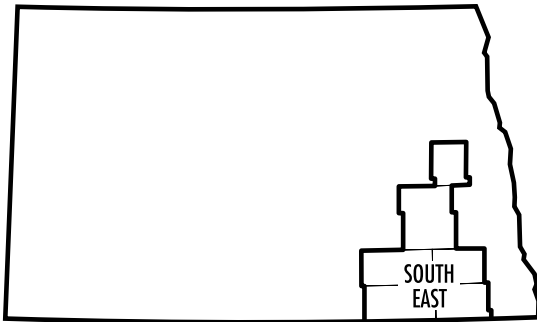




FARM MANAGEMENT PLANNING GUIDE

February 2025

Projected 2025 Crop Budgets



South East North Dakota

Ron Haugen, Farm Management Specialist

Note: This region consists of six counties:
Barnes, Dickey, LaMoure, Ransom, Sargent and Steele.

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.

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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	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
Oat	8.00/bu
Buckwheat	.52/lb
Millet	.60/lb
Winter Wheat	12.00/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	57	_____	54	_____
Market Price	6.37	_____	7.34*	_____
MARKET REVENUE	363.09	_____	396.36	_____
DIRECT COSTS				
-Seed	24.50	_____	32.00	_____
-Herbicides	21.70	_____	21.70	_____
-Fungicides**	18.50	_____	18.50	_____
-Insecticides***	0.00	_____	0.00	_____
-Fertilizer	100.85	_____	94.97	_____
-Crop Insurance	4.80	_____	6.00	_____
-Fuel & Lubrication	18.39	_____	18.22	_____
-Repairs	24.74	_____	24.64	_____
-Drying	0.00	_____	0.00	_____
-Miscellaneous	2.00	_____	2.00	_____
-Operating Interest	8.08	_____	8.18	_____
	=====	=====	=====	=====
SUM OF LISTED DIRECT COSTS	223.56	_____	226.21	_____
INDIRECT (FIXED) COSTS				
-Misc. Overhead	10.64	_____	10.58	_____
-Machinery Depreciation	29.13	_____	28.92	_____
-Machinery Investment	14.94	_____	14.85	_____
-Land Charge	106.00	_____	106.00	_____
	=====	=====	=====	=====
SUM OF LISTED INDIRECT COSTS	160.71	_____	160.35	_____
SUM OF ALL LISTED COSTS	384.27	_____	386.56	_____
RETURN TO LABOR & MANAGEMENT	(21.18)	_____	9.80	_____
LISTED COSTS PER BUDGET UNIT	(bu) :		(bu) :	
-Direct Costs	3.92	_____	4.19	_____
-Indirect Costs	2.82	_____	2.97	_____
-Total Costs	6.74	_____	7.16	_____

Wheat notes:

*Durum price is for milling quality. There is high risk of lower quality and lower price.

**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).

***Cereal grain aphid insecticide would cost about \$4.

Malting Barley

Corn Grain

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	76	_____	165	_____
Market Price	4.99*	_____	4.00	_____
MARKET REVENUE	379.24	_____	660.00	_____
DIRECT COSTS				
-Seed	22.00	_____	100.50*	_____
-Herbicides	22.70	_____	37.50	_____
-Fungicides	18.50**	_____	0.00	_____
-Insecticides	0.00	_____	0.00	_____
-Fertilizer	81.32	_____	153.71	_____
-Crop Insurance	4.50	_____	10.30	_____
-Fuel & Lubrication	19.35	_____	27.15	_____
-Repairs	25.06	_____	34.42	_____
-Drying	0.00	_____	33.00	_____
-Miscellaneous	2.00	_____	2.00	_____
-Operating Interest	7.33	_____	14.95	_____
	=====	=====	=====	=====
SUM OF LISTED DIRECT COSTS	202.76	_____	413.53	_____
INDIRECT (FIXED) COSTS				
-Misc. Overhead	11.10	_____	14.78	_____
-Machinery Depreciation	30.83	_____	48.83	_____
-Machinery Investment	15.72	_____	24.16	_____
-Land Charge	106.00	_____	106.00	_____
	=====	=====	=====	=====
SUM OF LISTED INDIRECT COSTS	163.65	_____	193.77	_____
SUM OF ALL LISTED COSTS	366.41	_____	607.30	_____
RETURN TO LABOR & MANAGEMENT	12.83	_____	52.70	_____
LISTED COSTS PER BUDGET UNIT	(bu) :		(bu) :	
-Direct Costs	2.67	_____	2.51	_____
-Indirect Costs	2.15	_____	1.17	_____
-Total Costs	4.82	_____	3.68	_____

Barley notes:

*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 which is recommended when conditions are favorable for fusarium head blight (scab).

