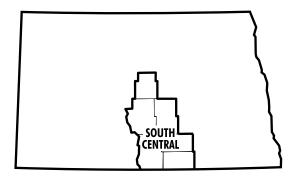


February 2022

Projected 2022 Crop Budgets



South Central North Dakota

Ron Haugen, Farm Management Specialist

Note: This region consists of six counties: Burleigh, Emmons, Kidder, Logan, McIntosh and Sheridan.

The 2021 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 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 2022 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 2014-2020, 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. N fertilizer can be reduced if previous crop was soybean, dry bean, field peas or lentil.

Fertilizer prices:

Nitrogen - .94/lb Phosphorus - .65/lb Potassium - .53/lb

Seed Prices:

Spring Wheat

Conf. Sunflower

Durum 19.00/bu
Barley 13.00/bu
Corn GM 2.69/thou.kern.
Soybean GM .34/thou.kern.
Dry Beans .75/thou.kern.
Oil Sunflower 1.55/thou.kern.

17.00/bu

2.75/thou.kern.

Canola 12.40/lb Flax 27.00/bu Field Peas 20.00/bu Oats 10.00/bu Lentils .30/lb Mustard 1.00/lb Buckwheat .40/lb Millet .60/lb Winter Wheat 12.00/bu Rye 11.00/bu

Fuel prices:

Diesel 2.90/gal Gas 3.10/gal

Lubrication charge: 15% of fuel cost

Crop Insurance: Revenue Protection was used for all wheat, barley, soybeans, corn, canola, sunflowers, field peas, dry beans and lentils 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 4.5% 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, \$4.00 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	46		49	
Market Price	7.52		9.03*	
MARKET REVENUE	345.92		442.47	
DIRECT COSTS				
-Seed	28.90		34.20	
-Seed -Herbicides	26.90 36.10		34.20 36.10	
	9.00		9.00	
-Fungicides** -Insecticides***	9.00 0.00			
-Fertilizer			0.00 104.29	
	94.34 7.50			
-Crop Insurance			8.00	
-Fuel & Lubrication	14.90		15.09	
-Repairs	18.40		18.49	
-Drying	0.00	-	0.00	
-Miscellaneous	8.25		8.25	
-Operating Interest	4.89		5.25	
SUM OF LISTED DIRECT COSTS	222.28		238.67	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	8.18		8.24	
-Machinery Depreciation	21.38		21.54	
-Machinery Investment	12.33		12.41	
-Land Charge	54.00		54.00	
Land Onlings	=======		======	
SUM OF LISTED INDIRECT COSTS	95.89		96.19	
SUM OF ALL LISTED COSTS	318.17		334.86	
RETURN TO LABOR & MANAGEMENT	27.75		107.61	
LISTED COSTS PER BUDGET UNIT	(bu):		(bu):	
-Direct Costs	4.83		4.87	
-Indirect Costs	2.08		1.96	
-Total Costs	6.92		6.83	
	J.J_		5.55	

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.

Malting Barley Corn Grain

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	65		114	
Market Price	5.99*		4.45	
	0.00			
MARKET REVENUE	389.35		507.30	
DIRECT COSTS				
-Seed	20.80		78.01*	
-Herbicides	26.70		47.50	
-Fungicides	9.00**		0.00	
-Insecticides	0.00		0.00	- <u></u> -
-Fertilizer	73.97		130.62	
-Crop Insurance	6.00		10.50	
-Fuel & Lubrication	16.11		23.48	
-Repairs	18.95		24.02	
-Drying	0.00		18.90	
-Miscellaneous	8.25		8.25	
-Operating Interest	4.05		7.68	
3	=======		=======	==========
SUM OF LISTED DIRECT COSTS	183.83		348.96	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	8.54		11.09	
-Machinery Depreciation	22.41		36.29	
-Machinery Investment	12.87		19.88	
-Land Charge	54.00		54.00	
3. 1. 2. 1. 3.	=======		======	==========
SUM OF LISTED INDIRECT COSTS	97.82		121.26	
SUM OF ALL LISTED COSTS	281.65		470.22	
RETURN TO LABOR & MANAGEMENT	107.70		37.08	
LIOTED COOTS BED BURGET !!!	4. \		41	
LISTED COSTS PER BUDGET UNIT	(bu):		(bu):	
-Direct Costs	2.83		3.06	
-Indirect Costs	1.50		1.06	
-Total Costs	4.33		4.12	

Barley notes:

Corn notes:

^{*}There is risk of not making malting barley quality. Use \$4.00 for feed barley.

^{**}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).

