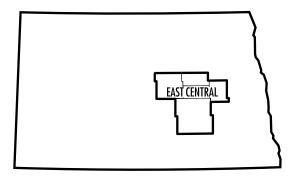


February 2025

# Projected 2025 Crop Budgets



# **East Central North Dakota**

Ron Haugen, Farm Management Specialist

Note: This region consists of five counties: Eddy, Foster, Griggs, Stutsman and Wells.

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)

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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.

**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

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.

14.00/bu

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 Mustard .98/lb Buckwheat .52/lb .60/lb Millet Winter Wheat 12.00/bu

### **Fuel Prices:**

Rye

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.

10.00/bu

**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	54		54	
Market Price	6.31		7.30*	
MARKET REVENUE	340.74		394.20	
DIRECT COSTS				
-Seed	24.50		28.00	
-Herbicides	23.90		23.90	
-Fungicides**	18.50		18.50	
-Insecticides***	0.00		0.00	
-Fertilizer	98.43		98.43	
-Crop Insurance	6.50		8.10	
-Fuel & Lubrication	18.22		18.22	
-Repairs	24.64		24.64	
-Drying	0.00		0.00	
-Miscellaneous	2.00	·	2.00	
-Operating Interest	8.13	·	8.32	
	======	========	======	=========
SUM OF LISTED DIRECT COSTS	224.82		230.11	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	10.58		10.58	
-Machinery Depreciation	28.92		28.92	
-Machinery Investment	14.85		14.85	
-Land Charge	74.00		74.00	
SUM OF LISTED INDIRECT COSTS	128.35		====== 128.35	
SUM OF ALL LISTED COSTS	353.17		358.46	
RETURN TO LABOR & MANAGEMENT	(12.43)		35.74	
LISTED COSTS PER BUDGET UNIT	(bu) :		(bu):	
-Direct Costs	4.16		4.26	
-Indirect Costs	2.38		2.38	
-Total Costs	6.54		6.64	

### Wheat notes:

<sup>\*</sup>Durum price is for milling quality. There is high risk of lower quality and lower price.

<sup>\*\*</sup>Includes seed treatment, an early season foliar fungicide, and a late season fungicide which is recommended when conditions are favorable for fusarium head blight (scab).

<sup>\*\*\*</sup>Cereal grain aphid insecticide would cost about \$4.

# Malting Barley Corn Grain

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	71		145	
Market Price	4.95*	·	4.00	
MARKET REVENUE	351.45		580.00	
DIRECT COSTS				
-Seed	19.25		94.50*	
-Herbicides	22.70		35.50	
-Fungicides	18.50**	- <u></u> -	0.00	- <del></del> -
-Insecticides	0.00		0.00	
-Fertilizer	78.60		141.84	
-Crop Insurance	4.50		10.70	
-Fuel & Lubrication	19.06		27.94	
-Repairs	24.89		33.43	
-Drying	0.00		29.00	
-Miscellaneous	2.00		2.00	
-Operating Interest	7.11		14.06	
	=======		=======	
SUM OF LISTED DIRECT COSTS	196.61		388.97	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	11.00		14.77	
-Machinery Depreciation	30.48		49.88	
-Machinery Investment	15.57		24.72	
-Land Charge	74.00		74.00	
•	=======	=========	======	
SUM OF LISTED INDIRECT COSTS	131.05		163.37	
SUM OF ALL LISTED COSTS	327.66		552.34	
RETURN TO LABOR & MANAGEMENT	23.79	= <u></u>	27.66	·
LISTED COSTS PER BUDGET UNIT	(bu) :		(bu) :	
-Direct Costs	2.77		2.68	
-Indirect Costs	1.85		1.13	
-Total Costs	4.61		3.81	

### Barley notes:

### Corn notes:

<sup>\*</sup>There is risk of not making malting barley quality. Use \$3.25 for feed barley.