Corn notes:

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

Soybean

Drybean

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	40	_____	2020	_____
Market Price	9.58	_____	0.27	_____
MARKET REVENUE	383.20	_____	545.40	_____
DIRECT COSTS				
-Seed	65.80*	_____	86.63	_____
-Herbicides	46.00	_____	54.70*	_____
-Fungicides	0.00	_____	20.00**	_____
-Insecticides	4.00**	_____	0.00	_____
-Fertilizer	5.02	_____	71.26	_____
-Crop Insurance	4.80	_____	12.50	_____
-Fuel & Lubrication	14.70	_____	20.37	_____
-Repairs	22.51	_____	29.04	_____
-Drying	0.00	_____	0.00	_____
-Miscellaneous	5.50	_____	15.50	_____
-Operating Interest	6.31	_____	11.62	_____
	=====	=====	=====	=====
SUM OF LISTED DIRECT COSTS	174.64	_____	321.62	_____
INDIRECT (FIXED) COSTS				
-Misc. Overhead	10.30	_____	11.51	_____
-Machinery Depreciation	27.73	_____	35.14	_____
-Machinery Investment	14.47	_____	18.26	_____
-Land Charge	106.00	_____	106.00	_____
	=====	=====	=====	=====
SUM OF LISTED INDIRECT COSTS	158.50	_____	170.91	_____
SUM OF ALL LISTED COSTS	333.14	_____	492.53	_____
RETURN TO LABOR & MANAGEMENT	50.06	_____	52.87	_____
LISTED COSTS PER BUDGET UNIT	(bu) :		(lb) :	
-Direct Costs	4.37	_____	0.159	_____
-Indirect Costs	3.96	_____	0.085	_____
-Total Costs	8.33	_____	0.244	_____

Soybean notes:

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

**Insecticide for soybean aphid, spider mite, or foliage-feeding caterpillars.

Drybean notes:

*Includes desiccant prior to straight cutting.

**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	1810	_____	1800	_____
Market Price	0.203	_____	0.285	_____
MARKET REVENUE	367.43	_____	513.00	_____
DIRECT COSTS				
-Seed	37.62	_____	57.38	_____
-Herbicides	28.60	_____	31.60	_____
-Fungicides	0.00*	_____	0.00*	_____
-Insecticides	5.00**	_____	10.00**	_____
-Fertilizer	60.79	_____	60.39	_____
-Crop Insurance	9.00	_____	17.00	_____
-Fuel & Lubrication	20.18	_____	20.17	_____
-Repairs	25.71	_____	25.70	_____
-Drying	7.24	_____	7.20	_____
-Miscellaneous	12.00	_____	22.00	_____
-Operating Interest	7.73	_____	9.43	_____
	=====	=====	=====	=====
SUM OF LISTED DIRECT COSTS	213.87	_____	260.87	_____
INDIRECT (FIXED) COSTS				
-Misc. Overhead	11.83	_____	11.83	_____
-Machinery Depreciation	34.17	_____	34.14	_____
-Machinery Investment	18.49	_____	18.48	_____
-Land Charge	106.00	_____	106.00	_____
	=====	=====	=====	=====
SUM OF LISTED INDIRECT COSTS	170.49	_____	170.45	_____
SUM OF ALL LISTED COSTS	384.36	_____	431.32	_____
RETURN TO LABOR & MANAGEMENT	(16.93)	_____	81.68	_____
LISTED COSTS PER BUDGET UNIT	(lb) :		(lb) :	
-Direct Costs	0.118	_____	0.145	_____
-Indirect Costs	0.094	_____	0.095	_____
-Total Costs	0.212	_____	0.240	_____

Oil 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."

Confection Sunflower notes:

*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."

Canola

Flax

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	1680	_____	24	_____
Market Price	0.187	_____	11.20	_____
MARKET REVENUE	314.16	_____	268.80	_____
DIRECT COSTS				
-Seed	79.00	_____	20.00	_____
-Herbicides	15.60	_____	27.10	_____
-Fungicides	0.00*	_____	0.00	_____
-Insecticides	0.00	_____	0.00	_____
-Fertilizer	92.96	_____	44.72	_____
-Crop Insurance	8.00	_____	12.50	_____
-Fuel & Lubrication	17.55	_____	17.55	_____
-Repairs	24.23	_____	25.31	_____
-Drying	0.00	_____	0.00	_____
-Miscellaneous	2.00	_____	2.00	_____
-Operating Interest	8.98	_____	5.59	_____
	=====	=====	=====	=====
SUM OF LISTED DIRECT COSTS	248.32	_____	154.77	_____
INDIRECT (FIXED) COSTS				
-Misc. Overhead	10.29	_____	10.48	_____
-Machinery Depreciation	29.20	_____	29.64	_____
-Machinery Investment	14.70	_____	15.48	_____
-Land Charge	106.00	_____	106.00	_____
	=====	=====	=====	=====
SUM OF LISTED INDIRECT COSTS	160.19	_____	161.60	_____
SUM OF ALL LISTED COSTS	408.51	_____	316.37	_____
RETURN TO LABOR & MANAGEMENT	(94.35)	_____	(47.57)	_____
LISTED COSTS PER BUDGET UNIT	(lb) :		(bu) :	
-Direct Costs	0.148	_____	6.45	_____
-Indirect Costs	0.095	_____	6.73	_____
-Total Costs	0.243	_____	13.18	_____

