

December 2017

Projected 2018 Crop Budgets



The contributions of NDSU Extension Specialists: Ron Haugen, Frayne Olson, Janet Knodel, Rich Zollinger, 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 2018 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 2018 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 2014 Farm Bill initiated 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 2010-2016, 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 - 34 lb

Phosphorus - 6 ppm

Potassium - 248 ppm

Fertilizer prices:

Nitrogen - .37/lb Phosphorus - .40/lb Potassium - .27/lb

Seed Prices:

Spring Wheat 10.00/bu 13.00/bu Durum Barley 8.00/bu Corn GM 2.65/thou.kern. Soybean GM .33/thou.kern. **Dry Beans** .68/thou.kern. Oil Sunflower 1.50/thou.kern. Conf. Sunflower 2.70/thou.kern. Canola 11.40/lb Flax 16.00/bu Field Peas 14.00/bu 6.50/bu Oats Mustard 2.00/lb Buckwheat .45/lb .25/lb Millet

Fuel prices:

Diesel 2.20/gal Gas 2.45/gal

Winter Wheat

Lubrication charge: 15% of fuel cost

Crop Insurance: Revenue Protection was used for all wheat, barley, soybeans, corn, canola, sunflowers, field peas and dry beans. Yield Protection or APH insurance was used for other crops. A 70% coverage and optional units were used, except corn for which 80% coverage and enterprise units were assumed.

7.75/bu

Miscellaneous: soil testing, machinery rent and custom work.

Operating Interest: Direct costs charged 5.1% 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	54		47	
Market Price	5.68		6.27*	
MARKET INCOME	306.72		294.69	
DIRECT COSTS				
-Seed	17.50		26.00	
-Herbicides	22.00		22.00	
-Fungicides**	17.00		17.00	
-Insecticides***	0.00		0.00	
-Fertilizer	71.14		60.29	
-Crop Insurance	17.00		20.10	
-Fuel & Lubrication	14.45		14.11	
-Repairs	19.68		19.48	
-Drying	0.00		0.00	
-Miscellaneous	1.50		1.50	
-Operating Interest	4.60		4.60	
	======	========	======	========
SUM OF LISTED DIRECT COSTS	184.87		185.09	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	8.54		8.41	
-Machinery Depreciation	22.60		22.24	
-Machinery Investment	13.29		13.10	
-Land Charge	58.50		58.50	
	======	========	=======	========
SUM OF LISTED INDIRECT COSTS	102.93	- <u></u>	102.25	- <u></u>
SUM OF ALL LISTED COSTS	287.80		287.34	
RETURN TO LABOR & MANAGEMENT	18.92		7.35	
LISTED COSTS PER BUDGET UNIT	(bu)		(bu)	
-Direct Costs	3.42		3.94	
-Indirect Costs	1.91		2.18	
-Total Costs	5.33		6.11	

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) infection.

^{***}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 Market Price	69 3.45*		117 3.25	
MARKET INCOME	238.05		380.25	
DIRECT COSTS -Seed -Herbicides -Fungicides -Insecticides	16.00 19.20 17.00** 0.00		80.83* 24.00 0.00 0.00	
-Fertilizer -Crop Insurance -Fuel & Lubrication -Repairs -Drying -Miscellaneous -Operating Interest	54.61 12.70 15.07 19.85 0.00 1.50 3.98		81.48 20.80 21.07 25.90 21.06 1.50 7.05	
SUM OF LISTED DIRECT COSTS	159.90		283.69	
INDIRECT (FIXED) COSTS -Misc. Overhead -Machinery Depreciation -Machinery Investment -Land Charge	8.76 23.17 13.55 58.50		11.52 37.39 21.36 58.50	
SUM OF LISTED INDIRECT COSTS	103.98		128.78	
SUM OF ALL LISTED COSTS	263.88		412.48	
RETURN TO LABOR & MANAGEMENT	(25.83)		(32.23)	
LISTED COSTS PER BUDGET UNIT -Direct Costs -Indirect Costs -Total Costs	(bu) 2.32 1.51 3.82		(bu) 2.42 1.10 3.53	

Barley notes:

Corn notes

^{*}There is risk of not making malting barley quality. Use \$2.70 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) infection.

