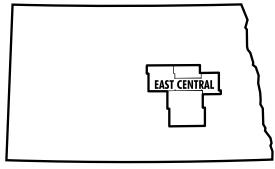
December 2012

## Projected 2013 Crop Budgets



# **East Central North Dakota**

**Andrew Swenson**, Farm Management Specialist **Ron Haugen**, Farm Management Specialist

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

The 2013 crop budgets provide an estimate of revenues and costs for selected crops. Each set of budgets are developed for a multi-county region. There is considerable variation in soil type and productivity, weather conditions, as well as management and production practices within each region. Therefore, THESE BUDGETS ARE ONLY INTENDED TO BE USED AS A GUIDE. EVERY INDIVIDUAL IS HIGHLY ENCOURAGED TO DEVELOP HIS/HER OWN BUDGETS!

The profitability budget accounts for full economic opportunity costs for land and machinery investment, regardless of farm operator equity position. The bottom line is the return to labor and management. This is the expected "payment" to the producer for the labor and managerial efforts required by the crop enterprise. Each individual must make the decision whether it is sufficient.

The budget can be changed to conform to the more common definition of accounting profit (return to unpaid labor and management, and owner equity) by replacing the machinery investment and land charge cost items with your per acre interest and rental expense of machinery and land, and real estate tax if land is owned.

The budget can be used for long run decisions if the revenues and costs are realistic for several years. (Crop prices, direct costs, and the land charge are best estimates for only the 2013 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.



North Dakota State University, Fargo, ND

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.

Currently, a Farm Bill has not been authorized. **Direct and counter-cyclical payments** have been omitted from the budgets because those payments are tied to historic farm program base acres and payment yields, not to current crop selection or production. Direct payments for this region have been \$9.75 per acre when averaged over all crop acreage. No payments from counter-cyclical type programs are expected with the price levels used in the budgets.

#### **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 2005-2011, 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 of 130% of market yield. N fertilizer can be reduced if previous crop was soybean, dry bean, field peas or lentil.

Soil test - recrop:

Nitrogen - 33 lb

Phosphorus - 8 ppm

Potassium - 280 ppm

#### Fertilizer prices:

Nitrogen - .58/lb Phosphorus - .52/lb Potassium - .48/lb

#### **Seed Prices:**

Spring Wheat 13.20/bu
Durum 12.25/bu
Barley 11.00/bu

Corn grain RR/Bt 2.90/thou.kern.
Corn grain RR 2.60/thou.kern.
Soybean RR2 .37/thou.kern.

Dry Beans .88/lb

Oil Sunflower 1.38/thou.kern. Conf. Sunflower 2.42/thou.kern.

Canola 9.40/lb Flax 18.00/bu Field Peas 14.50/bu Oats 6.50/bu Mustard 1.70/lb Buckwheat .67/lb Millet .55/lb Winter Wheat 11.25/bu Rve 9.50/bu

#### Fuel prices:

Diesel 3.40/gal Gas 3.20/gal

Lubrication charge: 15% of fuel cost

**Crop Insurance:** Coverage levels are 70% on all insurable crops. Yield Protection or APH insurance estimates are used, except for Revenue Protection on all wheat, barley, corn, soybeans, corn, canola and sunflowers.

**Miscellaneous:** soil testing, machinery rent and custom work.

**Operating Interest:** Direct costs charged 4.60% 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, \$3 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**

		Your		Your
	Per Acre	Figures	Per Acre	Figures
Market Yield	44		34	
Market Price	8.84		9.06*	
MARKET INCOME	388.96		308.04	
DIRECT COSTS				
-Seed	19.80		18.38	
-Herbicides	21.00		21.00	
-Fungicides**	5.50		5.50	
-Insecticides***	0.00		0.00	
-Fertilizer	79.71		57.25	
-Crop Insurance	20.30		16.60	
-Fuel & Lubrication	19.90		19.13	
-Repairs	17.35		17.10	
-Drying	0.00		0.00	
-Miscellaneous	1.50		1.50	
-Operating Interest	4.26		3.60	
	=======	=========	=======	=========
SUM OF LISTED DIRECT COSTS	189.32		160.05	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	6.97		6.80	
-Machinery Depreciation	20.35		19.89	
-Machinery Investment	11.81		11.56	
-Land Charge	61.70		61.70	
_	======		======	=========
SUM OF LISTED INDIRECT COSTS	100.83		99.94	
SUM OF ALL LISTED COSTS	290.15		259.99	
RETURN TO LABOR & MANAGEMENT	98.81		48.05	
LISTED COSTS PER BUDGET UNIT	(bu):		(bu):	
-Direct Costs	4.30		4.71	
-Indirect Costs	2.29		2.94	
-Total Costs	6.59		7.65	

#### 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 (\$1.50-\$2.00) and early season foliar fungicide (\$2-\$4.50). Late season fungicides are often warranted in this region. For fusarium head blight (scab) control, prothioconazole or metconazole containing products are highly recommended when a more susceptable cultivar is grown and/or when conditions are favorable for infection.

