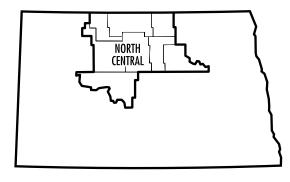


February 2025

Projected 2025 Crop Budgets



North Central North Dakota

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This region consists of eight counties: Benson, Bottineau, McHenry, McLean, Pierce, Renville, Rolette and Ward.

The 2025 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 THEIR 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 the owner equity)

by 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 2025 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.

The 2018 Farm Bill continues the Price Loss Coverage (PLC) and Agricultural Risk Coverage (ARC) support programs. PLC and ARC payments have been omitted from the budgets because those payments, if any, are tied to historic farm program base acres, not to current crop selection or production.

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 2017-2023, after the low and high yield years are removed. Yields for safflower, yellow mustard, buckwheat, millet, rye and chickpea are from NDSU Extension agronomists and industry sources.

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

Fertilizer prices:

Nitrogen - .52/lb Phosphorus - .67/lb Potassium - .42/lb

Seed Prices:

Spring Wheat 14.00/bu
Durum 16.00/bu
Barley 11.00/bu
Corn GM 3.00/thou.kern.
Soybean GM .34/thou.kern.

Dry Bean 1.05/thou.kern.
Oil Sunflower 1.71/thou.kern.
Conf. Sunflower 3.02/thou.kern.

Canola 15.80/lb Flax 20.00/bu Field Pea 20.00/bu 8.00/bu Oat Lentil .30/lb Mustard .98/lb Buckwheat .52/lb Millet .60/lb Winter Wheat 12.00/bu Rye 10.00/bu

Fuel Prices:

Diesel 2.65/gal Gasoline 2.90/gal

Lubrication Charge: 15% of fuel cost

Crop Insurance: Revenue Protection used for all wheat, barley, soybean, corn, canola, sunflower, field pea, dry bean and lentil with a 75% coverage level and enterprise units. APH insurance was used for other crops for which 70% coverage and optional units were assumed.

Miscellaneous: Soil testing, machinery rent and custom work.

Operating Interest: Direct costs charged 7.5% 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, \$5.00 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: 4.0% 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

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	51		50	
Market Price	6.20		7.20*	
MARKET REVENUE	316.20		360.00	
DIRECT COSTS				
-Seed	23.80		32.00	
-Herbicides	29.30		29.30	
-Fungicides**	10.50		18.50	
-Insecticides***	0.00		0.00	
-Fertilizer	92.21		90.13	
-Crop Insurance	6.50		8.10	
-Fuel & Lubrication	16.64		16.58	
-Repairs	24.28		24.24	
-Drying	0.00		0.00	
-Miscellaneous	2.00		2.00	
-Operating Interest	7.70		8.28	
, ,	=======		======	
SUM OF LISTED DIRECT COSTS	212.93		229.13	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	10.51		10.49	
-Machinery Depreciation	28.34	=	28.27	
-Machinery Investment	14.74		14.71	
-Land Charge	56.00		56.00	
Land Charge	=======		======	
SUM OF LISTED INDIRECT COSTS	109.59		109.47	
SUM OF ALL LISTED COSTS	322.52		338.60	
RETURN TO LABOR & MANAGEMENT	(6.32)		21.40	
LISTED COSTS PER BUDGET UNIT	(bu) :		(bu) :	
-Direct Costs	4.18		4.58	
-Indirect Costs	2.15		2.19	
-Total Costs	6.32		6.77	

Wheat notes:

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

^{**}Includes seed treatment, an early season foliar fungicide, and a late season fungicide. Prothioconazole, metconazole or pydiflumetofen containing products are highly recommended when conditions are favorable for fusarium head blight (scab).

^{***}Cereal grain aphid insecticide would cost about \$4. Wheat midge insecticide would cost about \$6.

