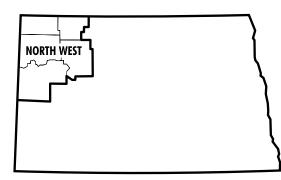


December 2012

Projected 2013 Crop Budgets



North West North Dakota

Andrew Swenson, Farm Management Specialist **Ron Haugen**, Farm Management Specialist

The 2013 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!

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 budget can be changed to conform to the more common definition of accounting profit (return to unpaid labor and management, and owner equity) by

NDSU EXTENSION SERVICE

replacing the machinery investment and land charge cost items with your per acre interest and rental expense of machinery and land, and real estate tax if land is owned.

The 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 charge are best estimates for only the 2013 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.

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 budget can be used to estimate cashflow by making a few modifications. Machinery depreciation should be omitted and the machinery investment number replaced with your per acre principal and interest payment on machinery debt. For owned land, the land charge should be replaced with your per acre real estate tax and principal and interest payment on land debt.

Currently, a Farm Bill has not been authorized. **Direct and counter-cyclical payments** have been omitted from the budgets because those payments are tied to historic farm program base acres and payment yields, not to current crop selection or production. Direct payments for this region have been \$7.50 per acre when averaged over all crop acreage. No payments from counter-cyclical type programs are expected with the price levels used in the budgets.

Primary Assumptions:

Crops are planted on dryland recrop ground. Costs of moving crop to local market/storage are included.

The budgets for the South West, North West, South Central and North Central regions typically represent production systems where soil disturbance only occurs at seeding.

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 2005-2011, after the low and high yield years are removed. Yields for safflower, yellow mustard, buckwheat, millet, rye and chickpeas are from NDSU extension agronomists and industry sources.

Fertilizer: Cost of fertilizer applied, based on soil test, to meet yield goal of 130% of market yield. N fertilizer can be reduced if previous crop was soybean, dry bean, field peas or lentil.

Soil test - recrop: Nitrogen - 33 lb

Phosphorus - 6 ppm Potassium - 328 ppm

Fertilizer prices:

Nitrogen - .58/lb Phosphorus - .52/lb Potassium - .48/lb

Seed Prices:

Spring Wheat 13.20/bu
Durum 12.25/bu
Barley 11.00/bu

Corn grain RR 2.60/thou.kern.
Oil Sunflower 1.38/thou.kern.

Canola 9.40/lb Flax 18.00/bu Field Peas 14.50/bu Oats 6.50/bu Lentils .35/lb 1.70/lb Mustard Safflower .55/lb Buckwheat .67/lb Millet .55/lb Small Chickpeas .60/lb Winter Wheat 11.25/bu Rye 9.50/bu

Fuel prices:

Diesel 3.40/gal Gas 3.20/gal

Lubrication charge: 15% of fuel cost

Crop Insurance: Coverage levels are 70% on all insurable crops. Yield Protection or APH insurance estimates are used, except for Revenue Protection on all wheat, barley, soybeans, corn, canola and sunflowers.

Miscellaneous: soil testing, machinery rent and custom work.

Operating Interest: Direct costs charged 4.60% interest for 6 month period.

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, \$3 per acre is assumed for general farm utilities, farm publications, meetings, dues, income tax preparation, legal fees, etc.

Land charge = average cash rent.

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)

Spring Wheat

Durum

		Your		Your
	Per Acre	Figures	Per Acre	Figures
Market Yield	29		30	
Market Price	8.63		8.89*	
MARKET INCOME	250.27		266.70	
DIRECT COSTS				
-Seed	16.50		18.38	
-Herbicides	23.50		23.50	
-Fungicides**	5.50		5.50	
-Insecticides***	0.00		0.00	
-Fertilizer	48.64		50.98	
-Crop Insurance	15.10		16.50	
-Fuel & Lubrication	13.13		13.18	
-Repairs	14.46		14.48	
-Drying	0.00		0.00	
-Miscellaneous	7.00		7.00	
-Operating Interest	3.31		3.44	
	======	========	=======	=========
SUM OF LISTED DIRECT COSTS	147.14		152.96	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	6.09		6.10	
-Machinery Depreciation	17.02		17.06	
-Machinery Investment	9.36		9.37	
-Land Charge	36.80		36.80	
	======		======	
SUM OF LISTED INDIRECT COSTS	69.26		69.33	
SUM OF ALL LISTED COSTS	216.41		222.29	
RETURN TO LABOR & MANAGEMENT	33.86		44.41	
LISTED COSTS PER BUDGET UNIT	(bu):		(bu):	
-Direct Costs	5.07		5 .10	
-Indirect Costs	2.39		2.31	
-Total Costs	7.46		7.41	

Wheat notes:

^{*}Durum price is for milling quality. There is risk of lower quality and price.

