \$16 plus application.

Flax

Market Yield Market Price	22 \$ 5.34	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		117.48	117.48	
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides -Fertilizer -Crop Insurance -Fuel & Lubricat -Repairs -Drying -Miscellaneous -Operating Inter	tion	7.20 14.71 0.00 12.51 5.40 7.21 11.27 0.00 1.00 1.78	7.20 14.71 0.00 12.51 5.40 7.21 11.27 0.00 1.00 1.78	
SUM OF LISTED DIF		61.07	======= 61.07	
INDIRECT (FIXED) C -Misc. Overhead -Machinery Dep -Machinery Inve -Land Taxes -Land Investme	d preciation estment	3.77 13.19 8.59 9.70 39.83	2.82 xxxxxx 20.67 9.70 23.13	
SUM OF LISTED IN	DIRECT COSTS	====== 75.08	======= 56.31	
SUM OF ALL LISTED	O COSTS	136.15	117.39	
RETURN TO LABOR NET CASH FLOW		xxxxxx	xxxxxx 0.09	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	BUDGET UNIT (bu) : 2.78 3.41 6.19	2.78 2.56 5.34	

Canola

Market Yield Market Price	1300 \$ 0.093	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		120.90	120.90	
DIRECT COSTS -Seed -Herbicides -Fungicides* -Insecticides -Fertilizer** -Crop Insurand -Fuel & Lubrica -Repairs -Drying -Miscellaneous -Operating Inte	ation	$16.50 \\ 15.75 \\ 0.00 \\ 7.00 \\ 25.80 \\ 4.50 \\ 6.36 \\ 10.32 \\ 0.00 \\ 1.00 \\ 2.62 \\$	$\begin{array}{c} 16.50 \\ 15.75 \\ 0.00 \\ 7.00 \\ 25.80 \\ 4.50 \\ 6.36 \\ 10.32 \\ 0.00 \\ 1.00 \\ 2.62 \end{array}$	
SUM OF LISTED D		 89.84	 89.84	
INDIRECT (FIXED) -Misc. Overhea -Machinery De -Machinery Inv -Land Taxes -Land Investm	COSTS ad preciation vestment	3.56 12.29 7.77 9.70 39.83	2.70 xxxxxx 18.89 9.70 23.13	
SUM OF LISTED IN	IDIRECT COSTS	====== 73.16	====== 54.42	
SUM OF ALL LISTE	D COSTS	163.00	144.26	
RETURN TO LABO	R & MANAGEMEN	T (42.10) xxxxxx	xxxxxx (23.36)	
LISTED COSTS PE -Direct Costs -Indirect Costs -Total Costs		lb) : 0.07 0.06 0.13	0.07 0.04 0.11	

notes:

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

Oats

Market Yield Market Price	58 \$ 1.28	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		74.24	74.24	
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides -Fertilizer -Crop Insurance -Fuel & Lubricat -Repairs -Drying -Miscellaneous -Operating Inter	ion	7.00 1.88 0.00 0.00 16.46 4.00 7.47 11.47 0.00 1.00 1.48	7.00 1.88 0.00 0.00 16.46 4.00 7.47 11.47 0.00 1.00 1.48	
SUM OF LISTED DIF		====== 50.76	=======================================	
INDIRECT (FIXED) C -Misc. Overhead -Machinery Dep -Machinery Inve -Land Taxes -Land Investme	COSTS d preciation estment	4.32 14.32 9.36 9.70 39.83	3.28 xxxxxx 22.76 9.70 23.13	
SUM OF LISTED INE	DIRECT COSTS	77.52	58.87	
SUM OF ALL LISTED) COSTS	128.28	109.63	
RETURN TO LABOR NET CASH FLOW		xxxxxx	xxxxxx (35.39)	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	BUDGET UNIT (bu) : 0.88 1.34 2.21	0.88 1.02 1.89	

Field Peas

Market Yield Market Price*	40 \$ 3.84	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		153.60	153.60	
DIRECT COSTS -Seed** -Herbicides -Fungicides -Insecticides -Fertilizer -Crop Insurance -Fuel & Lubricatio -Repairs -Drying -Miscellaneous		17.25 14.64 0.00 0.00 3.43 8.70 6.81 11.36 0.00 2.00 1.93	17.25 14.64 0.00 0.00 3.43 8.70 6.81 11.36 0.00 2.00 1.93	
-Operating Intere				
SUM OF LISTED DIRI INDIRECT (FIXED) CO -Misc. Overhead -Machinery Depr -Machinery Inves -Land Taxes -Land Investmen	DSTS eciation stment	66.12 3.93 14.00 8.58 9.70 39.83	66.12 2.97 xxxxxx 20.96 9.70 23.13	
SUM OF LISTED IND	RECT COSTS	76.03	56.77	
SUM OF ALL LISTED	COSTS	142.15	122.88	
RETURN TO LABOR ON NET CASH FLOW	& MANAGEMEN	NT 11.45 xxxxxx	xxxxxx 30.72	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	BUDGET UNIT	(bu) : 1.65 1.90 3.55	1.65 1.42 3.07	

notes:

*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.

