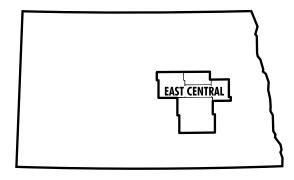


February 2022

## Projected 2022 Crop Budgets



# **East Central North Dakota**

Ron Haugen, Farm Management Specialist

Note: This region consists of five counties: Eddy, Foster, Griggs, Stutsman and Wells.

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

ore

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.

**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 17.00/bu
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 Conf. Sunflower 2.75/thou.kern.

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

#### **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	55		55	
Market Price	7.57		9.06*	
MARKET REVENUE	416.35		498.30	
DIRECT COSTS				
-Seed	29.75		33.25	
-Herbicides	31.50		31.50	
-Fungicides**	17.00		17.00	
-Insecticides***	0.00		0.00	
-Fertilizer	127.19		127.19	
-Crop Insurance	7.50		9.50	
-Fuel & Lubrication	19.04		19.04	
-Repairs	20.65		20.65	
-Drying	0.00		0.00	
-Miscellaneous	1.50		1.50	
-Operating Interest	5.72		5.84	
- Paraming minoresi	=======		=======	==========
SUM OF LISTED DIRECT COSTS	259.85		265.47	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	8.78		8.78	
-Machinery Depreciation	23.87		23.87	
-Machinery Investment	14.00		14.00	
-Land Charge	67.00		67.00	
Land Onlings	=======		======	
SUM OF LISTED INDIRECT COSTS				
COM OF EIGHED HADINEOF COOLS	11365		113 65	
	113.65		113.65	
SUM OF ALL LISTED COSTS				
SUM OF ALL LISTED COSTS	373.50		113.65 379.12	
	373.50		379.12	
SUM OF ALL LISTED COSTS RETURN TO LABOR & MANAGEMENT				
RETURN TO LABOR & MANAGEMENT	373.50 42.85		379.12 119.18	
RETURN TO LABOR & MANAGEMENT LISTED COSTS PER BUDGET UNIT	373.50 42.85 (bu):		379.12 119.18 (bu):	
RETURN TO LABOR & MANAGEMENT LISTED COSTS PER BUDGET UNIT -Direct Costs	373.50 42.85 (bu): 4.72		379.12 119.18 (bu): 4.83	
RETURN TO LABOR & MANAGEMENT LISTED COSTS PER BUDGET UNIT	373.50 42.85 (bu):		379.12 119.18 (bu):	

#### Wheat notes:

<sup>\*</sup>Durum price is for milling quality. There is high risk of lower quality and lower price.

<sup>\*\*</sup>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).

<sup>\*\*\*</sup>Cereal grain aphid insecticide would cost about \$4.

## Malting Barley Corn Grain

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	72		141	
Market Price	5.93*		4.45	
MARKET REVENUE	426.96		627.45	
DIRECT COSTS				
-Seed	22.75		84.74*	
-Herbicides	21.70		51.30	
-Fungicides	17.00**		0.00	
-Insecticides	0.00		0.00	
-Fertilizer	91.14		180.40	
-Crop Insurance	5.00		11.50	
-Fuel & Lubrication	19.98		29.16	
-Repairs	20.88		27.94	
-Drying	0.00		24.84	
-Miscellaneous	1.50		1.50	
-Operating Interest	4.50		9.26	
	======	========	======	=========
SUM OF LISTED DIRECT COSTS	204.45		420.64	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	9.16		12.34	
-Machinery Depreciation	25.13		40.80	
-Machinery Investment	14.70		23.19	
-Land Charge	67.00		67.00	<u> </u>
	=======	========	======	========
SUM OF LISTED INDIRECT COSTS	115.99		143.33	
SUM OF ALL LISTED COSTS	320.44		563.97	
	0_0		000.07	
RETURN TO LABOR & MANAGEMENT	106.52		63.48	
LISTED COSTS PER BUDGET UNIT	(bu):		(bu):	
-Direct Costs	2.84		2.98	
-Indirect Costs	1.61		1.02	
-Total Costs	4.45		4.00	

#### Barley notes:

#### Corn notes

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

<sup>\*</sup>There is risk of not making malting barley quality. Use \$4.00 for feed barley.

