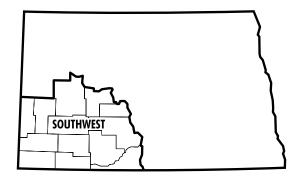


December 2017

Projected 2018 Crop Budgets



South West North Dakota

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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.

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 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 - 56 lb

Phosphorus - 10 ppm

Potassium - 356 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. 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 Oats 6.50/bu .42/lb Lentils Mustard 2.00/lb Safflower .60/lb Buckwheat .45/lb Millet .25/lb Small Chickpeas .80/lb Winter Wheat 7.75/bu Rve 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 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.

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	40		39	
Market Price	5.58		6.21*	
MARKET INCOME	223.20		242.19	
DIRECT COSTS				
-Seed	15.00		22.75	
-Herbicides	25.20		25.20	
-Fungicides**	5.00		5.00	
-Insecticides***	0.00		0.00	
-Fertilizer	35.72		34.31	
-Crop Insurance	10.60		13.10	
-Fuel & Lubrication	10.20		10.15	
-Repairs	15.79		15.76	
-Drying	0.00		0.00	
-Miscellaneous	7.50		7.50	
-Operating Interest	3.19		3.41	
	======	=========	=======	========
SUM OF LISTED DIRECT COSTS	128.20	<u></u>	137.18	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	7.48		7.46	
-Machinery Depreciation	18.56		18.51	
-Machinery Investment	10.24		10.22	
-Land Charge	38.50		38.50	
	======	=======================================	=======	========
SUM OF LISTED INDIRECT COSTS	74.78		74.68	
SUM OF ALL LISTED COSTS	202.98		211.87	
RETURN TO LABOR & MANAGEMENT	20.22		30.32	
LISTED COSTS PER BUDGET UNIT	(bu)		(bu)	
-Direct Costs	3.20		3.52	
-Indirect Costs	1.87	-	1.91	
-Total Costs	5.07	-	5.43	-
	0.07		50	

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 warranted 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
Market Yield Market Price	56 3.54*		92 3.25	
MARKET INCOME	198.24		299.00	
DIRECT COSTS				
-Seed	10.80		60.95*	
-Herbicides	23.70		20.00	
-Fungicides	5.00**		0.00	
-Insecticides	0.00		0.00	
-Fertilizer	27.98		44.82	
-Crop Insurance	13.50		18.50**	
-Fuel & Lubrication	10.97		14.12	
-Repairs	16.24		19.35	
-Drying	0.00		16.56	
-Miscellaneous	7.50		7.50	
-Operating Interest	2.95		5.15	
1 3	======		=======	
SUM OF LISTED DIRECT COSTS	118.64		206.96	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	7.77		9.71	
 -Machinery Depreciation 	19.38		29.47	-
-Machinery Investment	10.68		16.12	
-Land Charge	38.50		38.50	
	======	=========	======	=======================================
SUM OF LISTED INDIRECT COSTS	76.33		93.80	
SUM OF ALL LISTED COSTS	194.97		300.75	
RETURN TO LABOR & MANAGEMENT	3.27		(1.75)	
LISTED COSTS PER BUDGET UNIT	(bu)		(bu)	
-Direct Costs	2.12		2.25	
-Indirect Costs	1.36		1.02	
-Total Costs	3.48		3.27	
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Barley notes:

Corn notes:

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

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

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

^{**}Crop insurance is only available in Billings, Slope and Bowman counties by written agreement.

Soybeans

Oil Sunflower

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	28		1520	
Market Price	8.70		0.168	
MARKET INCOME	243.60		255.36	
DIRECT COSTS				
-Seed	65.75*		35.25	
-Herbicides	20.00		33.20	
-Fungicides	0.00		0.00*	
-Insecticides	0.00		5.00**	
-Fertilizer	2.18		22.55	
-Crop Insurance	14.30**		15.60	
-Fuel & Lubrication	10.13		10.96	
-Repairs	16.10		16.92	
-Drying	0.00		4.56	
-Miscellaneous	5.00		15.50	
-Operating Interest	3.40		4.07	
	======	=========	======	========
SUM OF LISTED DIRECT COSTS	136.86		163.61	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	7.56		8.09	
-Machinery Depreciation	19.63		21.31	
-Machinery Investment	10.92		12.01	
-Land Charge	38.50		38.50	
g.	=======		=======	
SUM OF LISTED INDIRECT COSTS	76.61		79.91	
SUM OF ALL LISTED COSTS	213.47		243.52	
RETURN TO LABOR & MANAGEMENT	30.13		11.84	
LISTED COSTS PER BUDGET UNIT	(bu)		(lb)	
-Direct Costs	4.89		0.11	
-Indirect Costs	2.74		0.05	
-Total Costs	7.62		0.16	
10101 00010	7.02		0.10	