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

Soybeans

Drybeans

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	33		1630	
Market Price	11.45		0.33	
			0.00	
MARKET REVENUE	377.85		537.90	
DIRECT COSTS				
-Seed	65.80*		61.88	
-Herbicides	52.00		46.90*	
-Fungicides	0.00		20.00**	
-Insecticides	4.00**		0.00	
-Fertilizer	7.78		31.07	
-Crop Insurance	8.00		12.00	
-Fuel & Lubrication	14.07		19.08	
-Repairs	17.87		22.32	
-Drying	0.00		0.00	
-Miscellaneous	5.00		13.50	
-Operating Interest	3.93		5.10	
, ,	=======	========	=======	
SUM OF LISTED DIRECT COSTS	178.45	·	231.85	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	7.99		9.09	
-Machinery Depreciation	21.66		27.82	
-Machinery Investment	12.15		16.03	
-Land Charge	54.00	-	54.00	
01114 05 110755 111515507 00070	=======	========	======	=========
SUM OF LISTED INDIRECT COSTS	95.80		106.94	
SUM OF ALL LISTED COSTS	274.25		338.79	
RETURN TO LABOR & MANAGEMENT	103.60		199.11	
LICTED COCTS DED DUDGET LIVIT	/h\-		/II_>-	
LISTED COSTS PER BUDGET UNIT	(bu):		(lb):	
-Direct Costs	5.41		0.142	
-Indirect Costs	2.90		0.066	
-Total Costs	8.31		0.208	

Soybean notes:

Drybean 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.

^{*}Includes dessicant prior to straight cutting.

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

Oil Sunflower

Confection Sunflower

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	1740		1600	
Market Price	0.251		0.352	
MARKET REVENUE	436.74		563.20	
DIRECT COSTS				
-Seed	34.10		49.50	
-Herbicides	44.20		47.10	
-Fungicides	0.00*		0.00*	
-Insecticides	5.00**		10.00**	
-Fertilizer	57.94		48.59	
-Crop Insurance	8.50		21.00	
-Fuel & Lubrication	16.29		16.00	
-Repairs	18.59		18.47	
-Drying	5.28		5.25	
-Miscellaneous	16.75		25.25	
-Operating Interest	4.65		5.43	
, ,	======		=======	
SUM OF LISTED DIRECT COSTS	211.30		246.59	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	8.80		8.72	
-Machinery Depreciation	23.85		23.60	
-Machinery Investment	14.10		13.97	
-Land Charge	54.00		54.00	
Land Chargo	=======		======	
SUM OF LISTED INDIRECT COSTS	100.75		100.29	
COM OF EIGTED HADITEOT GOOTG	100.70		100.20	
SUM OF ALL LISTED COSTS	312.05		346.88	
30 M 31 7 M22 213 1 22 3 3 3 1 3	0.2.00		0.0.00	
RETURN TO LABOR & MANAGEMENT	124.69		216.32	
- · · · · · · · · · · · · · · · · · · ·				
LISTED COSTS PER BUDGET UNIT	(lb):		(lb):	
-Direct Costs	0.121		0.154	
-Indirect Costs	0.058		0.063	
-Total Costs	0.179		0.217	
	55		v.= · ·	

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	1770		16	
Market Price	0.256		14.08	
MARKET REVENUE	453.12		225.28	
DIDEOT COOTS				
DIRECT COSTS	00.00		04.00	
-Seed	62.00		24.30	
-Herbicides	32.30		40.90	
-Fungicides	0.00*		0.00	
-Insecticides	0.00		0.00	
-Fertilizer	108.20		6.67	
-Crop Insurance	6.50		11.50	
-Fuel & Lubrication	14.36		14.14	
-Repairs	17.83		18.60	
-Drying	0.00		0.00	
-Miscellaneous	8.25		1.50	
-Operating Interest	5.61		2.65	
, ,	=======		=======	
SUM OF LISTED DIRECT COSTS	255.05		120.26	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	7.91		7.92	
-Machinery Depreciation	21.91		22.09	
-Machinery Investment	11.88		12.52	
-Land Charge	54.00		54.00	
Land Charge	=======		======	
SUM OF LISTED INDIRECT COSTS	95.70		96.53	
SOM OF EIGHED INDIFFECT COOTS	93.70		30.33	
SUM OF ALL LISTED COSTS	350.75		216.79	
	5555			
RETURN TO LABOR & MANAGEMENT	102.37		8.49	
- · · · · · · · · · · · · · · · · · · ·	-			
LISTED COSTS PER BUDGET UNIT	(lb):		(bu):	
-Direct Costs	0.144		7.52	
-Indirect Costs	0.054		6.03	
-Total Costs	0.198		13.55	
13141 30010	0.100		10.00	

Canola notes: *Fungicide for white mold would cost about \$18 plus application.