<sup>\*\*</sup>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).

## **Soybeans**

## **Drybeans**

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	34		1610	
Market Price	11.50		0.33	
MARKET REVENUE	391.00		531.30	
DIRECT COSTS				
-Seed	65.80*		61.88	
-Herbicides	56.00		46.90*	
-Fungicides	0.00		20.00**	
-Insecticides	4.00**		0.00	
-Fertilizer	11.88		31.17	
-Crop Insurance	5.50		10.50	
-Fuel & Lubrication	16.16		21.04	
-Repairs	19.49		23.96	
-Drying	0.00		0.00	
-Miscellaneous	5.00		13.50	
-Operating Interest	4.14		5.15	
, ,	======		=======	
SUM OF LISTED DIRECT COSTS	187.97		234.10	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	8.40		9.43	
-Machinery Depreciation	23.26		29.21	
-Machinery Investment	13.47		17.17	
-Land Charge	67.00		67.00	
g	=======		======	
SUM OF LISTED INDIRECT COSTS	112.13		122.81	
COM OF EIGHED HADRIEGT COOTS	112.10		122.01	
SUM OF ALL LISTED COSTS	300.10		356.91	
RETURN TO LABOR & MANAGEMENT	90.90		174.39	
LISTED COSTS PER BUDGET UNIT	(bu):		(lb):	
-Direct Costs	5.53		0.145	
-Indirect Costs	3.30		0.076	
-Total Costs	8.83		0.222	
. 3141 00010	0.00		V	

## Soybean notes:

## Drybean notes:

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

<sup>\*\*</sup>Insecticide for soybean aphid, spider mite or foliar-feeding caterpillars.

<sup>\*</sup>Includes dessicant prior to straight cutting.

<sup>\*\*</sup>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
Market Yield	1900		1460	
Market Price	0.253		0.354	
MARKET REVENUE	490.70		516.84	
DIRECT COSTS				
-Seed	34.10		52.25	
-Herbicides	36.00		38.90	
-Fungicides	0.00*		0.00*	
-Insecticides	5.00**		10.00**	
-Fertilizer	70.79		40.90	
-Crop Insurance	9.50		15.00	
-Fuel & Lubrication	20.16		19.27	
-Repairs	21.05		20.65	
-Drying	5.49		4.05	
-Miscellaneous	10.00		18.50	
-Operating Interest	4.77		4.94	
	=======	========	=======	=========
SUM OF LISTED DIRECT COSTS	216.86		224.46	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	9.51	<del></del> _	9.25	·———
-Machinery Depreciation	26.51		25.74	
-Machinery Investment	16.29		15.90	·
-Land Charge	67.00	<del></del> _	67.00	·———
	=======	========	======	
SUM OF LISTED INDIRECT COSTS	119.31		117.89	
SUM OF ALL LISTED COSTS	336.17		342.35	
RETURN TO LABOR & MANAGEMENT	144.53		174.49	
LISTED COSTS PER BUDGET UNIT	(lb):		(lb):	
-Direct Costs	0.114		0.154	
-Indirect Costs	0.063		0.081	
-Total Costs	0.177		0.234	

#### Oil Sunflower notes:

#### Confection Sunflower notes:

<sup>\*</sup>Fungicide for rust would cost \$4 plus application.

<sup>\*\*</sup>One spraying for head feeding insects (red seed weevil, lygus bug and banded moths). Custom application cost of \$8 is under "Miscellaneous."

<sup>\*</sup>Fungicide for rust would cost \$4 plus application.