<sup>\*\*</sup>Includes seed treatment, an early season foliar fungicide, and a late season fungicide which is recommended when conditions are favorable for fusarium head blight (scab).

<sup>\*</sup>GM corn with herbicide tolerance and above ground insect control traits.

# Soybean

# **Drybean**

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	35		1720	
Market Price	9.50		0.27	
MARKET REVENUE	332.50		464.40	
DIRECT COSTS				
-Seed	65.80*		86.63	
-Herbicides	35.40		54.70*	
-Fungicides	0.00		20.00**	
-Insecticides	4.00**		0.00	
-Fertilizer	12.60		58.55	
-Crop Insurance	5.10	-	10.50	
-Fuel & Lubrication	15.61		20.34	
-Repairs	23.34		28.51	
-Drying	0.00	-	0.00	
-Miscellaneous	5.50		15.50	
-Operating Interest	6.28		11.05	
operating interest	=======		=======	
SUM OF LISTED DIRECT COSTS	173.63		305.78	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	10.21		11.40	
-Machinery Depreciation	28.24		34.81	
-Machinery Investment	14.35		18.08	
-Land Charge	74.00		74.00	
-Land Charge	74.00		74.00	
SUM OF LISTED INDIRECT COSTS	126.80		138.29	
	000.40		444.07	
SUM OF ALL LISTED COSTS	300.43		444.07	
RETURN TO LABOR & MANAGEMENT	32.07		20.33	
LISTED COSTS PER BUDGET UNIT	(bu):		(lb):	
-Direct Costs	4.96		0.178	
-Indirect Costs	3.62		0.080	
-Total Costs	8.58		0.258	

### Soybean notes:

### Drybean notes:

<sup>\*</sup>GM soybeans with herbicide tolerance. The cost includes \$8 for inculant and fungicide treatment in addition to seed expense.

<sup>\*\*</sup>Insecticide for soybean aphid, spider mite or foliar-feeding caterpillars.

<sup>\*</sup>Includes dessicant prior to straight cutting.

<sup>\*\*</sup>Fungicide for white mold. A second treatment may be necessary. Fungicide for rust at \$4-\$12 plus application maybe necessary.

### Oil Sunflower

# **Confectionery Sunflower**

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	2030		1800	
Market Price	0.202		0.283	
Mariotinos	0.202		0.200	
MARKET REVENUE	410.06		509.40	
DIRECT COSTS				
-Seed	37.62		57.38	
-Herbicides	28.60		31.60	
-Fungicides	0.00*		0.00*	
-Insecticides	5.00**		10.00**	
-Fertilizer	71.67		62.01	
-Crop Insurance	10.00		15.50	
-Fuel & Lubrication	19.64		19.22	
-Repairs	25.28		25.04	
-Drying	8.12		7.20	
-Miscellaneous	12.00		22.00	
-Operating Interest	8.17		9.37	
. 3	======		=======	
SUM OF LISTED DIRECT COSTS	226.10		259.32	<del></del> -
INDIRECT (FIXED) COSTS				
-Misc. Overhead	11.55		11.40	
-Machinery Depreciation	32.47		31.95	
-Machinery Investment	17.44		17.23	
-Land Charge	74.00		74.00	
OUM OF LICTED INDIDECT COCTO	105.40	========	======	========
SUM OF LISTED INDIRECT COSTS	135.46		134.58	
SUM OF ALL LISTED COSTS	361.56		393.90	
RETURN TO LABOR & MANAGEMENT	48.50		115.50	
LISTED COSTS PER BUDGET UNIT	(lb) :		(lb):	
-Direct Costs	0.111		0.144	
-Indirect Costs	0.067		0.075	
-Total Costs	0.178		0.219	

### Oil Sunflower notes:

### Confection Sunflower notes:

<sup>\*</sup>Fungicide for rust would cost \$4 plus application.