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

Soybeans

Drybeans

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	32		1560	
Market Price	8.80		0.225	
MARKET INCOME	281.60		351.00	
DIRECT COSTS				
-Seed	65.75*		56.10	
-Herbicides	24.00	·	45.80*	- <u></u> -
-Fungicides	0.00		20.00**	
-Insecticides	4.00**		0.00	
-Fertilizer	11.81		36.70	
-Crop Insurance	22.10		21.00	
-Fuel & Lubrication	14.15		15.99	
-Repairs	20.28		22.73	
-Drying	0.00		0.00	
-Miscellaneous	5.00		13.00	
-Operating Interest	4.26		5.90	
	======	========	=======	========
SUM OF LISTED DIRECT COSTS	171.36		237.22	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	8.54		9.15	
-Machinery Depreciation	23.63		27.71	
-Machinery Investment	14.04		16.29	
-Land Charge	58.50		58.50	
	======		=======	
SUM OF LISTED INDIRECT COSTS	104.71		111.66	
SUM OF ALL LISTED COSTS	276.07		348.87	
RETURN TO LABOR & MANAGEMENT	5.53		2.13	
LISTED COSTS PER BUDGET UNIT -Direct Costs -Indirect Costs -Total Costs	(bu) 5.35 3.27 8.63		(lb) 0.15 0.07 0.22	

Soybean notes:

Drybean notes:

Under the 2014 farm bill government payment reductions can occur if drybean plantings exceed non-base acres plus 15 percent of base acres (35 percent if enrolled in ARC-IC).

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

^{**}Soybean aphid and/or spider mite insecticide.

^{*}Includes dessicant 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

Confection Sunflower

	Per Acre	Your Figures	Per Acre	Your Figures
		J		3
Market Yield	1440		1050	
Market Price	0.171		0.229	
MARKET INCOME	246.24		240.45	
DIRECT COSTS				
-Seed	33.00		51.30	
-Herbicides	27.00		29.20	
-Fungicides	0.00*		0.00*	
-Insecticides	5.00**		10.00**	
-Fertilizer	32.61		20.37	
-Crop Insurance	17.40		26.50	
-Fuel & Lubrication	14.65		14.05	
-Repairs	19.57		19.23	
-Drying	4.32		3.15	
-Miscellaneous	9.50		17.50	
-Operating Interest	4.16		4.88	
, ,	======	========	=======	
SUM OF LISTED DIRECT COSTS	167.21		196.18	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	8.97		8.75	
-Machinery Depreciation	24.32		23.68	
-Machinery Depreciation -Machinery Investment	15.04		14.71	
-Land Charge	58.50		58.50	
-Land Charge	36.30		=======	
SUM OF LISTED INDIRECT COSTS	106.83		105.63	
SUM OF ALL LISTED COSTS	274.04		301.81	
RETURN TO LABOR & MANAGEMENT	(27.80)		(61.36)	
LISTED COSTS PER BUDGET UNIT	(lb)		(lb)	
-Direct Costs	0.12		0.19	
-Indirect Costs	0.12		0.19	
-Total Costs	0.19		0.10	
- 10101 00313	0.13	· · · · · · · · · · · · · · · · · · ·	0.29	

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."