^{**}Includes seed treatment (\$1.50-\$2.00) and early season foliar fungicide (\$2-\$4.50). Although late season fungicides are often not warranted in this region, prothioconazole or metconazole containing products are highly recommended for fusarium head blight (scab) control when conditions are favorable for infection.

^{***}Wheat midge insecticide would cost about \$6. Cereal grain aphid insecticide would cost about \$6.

Malting Barley Corn Grain

	Per Acre	Your Figures	Per Acre	Your Figures
MadadYald	50		00	
Market Yield	52		80	
Market Price	6.81*		5.98	
MARKET INCOME	354.12		478.40	
DIRECT COSTS				
-Seed	13.75		52.00*	
-Herbicides	22.00		17.50	
-Fungicides	5.50**		0.00	
-Insecticides	0.00		0.00	
-Fertilizer	56.72		76.82	
-Crop Insurance	16.40		40.00**	
-Fuel & Lubrication	16.29		16.27	
-Repairs	16.41		16.27	
-Drying	0.00		16.00	
-Miscellaneous	7.00		7.00	
-Operating Interest	3.54		5.56	
· · · · ·	======		=======	========
SUM OF LISTED DIRECT COSTS	157.62		247.42	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	6.94		7.67	
-Machinery Depreciation	20.10		24.25	
-Machinery Investment	11.46		13.16	
-Land Charge	36.80		36.80	
Land Charge	=======		=======	
SUM OF LISTED INDIRECT COSTS	75.29		81.88	
SUM OF ALL LISTED COSTS	232.91		329.31	
RETURN TO LABOR & MANAGEMENT	121.21		149.09	
LISTED COSTS PER BUDGET UNIT	(bu):		(bu):	
-Direct Costs	3.03		3.09	
-Indirect Costs	1.45		1.02	
-Total Costs	4.48		4.12	
10ta 100to	т.то		7.12	-

Barley notes

Corn notes:

^{*}On average, about 30% of production is feed quality. Use \$5.05 estimate for feed barley price.

^{**}Includes seed treatment (\$1.50-\$2.00) and early season foliar fungicide (\$2-\$4.50).

^{*}Roundup (glyphosate) resistant corn. Cost includes insecticide seed treatment for wireworm, rootworm, white grub and suppression of cutworm.

^{**}Crop insurance only available by written agreement.