<sup>\*\*</sup>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

Market Yield       1730       18         Market Price       0.256       14.16         MARKET REVENUE       442.88       254.88         DIRECT COSTS       -Seed       62.00       27.00         -Herbicides       32.30       34.60       -Fungicides         -Fungicides       0.00*       0.00       0.00         -Insecticides       0.00       0.00       0.00         -Fertilizer       107.71       13.74       -Crop Insurance       8.00       12.00         -Fuel & Lubrication       18.40       17.97       -Repairs       20.37       21.09         -Drying       0.00       0.00       0.00         -Miscellaneous       1.50       1.50		Per Acre	Your Figures	Per Acre	Your Figures
Market Price       0.256       14.16         MARKET REVENUE       442.88       254.88         DIRECT COSTS       -Seed       62.00       27.00         -Herbicides       32.30       34.60	Market Yield	1730		18	
DIRECT COSTS         -Seed       62.00       27.00         -Herbicides       32.30       34.60         -Fungicides       0.00*       0.00         -Insecticides       0.00       0.00         -Fertilizer       107.71       13.74         -Crop Insurance       8.00       12.00         -Fuel & Lubrication       18.40       17.97         -Repairs       20.37       21.09         -Drying       0.00       0.00         -Miscellaneous       1.50       1.50					
DIRECT COSTS         -Seed       62.00       27.00         -Herbicides       32.30       34.60         -Fungicides       0.00*       0.00         -Insecticides       0.00       0.00         -Fertilizer       107.71       13.74         -Crop Insurance       8.00       12.00         -Fuel & Lubrication       18.40       17.97         -Repairs       20.37       21.09         -Drying       0.00       0.00         -Miscellaneous       1.50       1.50					
-Seed       62.00       27.00         -Herbicides       32.30       34.60         -Fungicides       0.00*       0.00         -Insecticides       0.00       0.00         -Fertilizer       107.71       13.74         -Crop Insurance       8.00       12.00         -Fuel & Lubrication       18.40       17.97         -Repairs       20.37       21.09         -Drying       0.00       0.00         -Miscellaneous       1.50       1.50	MARKET REVENUE	442.88		254.88	
-Seed       62.00       27.00         -Herbicides       32.30       34.60         -Fungicides       0.00*       0.00         -Insecticides       0.00       0.00         -Fertilizer       107.71       13.74         -Crop Insurance       8.00       12.00         -Fuel & Lubrication       18.40       17.97         -Repairs       20.37       21.09         -Drying       0.00       0.00         -Miscellaneous       1.50       1.50					
-Herbicides       32.30       34.60         -Fungicides       0.00*       0.00         -Insecticides       0.00       0.00         -Fertilizer       107.71       13.74         -Crop Insurance       8.00       12.00         -Fuel & Lubrication       18.40       17.97         -Repairs       20.37       21.09         -Drying       0.00       0.00         -Miscellaneous       1.50       1.50					
-Fungicides       0.00*       0.00         -Insecticides       0.00       0.00         -Fertilizer       107.71       13.74         -Crop Insurance       8.00       12.00         -Fuel & Lubrication       18.40       17.97         -Repairs       20.37       21.09         -Drying       0.00       0.00         -Miscellaneous       1.50       1.50					
-Insecticides       0.00       0.00         -Fertilizer       107.71       13.74         -Crop Insurance       8.00       12.00         -Fuel & Lubrication       18.40       17.97         -Repairs       20.37       21.09         -Drying       0.00       0.00         -Miscellaneous       1.50       1.50					
-Fertilizer       107.71       13.74         -Crop Insurance       8.00       12.00         -Fuel & Lubrication       18.40       17.97         -Repairs       20.37       21.09         -Drying       0.00       0.00         -Miscellaneous       1.50       1.50	<del>_</del>				
-Crop Insurance       8.00       12.00         -Fuel & Lubrication       18.40       17.97         -Repairs       20.37       21.09         -Drying       0.00       0.00         -Miscellaneous       1.50       1.50		0.00		0.00	
-Fuel & Lubrication       18.40       17.97         -Repairs       20.37       21.09         -Drying       0.00       0.00         -Miscellaneous       1.50       1.50	-Fertilizer	107.71	- <u></u> -	13.74	·
-Repairs       20.37       21.09         -Drying       0.00       0.00         -Miscellaneous       1.50       1.50	-Crop Insurance	8.00		12.00	
-Drying 0.00 0.00 0.00 -Miscellaneous 1.50 1.50	-Fuel & Lubrication	18.40		17.97	
-Drying 0.00 0.00 -Miscellaneous 1.50 1.50	-Repairs	20.37		21.09	
-Miscellaneous 1.50 1.50	·	0.00		0.00	
		1.50		1.50	
-Operating Interest 5.63 2.88	-Operating Interest	5.63		2.88	
=======================================	, ,	=======		=======	
SUM OF LISTED DIRECT COSTS 255.91 130.78	SUM OF LISTED DIRECT COSTS	255.91		130.78	
INDIRECT (FIXED) COSTS	INDIRECT (FIXED) COSTS				
-Misc. Overhead 8.54 8.56	-Misc. Overhead	8.54		8.56	
-Machinery Depreciation 24.46 24.56	-Machinery Depreciation	24.46		24.56	
-Machinery Investment 13.99 14.56		13.99		14.56	
-Land Charge 67.00 67.00					
================================					
SUM OF LISTED INDIRECT COSTS 113.99 114.68	SUM OF LISTED INDIRECT COSTS			114.68	
SUM OF ALL LISTED COSTS 369.90 245.46	SUM OF ALL LISTED COSTS	369.90		245.46	
RETURN TO LABOR & MANAGEMENT 72.98 9.42	RETURN TO LABOR & MANAGEMENT	72.98		9.42	
LISTED COSTS PER BUDGET UNIT (lb): (bu):	LISTED COSTS PER BUDGET UNIT	(lb):		(bu):	
-Direct Costs 0.148 7.27	-Direct Costs	0.148		7.27	
-Indirect Costs 0.066 6.37	-Indirect Costs	0.066		6.37	
-Total Costs 0.214 13.64	-Total Costs	0.214		13.64	