Buckwheat

Market Yield Market Price	1000 \$ 0.105	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		105.00	105.00	
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides -Fertilizer -Crop Insuranc -Fuel & Lubrica -Repairs -Drying -Miscellaneous -Operating Inte	ation	14.00 0.00 0.00 6.07 0.00 6.13 9.82 0.00 1.00 1.11	14.00 0.00 0.00 6.07 0.00 6.13 9.82 0.00 1.00 1.11	
SUM OF LISTED DI		======= 38.14	======= 38.14	
INDIRECT (FIXED) -Misc. Overhea -Machinery De -Machinery Inv -Land Taxes -Land Investme	ad preciation estment	3.39 11.72 7.32 9.70 39.83	2.58 xxxxxx 17.79 9.70 23.13	
SUM OF LISTED IN	DIRECT COSTS	====== 71.97	======= 53.20	
SUM OF ALL LISTE	D COSTS	110.10	91.34	
RETURN TO LABOF NET CASH FLOW	R & MANAGEMEN	T (5.10) xxxxxx	xxxxxx 13.66	
LISTED COSTS PEI -Direct Costs -Indirect Costs -Total Costs	R BUDGET UNIT (lb) : 0.04 0.07 0.11	0.04 0.05 0.09	

Yellow Mustard

Market Yield Market Price	1000 \$ 0.144	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		144.00	144.00	
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides -Fertilizer -Crop Insuran -Fuel & Lubric -Repairs -Drying -Miscellaneour -Operating Int	ation s	$10.20 \\ 5.95 \\ 0.00 \\ 0.00 \\ 13.25 \\ 0.00 \\ 6.05 \\ 9.73 \\ 0.00 \\ 1.00 \\ 1.39$	$\begin{array}{c} 10.20 \\ 5.95 \\ 0.00 \\ 0.00 \\ 13.25 \\ 0.00 \\ 6.05 \\ 9.73 \\ 0.00 \\ 1.00 \\ 1.39 \end{array}$	
SUM OF LISTED D		47.57	47.57	
INDIRECT (FIXED) -Misc. Overhe -Machinery De -Machinery In -Land Taxes -Land Investm	ad epreciation vestment	3.31 11.54 7.19 9.70 39.83	2.51 xxxxxx 17.44 9.70 23.13	
SUM OF LISTED IN	NDIRECT COSTS	====== 71.57	======= 52.79	
SUM OF ALL LISTE	ED COSTS	119.14	100.35	
RETURN TO LABO NET CASH FLOW	R & MANAGEMEN	C 24.86	xxxxxx 43.65	
LISTED COSTS PE -Direct Costs -Indirect Costs -Total Costs	,	b) : 0.05 0.07 0.12	0.05 0.05 0.10	

Alfalfa (establishment year)

Market Yield Market Price	1.5 \$ 55.00	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		82.50	82.50	
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides -Fertilizer -Crop Insuranc -Fuel & Lubrica -Repairs -Drying -Miscellaneous -Operating Inte	tion	31.50 16.95 0.00 2.49 0.00 8.52 18.68 0.00 2.60 2.42	31.50 16.95 0.00 0.00 2.49 0.00 8.52 18.68 0.00 2.60 2.42	
SUM OF LISTED DI		====== 83.16	======= 83.16	
INDIRECT (FIXED) -Misc. Overhea -Machinery Dep -Machinery Invo -Land Taxes -Land Investme	d preciation estment	5.87 17.91 14.24 9.70 39.83	4.29 xxxxxx 35.17 9.70 23.13	
SUM OF LISTED IN	DIRECT COSTS	======= 87.56	======= 72.29	
SUM OF ALL LISTE	D COSTS	170.72	155.45	
RETURN TO LABOR NET CASH FLOW	8 & MANAGEMEN	T (88.22) xxxxxx	xxxxxx (72.95)	
LISTED COSTS PEF -Direct Costs -Indirect Costs -Total Costs	R BUDGET UNIT (ton) : 55.44 58.37 113.81	55.44 48.19 103.63	

Alfalfa (established)

Market Yield Market Price	2.4 \$ 55.00	Profitability Per Acre	Cash Flow Per Acre	Your Figures
MARKET INCOME		132.00	132.00	
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides -Fertilizer -Crop Insuranc -Fuel & Lubrica -Repairs -Drying -Miscellaneous -Operating Inte	ation	0.00 0.00 0.00 3.99 0.00 7.29 14.98 0.00 3.50 0.89	0.00 0.00 0.00 3.99 0.00 7.29 14.98 0.00 3.50 0.89	
SUM OF LISTED DI		======= 30.65	======= 30.65	
INDIRECT (FIXED) -Misc. Overhea -Machinery De -Machinery Inv -Land Taxes -Land Investme	ld preciation estment	5.66 15.86 12.33 9.70 39.83	4.29 xxxxxx 31.21 9.70 23.13	
SUM OF LISTED IN	DIRECT COSTS	====== 83.38	======= 68.33	
SUM OF ALL LISTE	D COSTS	114.02	98.98	
RETURN TO LABOF NET CASH FLOW	R & MANAGEMEN	T 17.98 xxxxxx	xxxxxx 33.02	
LISTED COSTS PER -Direct Costs -Indirect Costs -Total Costs	R BUDGET UNIT (ton) : 12.77 34.74 47.51	12.77 28.47 41.24	

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
Grain Drill 30 ft	41600	1400 ac	12	19593	1.31/ac	0.98/ac	2.13/ac	11.5
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	400 ac	20	1436	1.55/ac	0.86/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	