^{*}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

		Your		Your
	Per Acre	Figures	Per Acre	Figures
Market Yield	1930		23	
Market Price	0.17		9.57	
MARKET INCOME	328.10		220.11	
WARKET INCOME	320.10	·	220.11	
DIRECT COSTS				
-Seed	57.00		16.00	
-Herbicides	22.50		21.00	
-Fungicides	0.00*		0.00*	
-Insecticides	0.00		0.00	
-Fertilizer	77.64		29.36	
-Crop Insurance	20.30		9.50	
-Fuel & Lubrication	14.53		13.85	
-Repairs	19.86		20.22	
-Drying	0.00		0.00	
-Miscellaneous	1.50		1.50	
	5.44		2.84	
-Operating Interest				
SUM OF LISTED DIRECT COSTS	218.77		114.28	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	8.51		8.42	
-Machinery Depreciation	23.60		23.53	
-Machinery Investment	13.82		13.94	
-Land Charge	58.50		58.50	
SUM OF LISTED INDIRECT COSTS	104.43	========	====== 104.39	========
30M OF LISTED INDIRECT COSTS	104.43		104.59	
SUM OF ALL LISTED COSTS	323.20		218.66	
RETURN TO LABOR & MANAGEMENT	4.90		1.45	
LISTED COSTS PER BUDGET UNIT	(lb)		(bu)	
-Direct Costs	0.11		4.97	
-Indirect Costs	0.11		4.54	
			4.54 9.51	
-Total Costs	0.17		9.51	

Flax notes:

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

^{*}Fungicide treatment for pasmo has shown good yield response.

Field Peas

Oats

	Your		Your	
	Per Acre	Figures	Per Acre	Figures
Market Yield	36		78	
Market Price	6.30		2.00	
MARKET INCOME	226.80		156.00	
DIRECT COSTS				
-Seed	42.00		13.00	
-Herbicides	31.50		5.25	
-Fungicides	1.50		0.00	
-Insecticides	0.00		0.00	
-Fertilizer	11.79		52.34	
-Crop Insurance	14.30		10.60	
-Fuel & Lubrication	14.46		16.86	
-Repairs	20.55		21.33	
-Drying	0.00		0.00	
-Miscellaneous	9.50		1.50	
-Operating Interest	3.71		3.08	
Sporating interest	=======		=======	
SUM OF LISTED DIRECT COSTS	149.32		123.96	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	8.53		9.39	
-Machinery Depreciation	24.05		25.87	
-Machinery Investment	13.89		15.34	
-Land Charge	58.50		58.50	
CLIM OF LICTED INDIDECT COCTO	104.07	========	100.10	=======
SUM OF LISTED INDIRECT COSTS	104.97		109.10	
SUM OF ALL LISTED COSTS	254.29		233.06	
RETURN TO LABOR & MANAGEMENT	(27.49)		(77.06)	
LISTED COSTS PER BUDGET UNIT	(bu)		(bu)	
-Direct Costs	4.15		1.59	
-Indirect Costs	2.92		1.40	
-Total Costs	7.06		2.99	