Oil Sunflower

Canola

Market Yield 1370 1360 Market Price 0.235 0.241 MARKET INCOME 321.95 327.76 DIRECT COSTS -Seed 32.43* 47.00* -Herbicides 31.40 19.00 -Fungicides 0.00** 0.00 -Insecticides 7.00*** 0.00 -Insecticides 7.00*** 0.00 -Fertilizer 45.57 78.48 -Crop Insurance 18.40 11.00 -Fuel & Lubrication 14.29 14.95 -Repairs 15.54 15.90 -Drying 2.74 0.00 -Miscellaneous 14.50 7.00 -Operating Interest 4.18 4.45 SUM OF LISTED DIRECT COSTS 186.05 197.77 INDIRECT (FIXED) COSTS -Misc. Overhead 6.68 6.54 -Machinery Depreciation 19.44 19.16 -Machinery Investment 10.88 10.98 -Land Charge 36.80		Per Acre	Your Figures	Per Acre	Your Figures
Market Price 0.235 0.241 MARKET INCOME 321.95 327.76 DIRECT COSTS	Market Vield	1370		1360	
DIRECT COSTS Seed 32.43* 47.00*					
-Seed	MARKET INCOME	321.95		327.76	
-Seed	DIRECT COSTS				
-Fungicides 0.00** 0.00 -Insecticides 7.00*** 0.00 -Fertilizer 45.57 78.48 -Crop Insurance 18.40 11.00 -Fuel & Lubrication 14.29 14.95 -Repairs 15.54 15.90 -Drying 2.74 0.00 -Miscellaneous 14.50 7.00 -Operating Interest 4.18 4.45 SUM OF LISTED DIRECT COSTS 186.05 197.77 INDIRECT (FIXED) COSTS -Misc. Overhead 6.68 6.54 -Machinery Depreciation 19.44 19.16 -Machinery Investment 10.88 10.98 -Land Charge 36.80 36.80 SUM OF ALL LISTED COSTS 259.84 271.26 RETURN TO LABOR & MANAGEMENT 62.11 56.50 LISTED COSTS PER BUDGET UNIT (lb): (lb): -Direct Costs 0.14 0.15 -Indirect Costs 0.05 0.05		32.43*		47.00*	
-Insecticides 7.00*** 0.00 -Fertilizer 45.57 78.48 -Crop Insurance 18.40 11.00 -Fuel & Lubrication 14.29 14.95 -Repairs 15.54 15.90 -Drying 2.74 0.00 -Miscellaneous 14.50 7.00 -Operating Interest 4.18 4.45	-Herbicides	31.40		19.00	
-Fertilizer	-Fungicides	0.00**		0.00	
-Crop Insurance		7.00***		0.00	
-Fuel & Lubrication 14.29 14.95 -Repairs 15.54 15.90 -Drying 2.74 0.00 -Miscellaneous 14.50 7.00 -Operating Interest 4.18 4.45 SUM OF LISTED DIRECT COSTS 186.05 197.77 INDIRECT (FIXED) COSTS -Misc. Overhead 6.68 6.54 -Machinery Depreciation 19.44 19.16 -Machinery Investment 10.88 10.98 -Land Charge 36.80 36.80 SUM OF LISTED INDIRECT COSTS 73.79 73.49 SUM OF ALL LISTED COSTS 259.84 271.26 RETURN TO LABOR & MANAGEMENT 62.11 56.50 LISTED COSTS PER BUDGET UNIT (lb): (lb): -Direct Costs 0.14 0.15 -Indirect Costs 0.05 0.05	-Fertilizer	45.57		78.48	
-Fuel & Lubrication 14.29 14.95 -Repairs 15.54 15.90 -Drying 2.74 0.00 -Miscellaneous 14.50 7.00 -Operating Interest 4.18 4.45 SUM OF LISTED DIRECT COSTS 186.05 197.77 INDIRECT (FIXED) COSTS -Misc. Overhead 6.68 6.54 -Machinery Depreciation 19.44 19.16 -Machinery Investment 10.88 10.98 -Land Charge 36.80 36.80 SUM OF LISTED INDIRECT COSTS 73.79 73.49 SUM OF ALL LISTED COSTS 259.84 271.26 RETURN TO LABOR & MANAGEMENT 62.11 56.50 LISTED COSTS PER BUDGET UNIT (lb): (lb): -Direct Costs 0.14 0.15 -Indirect Costs 0.05 0.05	-Crop Insurance	18.40		11.00	
-Drying 2.74 0.00 -Miscellaneous 14.50 7.00 -Operating Interest 4.18 4.45 SUM OF LISTED DIRECT COSTS 186.05 197.77 INDIRECT (FIXED) COSTS -Misc. Overhead 6.68 6.54 -Machinery Depreciation 19.44 19.16 -Machinery Investment 10.88 10.98 -Land Charge 36.80 36.80 SUM OF LISTED INDIRECT COSTS 73.79 73.49 SUM OF ALL LISTED COSTS 259.84 271.26 RETURN TO LABOR & MANAGEMENT 62.11 56.50 LISTED COSTS PER BUDGET UNIT (lb): (lb): -Direct Costs 0.14 0.15 -Indirect Costs 0.05		14.29		14.95	
