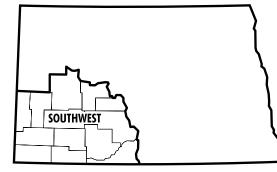


FARM MANAGEMENT PLANNING GUIDE

December 2018

Projected 2019 Crop Budgets



South West North Dakota

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The contributions of NDSU Extension Specialists: Ron Haugen, Frayne Olson, Janet Knodel, Sam Markell, Andrew Friskop, Greg Endres, Hans Kandel, Joel Ransom and Lesley Lubenow are acknowledged. The information provided by agronomists, crop input suppliers, crop processors and producers throughout North Dakota is also acknowledged.

The 2019 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

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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 2019 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 2011-2017, 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.

Soil test	- recrop:
Nitrogen	- 48 lb
Phosphorus	- 10 ppm
Potassium	- 356 ppm

Fertilizer prices:

Nitrogen	43/lb
Phosphorus	45/lb
Potassium	31/lb

Seed Prices:

eu Flices.	
Spring Wheat	10.25/bu
Durum	11.50/bu
Barley	8.25/bu
Corn GM	2.67/thou.kern.
Soybean GM	.33/thou.kern.
Oil Sunflower	1.50/thou.kern.
Conf. Sunflower	2.70/thou.kern.
Canola	11.50/lb
Flax	16.00/bu
Field Peas	14.00/bu
Oats	6.50/bu
Lentils	.30/lb
Mustard	2.10/lb
Safflower	.60/lb
Buckwheat	.40/lb
Millet	.28/lb
Large Chickpeas	.40/lb
Winter Wheat	9.50/bu
Rye	7.75/bu

Fuel prices:

Diesel 2.20/gal Gas 2.45/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 5.85% 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: 4.5% 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

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	38		37	
Market Price	5.53		5.96*	
MARKET INCOME	210.14		220.52	
DIRECT COSTS				
-Seed	15.38		20.13	
-Herbicides	25.80		25.80	
-Fungicides**	5.00		5.00	
-Insecticides***	0.00		0.00	
-Fertilizer	41.38		39.75	
-Crop Insurance	5.00		6.30	
-Fuel & Lubrication	10.10		10.05	
-Repairs	15.90		15.87	
-Drying	0.00		0.00	
-Miscellaneous	8.00		8.00	
-Operating Interest	3.70		3.83	
1 3	=======		=======	
SUM OF LISTED DIRECT COSTS	130.26		134.72	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	7.49		7.47	
-Machinery Depreciation	18.72		18.66	
-Machinery Investment	10.32		10.29	
-Land Charge	37.00		37.00	
Land Unalgo	=======		=======	
SUM OF LISTED INDIRECT COSTS	73.53		73.43	
SUM OF ALL LISTED COSTS	203.78		208.15	
RETURN TO LABOR & MANAGEMENT	6.36		12.37	
LISTED COSTS PER BUDGET UNIT	(bu):		(bu):	
-Direct Costs	3.43		3.64	
-Indirect Costs	1.93		1.98	
-Total Costs	5.36		5.63	

Wheat notes:

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

**Includes seed treatment and early season foliar fungicide. Although late season fungicides are often not common in this region, prothioconazole or metconazole containing products are highly recommended for fusarium head blight (scab) control when conditions are favorable for infection.

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

Malting Barley Corn Grain

Per Acre	Your Figures	Per Acre	Your Figures
53		91	
3.29*		3.30	
174.37		300.30	
11.14		61.41*	
24.30		20.00	
5.00**		0.00	
0.00		0.00	
32.64		54.24	
6.30		12.20**	
10.83		14.08	
16.33		19.67	
0.00		16.38	
8.00		8.00	
3.35		6.02	
		=======	
117.88		212.00	
7.77		9.79	
19.50		29.94	
10.73		16.37	
37.00		37.00	
=======		=======	
75.00		93.10	
192.88		305.10	
(18.51)		(4.80)	
(bu): 2.22 1.42 3.64		(bu): 2.33 1.02 3.35	
	53 3.29* 174.37 11.14 24.30 5.00** 0.00 32.64 6.30 10.83 16.33 0.00 8.00 3.35 ===== 117.88 7.77 19.50 10.73 37.00 ===== 75.00 192.88 (18.51) (bu): 2.22 1.42	53	53 91 3.29^* 3.30 174.37 300.30 11.14 20.00 5.00^{**} 0.00 0.00 0.00 5.00^{**} 0.00 0.00 0.00 32.64 54.24 6.30 12.20^{**} 10.83 14.08 16.33 19.67 0.00 16.38 8.00 8.00 3.35 6.02 $====================================$

Barley notes:

*There is risk of not making malting barley quality. Use \$2.40 for feed barley.