<sup>\*\*\*</sup>Cereal grain aphid insecticide would cost about \$6 per acre plus application.

## **Malting Barley**

## **Corn Grain**

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	63		113	
Market Price	6.46*		5.49	
Market Hee	0.10		0.10	
MARKET INCOME	406.98		620.37	
DIRECT COSTS				
-Seed	16.50		82.36*	
-Herbicides	17.80		17.50	
-Fungicides	5.50**		0.00	
-Insecticides	0.00		0.00	
-Fertilizer	68.51		109.69	
-Crop Insurance	16.70		37.90	
-Fuel & Lubrication	23.21		29.79	
-Repairs	19.12		22.84	- <del></del>
-Drying	0.00		22.60	- <del></del>
-Miscellaneous	1.50		1.50	- <del></del>
-Operating Interest	3.88		7.46	
	======	========	=======	=========
SUM OF LISTED DIRECT COSTS	172.72		331.63	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	7.72		9.60	
-Machinery Depreciation	23.10		32.61	
-Machinery Investment	13.70		18.60	
-Land Charge	61.70		61.70	
	======	========	======	========
SUM OF LISTED INDIRECT COSTS	106.21		122.51	<del></del>
SUM OF ALL LISTED COSTS	278.93		454.14	
RETURN TO LABOR & MANAGEMENT	128.05		166.23	
LISTED COSTS PER BUDGET UNIT	(bu):		(bu):	
-Direct Costs	2.74		2.93	
-Indirect Costs	1.69		1.08	
-Total Costs	4.43		4.02	

#### Barley notes:

#### Corn notes:

\*RR/Bt corn and RR corn without Bt Trait for corn borer refuge. Cost includes insecticide seed treatment for wireworm, rootworm, white grub and suppression of cutworm.

<sup>\*</sup>On average, about 40% of production is feed quality. Use \$4.79 estimate for feed barley price.

<sup>\*\*</sup>Includes seed treatment (\$1.50-\$2.00) and early season foliar fungicide (\$2-\$4.50).

## **Soybeans**

## **Drybeans\***

	Per Acre	Your Figures	Per Acre	Your Figures
		3		3
Market Yield	30		1420	
Market Price	12.41		0.32	
MARKET INCOME	372.30		454.40	
DIRECT COSTS				
-Seed	64.75*		44.00	
-Herbicides	17.50		44.00**	
-Fungicides	0.00		20.00***	
-Insecticides	7.00**		0.00	
-Fertilizer	8.72		45.66	
-Crop Insurance	14.00		20.50	
-Fuel & Lubrication	17.54		23.12	
-Repairs	17.33		21.45	
-Drying	0.00		0.00	
-Miscellaneous	7.25		12.25	
-Operating Interest	3.54		5.31	
	======	========	=======	========
SUM OF LISTED DIRECT COSTS	157.63		236.29	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	6.85		7.79	
-Machinery Depreciation	20.44		26.43	
-Machinery Investment	11.86		15.21	
-Land Charge	61.70		61.70	
	======	========	=======	
SUM OF LISTED INDIRECT COSTS	100.85	·	111.13	
SUM OF ALL LISTED COSTS	258.48		347.42	
RETURN TO LABOR & MANAGEMENT	113.82		106.98	
LISTED COSTS PER BUDGET UNIT	(bu):		(lb):	
-Direct Costs	5.2 <sup>5</sup>		0.17	
-Indirect Costs	3.36		0.08	
-Total Costs	8.62		0.24	

#### Soybean notes:

#### Drybean notes:

<sup>\*</sup>RR2 (glyphosate) resistant soybeans. Insecticide and fungicide seed treatment would cost about \$11 per acre.

<sup>\*\*</sup>Soybean aphid and/or spider mite insecticide

<sup>\*</sup>Acreage limitations existed under the 2008-2012 farm bill with possible forfeiture of government payments on base acres planted to drybeans. Rules for 2013 are unknown as of 12/14/2012.