-Miscellaneous 14.50 7.00 -Operating Interest 4.18 4.45 SUM OF LISTED DIRECT COSTS 186.05 197.77 INDIRECT (FIXED) COSTS -Misc. Overhead 6.68 6.54 -Machinery Depreciation 19.44 19.16 -Machinery Investment 10.88 10.98 -Land Charge 36.80 36.80 SUM OF LISTED INDIRECT COSTS 73.79 73.49 SUM OF ALL LISTED COSTS 259.84 271.26 RETURN TO LABOR & MANAGEMENT 62.11 56.50 LISTED COSTS PER BUDGET UNIT (lb): -Direct Costs 0.14 0.15 -Indirect Costs 0.05 0.05	-Repairs	15.54		15.90	
-Operating Interest 4.18 4.45	-Drying	2.74		0.00	
SUM OF LISTED DIRECT COSTS 186.05 197.77 INDIRECT (FIXED) COSTS 6.68 6.54 -Misc. Overhead 6.68 6.54 -Machinery Depreciation 19.44 19.16 -Machinery Investment 10.88 10.98 -Land Charge 36.80 36.80 SUM OF LISTED INDIRECT COSTS 73.79 73.49 SUM OF ALL LISTED COSTS 259.84 271.26 RETURN TO LABOR & MANAGEMENT 62.11 56.50 LISTED COSTS PER BUDGET UNIT (lb): (lb): -Direct Costs 0.14 0.15 -Indirect Costs 0.05 0.05	-Miscellaneous	14.50		7.00	
SUM OF LISTED DIRECT COSTS 186.05 197.77 INDIRECT (FIXED) COSTS 6.68 6.54 -Misc. Overhead 6.68 6.54 -Machinery Depreciation 19.44 19.16 -Machinery Investment 10.88 10.98 -Land Charge 36.80 36.80 SUM OF LISTED INDIRECT COSTS 73.79 73.49 SUM OF ALL LISTED COSTS 259.84 271.26 RETURN TO LABOR & MANAGEMENT 62.11 56.50 LISTED COSTS PER BUDGET UNIT (lb): (lb): -Direct Costs 0.14 0.15 -Indirect Costs 0.05 0.05	-Operating Interest	4.18		4.45	
INDIRECT (FIXED) COSTS -Misc. Overhead 6.68 6.54 -Machinery Depreciation 19.44 19.16 -Machinery Investment 10.88 10.98 -Land Charge 36.80 36.80 SUM OF LISTED INDIRECT COSTS 73.79 73.49 SUM OF ALL LISTED COSTS 259.84 271.26 RETURN TO LABOR & MANAGEMENT 62.11 56.50 LISTED COSTS PER BUDGET UNIT (lb): -Direct Costs 0.14 0.15 -Indirect Costs 0.05 0.05		=======	=========	=======	========
-Misc. Overhead 6.68 6.54 -Machinery Depreciation 19.44 19.16 -Machinery Investment 10.88 10.98 -Land Charge 36.80 36.80 SUM OF LISTED INDIRECT COSTS 73.79 73.49 SUM OF ALL LISTED COSTS 259.84 271.26 RETURN TO LABOR & MANAGEMENT 62.11 56.50 LISTED COSTS PER BUDGET UNIT (lb): (lb): -Direct Costs 0.14 0.15 -Indirect Costs 0.05 0.05	SUM OF LISTED DIRECT COSTS	186.05		197.77	
-Misc. Overhead 6.68 6.54 -Machinery Depreciation 19.44 19.16 -Machinery Investment 10.88 10.98 -Land Charge 36.80 36.80 SUM OF LISTED INDIRECT COSTS 73.79 73.49 SUM OF ALL LISTED COSTS 259.84 271.26 RETURN TO LABOR & MANAGEMENT 62.11 56.50 LISTED COSTS PER BUDGET UNIT (lb): (lb): -Direct Costs 0.14 0.15 -Indirect Costs 0.05 0.05	INDIRECT (FIXED) COSTS				
-Machinery Depreciation 19.44 19.16 10.98		6.68		6.54	
-Machinery Investment 10.88					
-Land Charge 36.80 36.80 36.80 36.80 36.80 SUM OF LISTED INDIRECT COSTS 73.79 73.49 SUM OF ALL LISTED COSTS 259.84 271.26 SUM OF ALL LISTED COSTS 259.84 Service (Ib): 1.25 COSTS PER BUDGET UNIT 1.25 COSTS PER B					
SUM OF LISTED INDIRECT COSTS 73.79 73.49 SUM OF ALL LISTED COSTS 259.84 271.26 RETURN TO LABOR & MANAGEMENT 62.11 56.50 LISTED COSTS PER BUDGET UNIT -Direct Costs -Indirect Costs 0.14					
SUM OF ALL LISTED COSTS 259.84 271.26 RETURN TO LABOR & MANAGEMENT 62.11 56.50 LISTED COSTS PER BUDGET UNIT -Direct Costs -Indirect Costs 0.14			=========		========
RETURN TO LABOR & MANAGEMENT 62.11 56.50 LISTED COSTS PER BUDGET UNIT (lb): (lb): -Direct Costs 0.14 0.15 -Indirect Costs 0.05 0.05	SUM OF LISTED INDIRECT COSTS	73.79		73.49	
LISTED COSTS PER BUDGET UNIT (lb): (lb): -Direct Costs 0.14 0.15	SUM OF ALL LISTED COSTS	259.84		271.26	
-Direct Costs 0.14 0.15 -Indirect Costs 0.05 0.05	RETURN TO LABOR & MANAGEMENT	62.11		56.50	
-Direct Costs 0.14 0.15 -Indirect Costs 0.05 0.05	LISTED COSTS PER BUDGET UNIT	(lb):		(lb):	
-Indirect Costs 0.05 0.05				` '	
		0.05		0.05	
10101 00010 0.10 0.20	-Total Costs	0.19		0.20	