## Canola notes:

<sup>\*</sup>Fungicide for white mold would cost about \$18 plus application.

## **Field Peas**

## **Oats**

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	33		82	
Market Price	9.00		3.44	
MARKET REVENUE	297.00		282.08	
DIRECT COSTS				
-Seed	60.00		20.00	
-Herbicides	42.00		5.90	
-Fungicides	1.50		0.00	
-Insecticides	0.00*		0.00	
-Fertilizer	13.49		88.03	
-Crop Insurance	6.00		12.00	
-Fuel & Lubrication	18.87		22.41	
-Repairs	21.75		22.47	
-Drying	0.00		0.00	
-Miscellaneous	9.50		1.50	
-Operating Interest	3.90		3.88	
	=======	========	=======	========
SUM OF LISTED DIRECT COSTS	177.01		176.19	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	8.83		9.73	
-Machinery Depreciation	25.99		27.48	
-Machinery Investment	14.94		16.23	
-Land Charge	67.00		67.00	
-Land Gharge	67.00		67.00 ======	
SUM OF LISTED INDIRECT COSTS	116.76		120.44	
SUM OF ALL LISTED COSTS	293.77		296.63	
SUM OF ALL LISTED COSTS	293.77		296.63	
RETURN TO LABOR & MANAGEMENT	3.23		(14.55)	
LISTED COSTS PER BUDGET UNIT	(bu):		(bu):	
-Direct Costs	5.36		2.15	
-Indirect Costs	3.54		1.47	
-Total Costs	8.90		3.62	

## Field Pea notes:

<sup>\*</sup>Foliar insecticide for cutworms and/or pea aphids would cost about \$4 per acre plus application.