Soybean notes:

Oil Sunflower notes:

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

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

^{*}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	1440		1690	
Market Price	0.225		0.171	
MARKET INCOME	324.00		288.99	
DIRECT COSTS				
-Seed	56.70		57.00	
-Herbicides	35.30		22.50	
-Fungicides	0.00*		0.00*	
-Insecticides	10.00**		0.00	
-Fertilizer	20.28		51.42	
-Crop Insurance	25.80		14.30	
-Fuel & Lubrication	10.84		10.88	
-Repairs	16.85		16.99	
-Drying	4.32		0.00	
-Miscellaneous	23.50		7.50	
-Operating Interest	5.19		4.61	
aharami 9 maraas	=======		=======	
SUM OF LISTED DIRECT COSTS	208.78		185.19	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	8.04		7.71	
-Machinery Depreciation	21.18		20.75	-
-Machinery Investment	11.94		11.28	
-Land Charge	38.50		38.50	
Land Onlinge	=======		======	
SUM OF LISTED INDIRECT COSTS	79.66		78.23	
SUM OF ALL LISTED COSTS	288.44		263.42	
RETURN TO LABOR & MANAGEMENT	35.56		25.57	
LISTED COSTS PER BUDGET UNIT	(lb)		(lb)	
-Direct Costs	0.14		0.11	
-Indirect Costs	0.06		0.05	
-Total Costs	0.20		0.16	

Confection Sunflower notes:

Canola 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).

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

Flax

Field Peas

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	22		34	
Market Price	9.36		6.30	
MARKET INCOME	205.92		214.20	
DIRECT COSTS				
-Seed	12.80		42.00	
-Herbicides	25.40		35.00	
-Fungicides	0.00		1.50	
-Insecticides	0.00		0.00*	
-Fertilizer	16.06		6.47	
-Crop Insurance	9.70		13.20	
-Fuel & Lubrication	10.54		10.79	
-Repairs	17.36		17.63	
-Drying	0.00		0.00	
-Miscellaneous	1.50		6.00	
-Operating Interest	2.38		3.38	
, ,	=======	=========	=======	=========
SUM OF LISTED DIRECT COSTS	95.74		135.97	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	7.72		7.82	
-Machinery Depreciation	20.70		21.08	
-Machinery Investment	11.66	-	11.57	-
-Land Charge	38.50	-	38.50	-
Lana Onango	=======		=======	
SUM OF LISTED INDIRECT COSTS	78.58		78.97	
SUM OF ALL LISTED COSTS	174.31		214.94	
RETURN TO LABOR & MANAGEMENT	31.61		(0.74)	
LISTED COSTS PER BUDGET UNIT	(bu)		(bu)	
-Direct Costs	4.35		4.00	
-Indirect Costs	3.57		2.32	-
-Total Costs	7.92	-	6.32	-
			0.02	

Field Pea notes:

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

Oats

Lentils

Market Yield 63 1360 Market Price 1.97 0.22 MARKET INCOME 124.11 299.20 DIRECT COSTS		Per Acre	Your Figures	Per Acre	Your Figures
MARKET INCOME 124.11 299.20 DIRECT COSTS -Seed 13.00 31.50 -Herbicides 10.25 34.60* -Fungicides -Fungicides 0.00 16.00** -Insecticides -Insecticides 0.00 0.00*** -Fertilizer -Fertilizer 26.34 4.31 -Fertilizer -Crop Insurance 9.60 24.50 -Full & Lubrication 12.62 12.59 -Repairs 17.95 20.86 -Drying 0.00 0.00 0.00 -Miscellaneous 7.50 9.50 -Operating Interest 2.48 3.92 SUM OF LISTED DIRECT COSTS 99.74 157.79 INDIRECT (FIXED) COSTS -Misc. Overhead 8.45 8.36 -Machinery Depreciation 21.98 25.37 -Machinery Investment 12.69 13.76 -Land Charge 38.50 SUM OF LISTED INDIRECT COSTS 81.61 85.98	Market Yield	63		1360	
DIRECT COSTS	Market Price	1.97		0.22	
-Seed 13.00 31.50 -Herbicides 10.25 34.60* -Fungicides 0.00 16.00** -Insecticides 0.00 0.00** -Insecticides 0.00 0.00** -Fertilizer 26.34 4.31 -Crop Insurance 9.60 24.50 -Fuel & Lubrication 12.62 12.59 -Repairs 17.95 20.86 -Drying 0.00 0.00 -Miscellaneous 7.50 9.50 -Operating Interest 2.48 3.92 SUM OF LISTED DIRECT COSTS 99.74 157.79 INDIRECT (FIXED) COSTS -Misc. Overhead 8.45 8.36 -Machinery Depreciation 21.98 25.37 -Machinery Investment 12.69 13.76 -Land Charge 38.50 38.50 SUM OF LISTED INDIRECT COSTS 81.61 85.98	MARKET INCOME	124.11		299.20	
-Herbicides 10.25 34.60* -Fungicides 0.00 16.00** -Insecticides 0.00 0.00*** -Fertilizer 26.34 4.31Crop Insurance 9.60 24.50Fuel & Lubrication 12.62 12.59Repairs 17.95 20.86Drying 0.00 0.00Miscellaneous 7.50 9.50Operating Interest 2.48 3.92 - SUM OF LISTED DIRECT COSTS 99.74 157.79 INDIRECT (FIXED) COSTSMisc. Overhead 8.45 8.36Machinery Depreciation 21.98 25.37Machinery Investment 12.69 13.76Land Charge 38.50 38.50 - SUM OF LISTED INDIRECT COSTS 81.61 85.98	DIRECT COSTS				
-Fungicides 0.00 16.00** -Insecticides 0.00 0.00*** -Fertilizer 26.34 4.31 -Crop Insurance 9.60 24.50 -Fuel & Lubrication 12.62 12.59 -Repairs 17.95 20.86 -Drying 0.00 0.00 -Miscellaneous 7.50 9.50 -Operating Interest 2.48 3.92	-Seed	13.00		31.50	
-Fungicides 0.00 16.00** -Insecticides 0.00 0.00*** -Fertilizer 26.34 4.31 -Crop Insurance 9.60 24.50 -Fuel & Lubrication 12.62 12.59 -Repairs 17.95 20.86 -Drying 0.00 0.00 -Miscellaneous 7.50 9.50 -Operating Interest 2.48 3.92 SUM OF LISTED DIRECT COSTS 99.74 157.79 INDIRECT (FIXED) COSTS -Machinery Depreciation 21.98 25.37 -Machinery Investment 12.69 13.76 -Land Charge 38.50 38.50 SUM OF LISTED INDIRECT COSTS 81.61 85.98	-Herbicides	10.25		34.60*	
-Insecticides 0.00 0.00*** -Fertilizer 26.34 4.31Crop Insurance 9.60 24.50Fuel & Lubrication 12.62 12.59Repairs 17.95 20.86Drying 0.00 0.00Miscellaneous 7.50 9.50Operating Interest 2.48 3.92	-Fungicides	0.00		16.00**	
-Crop Insurance 9.60 24.50 -Fuel & Lubrication 12.62 12.59 -Repairs 17.95 20.86 -Drying 0.00 0.00 -Miscellaneous 7.50 9.50 -Operating Interest 2.48 3.92 SUM OF LISTED DIRECT COSTS 99.74 157.79 INDIRECT (FIXED) COSTS -Misc. Overhead 8.45 8.36 -Machinery Depreciation 21.98 25.37 -Machinery Investment 12.69 13.76 -Land Charge 38.50 38.50 SUM OF LISTED INDIRECT COSTS 81.61 85.98	•	0.00		0.00***	
-Fuel & Lubrication 12.62 12.59 -Repairs 17.95 20.86 -Drying 0.00 0.00 -Miscellaneous 7.50 9.50 -Operating Interest 2.48 3.92 SUM OF LISTED DIRECT COSTS 99.74 157.79 INDIRECT (FIXED) COSTS -Misc. Overhead 8.45 8.36 -Machinery Depreciation 21.98 25.37 -Machinery Investment 12.69 13.76 -Land Charge 38.50 38.50 SUM OF LISTED INDIRECT COSTS 81.61 85.98	-Fertilizer	26.34		4.31	
-Fuel & Lubrication 12.62 12.59 -Repairs 17.95 20.86 -Drying 0.00 0.00 -Miscellaneous 7.50 9.50 -Operating Interest 2.48 3.92 SUM OF LISTED DIRECT COSTS 99.74 157.79 INDIRECT (FIXED) COSTS -Misc. Overhead 8.45 8.36 -Machinery Depreciation 21.98 25.37 -Machinery Investment 12.69 13.76 -Land Charge 38.50 38.50 SUM OF LISTED INDIRECT COSTS 81.61 85.98	-Crop Insurance	9.60		24.50	
-Repairs 17.95 20.86 -Drying 0.00 0.00 -Miscellaneous 7.50 9.50 -Operating Interest 2.48 3.92 SUM OF LISTED DIRECT COSTS 99.74 157.79 INDIRECT (FIXED) COSTS 8.36 8.36 -Misc. Overhead 8.45 8.36 -Machinery Depreciation 21.98 25.37 -Machinery Investment 12.69 13.76 -Land Charge 38.50 38.50 SUM OF LISTED INDIRECT COSTS 81.61 85.98		12.62		12.59	
-Drying 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	-Repairs	17.95		20.86	
-Miscellaneous 7.50 9.50 9.50 9.50 9.50 9.50 9.50 9.50 9		0.00			
-Operating Interest 2.48 3.92					
SUM OF LISTED DIRECT COSTS 99.74 157.79 INDIRECT (FIXED) COSTS 8.45 8.36 -Misc. Overhead 8.45 25.37 -Machinery Depreciation 21.98 25.37 -Machinery Investment 12.69 13.76 -Land Charge 38.50 38.50 SUM OF LISTED INDIRECT COSTS 81.61 85.98	-Operating Interest				
INDIRECT (FIXED) COSTS -Misc. Overhead 8.45 8.36 -Machinery Depreciation 21.98 25.37 -Machinery Investment 12.69 13.76 -Land Charge 38.50 38.50 SUM OF LISTED INDIRECT COSTS 81.61 85.98		_			
-Misc. Overhead 8.45 8.36 -Machinery Depreciation 21.98 25.37 -Machinery Investment 12.69 13.76 -Land Charge 38.50 38.50 SUM OF LISTED INDIRECT COSTS 81.61 85.98	SUM OF LISTED DIRECT COSTS	99.74		157.79	
-Misc. Overhead 8.45 8.36 -Machinery Depreciation 21.98 25.37 -Machinery Investment 12.69 13.76 -Land Charge 38.50 38.50 SUM OF LISTED INDIRECT COSTS 81.61 85.98	INDIRECT (FIXED) COSTS				
-Machinery Depreciation 21.98 25.37 -Machinery Investment 12.69 13.76 -Land Charge 38.50 38.50 SUM OF LISTED INDIRECT COSTS 81.61 85.98		8 45		8 36	
-Machinery Investment 12.69 13.76					
-Land Charge 38.50 38.50 SUM OF LISTED INDIRECT COSTS 81.61 85.98					
SUM OF LISTED INDIRECT COSTS 81.61 85.98					
SUM OF LISTED INDIRECT COSTS 81.61 85.98	•				
SUM OF ALL LISTED COSTS 181.36 243.77					
	SUM OF ALL LISTED COSTS	181.36		243.77	
RETURN TO LABOR & MANAGEMENT (57.25) 55.43	RETURN TO LABOR & MANAGEMENT	(57.25)		55.43	
LISTED COSTS PER BUDGET UNIT (bu) (lb)	LISTED COSTS PER BUDGET UNIT	(bu)		(lb)	
-Direct Costs 1.58 0.12		` '		` '	
-Indirect Costs 1.30 0.06					
-Total Costs 2.88 0.18					