Malting Barley Corn Grain

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	75		107	
Market Price	4.96*		4.00	
MARKET REVENUE	372.00		428.00	
DIRECT COSTS				
-Seed	17.60		87.00*	
-Herbicides	27.90		31.60	
-Fungicides	18.50**		0.00	
-Insecticides	0.00		0.00	
-Fertilizer	83.79		101.13	
-Crop Insurance	5.00		9.50	
-Fuel & Lubrication	17.94		23.82	
-Repairs	24.86		30.33	
-Drying	0.00		21.40	
-Miscellaneous	2.00		2.00	
-Operating Interest	7.41		11.50	
	=======	========	=======	========
SUM OF LISTED DIRECT COSTS	205.00		318.28	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	10.96		13.57	
-Machinery Depreciation	29.83		45.49	
-Machinery Investment	15.33		22.28	
-Land Charge	56.00		56.00	
3	=======		======	
SUM OF LISTED INDIRECT COSTS	112.12		137.34	
SUM OF ALL LISTED COSTS	317.12		455.62	
RETURN TO LABOR & MANAGEMENT	54.88		(27.62)	
LISTED COSTS PER BUDGET UNIT	(bu) :		(bu):	
-Direct Costs	2.73		2.97	
-Indirect Costs	1.49		1.28	
-Total Costs	4.23		4.26	
	_		-	

Barley notes:

Corn notes:

*GM corn with herbicide tolerance and above ground insect control traits.

^{*}There is risk of not making malting barley quality. Use \$3.25 for feed barley.

^{**}Includes seed treatment, an early season foliar fungicide, and a late season fungicide fungicide recommended when conditions are favorable for fusarium head blight (scab).

Soybean

Drybean

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	31		1580	
Market Price	9.35		0.27	
MARKET REVENUE	289.85		426.60	
DIRECT COSTS				
-Seed	65.80*		86.63	
-Herbicides	27.20		54.70*	
-Fungicides	0.00		20.00**	
-Insecticides	0.00**		0.00	
-Fertilizer	11.16		47.63	
-Crop Insurance	4.80		13.50	
-Fuel & Lubrication	4.80 12.87		18.23	
-Repairs	20.26		26.45	
·	0.00		0.00	
-Drying -Miscellaneous	5.50		15.50	
-Operating Interest	5.53		10.60	
SUM OF LISTED DIRECT COSTS	153.12		====== 293.24	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	9.47		10.94	
-Machinery Depreciation	25.25		33.00	
-Machinery Investment	12.29		16.79	
-Land Charge	56.00		56.00	
Land Onlings	=======		======	
SUM OF LISTED INDIRECT COSTS	103.01		116.73	
SUM OF ALL LISTED COSTS	256.13		409.97	
RETURN TO LABOR & MANAGEMENT	33.72		16.63	
LISTED COSTS PER BUDGET UNIT	(bu) :		(lb):	
-Direct Costs	4.94		0.186	
-Indirect Costs	3.32		0.074	
-Total Costs	8.26		0.259	

Soybean notes:

Drybean notes:

^{*}GM soybeans with herbicide tolerance. The cost includes \$8 for inculant and fungicide treatment in addition to seed expense.

^{**}Insecticide for soybean aphid, spider mite, or foliage-feeding caterpillars would cost about \$4 per acre plus application.

^{*}Includes dessicant prior to straight cutting.

^{**}Fungicide for white mold. Fungicide for rust at \$4-\$12 plus application maybe necessary.

Oil Sunflower

Confectionery Sunflower

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	1850		1620	
Market Price	0.199		0.279	
MARKET REVENUE	368.15		451.98	
DIRECT COSTS				
-Seed	35.91		54.36	
-Herbicides	37.20		40.20	
-Fungicides	0.00*		0.00*	
-Insecticides	5.00**		10.00**	
-Fertilizer	64.11		54.46	
-Crop Insurance	9.00		14.00	
-Fuel & Lubrication	17.81		17.38	
-Repairs	24.23		23.99	
-Drying	7.40		6.48	
-Miscellaneous	12.00		22.00	
-Operating Interest	7.97		9.11	
1 3	=======		=======	
SUM OF LISTED DIRECT COSTS	220.63		251.98	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	11.16		11.01	
-Machinery Depreciation	31.05		30.54	
-Machinery Investment	16.46		16.25	
-Land Charge	56.00		56.00	
	=======	========	======	=========
SUM OF LISTED INDIRECT COSTS	114.67		113.80	
SUM OF ALL LISTED COSTS	335.30		365.78	
RETURN TO LABOR & MANAGEMENT	32.85		86.20	
LISTED COSTS PER BUDGET UNIT	(lb):		(lb):	
-Direct Costs	0.119		0.156	
-Indirect Costs	0.062		0.070	
-Total Costs	0.181		0.226	

Oil Sunflower notes:

Confection Sunflower notes:

^{*}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 \$8 is under "Miscellaneous." Foliar applied insecticide for cutworms would cost about \$5 per acre plus application (usually tank mixed with herbicide).