Oil Sunflower notes:

Canola notes:

^{*}Cost includes seed treatment for control of wireworm and flea beetle.

^{**}Fungicide for rust would cost \$4 plus application.

^{***}One spraying for head feeding insects (red seed weevil, lygus bug and banded moths). Custom application cost of \$7.50 is under "Miscellaneous." Insecticide treatment for cutworms would cost about \$5 plus application (usually tank mixed with herbicide).

^{*}Cost includes insecticide seed treatment for flea beetles.

Flax

Field Peas

	Per Acre	Your Figures	Per Acre	Your Figures
	1 CI ACIC	r igures	I CI ACIC	i iguics
Market Yield	18		30	
Market Price	12.99		8.52*	
MARKET INCOME	233.82		255.60	
DIDECT COCTO				
DIRECT COSTS -Seed	10.00		40 E0**	
-Seed -Herbicides	10.80 27.50		43.50**	
			30.50	
-Fungicides	0.00		1.50	
-Insecticides	0.00		0.00***	
-Fertilizer	30.48		12.78	
-Crop Insurance	11.10		10.60	
-Fuel & Lubrication	13.60		15.98	
-Repairs	15.36		17.10	
-Drying	0.00	·	0.00	
-Miscellaneous	1.50		9.25	
-Operating Interest	2.54		3.25	
	======	=========	=======================================	
SUM OF LISTED DIRECT COSTS	112.88		144.46	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	6.22		6.69	
	17.64		20.73	
-Machinery Depreciation				
-Machinery Investment	10.15	·	11.32	
-Land Charge	36.80		36.80	
OUR OF LIGHTER INDIDECT COOTS	=======	=========	=======================================	
SUM OF LISTED INDIRECT COSTS	70.82		75.54	
SUM OF ALL LISTED COSTS	183.70		219.99	
RETURN TO LABOR & MANAGEMENT	50.12		35.61	
LISTED COSTS PER BUDGET UNIT	(bu):		(bu):	
-Direct Costs	6.27		4.81	
-Indirect Costs	3.93		2.52	
-Total Costs	10.21		7.33	
10101 00010			7.00	

Field Pea notes:

^{*}Yellow pea food quality price. Use \$10 for green pea food quality and about \$6.50 for feed quality peas.

^{**}Yellow pea seed cost, use \$54 per acre for green peas.

^{***}Insecticide treatment for cutworms and/or pea aphids would cost about \$5 per acre plus application.