## Yellow Mustard Buckwheat

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	850		950	
Market Price	0.45		0.314	
MARKET REVENUE	382.50		298.30	
DIRECT COSTS				
-Seed	12.60		20.50	
-Herbicides	21.00		13.00	
-Fungicides	0.00		0.00	
-Insecticides	6.00*		0.00	
-Fertilizer	19.35		10.55	
-Crop Insurance	0.00**		9.50*	
-Fuel & Lubrication	17.28		17.53	
-Repairs	20.17		20.30	
-Drying	0.00		0.00	
-Miscellaneous	1.50		1.50	
-Operating Interest	2.20		2.09	
operaning innovers	=======		=======	
SUM OF LISTED DIRECT COSTS	100.10		94.97	
			3 <del>4</del> .31	
	100.10		34.97	
	100.10		94.97	
INDIRECT (FIXED) COSTS				
INDIRECT (FIXED) COSTS -Misc. Overhead	8.40		8.50	
INDIRECT (FIXED) COSTS -Misc. Overhead -Machinery Depreciation	8.40 23.43		8.50 23.68	
INDIRECT (FIXED) COSTS -Misc. Overhead -Machinery Depreciation -Machinery Investment	8.40 23.43 14.13		8.50 23.68 14.25	
INDIRECT (FIXED) COSTS -Misc. Overhead -Machinery Depreciation	8.40 23.43 14.13 67.00		8.50 23.68 14.25 67.00	
INDIRECT (FIXED) COSTS -Misc. Overhead -Machinery Depreciation -Machinery Investment -Land Charge	8.40 23.43 14.13 67.00		8.50 23.68 14.25 67.00	
INDIRECT (FIXED) COSTS -Misc. Overhead -Machinery Depreciation -Machinery Investment	8.40 23.43 14.13 67.00		8.50 23.68 14.25 67.00	
INDIRECT (FIXED) COSTS -Misc. Overhead -Machinery Depreciation -Machinery Investment -Land Charge  SUM OF LISTED INDIRECT COSTS	8.40 23.43 14.13 67.00 ===== 112.96		8.50 23.68 14.25 67.00 ===== 113.43	
INDIRECT (FIXED) COSTS -Misc. Overhead -Machinery Depreciation -Machinery Investment -Land Charge	8.40 23.43 14.13 67.00		8.50 23.68 14.25 67.00	
INDIRECT (FIXED) COSTS -Misc. Overhead -Machinery Depreciation -Machinery Investment -Land Charge  SUM OF LISTED INDIRECT COSTS  SUM OF ALL LISTED COSTS	8.40 23.43 14.13 67.00 ====== 112.96 213.06		8.50 23.68 14.25 67.00 ====== 113.43 208.40	
INDIRECT (FIXED) COSTS -Misc. Overhead -Machinery Depreciation -Machinery Investment -Land Charge  SUM OF LISTED INDIRECT COSTS	8.40 23.43 14.13 67.00 ===== 112.96		8.50 23.68 14.25 67.00 ===== 113.43	
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	8.40 23.43 14.13 67.00 ====== 112.96 213.06 169.44		8.50 23.68 14.25 67.00 ====== 113.43 208.40 89.90	
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	8.40 23.43 14.13 67.00 ====== 112.96 213.06 169.44 (lb):		8.50 23.68 14.25 67.00 ====== 113.43 208.40 89.90 (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	8.40 23.43 14.13 67.00 ======= 112.96 213.06 169.44 (lb): 0.118		8.50 23.68 14.25 67.00 ====== 113.43 208.40 89.90 (lb): 0.100	
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	8.40 23.43 14.13 67.00 ====== 112.96 213.06 169.44 (lb):		8.50 23.68 14.25 67.00 ====== 113.43 208.40 89.90 (lb):	

#### Yellow Mustard notes:

#### Buckwheat notes:

<sup>\*</sup>Insecticide seed treatment for flea beetles.

<sup>\*\*</sup>Crop insurance is not available in this region.

<sup>\*</sup>Crop insurance is not available in most counties of the region.