Field Peas

Oats

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	38		70	
Market Price	9.00		3.44	
MARKET REVENUE	342.00		240.80	
DIRECT COSTS				
-Seed	60.00		20.00	
-Herbicides	46.70		11.70	
-Fungicides	1.50		0.00	
-Insecticides	0.00*		0.00	
-Fertilizer	13.46		64.29	
-Crop Insurance	6.00		15.00	
-Fuel & Lubrication	15.82		17.68	
-Repairs	19.57		19.83	
-Drying	0.00		0.00	
-Miscellaneous	9.50		8.25	
-Operating Interest	3.88		3.53	
SUM OF LISTED DIRECT COSTS	176.43		160.28	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	8.37		9.05	
-Machinery Depreciation	24.10		24.33	
-Machinery Investment	13.22		14.39	
-Land Charge	54.00		54.00	
	=======	========	======	=========
SUM OF LISTED INDIRECT COSTS	99.69		101.77	
SUM OF ALL LISTED COSTS	276.12		262.05	
RETURN TO LABOR & MANAGEMENT	65.88		(21.25)	
LISTED COSTS PER BUDGET UNIT	(bu):		(bu):	
-Direct Costs	4.64		2.29	
-Indirect Costs	2.62		1.45	
-Total Costs	7.27		3.74	

Field Pea notes:

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

Lentils **Yellow Mustard**

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	1200		850	
Market Price	0.22		0.45	
MARKET REVENUE	264.00		382.50	
DIRECT COSTS				
-Seed	21.00		12.60	
-Herbicides	46.20*		30.30	
-Fungicides	16.00**		0.00	
-Insecticides	0.00***		0.00	
-Fertilizer	7.02		17.83	
-Crop Insurance	7.00		0.00*	
-Fuel & Lubrication	16.99		14.17	
-Repairs	22.23		18.25	
-Drying	0.00		0.00	
-Miscellaneous	9.50		8.25	
-Operating Interest	3.28		2.28	
, ,	=======	=========	=======	
SUM OF LISTED DIRECT COSTS	149.22		103.68	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	8.74		8.01	
-Machinery Depreciation	27.05		21.33	
-Machinery Investment	14.73		12.83	
-Land Charge	54.00		54.00	
g	=======		======	
SUM OF LISTED INDIRECT COSTS	104.52		96.17	
30M 31 2.3125 M.B.M.231 33313	101102		00	
SUM OF ALL LISTED COSTS	253.74		199.85	
RETURN TO LABOR & MANAGEMENT	10.26		182.65	
LISTED COSTS PER BUDGET UNIT	(lb):		(lb):	
-Direct Costs	0.124		0.122	
-Indirect Costs	0.087		0.113	
-Total Costs	0.211		0.235	
10101 00010	V.L.		0.200	

Lentil notes:

Yellow Mustard notes:

^{*}Includes pre-harvest dessicant.

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

^{**}Crop insurance is not available in this region.