Yellow Mustard Buckwheat

Market Yield 900 950 Market Price 0.31 0.196 MARKET INCOME 279.00 186.20 DIRECT COSTS 2 -Seed 24.00 22.50 -Herbicides 13.70 11.50 -Fungicides 0.00 0.00 -Insecticides 6.00* 0.00 -Insecticides 6.00* 0.00 -Fertilizer 26.23 16.82 -Crop Insurance 19.90 0.00* -Fuel & Lubrication 13.20 15.29 -Repairs 19.26 21.11 -Drying 0.00 0.00 -Miscellaneous 1.50 1.50 -Operating Interest 3.16 2.26 SUM OF LISTED DIRECT COSTS 126.94 90.99 INDIRECT (FIXED) COSTS 126.94 90.99 INDIRECT (FIXED) COSTS 24.16 14.85 -Land Charge 58.50 58.50 SUM OF ALL LISTED COSTS 229.40 197.17 RETURN TO LABOR		Per Acre	Your Figures	Per Acre	Your Figures
DIRECT COSTS Seed 24.00 22.50	Market Yield	900		950	
DIRECT COSTS	Market Price	0.31		0.196	
-Seed	MARKET INCOME	279.00		186.20	
-Herbicides	DIRECT COSTS				
-Fungicides 0.00 0.00 0.00 -Insecticides 6.00* 0.00 0.00 -Insecticides 6.00* 0.00 0.00 -Fertilizer 26.23 16.82 -Crop Insurance 19.90 0.00* 0.00* 0.00* 0.00* 0.00* 0.00* 0.00 0.	-Seed	24.00		22.50	
-Fungicides 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	-Herbicides	13.70		11.50	
-Fertilizer	-Fungicides	0.00		0.00	
-Crop Insurance 19.90 0.00* -Fuel & Lubrication 13.20 15.29	-Insecticides	6.00*		0.00	
-Fuel & Lubrication 13.20 15.29	-Fertilizer	26.23		16.82	
-Repairs 19.26 21.11 -Drying 0.00 0.00 -Miscellaneous 1.50 1.50 -Operating Interest 3.16 2.26 SUM OF LISTED DIRECT COSTS 126.94 90.99 INDIRECT (FIXED) COSTS -Misc. Overhead 8.20 8.67 -Machinery Depreciation 22.30 24.16 -Machinery Investment 13.46 14.85 -Land Charge 58.50 58.50 SUM OF LISTED INDIRECT COSTS 102.46 106.18 SUM OF ALL LISTED COSTS 229.40 197.17 RETURN TO LABOR & MANAGEMENT 49.60 (10.97) LISTED COSTS PER BUDGET UNIT (lb) -Direct Costs 0.14 0.10 -Indirect Costs 0.11 0.11	-Crop Insurance	19.90		0.00*	
-Drying 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	-Fuel & Lubrication	13.20		15.29	
-Drying 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	-Repairs	19.26		21.11	
-Miscellaneous		0.00		0.00	
SUM OF LISTED DIRECT COSTS 126.94 90.99 INDIRECT (FIXED) COSTS 8.20 8.67 -Misc. Overhead 8.20 24.16 -Machinery Depreciation 22.30 24.16 -Machinery Investment 13.46 14.85 -Land Charge 58.50 58.50 SUM OF LISTED INDIRECT COSTS 102.46 106.18 SUM OF ALL LISTED COSTS 229.40 197.17 RETURN TO LABOR & MANAGEMENT 49.60 (10.97) LISTED COSTS PER BUDGET UNIT (lb) (lb) -Direct Costs 0.14 0.10 -Indirect Costs 0.11 0.11		1.50		1.50	
SUM OF LISTED DIRECT COSTS 126.94 90.99 INDIRECT (FIXED) COSTS 8.20 8.67 -Misc. Overhead 8.20 24.16 -Machinery Depreciation 22.30 24.16 -Machinery Investment 13.46 14.85 -Land Charge 58.50 58.50 SUM OF LISTED INDIRECT COSTS 102.46 106.18 SUM OF ALL LISTED COSTS 229.40 197.17 RETURN TO LABOR & MANAGEMENT 49.60 (10.97) LISTED COSTS PER BUDGET UNIT (lb) (lb) -Direct Costs 0.14 0.10 -Indirect Costs 0.11 0.11	-Operating Interest	3.16		2.26	