## Millet Winter Wheat

Market Yield         1700         58*           Market Price         0.21         6.57           MARKET INCOME         357.00         381.06           DIRECT COSTS           -Seed         17.50         14.40           -Herbicides         3.70         34.30           -Fungicides         0.00         9.00           -Insecticides         0.00         9.00           -Insecticides         0.00         0.00           -Fertilizer         23.10         137.31           -Crop Insurance         0.00         700           -Fuel & Lubrication         19.34         16.51           -Repairs         21.08         18.30           -Drying         0.00         0.00           -Miscellaneous         1.50         8.25           -Operating Interest         1.94         5.51           SUM OF LISTED DIRECT COSTS         88.16         250.58           SUM OF LISTED DIRECT COSTS           -Machinery Depreciation         24.86         21.52           -Machinery Investment         14.86         11.96           -Land Charge         67.00         67.00           SUM OF ALL LISTED COSTS         203.70         <		Per Acre	Your Figures	Per Acre	Your Figures
Market Price         0.21         6.57           MARKET INCOME         357.00         381.06           DIRECT COSTS         -Seed         17.50         14.40           -Herbicides         3.70         34.30         -Insecticides           -Insecticides         0.00         9.00         -Insecticides           -Insecticides         0.00         0.00         -Insecticides           -Fertilizer         23.10         137.31         -Insecticides           -Fertilizer         23.10         137.31         -Insecticides           -Frequence         0.00         7.00         -Insecticides	Market Yield	1700		58*	
DIRECT COSTS   Seed   17.50   14.40					
DIRECT COSTS   Seed					
Seed	MARKET INCOME	357.00		381.06	
Seed	DIDEOT COOTS				
Herbicides		1750		14.40	
-Fungicides 0.00 9.00 9.00					
Insecticides					
-Fertilizer 23.10 137.31	•				
-Crop Insurance 0.00 7.00					
-Fuel & Lubrication 19.34 16.51 -Repairs 21.08 18.30 -Drying 0.00 0.00 -Miscellaneous 1.50 8.25 -Operating Interest 1.94 5.51  SUM OF LISTED DIRECT COSTS 88.16 250.58  INDIRECT (FIXED) COSTS -Misc. Overhead 8.82 8.20 -Machinery Depreciation 24.86 21.52 -Machinery Investment 14.86 11.96 -Land Charge 67.00 67.00  SUM OF LISTED INDIRECT COSTS 115.54 108.68  SUM OF ALL LISTED COSTS 203.70 359.26  RETURN TO LABOR & 153.30 21.80 MANAGEMENT  LISTED COSTS PER BUDGET UNIT (lb): (bu): -Direct Costs 0.052 4.32 -Indirect Costs 0.068 1.87					
Repairs	•				
-Drying 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.					
-Miscellaneous 1.50 8.25 -Operating Interest 1.94 5.51  SUM OF LISTED DIRECT COSTS 88.16 250.58  INDIRECT (FIXED) COSTS -Misc. Overhead 8.82 8.20 -Machinery Depreciation 24.86 21.52 -Machinery Investment 14.86 11.96 -Land Charge 67.00 67.00  SUM OF LISTED INDIRECT COSTS 115.54 108.68  SUM OF ALL LISTED COSTS 203.70 359.26  RETURN TO LABOR & 153.30 21.80  MANAGEMENT  LISTED COSTS PER BUDGET UNIT (lb): (bu): -Direct Costs 0.052 4.32 -Indirect Costs 0.068 1.87	•				
-Operating Interest 1.94 5.51					
SUM OF LISTED DIRECT COSTS       88.16       250.58         INDIRECT (FIXED) COSTS       8.82       8.20         -Misc. Overhead       8.82       8.20         -Machinery Depreciation       24.86       21.52         -Machinery Investment       14.86       11.96         -Land Charge       67.00       67.00         SUM OF LISTED INDIRECT COSTS       115.54       108.68         SUM OF ALL LISTED COSTS       203.70       359.26         RETURN TO LABOR &       153.30       21.80         MANAGEMENT       (bb):       (bu):         LISTED COSTS PER BUDGET UNIT       (lb):       (bu):         -Direct Costs       0.052       4.32         -Indirect Costs       0.068       1.87					
SUM OF LISTED DIRECT COSTS       88.16       250.58         INDIRECT (FIXED) COSTS       8.82       8.20         -Misc. Overhead       8.82       8.20         -Machinery Depreciation       24.86       21.52         -Machinery Investment       14.86       11.96         -Land Charge       67.00       67.00         SUM OF LISTED INDIRECT COSTS       115.54       108.68         SUM OF ALL LISTED COSTS       203.70       359.26         RETURN TO LABOR &       153.30       21.80         MANAGEMENT       (bu):         LISTED COSTS PER BUDGET UNIT       (lb):       (bu):         -Direct Costs       0.052       4.32         -Indirect Costs       0.068       1.87	-Operating Interest	1.94		5.51	
INDIRECT (FIXED) COSTS			========		========
-Misc. Overhead       8.82       8.20         -Machinery Depreciation       24.86       21.52         -Machinery Investment       14.86       11.96         -Land Charge       67.00       67.00         SUM OF LISTED INDIRECT COSTS       115.54       108.68         SUM OF ALL LISTED COSTS       203.70       359.26         RETURN TO LABOR &       153.30       21.80         MANAGEMENT       (bu):       -Direct Costs         -Indirect Costs       0.052       4.32         -Indirect Costs       0.068       1.87	SUM OF LISTED DIRECT COSTS	88.16		250.58	
-Misc. Overhead       8.82       8.20         -Machinery Depreciation       24.86       21.52         -Machinery Investment       14.86       11.96         -Land Charge       67.00       67.00         SUM OF LISTED INDIRECT COSTS       115.54       108.68         SUM OF ALL LISTED COSTS       203.70       359.26         RETURN TO LABOR &       153.30       21.80         MANAGEMENT       (bu):       -Direct Costs         -Indirect Costs       0.052       4.32         -Indirect Costs       0.068       1.87	INDIRECT (FIXED) COSTS				
-Machinery Depreciation 24.86 21.52		8 82		8 20	
-Machinery Investment 14.86 11.96 -Land Charge 67.00 67.00  SUM OF LISTED INDIRECT COSTS 115.54 108.68  SUM OF ALL LISTED COSTS 203.70 359.26  RETURN TO LABOR & 153.30 21.80  MANAGEMENT (Ib): (bu): -Direct Costs 0.052 4.32 -Indirect Costs 0.068 1.87					
-Land Charge 67.00 67.00				_	
SUM OF LISTED INDIRECT COSTS 115.54 108.68			-		
SUM OF LISTED INDIRECT COSTS       115.54       108.68         SUM OF ALL LISTED COSTS       203.70       359.26         RETURN TO LABOR &       153.30       21.80         MANAGEMENT       (bu):         LISTED COSTS PER BUDGET UNIT       (lb):       (bu):         -Direct Costs       0.052       4.32         -Indirect Costs       0.068       1.87	-Land Charge				
SUM OF ALL LISTED COSTS       203.70       359.26         RETURN TO LABOR & 153.30 MANAGEMENT       153.30 (bu):         LISTED COSTS PER BUDGET UNIT Officet Costs of the costs of t	SLIM OF LISTED INDIDECT COSTS				
RETURN TO LABOR & 153.30 MANAGEMENT       21.80         LISTED COSTS PER BUDGET UNIT -Direct Costs -Indirect Costs       (lb): (bu): 4.32 4.32 4.32 4.32 4.32 4.32 4.32 4.32	30M OF LISTED INDINECT COSTS	115.54		100.00	
MANAGEMENT         LISTED COSTS PER BUDGET UNIT       (lb):       (bu):         -Direct Costs       0.052       4.32         -Indirect Costs       0.068       1.87	SUM OF ALL LISTED COSTS	203.70		359.26	
MANAGEMENT         LISTED COSTS PER BUDGET UNIT       (lb):       (bu):         -Direct Costs       0.052       4.32         -Indirect Costs       0.068       1.87	DETUDN TO LABOR ®	450.00		04.00	
-Direct Costs 0.052 4.32 -Indirect Costs 0.068 1.87		153.30		21.80	
-Direct Costs 0.052 4.32 -Indirect Costs 0.068 1.87	LISTED COSTS PER BUDGET UNIT	(lb):		(bu):	
-Indirect Costs 0.068 1.87					
-Total Costs 0.120 6.19	-Total Costs	0.120		6.19	