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	0.31		0.175	
MARKET INCOME	248.00		183.75	
DIRECT COSTS				
-Seed	20.00		10.80	·
-Herbicides	19.70		21.60	
-Fungicides	0.00		18.00*	
-Insecticides	0.00		0.00	
-Fertilizer	10.12		9.99	
-Crop Insurance	22.90*		16.70	
-Fuel & Lubrication	10.53		9.52	
-Repairs	17.30		16.08	·
-Drying	0.00		0.00	
-Miscellaneous	7.50		7.50	
-Operating Interest	2.76		2.81	
	======	========	=======	==========
SUM OF LISTED DIRECT COSTS	110.80		113.00	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	7.77		7.34	
-Machinery Depreciation	20.05		18.26	
-Machinery Investment	12.08	-	10.20	-
-Land Charge	38.50		38.50	-
Land Onlings	=======		=======	
SUM OF LISTED INDIRECT COSTS	78.40		74.29	
SUM OF ALL LISTED COSTS	189.20		187.29	
RETURN TO LABOR & MANAGEMENT	58.80		(3.54)	
LISTED COSTS PER BUDGET UNIT -Direct Costs -Indirect Costs	(lb) 0.14 0.10		(lb) 0.11 0.07	
-Total Costs	0.24		0.18	

Yellow Mustard notes:

Safflower notes:

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

^{*}Fungicide for alternaria leaf spot.