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	36.5750	_____	76	_____
Market Price	8.00	_____	2.56	_____
MARKET REVENUE	292.60	_____	194.56	_____
DIRECT COSTS				
-Seed	60.00	_____	16.00	_____
-Herbicides	34.90	_____	6.20	_____
-Fungicides	0.00	_____	0.00	_____
-Insecticides	0.00	_____	0.00	_____
-Fertilizer	11.24	_____	68.19	_____
-Crop Insurance	7.00	_____	8.10	_____
-Fuel & Lubrication	18.31	_____	20.63	_____
-Repairs	25.96	_____	25.94	_____
-Drying	0.00	_____	0.00	_____
-Miscellaneous	10.00	_____	2.00	_____
-Operating Interest	6.28	_____	5.51	_____
	=====	=====	=====	=====
SUM OF LISTED DIRECT COSTS	173.69	_____	152.57	_____
INDIRECT (FIXED) COSTS				
-Misc. Overhead	10.70	_____	11.47	_____
-Machinery Depreciation	31.11	_____	32.16	_____
-Machinery Investment	15.75	_____	16.80	_____
-Land Charge	106.00	_____	106.00	_____
	=====	=====	=====	=====
SUM OF LISTED INDIRECT COSTS	163.56	_____	166.43	_____
SUM OF ALL LISTED COSTS	337.25	_____	319.00	_____
RETURN TO LABOR & MANAGEMENT	(44.65)	_____	(124.44)	_____
LISTED COSTS PER BUDGET UNIT				
	(bu) :		(bu) :	
-Direct Costs	4.75	_____	2.01	_____
-Indirect Costs	4.47	_____	2.19	_____
-Total Costs	9.22	_____	4.20	_____

Buckwheat

Millet

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	950	_____	1800	_____
Market Price	0.24	_____	0.11	_____
MARKET REVENUE	228.00	_____	198.00	_____
DIRECT COSTS				
-Seed	26.00	_____	15.00	_____
-Herbicides	13.60	_____	3.90	_____
-Fungicides	0.00	_____	0.00	_____
-Insecticides	0.00	_____	0.00	_____
-Fertilizer	25.50	_____	39.23	_____
-Crop Insurance	9.50*	_____	6.00	_____
-Fuel & Lubrication	15.35	_____	18.29	_____
-Repairs	22.76	_____	24.61	_____
-Drying	0.00	_____	0.00	_____
-Miscellaneous	2.00	_____	2.00	_____
-Operating Interest	4.30	_____	4.09	_____
	=====	=====	=====	=====
SUM OF LISTED DIRECT COSTS	119.01	_____	113.12	_____
INDIRECT (FIXED) COSTS				
-Misc. Overhead	9.83	_____	10.65	_____
-Machinery Depreciation	26.01	_____	29.38	_____
-Machinery Investment	13.67	_____	15.62	_____
-Land Charge	106.00	_____	106.00	_____
	=====	=====	=====	=====
SUM OF LISTED INDIRECT COSTS	155.51	_____	161.65	_____
SUM OF ALL LISTED COSTS	274.52	_____	274.77	_____
RETURN TO LABOR & MANAGEMENT	(46.52)	_____	(76.77)	_____
LISTED COSTS PER BUDGET UNIT	(lb) :		(lb) :	
-Direct Costs	0.125	_____	0.063	_____
-Indirect Costs	0.164	_____	0.090	_____
-Total Costs	0.289	_____	0.153	_____

Buckwheat notes:

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

Winter Wheat

	Per Acre	Your Figures
Market Yield	63*	_____
Market Price	5.67	_____
MARKET INCOME	357.21	_____
DIRECT COSTS		
-Seed	14.40	_____
-Herbicides	26.80	_____
-Fungicides	10.00	_____
-Insecticides	0.00	_____
-Fertilizer	112.61	_____
-Crop Insurance	4.80	_____
-Fuel & Lubrication	16.00	_____
-Repairs	22.02	_____
-Drying	0.00	_____
-Miscellaneous	10.00	_____
-Operating Interest	8.12	_____
	=====	=====
SUM OF LISTED DIRECT COSTS	224.75	_____
INDIRECT (FIXED) COSTS		
-Misc. Overhead	9.99	_____
-Machinery Depreciation	26.53	_____
-Machinery Investment	12.84	_____
-Land Charge	106.00	_____
	=====	=====
SUM OF LISTED INDIRECT COSTS	155.36	_____
SUM OF ALL LISTED COSTS	380.11	_____
RETURN TO LABOR & MANAGEMENT	(22.90)	_____
LISTED COSTS PER BUDGET UNIT	(bu) :	
-Direct Costs	3.57	_____
-Indirect Costs	2.47	_____
-Total Costs	6.03	_____

Winter Wheat notes:

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

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