## Winter Wheat notes:

<sup>\*</sup>Yield is per harvested acre. There is some risk of acreage abandonment in spring.

## Rye

	Per Acre	Your Figures
Market Yield	47	
Market Price	7.15	
MARKET REVENUE	336.05	
DIRECT COSTS		
-Seed	13.20	
-Herbicides	7.20	
-Fungicides	0.00	
-Insecticides	0.00	
-Fertilizer	100.21	
-Crop Insurance	14.00	
-Fuel & Lubrication	15.88	
-Repairs	17.70	
-Drying	0.00	
-Miscellaneous	8.25	
-Operating Interest	3.97	
	======	=========
SUM OF LISTED DIRECT COSTS	180.41	
INDIRECT (FIXED) COSTS		
-Misc. Overhead	8.03	
-Machinery Depreciation	20.96	
-Machinery Investment	11.80	
-Land Charge	67.00	
Zana onaigo	=======	=========
SUM OF LISTED INDIRECT COSTS	107.79	
SUM OF ALL LISTED COSTS	288.20	
RETURN TO LABOR & MANAGEMENT	47.85	
LISTED COSTS PER BUDGET UNIT	(bu):	
-Direct Costs	3.84	
-Indirect Costs	2.29	
-Total Costs	6.13	
. 3.0 000.0	0.10	

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