Oats

Lentils

	Per Acre	Your Figures	Per Acre	Your Figures
	rei Acie	rigules	rei Acie	rigules
Market Yield	54		1270	
Market Price	3.42		0.20	
MARKET INCOME	184.68		254.00	
DIRECT COSTS				
-Seed	13.00		24.50	
-Herbicides	8.50		35.00*	
-Fungicides	0.00		0.00**	
-Insecticides	0.00		0.00***	
-Fertilizer	48.32		9.01	
-Crop Insurance	11.10		14.10	
-Fuel & Lubrication	16.40		16.02	
-Repairs	16.45		17.68	
-Drying	0.00		0.00	
-Miscellaneous	7.00		9.25	
-Operating Interest	2.78		2.89	= <u></u> -
	======	========	======	
SUM OF LISTED DIRECT COSTS	123.54		128.45	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	6.97		6.69	
-Machinery Depreciation	20.17		21.03	
-Machinery Investment	11.49		11.62	
-Land Charge	36.80		36.80	
	======	=========	======	========
SUM OF LISTED INDIRECT COSTS	75.43		76.15	
SUM OF ALL LISTED COSTS	198.97		204.60	
RETURN TO LABOR & MANAGEMENT	(14.29)		49.40	
LISTED COSTS PER BUDGET UNIT	(bu):		(lb):	
-Direct Costs	2.29		0.10	
-Indirect Costs	1.40		0.06	
-Total Costs	3.68		0.16	

Lentil notes:

^{*}Includes pre-harvest dessicant.

^{**}Fungicide treatment for ascochyta/anthracnose would cost about \$16 plus application.
***Insecticide treatment for cutworms would cost about \$5 per acre plus application.

Yellow Mustard Safflower

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	900		1050	
Market Price	0.398		0.29	
MARKET INCOME	358.20		304.50	
DIRECT COSTS				
-Seed	17.00		11.00	
-Herbicides	18.50		20.00	
-Fungicides	0.00		18.00*	
-Insecticides	0.00		0.00	
-Fertilizer	38.84		32.37	
-Crop Insurance	21.00		18.10	
-Fuel & Lubrication	15.27		13.55	
-Repairs	16.46	- 	15.18	·
-Drying	0.00		0.00	
-Miscellaneous	7.00	- 	7.00	·
-Operating Interest	3.08		3.11	
	=======	========	=======	=========
SUM OF LISTED DIRECT COSTS	137.15		138.31	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	6.63		6.20	
-Machinery Depreciation	19.53		17.59	
-Machinery Investment	11.58		9.79	
-Land Charge	36.80		36.80	
OUM OF LIGHTED INDIDEOT OCCU	======= 74.54	=========	======= 70.00	========
SUM OF LISTED INDIRECT COSTS	74.54		70.38	
SUM OF ALL LISTED COSTS	211.69		208.69	
RETURN TO LABOR & MANAGEMENT	146.51		95.81	
LISTED COSTS PER BUDGET UNIT	(lb):		(lb):	
-Direct Costs	0.15		0.13	
-Indirect Costs	0.08	- 	0.07	
-Total Costs	0.24		0.20	

Safflower notes:

^{*}Fungicide for alternaria leaf spot.