<sup>\*\*</sup>One spraying for head feeding insects (red seed weevil, lygus bug and banded moths). Custom application cost of \$8 is under "Miscellaneous."

<sup>\*</sup>Fungicide for rust would cost \$4 plus application.

<sup>\*\*</sup>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."

# Canola

# Flax

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	1680		18	
Market Price	0.191		11.12	
MARKET REVENUE	320.88		200.16	
DIRECT COSTS				
-Seed	79.00		20.00	
-Herbicides	15.60		27.10	
-Fungicides	0.00*	·	0.00	- <u></u> -
-Insecticides	0.00		0.00	
-Fertilizer	96.55		30.41	
-Crop Insurance	8.00		12.00	
-Fuel & Lubrication	17.55		17.32	
-Repairs	24.23		25.16	
-Drying	0.00		0.00	
-Miscellaneous	2.00		2.00	
-Operating Interest	9.11		5.02	
operating interest	=======		=======	
SUM OF LISTED DIRECT COSTS	252.04		139.01	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	10.29		10.37	
-Machinery Depreciation	29.20		29.31	
-Machinery Investment	14.70		15.35	
-Land Charge	74.00		74.00	
_aaago	=======		======	
SUM OF LISTED INDIRECT COSTS	128.19		129.03	
SUM OF ALL LISTED COSTS	380.23		268.04	
RETURN TO LABOR & MANAGEMENT	(59.35)		(67.88)	
LISTED COSTS PER BUDGET UNIT	(lb) :		(bu) :	
-Direct Costs	0.150		7.72	
-Indirect Costs	0.076		7.17	
-Total Costs	0.226		14.89	

### Canola notes:

<sup>\*</sup>Fungicide for white mold would cost about \$18 plus application.

# **Field Pea**

# Oat

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	33.2500		79	
Market Price	8.00		2.46	
			-	
MARKET REVENUE	266.00		194.34	
DIRECT COSTS				
-Seed	60.00		16.00	
-Herbicides	34.90		6.20	
-Fungicides	3.00		0.00	
-Insecticides	0.00		0.00	
-Fertilizer	13.90		74.14	
-Crop Insurance	6.00		10.90	
-Fuel & Lubrication	18.18		21.30	
-Repairs	25.88		26.71	
-Drying	0.00		0.00	
-Miscellaneous	10.00		2.00	
-Operating Interest	6.44		5.90	
operating interest	=======		======	
SUM OF LISTED DIRECT COSTS	178.30		163.15	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	10.64		11.61	
-Machinery Depreciation	30.93		33.22	
-Machinery Investment	15.68		17.14	
-Land Charge	74.00		74.00	
Land Charge	======		======	
SUM OF LISTED INDIRECT COSTS	131.25		135.97	
SUM OF ALL LISTED COSTS	309.55		299.12	
RETURN TO LABOR & MANAGEMENT	(43.55)		(104.78)	
LISTED COSTS PER BUDGET UNIT	(bu) :		(bu) :	
-Direct Costs	5.36		2.07	
-Indirect Costs	3.95		1.72	
-Total Costs	9.31	·	3.79	·

### Field Pea notes:

<sup>\*</sup>Foliar insecticide for cutworms and/or pea aphids would cost about \$4 per acre plus application.