Buckwheat

Millet

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	900		1500	
Market Price	0.313		0.21	
MARKET REVENUE	281.70		315.00	
DIRECT COSTS				
-Seed	20.50		17.50	
-Herbicides	19.80		10.60	
-Fungicides	0.00		0.00	
-Insecticides	0.00		0.00	
-Fertilizer	8.73		12.18	
-Crop Insurance	10.00*		0.00	
-Fuel & Lubrication	13.81		15.12	
-Repairs	17.55		18.68	
-Drying	0.00		0.00	
-Miscellaneous	1.50		8.25	
-Operating Interest	2.07		1.85	
	=======	=========	=======	========
SUM OF LISTED DIRECT COSTS	93.96		====== 84.18	
INDIRECT (FIXED) COSTS	93.96		84.18	
INDIRECT (FIXED) COSTS -Misc. Overhead	93.96 7.84		84.18 8.29	
INDIRECT (FIXED) COSTS -Misc. Overhead -Machinery Depreciation	93.96 7.84 20.79		84.18 8.29 22.14	
INDIRECT (FIXED) COSTS -Misc. Overhead -Machinery Depreciation -Machinery Investment	93.96 7.84 20.79 12.10		84.18 8.29 22.14 13.25	
INDIRECT (FIXED) COSTS -Misc. Overhead -Machinery Depreciation	93.96 7.84 20.79		84.18 8.29 22.14	
INDIRECT (FIXED) COSTS -Misc. Overhead -Machinery Depreciation -Machinery Investment -Land Charge	93.96 7.84 20.79 12.10 54.00		84.18 8.29 22.14 13.25 54.00	
INDIRECT (FIXED) COSTS -Misc. Overhead -Machinery Depreciation -Machinery Investment	93.96 7.84 20.79 12.10 54.00		84.18 8.29 22.14 13.25 54.00	
INDIRECT (FIXED) COSTS -Misc. Overhead -Machinery Depreciation -Machinery Investment -Land Charge SUM OF LISTED INDIRECT COSTS	7.84 20.79 12.10 54.00 ======= 94.73		84.18 8.29 22.14 13.25 54.00 ====== 97.68	
INDIRECT (FIXED) COSTS -Misc. Overhead -Machinery Depreciation -Machinery Investment -Land Charge	93.96 7.84 20.79 12.10 54.00		84.18 8.29 22.14 13.25 54.00	
INDIRECT (FIXED) COSTS -Misc. Overhead -Machinery Depreciation -Machinery Investment -Land Charge SUM OF LISTED INDIRECT COSTS	7.84 20.79 12.10 54.00 ======= 94.73		84.18 8.29 22.14 13.25 54.00 ====== 97.68	
INDIRECT (FIXED) COSTS -Misc. Overhead -Machinery Depreciation -Machinery Investment -Land Charge SUM OF LISTED INDIRECT COSTS SUM OF ALL LISTED COSTS	93.96 7.84 20.79 12.10 54.00 ====== 94.73 188.69		84.18 8.29 22.14 13.25 54.00 ====== 97.68 181.86	
INDIRECT (FIXED) COSTS -Misc. Overhead -Machinery Depreciation -Machinery Investment -Land Charge SUM OF LISTED INDIRECT COSTS SUM OF ALL LISTED COSTS RETURN TO LABOR & MANAGEMENT	93.96 7.84 20.79 12.10 54.00 ======= 94.73 188.69 93.01		84.18 8.29 22.14 13.25 54.00 ====== 97.68 181.86 133.14	
INDIRECT (FIXED) COSTS -Misc. Overhead -Machinery Depreciation -Machinery Investment -Land Charge SUM OF LISTED INDIRECT COSTS SUM OF ALL LISTED COSTS RETURN TO LABOR & MANAGEMENT LISTED COSTS PER BUDGET UNIT	93.96 7.84 20.79 12.10 54.00 ====== 94.73 188.69 93.01 (lb):		84.18 8.29 22.14 13.25 54.00 ====== 97.68 181.86 133.14 (lb):	
INDIRECT (FIXED) COSTS -Misc. Overhead -Machinery Depreciation -Machinery Investment -Land Charge SUM OF LISTED INDIRECT COSTS SUM OF ALL LISTED COSTS RETURN TO LABOR & MANAGEMENT LISTED COSTS PER BUDGET UNIT -Direct Costs	93.96 7.84 20.79 12.10 54.00 ====== 94.73 188.69 93.01 (lb): 0.104		84.18 8.29 22.14 13.25 54.00 ===== 97.68 181.86 133.14 (lb): 0.056	

Buckwheat notes:

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

Winter Wheat Rye

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	50*		43	
Market Price	6.54		6.98	
MARKET REVENUE	327.00		300.14	
DIRECT COSTS				
-Seed	13.20		13.20	
-Herbicides	32.20		7.20	
-Fungicides	9.00		0.00	
-Insecticides	0.00		0.00	
-Fertilizer	107.61		84.38	
-Crop Insurance	7.50		13.00	
-Fuel & Lubrication	13.97		13.74	
-Repairs	16.81		16.59	
-Drying	0.00		0.00	
-Miscellaneous	8.25		8.25	
-Operating Interest	4.69		3.52	
operating interest	=======		=======	
SUM OF LISTED DIRECT COSTS	213.33		159.88	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	7.85		7.81	
-Machinery Depreciation	19.92		19.80	
-Machinery Investment	11.07		11.18	
-Land Charge	54.00		54.00	
Zana Ghargo	=======		======	
SUM OF LISTED INDIRECT COSTS	92.84		92.79	
COM OF EIGTED HADITED FOR COLO	02.01	·	02.70	
SUM OF ALL LISTED COSTS	305.06		252.67	
RETURN TO LABOR & MANAGEMENT	20.93		47.47	
LISTED COSTS PER BUDGET UNIT	(bu):		(bu):	
-Direct Costs	4.26		3.72	
-Indirect Costs	1.86		2.16	
-Total Costs	6.12		5.88	
- 10tai 005t5	0.12		5.66	·

Winter Wheat notes:

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

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