Buckwheat

Millet

Market Yield 850			Your	5 .	Your
Market Price 0.281 0.185		Per Acre	Figures	Per Acre	Figures
Market Price 0.281 0.185	Market Vield	850		1300	
MARKET INCOME 238.85 240.50	Market Frice	0.201		0.100	
200.00 270.00	MARKET INCOME	238.85		240.50	
DIRECT COSTS	DIRECT COSTS				
-Seed 33.50 13.75	-Seed	33.50		13.75	
-Herbicides 16.50 8.50	-Herbicides	16.50		8.50	
-Fungicides 0.00 0.00	-Fungicides	0.00		0.00	
-Insecticides 0.00 0.00		0.00		0.00	
-Fertilizer 20.07 24.39	-Fertilizer	20.07		24.39	
-Crop Insurance 16.70* 0.00	-Crop Insurance	16.70*		0.00	
-Fuel & Lubrication 14.63 14.99		14.63		14.99	
-Repairs 15.78 15.92	-Repairs	15.78		15.92	
-Drying 0.00 0.00	-Drying	0.00		0.00	
-Miscellaneous 1.50 7.00	-Miscellaneous	1.50		7.00	
-Operating Interest 2.73 1.94	-Operating Interest	2.73		1.94	
		======	========	=======	=======================================
SUM OF LISTED DIRECT COSTS 121.42 86.49	SUM OF LISTED DIRECT COSTS	121.42		86.49	
INDIDECT (FIVED) COOTS	INDIDECT (FIVED) COOTO				
INDIRECT (FIXED) COSTS		0.44		0.55	
-Misc. Overhead 6.44 6.55		-			
-Machinery Depreciation 18.92 19.18					
-Machinery Investment 10.87 11.00					
-Land Charge 36.80 36.80	-Land Charge				
01M OF LIOTED INDIDECT 000TO 70.04	OLIM OF LIGHTED INDIDECT COOTS		========		=========
SUM OF LISTED INDIRECT COSTS 73.04 73.52	SUM OF LISTED INDIRECT COSTS	73.04		/3.52	
SUM OF ALL LISTED COSTS 194.45 160.02	SUM OF ALL LISTED COSTS	194.45		160.02	
RETURN TO LABOR & MANAGEMENT 44.40 80.48	RETURN TO LABOR & MANAGEMENT	44.40		80.48	
LISTED COSTS PER BUDGET UNIT (lb): (lb):	LISTED COSTS PER BUDGET UNIT	(lb):		(lb):	
-Direct Costs 0.14 0.07		, ,			
-Indirect Costs 0.09 0.06		0.09			
-Total Costs 0.23 0.12	-Total Costs	0.23		0.12	

Buckwheat notes: *Crop insurance is not available in most counties of the region.

Small Chickpeas* Winter Wheat

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	1400		39*	
Market Price	0.32		7.82	
MARKET INCOME	448.00		304.98	
DIRECT COSTS				
-Seed	72.00		11.25	-
-Herbicides	35.00		20.80	
-Fungicides	36.00**		9.00	-
-Insecticides	0.00		0.00	
-Fertilizer	16.09		72.01	-
-Crop Insurance	18.50		17.30	
-Fuel & Lubrication	18.46		13.41	
-Repairs	20.71		14.68	
-Drying	0.00		0.00	
-Miscellaneous	8.25		7.00	
-Operating Interest	5.18		3.81	
	======	=========	=======	=========
SUM OF LISTED DIRECT COSTS	230.19		169.26	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	7.32		6.16	
-Machinery Depreciation	25.05		17.15	
-Machinery Investment	13.65		9.27	
-Land Charge	36.80		36.80	
	=======	========	=======	=========
SUM OF LISTED INDIRECT COSTS	82.82		69.37	
SUM OF ALL LISTED COSTS	313.00		238.63	
RETURN TO LABOR & MANAGEMENT	135.00		66.35	
LISTED COSTS PER BUDGET UNIT	(lb):		(bu):	
-Direct Costs	0.16		4.34	
-Indirect Costs	0.06		1.78	
-Total Costs	0.22		6.12	

Small Chickpea notes:

Winter Wheat notes:

^{*}A kabula variety with medium size seed, about 7-8mm, which has better ascochyta resistance than large kabula's.

^{**}Two fungicide treatments for ascochyta blight. Additional treatments may be necessary.

^{*}Yield is per harvested acre. There is some risk of acreage abandonment in spring.

Rye

	Per Acre	Your Figures
Market Yield	36	
Market Price	6.66	
MARKET INCOME	239.76	
DIRECT COSTS		
-Seed	11.40	
-Herbicides	5.50	
-Fungicides	0.00	
-Insecticides	0.00	- -
-Fertilizer	65.00	
-Crop Insurance	8.40	
-Fuel & Lubrication	13.00	
-Repairs	13.85	
-Drying	0.00	
-Miscellaneous	7.00	
-Operating Interest	2.86	
	======	=========
SUM OF LISTED DIRECT COSTS	127.01	
INDIRECT (FIXED) COSTS		
-Misc. Overhead	6.05	
-Machinery Depreciation	16.65	
-Machinery Investment	9.02	
-Land Charge	36.80	
	=======	========
SUM OF LISTED INDIRECT COSTS	68.53	
SUM OF ALL LISTED COSTS	195.53	·
RETURN TO LABOR & MANAGEMENT	44.23	
LISTED COSTS PER BUDGET UNIT	(bu):	
-Direct Costs	3.53	
-Indirect Costs	1.90	-
-Total Costs	5.43	-
	J J	

notes:

2013 Machinery List

Machine	Purch. Price	Annual Use	Years to trade	Trade in	Deprec.	Invest.	Repairs	Ac/hr
FWA 120HP Tractor	122500	400hr	20	37244	10.66 /hr	8.99 /hr	11.76 /hr	
FWA 180HP Tractor	166000	500hr	15	46377	15.95 /hr	9.56 /hr	15.96 /hr	
4WD 330HP Tractor	218800	500hr	15	61022	21.04 /hr	12.59 /hr	12.00 /hr	
SP Combine (base unit)	268400	250hr	12	62943	68.49 /hr	29.82 /hr	41.08 /hr	
Tandem Truck (used)	36600	150hr	15	11700	11.07 /hr	7.25 /hr	7.33 /hr	
Semi & Trailer (used)	41000	150hr	10	11800	19.47 /hr	7.92 /hr	8.93 /hr	
Pick-up Truck	28900	300hr	10	5700	7.47 /hr	2.60 /hr	3.30 /hr	
Swather 25 ft	23100	1000ac	20	5460	0.88 /ac	0.64 /ac	0.40 /ac	12.1
Sprayer 90 ft	36600	5000ac	10	18179	0.37 /ac	0.25 /ac	0.47 /ac	42.5
Heavy Harrow 70 ft	29200	2000ac	20	17060	0.30 /ac	0.52 /ac	0.33 /ac	39.7
Air Seeder 40 ft	170400	2400ac	12	80295	3.12 /ac	2.35 /ac	5.89 /ac	17.0
Planter 12-30	63800	800ac	20	21228	2.66 /ac	2.39 /ac	3.52 /ac	10.6
Corn head	55300	800ac	12	15834	4.10 /ac	2.00 /ac	1.28 /ac	6.8
Grain head w/pu	14700	800ac	15	3064	0.97 /ac	0.50 /ac	0.28 /ac	8.5
Grain str. cut 30 ft	24500	2000ac	8	9890	0.91 /ac	0.39 /ac	0.38 /ac	10.2
Head w/sunf pans 30 ft	29500	600ac	20	3018	2.20 /ac	1.22 /ac	0.46 /ac	10.2
Rock picker	21000	50hr	20	6712	0.48 /ac	0.42 /ac	0.31 /ac	29.1
Grain auger	12000	50hr	20	700	11.30 /hr	5.72 /hr	4.50 /hr	

Example Sequence of Operations

Field operations sequence for spring wheat and durum

OP. NO.	DESCRIPTION	(FEET) WIDTH	(MPH) SPEED	(AC/HR) Fld Cap	(\$/AC) FUEL & LUBE	(\$/AC) EST. REPAIRS
1	Pick Rocks				0.71	0.72
2	Spray (burn-dowr	n) 90	6.0	42.5	0.48	0.74
3	Plant	40	5.0	17.0	3.35	6.61
4	Spray	90	6.0	42.5	0.48	0.74
5	Combine	30	4.0	10.2	4.56	4.41
	Trucks*				1.46	0.55
	Grain auger (pto)				0.23	0.09
	Pickup truck alloc	ation		_	1.86	0.59
			Total		13.13	14.46

^{*} Truck costs will vary between crops.

The NDSU Extension Service does not endorse commercial products or companies even though reference may be made to tradenames, trademarks or service names. NDSU encourages you to use and share this content, but please do so under the conditions of our Creative Commons license. You may copy, distribute, transmit and adapt this work as long as you give full attribution, don't use the work for commercial purposes and share your resulting work similarly. For more information, visit www.ag.ndsu.edu/agcomm/creative-commons.

For more information on this and other topics, see www.ag.ndsu.edu

County commissions, North Dakota State University and U.S. Department of Agriculture cooperating. North Dakota State University does not discriminate on the basis of age, color, disability, gender expression/identity, genetic information, marital status, national origin, public assistance status, race, religion, sex, sexual orientation, or status as a U.S. veteran. Direct inquiries to the Vice President for Equity, Diversity and Global Outreach, 205 Old Main, (701) 231-7708. This publication will be made available in alternative formats for people with disabilities upon request, (701) 231-7881.