**Includes seed treatment and early season foliar fungicide. Although late season fungicides are often not common in this region, prothioconazole or metconazole containing products are highly recommended for fusarium head blight (scab) control when conditions are favorable for infection.

Corn notes:

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

**Crop insurance is only available in Billings county by written agreement.

Soybeans

Oil Sunflower

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	29		1490	
Market Price	7.95		0.163	
MARKET INCOME	230.55		242.87	
DIRECT COSTS				
-Seed	60.80*		31.50	
-Herbicides	20.00		34.00	
-Fungicides	0.00		0.00*	
-Insecticides	0.00		5.00**	
-Fertilizer	2.54		28.41	
-Crop Insurance	7.20**		7.20	
-Fuel & Lubrication	10.17		10.91	
-Repairs	16.30		17.08	
-Drying	0.00		4.47	
-Miscellaneous	5.00		16.00	
-Operating Interest	3.57		4.52	
1 0			=======	
SUM OF LISTED DIRECT COSTS	125.58		159.10	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	7.63		8.12	
 Machinery Depreciation 	19.96		21.57	
-Machinery Investment	11.09		12.15	
-Land Charge	37.00		37.00	
SUM OF LISTED INDIRECT COSTS	======= 75.67		======= 78.85	
SUM OF ALL LISTED COSTS	201.26		237.94	
RETURN TO LABOR & MANAGEMENT	29.29		4.93	
LISTED COSTS PER BUDGET UNIT -Direct Costs -Indirect Costs -Total Costs	(bu): 4.33 2.61 6.94		(lb): 0.11 0.05 0.16	

Soybean notes:

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

**Crop insurance is only available by written agreement in some counties of region.

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." Foliar applied insecticide for cutworms would cost about \$5 per acre plus application (usually tank mixed with herbicide).

Confection Sunflower Canola

		Your		Your
	Per Acre	Figures	Per Acre	Figures
Market Yield	1340		1640	
Market Price	0.225		0.16	
MARKET INCOME	301.50		262.40	
DIRECT COSTS				
-Seed	48.60		57.50	
-Herbicides	36.20		23.10	
-Fungicides	0.00*		0.00*	
-Insecticides	10.00**		0.00	
-Fertilizer	23.48		58.98	
-Crop Insurance	15.80		11.70	
-Fuel & Lubrication	10.68		10.83	
-Repairs	16.94		17.15	
-Drying	4.02		0.00	
-Miscellaneous	24.00		8.00	
-Operating Interest	5.55		5.48	
1 3				
SUM OF LISTED DIRECT COSTS	195.27		192.74	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	8.04		7.74	
-Machinery Depreciation	21.32		21.00	
-Machinery Investment	12.02	í <u></u>	11.40	
-Land Charge	37.00		37.00	
Land Onlarge	=======		=======	
SUM OF LISTED INDIRECT COSTS	78.38		77.14	
SUM OF ALL LISTED COSTS	273.65		269.88	
RETURN TO LABOR & MANAGEMENT	27.85		(7.48)	
LISTED COSTS PER BUDGET UNIT	(lb):		(lb):	
-Direct Costs	0.15		0.12	
-Indirect Costs	0.06		0.05	
-Total Costs	0.20		0.16	
			-	

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." Foliar applied insecticide for cutworms would cost about \$5 per acre plus application (usually tank mixed with herbicide).

Canola notes:

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

Flax

Field Peas

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	21		32	
Market Price	9.36		6.00	
MARKET INCOME	196.56		192.00	
DIRECT COSTS				
-Seed	12.80		42.00	
-Herbicides	26.00		35.90	
-Fungicides	0.00		1.50	
-Insecticides	0.00		6.00*	
-Fertilizer	19.98		6.85	
-Crop Insurance	10.20		6.70	
-Fuel & Lubrication	10.51		10.72	
-Repairs	17.53		18.04	
-Drying	0.00		0.00	
-Miscellaneous	1.50		6.00	
-Operating Interest	2.88		3.91	
	=======	============		
SUM OF LISTED DIRECT COSTS	101.40		137.63	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	7.76		7.95	
-Machinery Depreciation	20.96		22.09	
-Machinery Investment	11.80		12.08	
-Land Charge	37.00		37.00	
C C			=======	
SUM OF LISTED INDIRECT COSTS	77.51		79.12	<u> </u>
SUM OF ALL LISTED COSTS	178.91		216.75	
RETURN TO LABOR & MANAGEMENT	17.65		(24.75)	
LISTED COSTS PER BUDGET UNIT -Direct Costs -Indirect Costs -Total Costs	(bu): 4.83 3.69 8.52		(bu): 4.30 2.47 6.77	

Field Pea notes:

*Seed treatment for pea leaf weevil. Foliar insecticide for cutworms and/or pea aphids would cost about \$4 per acre plus application.