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

^{**}Two sprayings for head feeding insects (red seed weevil, lygus bug and banded moths) at about \$5 per application. Each custom application cost of \$8 is under "Miscellaneous." Foliar applied insecticide for cutworms would cost about \$5 per acre plus application (usually tank mixed with herbicide).

Canola

Flax

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	1900		19	
Market Price	0.194		10.95	
MARKET REVENUE	368.6		208.05	-
DIRECT COSTS				
-Seed	79.00		18.00	
-Herbicides	15.60		33.60	
-Fungicides	0.00*		0.00*	
-Insecticides	0.00		0.00	
-Fertilizer	109.23		32.85	
-Crop Insurance	8.00		11.00	
-Fuel & Lubrication	15.77		15.70	
-Repairs	23.20		24.16	
-Drying	0.00		0.00	
-Miscellaneous	2.00		2.00	
-Operating Interest	9.48		5.15	
1 3	=======		=======	
SUM OF LISTED DIRECT COSTS	262.28		142.46	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	10.08		10.14	
-Machinery Depreciation	28.23		28.41	
-Machinery Investment	13.93		14.64	
-Land Charge	56.00		56.00	
Zana Sharge	=======		======	
SUM OF LISTED INDIRECT COSTS	108.24		109.19	
COM OF LIGHED INDIVIDUAL COOLS	100.21		100.10	
SUM OF ALL LISTED COSTS	370.52		251.65	
SOM ST ALL LISTED SOCIO	070.02		201.00	
RETURN TO LABOR & MANAGEMENT	(1.92)		(43.60)	
TIETOTIK TO EXBOTT & WAR TO LEWELT	(1.02)		(10.00)	
LISTED COSTS PER BUDGET UNIT	(lb):		(bu):	
-Direct Costs	0.138		7.50	
-Indirect Costs	0.057		5.75	
-Total Costs	0.195		13.24	
Total Oosis	0.193		10.27	

Canola notes:

^{*}Fungicide for white mold would cost about \$18 plus application.

Field Pea

Oat

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	34.0813		88	
Market Price	8.00		2.49	
MARKET REVENUE	272.65		219.12	
DIDECT COCTO				
DIRECT COSTS	00.00		10.00	
-Seed	60.00		16.00	
-Herbicides	39.70		12.30	
-Fungicides	3.00		0.00	
-Insecticides	0.00*		0.00	
-Fertilizer	14.25		84.13	
-Crop Insurance	8.50		12.20	
-Fuel & Lubrication	14.83		19.98	
-Repairs	23.10		26.17	
-Drying	0.00		0.00	
-Miscellaneous	10.00		2.00	
-Operating Interest	6.50		6.48	
	=======	========	=======	========
SUM OF LISTED DIRECT COSTS	179.88		179.26	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	9.99		11.72	
-Machinery Depreciation	28.40		32.70	
-Machinery Investment	13.71		17.18	
-Land Charge	56.00		56.00	
· ·	=======	=======	======	=========
SUM OF LISTED INDIRECT COSTS	108.10		117.60	
SUM OF ALL LISTED COSTS	287.98		296.86	
RETURN TO LABOR & MANAGEMENT	(15.33)		(77.74)	
	,, ,		<i>,</i> , ,	
LISTED COSTS PER BUDGET UNIT	(bu) :		(bu) :	
-Direct Costs	5.28		2.04	
-Indirect Costs	3.17		1.34	
-Total Costs	8.45		3.37	

Field Pea notes:

^{*}Foliar insecticide for cutworms and/or pea aphids would cost about \$4 per acre plus application.