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

<sup>\*\*\*</sup>Fungicide for white mold. A second treatment may be necessary. Fungicide for rust at \$2-\$4.50 plus application maybe necessary.

## Oil Sunflower

## **Confectionery Sunflower**

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	1380		1250	
Market Price	0.242		0.318	
MARKET INCOME	333.96		397.50	
DIRECT COSTS				
-Seed	30.36*		45.98*	
-Herbicides	25.90		28.00	
-Fungicides	0.00**		0.00**	
-Insecticides	7.00***		14.00***	
-Fertilizer	43.43		37.53	
-Crop Insurance	15.40		21.60	
-Fuel & Lubrication	21.35		21.04	
-Repairs	18.17		18.07	
-Drying	2.76		2.50	
-Miscellaneous	9.00		16.50	
-Operating Interest	3.99		4.72	
- 1 3	=======		=======================================	
SUM OF LISTED DIRECT COSTS	177.36		209.94	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	7.56		7.49	
-Machinery Depreciation	22.80		22.60	
-Machinery Investment	13.81		13.70	
-Land Charge	61.70		61.70	
-Land Onlinge	=======			
SUM OF LISTED INDIRECT COSTS	105.86		105.49	
SUM OF ALL LISTED COSTS	283.22		315.43	
RETURN TO LABOR & MANAGEMENT	50.74		82.07	
LISTED COSTS PER BUDGET UNIT	(lb):		(lb):	
-Direct Costs	0.13		0.17	
-Indirect Costs	0.08		0.08	
-Total Costs	0.21		0.25	
	-			

#### Oil Sunflower notes:

#### Confectionery Sunflower notes:

<sup>\*</sup>Cost includes seed treatment for control of wireworm and flea beetle.

<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 \$7.50 is under "Miscellaneous."

<sup>\*</sup>Cost includes seed treatment for control of wireworm and flea beetle.

<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 \$7 per application. Each custom application cost of \$7.50 is under "Miscellaneous."

## Canola

## Flax

		Your		Your
	Per Acre	Figures	Per Acre	Figures
Market Yield	1480		18	
Market Price	0.241		13.20	
MARKET INCOME	356.68		237.60	
DIRECT COSTS				
-Seed	47.00*		12.60	·
-Herbicides	19.00		19.00	·
-Fungicides	0.00**		0.00	·
-Insecticides	0.00		0.00	·
-Fertilizer	81.80		28.71	·
-Crop Insurance	15.40		12.00	
-Fuel & Lubrication	20.55		20.08	
-Repairs	18.23		18.56	
-Drying	0.00		0.00	
-Miscellaneous	1.50		1.50	
-Operating Interest	4.68		2.59	
· -	======	========	=======	=========
SUM OF LISTED DIRECT COSTS	208.16		115.04	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	7.16		7.14	
-Machinery Depreciation	21.70		21.49	
-Machinery Investment	12.97		13.21	
-Land Charge	61.70		61.70	
	=======	=========	=======	=========
SUM OF LISTED INDIRECT COSTS	103.53		103.54	
SUM OF ALL LISTED COSTS	311.69		218.57	
RETURN TO LABOR & MANAGEMENT	44.99		19.03	
LISTED COSTS PER BUDGET UNIT	(lb):		(bu):	
-Direct Costs	0.14		6.39	
-Indirect Costs	0.07		5.75	
-Total Costs	0.21		12.14	

#### Canola notes:

<sup>\*</sup>Cost includes insecticide seed treatment for flea beetles.

<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	35		61	
Market Price	8.52*		3.34	
MARKET INCOME	298.20		203.74	
DIRECT COSTS				
-Seed	43.50**		13.00	
-Herbicides	27.00		5.00	
-Fungicides	1.50		0.00	
-Insecticides	0.00***		0.00	
-Fertilizer	11.78		53.68	
-Crop Insurance	12.90		11.10	
-Fuel & Lubrication	20.94		23.06	
-Repairs	19.28		19.07	
-Drying	0.00		0.00	
-Miscellaneous	9.25		1.50	
-Operating Interest	3.36		2.91	
	======	=========	=======	=========
SUM OF LISTED DIRECT COSTS	149.51		129.31	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	7.28		7.68	
-Machinery Depreciation	23.02		23.01	
-Machinery Investment	13.15		13.65	
-Land Charge	61.70		61.70	
	======	=========	=======	=========
SUM OF LISTED INDIRECT COSTS	105.15		106.03	
SUM OF ALL LISTED COSTS	254.66		235.35	
RETURN TO LABOR & MANAGEMENT	43.54		(31.61)	
LISTED COSTS PER BUDGET UNIT	(bu):		(bu):	
-Direct Costs	4.27		2.12	
-Indirect Costs	3.00		1.74	
-Total Costs	7.28	-	3.86	
	0		0.00	