Oats

Lentils

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	62		1300	
Market Price	2.17		0.14	
MARKET INCOME	134.54		182.00	
DIRECT COSTS				
-Seed	13.00		21.00	
-Herbicides	10.60		35.50*	
-Fungicides	0.00		16.00**	
-Insecticides	0.00		0.00***	
-Fertilizer	32.90		4.64	
-Crop Insurance	10.40		9.80	
-Fuel & Lubrication	12.57		12.56	
-Repairs	18.12		21.09	
-Drying	0.00		0.00	
-Miscellaneous	8.00		9.50	
-Operating Interest	3.09		3.81	
		============	=======	
SUM OF LISTED DIRECT COSTS	108.68		133.89	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	8.49		8.40	
-Machinery Depreciation	22.23		25.72	
-Machinery Investment	12.82		13.93	
-Land Charge	37.00		37.00	
	=======		=======	
SUM OF LISTED INDIRECT COSTS	80.53		85.05	
SUM OF ALL LISTED COSTS	189.22		218.95	
RETURN TO LABOR & MANAGEMENT	(54.68)		(36.95)	
LISTED COSTS PER BUDGET UNIT	(bu):		(lb):	
-Direct Costs	1.75		0.10	
-Indirect Costs	1.30		0.07	
-Total Costs	3.05		0.17	

Lentil 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.

Yellow Mustard Safflower

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	800		1050	
Market Price	0.32		0.185	
MARKET INCOME	256.00		194.25	
DIRECT COSTS				
-Seed	21.00		10.80	
-Herbicides	20.20		22.10	
-Fungicides	0.00		18.00*	
-Insecticides	0.00		0.00	
-Fertilizer	14.98		14.85	
-Crop Insurance	26.20*		15.90	
-Fuel & Lubrication	10.53		9.52	
-Repairs	17.48		16.25	
-Drying	0.00		0.00	
-Miscellaneous	8.00		8.00	
-Operating Interest	3.46		3.38	
			=======	
SUM OF LISTED DIRECT COSTS	121.86		118.79	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	7.82		7.38	
-Machinery Depreciation	20.32		18.52	
-Machinery Depreciation	12.23		10.32	
-Land Charge	37.00		37.00	
-Land Charge	=======		=======	
SUM OF LISTED INDIRECT COSTS	77.37		73.23	
SUM OF ALL LISTED COSTS	199.22		192.02	
RETURN TO LABOR & MANAGEMENT	56.78		2.23	
LISTED COSTS PER BUDGET UNIT -Direct Costs -Indirect Costs -Total Costs	(lb): 0.15 0.10 0.25		(lb): 0.11 0.07 0.18	

Yellow Mustard notes:

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

Safflower notes: *Fungicide for alternaria leaf spot.

Buckwheat

Millet

		Your		Your
	Per Acre	Figures	Per Acre	Figures
Market Yield	850		1400	
Market Price	0.189		0.07	
MARKET INCOME	160.65		98.00	
DIRECT COSTS				
-Seed	20.00		7.00	
-Herbicides	18.00		9.60	
-Fungicides	0.00		0.00	
-Insecticides	0.00		0.00	
-Fertilizer	6.21		11.75	
-Crop Insurance	7.70*		0.00	
-Fuel & Lubrication	10.18		10.92	
-Repairs	16.76		17.16	
-Drying	0.00		0.00	
-Miscellaneous	1.50		8.00	
-Operating Interest	2.35		1.88	
1 0				
SUM OF LISTED DIRECT COSTS	82.71		66.31	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	7.64		7.85	
-Machinery Depreciation	19.74		20.45	
-Machinery Investment	11.48		11.88	
-Land Charge	37.00		37.00	
Land Gharge	=======		=======	
SUM OF LISTED INDIRECT COSTS	75.86		77.18	
SUM OF ALL LISTED COSTS	158.57		143.49	
RETURN TO LABOR & MANAGEMENT	2.08		(45.49)	
LISTED COSTS PER BUDGET UNIT	(lb):		(lb):	
-Direct Costs	0.10		0.05	
-Indirect Costs	0.09		0.06	
-Total Costs	0.19		0.10	

Buckwheat notes:

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

Large Chickpea Winter Wheat

		Your		Your
	Per Acre	Figures	Per Acre	Figures
Market Yield	1400		43*	
Market Price	0.20		4.72	
MARKET INCOME	280.00		202.96	
DIRECT COSTS				
-Seed	56.00		9.50	
-Herbicides	36.30		23.00	
-Fungicides	36.00*		9.00	
-Insecticides	0.00		0.00	
-Fertilizer	12.40		49.54	
-Crop Insurance	12.90		5.40	
-Fuel & Lubrication	12.98	······	10.17	
-Repairs	21.96		16.06	
-Drying	0.00		0.00	
-Miscellaneous	8.50		8.00	
-Operating Interest	5.76	······································	3.82	
	========		========	
SUM OF LISTED DIRECT COSTS	202.81		134.50	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	8.58		7.49	
-Machinery Depreciation	26.46		18.73	
-Machinery Investment	14.48	· · · · · · · · · · · · · · · · · · ·	10.16	
-Land Charge	37.00	· · · · · · · · · · · · · · · · · · ·	37.00	
Land Gharge	=======		=======	
SUM OF LISTED INDIRECT COSTS	86.53		73.39	
SUM OF ALL LISTED COSTS	289.33		207.89	
RETURN TO LABOR & MANAGEMENT	(9.33)		(4.93)	
LISTED COSTS PER BUDGET UNIT -Direct Costs -Indirect Costs -Total Costs	(lb): 0.14 0.06 0.21		(bu): 3.13 1.71 4.83	

Large Chickpea notes:

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

Winter Wheat notes:

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

Rye

	Per Acre	Your Figures
Market Yield Market Price	41 4.23	
MARKET INCOME	173.43	
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides -Fertilizer -Crop Insurance -Fuel & Lubrication -Repairs -Drying -Miscellaneous -Operating Interest	9.30 6.50 0.00 46.28 12.80 9.88 15.15 0.00 8.00 3.16	
SUM OF LISTED DIRECT COSTS	======= 111.06	
INDIRECT (FIXED) COSTS -Misc. Overhead -Machinery Depreciation -Machinery Investment -Land Charge	7.39 18.19 9.89 37.00	
SUM OF LISTED INDIRECT COSTS	====== 72.48	
SUM OF ALL LISTED COSTS	183.54	
RETURN TO LABOR & MANAGEMENT	(10.11)	
LISTED COSTS PER BUDGET UNIT -Direct Costs -Indirect Costs -Total Costs	(bu): 2.71 1.77 4.48	

2019 Machinery List

Machine	Purch. Price	Annual Use	Years to trade	Trade in	Deprec.	Invest.	Repairs	Ac/hr
FWA 150HP Tractor	138400	400 hr	20	43309	11.89 /hr	10.22 /hr	13.67 /hr	
FWA 190HP Tractor	182000	500 hr	15	52235	17.30 /hr	10.54 /hr	17.98 /hr	
4WD 370HP Tractor	259500	500 hr	15	74521	24.66 /hr	15.03 /hr	14.65 /hr	
SP Combine (base unit)	295100	250 hr	12	71234	74.62 /hr	32.97 /hr	46.49 /hr	
Tandem Truck (used)	39900	150 hr	15	12700	12.09 /hr	7.89 /hr	8.17 /hr	
Semi & Trailer (used)	46800	150 hr	10	13300	22.33 /hr	9.02 /hr	10.13 /hr	
Pick-up Truck	33600	300 hr	10	7700	8.63 /hr	3.10 /hr	3.85 /hr	
Swather 30 ft	31100	1000 ac	20	7354	1.19 /ac	0.86 /ac	0.50 /ac	13.1
Sprayer 90 ft	40100	5000 ac	10	19912	0.40 /ac	0.27 /ac	0.51 /ac	42.5
Heavy Harrow 70 ft	32000	2000 ac	20	18712	0.33 /ac	0.57 /ac	0.36 /ac	39.7
Air Seeder 40 ft	183500	2400 ac	10	93777	3.73 /ac	2.59 /ac	6.35 /ac	17.0
Planter 12-30	69900	800 ac	20	23266	2.91 /ac	2.62 /ac	3.86 /ac	10.6
Corn head	83900	800 ac	12	24043	6.22 /ac	3.03 /ac	1.94 /ac	6.8
Grain head w/pu	19000	800 ac	20	1840	1.07 /ac	0.59 /ac	0.29 /ac	10.2
Grain str. cut 35 ft	31300	2000 ac	8	13009	1.14 /ac	0.50 /ac	0.41 /ac	11.9
Head w/sunf pans	37700	600 ac	20	3945	2.81 /ac	1.56 /ac	0.50 /ac	11.9
Flex head 35 ft	45800	1000 ac	20	4361	2.07 /ac	1.13 /ac	0.61 /ac	11.9
Rock picker	23000	50 hr	20	7340	0.52 /ac	0.46 /ac	0.34 /ac	29.1
Grain Cart	37200	100 hr	20	6300	15.45 /hr	9.79 /hr	8.75 /hr	
Grain auger	13700	50 hr	20	790	12.91 /hr	6.52 /hr	5.10 /hr	

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