Lentil **Yellow Mustard**

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	1500		850	
Market Price	0.25		0.300	
MARKET REVENUE	375.00		255.00	
DIRECT COSTS				
-Seed	21.00		13.72	
-Herbicides	39.20*		22.60	
-Fungicides	16.00**		0.00	
-Insecticides	0.00***	·	6.00*	
-Fertilizer	10.43		35.49	
-Crop Insurance	9.00		16.50**	
-Fuel & Lubrication	16.56		15.72	
-Repairs	26.62		23.76	
-Drying	0.00		0.00	
-Miscellaneous	10.00		2.00	
-Operating Interest	5.58		5.09	
a paraming american			=======	
SUM OF LISTED DIRECT COSTS	154.39		140.88	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	10.68		10.24	
-Machinery Depreciation	32.53		27.64	
-Machinery Investment	15.63		15.04	
-Land Charge	56.00		56.00	-
Land Charge			======	
SUM OF LISTED INDIRECT COSTS	114.84		108.92	
COM OF LIGHED HADIFIED FOOD TO	114.04		100.52	
SUM OF ALL LISTED COSTS	269.23		249.80	
COM OF ALL LIGITED COOLS	200.20		240.00	
RETURN TO LABOR & MANAGEMENT	105.77		5.20	
LISTED COSTS PER BUDGET UNIT	(lb):		(lb):	
-Direct Costs	0.103		0.166	
-Indirect Costs	0.077		0.128	
-Total Costs				

Lentil notes:

Yellow Mustard notes:

^{*}Includes pre-harvest dessicant.

^{**}Fungicide treatment for ascochyta/anthracnose.
***Foliar insecticide cutworms, pea aphids and/or grasshoppers would cost about \$4 per acre plus application.

^{*}Insecticide seed treatment for flea beetles.

^{**}Crop insurance is not available in some counties of the region.

Buckwheat

Millet

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	950		1300	
Market Price	0.24		0.11	
MARKET REVENUE	228.00		143.00	
DIRECT COSTS	00.00		45.00	
-Seed	26.00		15.00	
-Herbicides	20.70		11.10	
-Fungicides	0.00		0.00	
-Insecticides	0.00		0.00	
-Fertilizer	25.66		25.09	
-Crop Insurance	8.00*		0.00	
-Fuel & Lubrication	15.39		16.35	
-Repairs	22.95		24.12	
-Drying	0.00		0.00	
-Miscellaneous	2.00		2.00	
-Operating Interest	4.53		3.51	
	=======	========	=======	=========
SUM OF LISTED DIRECT COSTS	125.23		97.17	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	10.04		10.46	
-Machinery Depreciation	27.09		28.39	
-Machinery Investment	14.29		15.36	
-Land Charge	56.00		56.00	
-Land Onlarge	30.00		======	
SUM OF LISTED INDIRECT COSTS	107.42		110.21	
30W OF LISTED INDIRECT COSTS	107.42		110.21	
SUM OF ALL LISTED COSTS	232.65		207.38	
00.11.01.71.22.21.01.22.00.10	202.00		201100	
RETURN TO LABOR & MANAGEMENT	(4.65)		(64.38)	
LISTED COSTS PER BUDGET UNIT	(lb) :		(lb) :	
-Direct Costs	0.132		0.075	
-Indirect Costs	0.113		0.085	
-Total Costs	0.245		0.160	

Buckwheat notes:

^{*}Crop insurance is not available in most counties of the region.

Winter Wheat Rye

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	56*		46	
Market Price	5.41		6.01	
MARKET REVENUE	302.96		276.46	
DIRECT COSTS				
-Seed	13.20		12.00	
-Herbicides	26.80		4.00	
-Fungicides	10.00		0.00	
-Insecticides	0.00		0.00	
-Fertilizer	102.57		81.84	
-Crop Insurance	6.50		16.00	
-Fuel & Lubrication	15.59		15.09	
-Repairs	21.79		21.12	
-Drying	0.00		0.00	
-Miscellaneous	10.00		10.00	
-Operating Interest	7.74		6.00	
	======	========	======	========
SUM OF LISTED DIRECT COSTS	214.19		166.05	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	9.85		9.70	
-Machinery Depreciation	26.04		25.40	
-Machinery Investment	12.64	-	12.50	
-Land Charge	56.00		56.00	
zana onargo	=======	=========	======	=========
SUM OF LISTED INDIRECT COSTS	104.53		103.60	
SUM OF ALL LISTED COSTS	318.72		269.65	
RETURN TO LABOR & MANAGEMENT	(15.76)		6.81	
LISTED COSTS PER BUDGET UNIT	(bu) :		(bu):	
-Direct Costs	3.82		3.61	
-Indirect Costs	1.87		2.25	
-Total Costs	5.69		5.86	

Winter Wheat notes:

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

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