Buckwheat

Millet

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	850		1400	
Market Price	0.199		0.065	
MARKET INCOME	169.15		91.00	
DIRECT COSTS				
-Seed	22.50		6.25	
-Herbicides	17.10		9.25	
-Fungicides	0.00		0.00	
-Insecticides	0.00		0.00	
-Fertilizer	4.51		7.29	
-Crop Insurance	11.10*		0.00	
-Fuel & Lubrication	10.18		10.92	
-Repairs	16.60		16.98	
-Drying	0.00		0.00	
-Miscellaneous	1.50		7.50	
-Operating Interest	2.13		1.48	
· · · · ·	======	==========	======	
SUM OF LISTED DIRECT COSTS	85.62		59.68	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	7.60		7.81	
-Machinery Depreciation	19.48		20.18	
-Machinery Investment	11.35		11.74	
-Land Charge	38.50		38.50	
	=======	========	=======	========
SUM OF LISTED INDIRECT COSTS	76.92		78.22	
SUM OF ALL LISTED COSTS	162.54		137.90	
RETURN TO LABOR & MANAGEMENT	6.61		(46.90)	
LISTED COSTS PER BUDGET UNIT	(lb)		(lb)	
-Direct Costs	0.10		0.04	
-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.

Small Chickpea* Winter Wheat

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	1400		44*	
Market Price	0.27		4.27	
MARKET INCOME	378.00		187.88	
DIRECT COSTS				
-Seed	96.00		7.75	
-Herbicides	35.40		22.40	
-Fungicides	36.00**		9.00	- <u></u>
-Insecticides	0.00		0.00	
-Fertilizer	6.62		41.36	
-Crop Insurance	22.40		11.10	
-Fuel & Lubrication	12.98		10.22	
-Repairs	21.69		15.93	
-Drying	0.00		0.00	
-Miscellaneous	8.50		7.50	
-Operating Interest	6.11		3.19	
	======	========	=======	========
SUM OF LISTED DIRECT COSTS	245.71		128.46	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	8.52		7.47	
-Machinery Depreciation	26.07		18.52	
-Machinery Investment	14.27		10.06	
-Land Charge	38.50		38.50	
	=======	========	=======	=========
SUM OF LISTED INDIRECT COSTS	87.36	·	74.55	
SUM OF ALL LISTED COSTS	333.06		203.00	
RETURN TO LABOR & MANAGEMENT	44.94		(15.12)	
LISTED COSTS PER BUDGET UNIT	(lb)		(bu)	
-Direct Costs	0.18		2.92	
-Indirect Costs	0.06		1.69	
-Total Costs	0.24		4.61	

Small Chickpea notes:

Winter Wheat notes:

^{*}A kabula variety with medium seed size, about 7-8mm, which has some ascochyta resistance.

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

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

Rye

	Per Acre	Your Figures
Market Yield	40	
Market Price	4.23	
MARKET INCOME	169.20	
DIRECT COSTS		
-Seed	9.30	
-Herbicides	6.50	
-Fungicides	0.00	
-Insecticides	0.00	
-Fertilizer	35.72	
-Crop Insurance	11.60	
-Fuel & Lubrication	9.83	
-Repairs	14.97	
-Drying	0.00	
-Miscellaneous	7.50	
-Operating Interest	2.43	
- Paraming mission	=======	
SUM OF LISTED DIRECT COSTS	97.86	
INDIRECT (FIXED) COSTS		
-Misc. Overhead	7.33	
-Machinery Depreciation	17.89	-
-Machinery Investment	9.74	-
-Land Charge	38.50	-
zana ona.go	=======	
SUM OF LISTED INDIRECT COSTS	73.46	
SUM OF ALL LISTED COSTS	171.32	
RETURN TO LABOR & MANAGEMENT	(2.12)	
LISTED COSTS PER BUDGET UNIT	(bu)	
-Direct Costs	(bu) 2.45	
-Indirect Costs	1.84	
-Total Costs	4.28	
- IOIAI 00313	4.20	

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
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 12-30	68700	800 ac	20	22870	2.86 /ac	2.58 /ac	3.80 /ac	10.6
Corn head	82500	800 ac	12	23629	6.12 /ac	2.98 /ac	1.91 /ac	6.8
Grain head w/pu	18700	800 ac	20	1807	1.05 /ac	0.58 /ac	0.29 /ac	10.2
Grain str. cut 35 ft	30800	2000 ac	8	12797	1.12 /ac	0.49 /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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