INDIRECT (FIXED) COSTS -Misc. Overhead 8.20 8.67 -Machinery Depreciation 22.30 24.16 -Machinery Investment 13.46 14.85 -Land Charge 58.50 58.50 SUM OF LISTED INDIRECT COSTS 102.46 106.18 SUM OF ALL LISTED COSTS 229.40 197.17 RETURN TO LABOR & MANAGEMENT 49.60 (10.97) LISTED COSTS PER BUDGET UNIT (lb) (lb) -Direct Costs 0.14 0.10 -Indirect Costs 0.11 0.11	, ,	=======	========	=======	=========
-Misc. Overhead 8.20 8.67 -Machinery Depreciation 22.30 24.16 -Machinery Investment 13.46 14.85 -Land Charge 58.50 58.50 SUM OF LISTED INDIRECT COSTS 102.46 106.18 SUM OF ALL LISTED COSTS 229.40 197.17 RETURN TO LABOR & MANAGEMENT 49.60 (10.97) LISTED COSTS PER BUDGET UNIT (lb) (lb) -Direct Costs 0.14 0.10 -Indirect Costs 0.11 0.11	SUM OF LISTED DIRECT COSTS	126.94		90.99	
-Misc. Overhead 8.20 8.67 -Machinery Depreciation 22.30 24.16 -Machinery Investment 13.46 14.85 -Land Charge 58.50 58.50 SUM OF LISTED INDIRECT COSTS 102.46 106.18 SUM OF ALL LISTED COSTS 229.40 197.17 RETURN TO LABOR & MANAGEMENT 49.60 (10.97) LISTED COSTS PER BUDGET UNIT (lb) (lb) -Direct Costs 0.14 0.10 -Indirect Costs 0.11 0.11	INDIRECT (FIXED) COSTS				
-Machinery Depreciation 22.30 24.16 -Machinery Investment 13.46 14.85 -Land Charge 58.50 58.50 SUM OF LISTED INDIRECT COSTS 102.46 106.18 SUM OF ALL LISTED COSTS 229.40 197.17 RETURN TO LABOR & MANAGEMENT 49.60 (10.97) LISTED COSTS PER BUDGET UNIT (lb) (lb) -Direct Costs 0.14 0.10 -Indirect Costs 0.11 0.11		8.20		8.67	
-Machinery Investment 13.46					
-Land Charge 58.50				_	
SUM OF LISTED INDIRECT COSTS 102.46 106.18 SUM OF ALL LISTED COSTS 229.40 197.17 RETURN TO LABOR & MANAGEMENT 49.60 (10.97) LISTED COSTS PER BUDGET UNIT -Direct Costs -Indirect Costs 0.14 - 0.10 - 0.11 -Indirect Costs 0.11 - 0.11					
SUM OF ALL LISTED COSTS 229.40 197.17 RETURN TO LABOR & MANAGEMENT 49.60 (10.97) LISTED COSTS PER BUDGET UNIT (lb) (lb) -Direct Costs 0.14 0.10 -Indirect Costs 0.11 0.11	_aa. gagc				
RETURN TO LABOR & MANAGEMENT	SUM OF LISTED INDIRECT COSTS	102.46		106.18	
LISTED COSTS PER BUDGET UNIT (lb) (lb) -Direct Costs 0.14 0.10Indirect Costs 0.11 0.11	SUM OF ALL LISTED COSTS	229.40		197.17	
-Direct Costs 0.14 0.10 -Indirect Costs 0.11 0.11	RETURN TO LABOR & MANAGEMENT	49.60		(10.97)	
-Direct Costs 0.14 0.10 -Indirect Costs 0.11 0.11	LISTED COSTS PER BUDGET UNIT	(lb)		(lb)	
-Indirect Costs 0.11 0.11	-Direct Costs	, ,		` '	
		-			
-Total Costs 0.25 0.21	-Total Costs	0.25		0.21	