# Yellow Mustard Buckwheat

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	800		950	
Market Price	0.30		0.24	
MARKET REVENUE	240.00		228.00	
DIRECT COSTS				
-Seed	13.72		26.00	
-Herbicides	12.90		13.60	
-Fungicides	0.00	·	0.00	
-Insecticides	6.00*		0.00	
-Fertilizer	32.61		25.66	
-Crop Insurance	0.00**		9.50*	
-Fuel & Lubrication	16.72		16.98	
-Repairs	24.15		24.32	
-Drying	0.00		0.00	
-Miscellaneous	2.00		2.00	
-Operating Interest	4.05		4.43	
,	=======	========	=======	========
SUM OF LISTED DIRECT COSTS	112.15		122.49	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	10.22		10.34	
-Machinery Depreciation	28.26		28.62	
-Machinery Investment	15.04		15.18	
-Land Charge	74.00		74.00	
-	=======	========	======	========
SUM OF LISTED INDIRECT COSTS	127.52		128.14	
SUM OF ALL LISTED COSTS	239.67		250.63	
RETURN TO LABOR & MANAGEMENT	0.33		(22.63)	
LISTED COSTS PER BUDGET UNIT	(lb) :		(lb):	
-Direct Costs	0.140		0.129	
-Indirect Costs	0.159	=	0.129	
-Total Costs	0.159	=	0.133	
- 10tal 008t8	0.300		0.∠04	

### Yellow Mustard notes:

### Buckwheat notes:

<sup>\*</sup>Insecticide seed treatment for flea beetles.

<sup>\*\*</sup>Crop insurance is not available in this region.

<sup>\*</sup>Crop insurance is not available in most counties of the region.

# Millet Winter Wheat

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	1700		59*	
Market Price	0.11		5.56	
MARKET INCOME	187.00		328.04	
DIRECT COSTS	45.00		44.40	
-Seed	15.00		14.40	
-Herbicides	3.90		26.80	
-Fungicides	0.00		10.00	
-Insecticides	0.00		0.00	
-Fertilizer	36.97		108.79	
-Crop Insurance	0.00		6.50	
-Fuel & Lubrication	18.67		15.77	
-Repairs	25.22		21.89	
-Drying	0.00		0.00	
-Miscellaneous	2.00		10.00	
-Operating Interest	3.82		8.03	
Operating interest	=======		=======	
SUM OF LISTED DIRECT COSTS	105.58		222.18	
INDIDECT (FIVED) COSTS				
INDIRECT (FIXED) COSTS -Misc. Overhead	10.70		9.91	
		-		
-Machinery Depreciation	30.09		26.25	
-Machinery Investment	15.82		12.72	
-Land Charge	74.00		74.00	
OUM OF LICTED INDIDECT COCTO	=======	========	100.00	========
SUM OF LISTED INDIRECT COSTS	130.61		122.88	
SUM OF ALL LISTED COSTS	236.19		345.06	
RETURN TO LABOR &	(49.19)		(17.02)	
MANAGEMENT	. ,			
LISTED COSTS PER BUDGET UNIT	(lb):		(bu) :	
-Direct Costs	0.062		3.77	
-Indirect Costs	0.077		2.08	
-Total Costs	0.139		5.85	

### Winter Wheat notes:

<sup>\*</sup>Yield is per harvested acre. There is some risk of acreage abandonment in spring.

# Rye

	Per Acre	Your Figures
Market Yield	47	
Market Price	6.38	
MARKET REVENUE	299.86	
DIRECT COSTS		
-Seed	12.00	
-Herbicides	4.00	
-Fungicides	0.00	
-Insecticides	0.00	
-Fertilizer	83.91	
-Crop Insurance	14.00	
-Fuel & Lubrication	15.15	
-Repairs	21.15	
-Drying	0.00	
-Miscellaneous	10.00	
-Operating Interest	6.01	
	======	========
SUM OF LISTED DIRECT COSTS	166.22	- <del></del> -
INDIRECT (FIXED) COSTS		
-Misc. Overhead	9.72	
-Machinery Depreciation	25.47	
-Machinery Investment	12.53	
-Land Charge	74.00 =====	
SUM OF LISTED INDIRECT COSTS	121.72	
SUM OF ALL LISTED COSTS	287.94	
RETURN TO LABOR & MANAGEMENT	11.92	
LISTED COSTS PER BUDGET UNIT	(bu) ·	
-Direct Costs	(bu) : 3.54	
-Indirect Costs	2.59	
-Total Costs	2.59 6.13	
- 10tai C05t5	0.13	

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