Yellow Mustard notes:

Buckwheat notes:

^{*}Insecticide seed treatment for flea beetles.

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

Millet Winter Wheat

Per Acre Figures Per Acre F	igures
Market Yield 1600 54*	
Market Price 0.065 4.36	
MARKET INCOME 104.00 235.44	
DIRECT COSTS	
-Seed 6.25 9.30	
-Herbicides 3.25 23.90	
-Fungicides 0.00 9.00	
-Insecticides 0.00 0.00	
-Fertilizer 23.09 71.14	
-Crop Insurance 0.00 17.00	
-Fuel & Lubrication 14.63 11.52	
-Repairs 20.05 17.00	
-Drying 0.00 0.00	
-Miscellaneous 1.50 7.50	
-Operating Interest 1.75 4.24	
======= ======= ====== ================	=====
SUM OF LISTED DIRECT COSTS 70.53 170.60	
INDIRECT (FIXED) COSTS	
-Misc. Overhead 8.55 7.81	
-Machinery Depreciation 23.51 19.57	
-Machinery Investment 14.09 10.86	
-Land Charge 58.50 58.50	
======= ======= ====== ================	=====
SUM OF LISTED INDIRECT COSTS 104.65 96.73	
SUM OF ALL LISTED COSTS 175.18 267.34	
RETURN TO LABOR & MANAGEMENT (71.18) (31.90)	
LISTED COSTS PER BUDGET UNIT (lb) (bu)	
Direct Costs	
-bliect Costs 0.04 5.16 -Indirect Costs 0.07 1.79	
-Total Costs 0.11 4.95	

Winter Wheat notes:

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

2018 Machinery List

Machine	Purch. Price	Annual Use	Years to trade	Trade in	Deprec.	Invest.	Repairs	Ac/hr
FWA 150HP Tractor	136000	400 hr	20	42564	11.68 /hr	10.04 /hr	13.44 /hr	
FWA 190HP Tractor	178800	500 hr	15	51357	16.99 /hr	10.36 /hr	17.67 /hr	
4WD 370HP Tractor	255000	500 hr	15	73227	24.24 /hr	14.77 /hr	14.40 /hr	
SP Combine (base unit)	290000	250 hr	12	70023	73.33 /hr	32.40 /hr	45.70 /hr	
Tandem Truck (used)	39200	150 hr	15	12500	11.87 /hr	7.76 /hr	8.04 /hr	
Semi & Trailer (used)	46000	150 hr	10	13100	21.93 /hr	8.87 /hr	9.93 /hr	
Pick-up Truck	33000	300 hr	10	7600	8.47 /hr	3.05 /hr	3.78 /hr	
Swather 30 ft	31100	1000 ac	20	7354	1.19 /ac	0.86 /ac	0.50 /ac	13.1
Sprayer 90 ft	39400	5000 ac	10	19574	0.40 /ac	0.27 /ac	0.50 /ac	42.5
Chisel Plow 38 ft	45500	3000 ac	15	26571	0.42 /ac	0.54 /ac	1.01 /ac	19.6
Field Cultivator 48 ft	52500	3000 ac	15	30693	0.49 /ac	0.62 /ac	0.92 /ac	24.7
Tandem Disk 28 ft	34800	800 ac	20	9976	1.55 /ac	1.26 /ac	0.88 /ac	13.6
Heavy Harrow 70 ft	31500	2000 ac	20	18372	0.33 /ac	0.56 /ac	0.35 /ac	39.7
Air Seeder 40 ft	183500	2400 ac	10	93777	3.73 /ac	2.59 /ac	6.35 /ac	17.0
Planter 16-30	114500	1400 ac	15	47571	3.19 /ac	2.61 /ac	4.74 /ac	14.2
Corn head 8R w/chopper	82500	800 ac	12	23629	6.12 /ac	2.98 /ac	1.91 /ac	6.8
Grain head w/pu	18700	1200 ac	12	5359	0.92 /ac	0.45 /ac	0.29 /ac	10.2
Grain str. cut 35 ft	30800	1000 ac	15	6416	1.62 /ac	0.84 /ac	0.41 /ac	11.9
Head w/sunf pans	37100	600 ac	20	3883	2.76 /ac	1.53 /ac	0.49 /ac	11.9
Flex head 35 ft	45100	1000 ac	20	4289	2.04 /ac	1.11 /ac	0.60 /ac	11.9
Rock picker	22600	50 hr	20	7231	0.51 /ac	0.45 /ac	0.34 /ac	29.1
Grain Cart	36600	100 hr	20	6200	15.20 /hr	9.63 /hr	8.60 /hr	
Grain auger	13500	50 hr	20	780	12.72 /hr	6.43 /hr	5.00 /hr	

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