#### Field Pea notes:

<sup>\*</sup>Yellow pea food quality price. Use \$10 for green pea food quality and about \$6.50 for feed quality peas.

<sup>\*\*</sup>Yellow pea seed cost, use \$54 cost per acre for green pea seed.

<sup>\*\*\*</sup>Insecticide treatment for cutworms and/or pea aphids would cost about \$5 per acre plus application.

## Yellow Mustard Buckwheat

	Per Acre	Your Figures	Per Acre	Your Figures
Market Yield	900		950	
Market Price	0.394		0.284	
MARKET INCOME	354.60		269.80	
DIRECT COSTS				
-Seed	20.40		33.50	
-Herbicides	13.00		11.00	
-Fungicides	0.00		0.00	
-Insecticides	6.00*		0.00	
-Fertilizer	36.16		22.47	
-Crop Insurance	0.00**		15.00*	
-Fuel & Lubrication	18.60		18.85	
-Repairs	17.59		17.68	
-Drying	0.00		0.00	
-Miscellaneous	1.50		1.50	
-Operating Interest	2.60		2.76	
	======	========	=======	=========
SUM OF LISTED DIRECT COSTS	115.85		122.76	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	6.86		6.93	
-Machinery Depreciation	20.55		20.73	
-Machinery Investment	12.35		12.44	
-Land Charge	61.70		61.70	
SUM OF LISTED INDIRECT COSTS	101.46		101.80	
SUM OF ALL LISTED COSTS	217.31		224.56	
RETURN TO LABOR & MANAGEMENT	137.29		45.24	
LISTED COSTS PER BUDGET UNIT	(lb):		(lb):	
-Direct Costs	0.13		0.13	
-Indirect Costs	0.11		0.11	
-Total Costs	0.24		0.24	

#### Yellow Mustard notes:

#### Buckwheat notes:

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

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

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

## Millet Winter Wheat

	Per Acre	Your Figures	Per Acre	Your Figures
		Ü		J
Market Yield	1700		49*	
Market Price	0.185		8.08	
MARKET INCOME	314.50		395.92	
DIRECT COSTS				
-Seed	13.75		11.25	
-Herbicides	3.00		22.00	
-Fungicides	0.00		9.00	
-Insecticides	0.00		0.00	
-Fertilizer	35.26		90.95	
-Crop Insurance	0.00		20.30	
-Fuel & Lubrication	20.99		17.76	
-Repairs	18.37		16.20	
-Drying	0.00		0.00	
-Miscellaneous	1.50		7.00	
-Operating Interest	2.14		4.47	
	======	========	======	=========
SUM OF LISTED DIRECT COSTS	95.01		198.93	
INDIRECT (FIXED) COSTS				
-Misc. Overhead	7.22		6.65	
-Machinery Depreciation	21.74		19.08	
-Machinery Investment	12.97	-	10.60	-
-Land Charge	61.70	-	61.70	-
Land Chargo	=======		=======	
SUM OF LISTED INDIRECT COSTS	103.64		98.04	
SUM OF ALL LISTED COSTS	198.65		296.97	
RETURN TO LABOR & MANAGEMENT	115.85		98.95	
LISTED COSTS PER BUDGET UNIT	(lb):		(bu):	
-Direct Costs	0.06		4.06	
-Indirect Costs	0.06		2.00	
-Total Costs	0.12		6.06	

Winter Wheat notes:

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

## Rye

	Your Per Acre	Figures
Market Yield	43	
Market Price	7.35	
MARKET INCOME	316.05	
DIRECT COSTS		
-Seed	11.40	
-Herbicides	5.50	
-Fungicides	0.00	
-Insecticides	0.00	
-Fertilizer	77.47	
-Crop Insurance	12.70	
-Fuel & Lubrication	17.38	
-Repairs	15.80	
-Drying	0.00	
-Miscellaneous	7.00	
-Operating Interest	3.39	
5 p 3 s 3 s 3 s 3 s 3 s 3 s 3 s 3 s 3 s 3	=======	
SUM OF LISTED DIRECT COSTS	150.63	
INDIRECT (FIXED) COSTS		
-Misc. Overhead	6.59	
-Machinery Depreciation	18.84	
-Machinery Investment	10.58	
-Land Charge	61.70	
Land Gharge	=======	
SUM OF LISTED INDIRECT COSTS	97.71	
SUM OF ALL LISTED COSTS	248.34	
RETURN TO LABOR & MANAGEMENT	67.71	
LISTED COSTS PER BUDGET UNIT -Direct Costs	(bu): 3.50	
-Indirect Costs	2.27	
-Total Costs	5.78	

notes:

## **2013 Machinery List**

Machine	Purch. Price	Annual Use	Years to trade	Trade in	Deprec.	Invest.	Repairs	Ac/hr
FWA 120HP Tractor	122500	400hr	20	37244	10.66 /hr	8.99 /hr	11.76 /hr	
FWA 180HP Tractor	166000	500hr	15	46377	15.95 /hr	9.56 /hr	15.96 /hr	
4WD 330HP Tractor	218800	500hr	15	61022	21.04 /hr	12.59 /hr	12.00 /hr	
SP Combine (base unit)	268400	250hr	12	62943	68.49 /hr	29.82 /hr	41.08 /hr	
Tandem Truck (used)	36600	150hr	15	11700	11.07 /hr	7.25 /hr	7.33 /hr	
Semi & Trailer (used)	41000	150hr	10	11800	19.47 /hr	7.92 /hr	8.93 /hr	
Pick-up Truck	28900	300hr	10	5700	7.47 /hr	2.60 /hr	3.30 /hr	
Swather 25 ft	23100	1000ac	20	5460	0.88 /ac	0.64 /ac	0.40 /ac	12.1
Sprayer 90 ft	36600	5000ac	10	18179	0.37 /ac	0.25 /ac	0.47 /ac	42.5
Chisel Plow 38 ft	40800	3000ac	15	23839	0.38 /ac	0.48 /ac	0.90 /ac	19.6
Field Cultivator 48 ft	46800	3000ac	15	27316	0.43 /ac	0.56 /ac	0.82 /ac	24.7
Tandem Disk 28 ft	32300	800ac	20	9247	1.44 /ac	1.17 /ac	0.91 /ac	12.2
Heavy Harrow 70 ft	29200	2000ac	20	17060	0.30 /ac	0.52 /ac	0.33 /ac	39.7
Air Seeder 40 ft	170400	2400ac	12	80295	3.12 /ac	2.35 /ac	5.89 /ac	17.0
Planter 16-30	106300	1400ac	15	44178	2.96 /ac	2.42 /ac	4.41 /ac	14.2
Corn head	55300	800ac	12	15834	4.10 /ac	2.00 /ac	1.28 /ac	6.8
Grain head w/pu	14700	800ac	15	3064	0.97 /ac	0.50 /ac	0.28 /ac	8.5
Grain str. cut 30 ft	24500	2000ac	8	9890	0.91 /ac	0.39 /ac	0.38 /ac	10.2
Head w/sunf pans 30 ft	29500	600ac	20	3018	2.20 /ac	1.22 /ac	0.46 /ac	10.2
Soybeans str. cut 30 ft	36300	1000ac	20	3330	1.65 /ac	0.89 /ac	0.56 /ac	10.2
Rock picker	21000	50hr	20	6712	0.48 /ac	0.42 /ac	0.31 /ac	29.1
Grain Cart	28700	100hr	20	4900	11.90 /hr	7.56 /hr	7.20 /hr	
Grain auger	12000	50hr	20	700	11.30 /hr	5.72 /hr	4.50 /hr	

### **Example Sequence of Operations**

Field operations sequence for spring wheat and durum.

OP. NO.	DESCRIPTION	(FEET) WIDTH	(MPH) SPEED	(AC/HR) Fld Cap	(\$/AC) FUEL & LUBE	(\$/AC) EST. REPAIRS
1	Field Cultivate	48	5.0	24.7	\$ 2.30	\$ 1.31
2	Pick Rocks				0.71	0.72
3	Plant	40	5.0	17.0	3.35	6.61
4	Spray (130%)	90	6.0	42.5	0.63	0.97
5	Combine	30	4.0	10.2	4.56	4.41
6	Chisel Plow	38	5.0	19.6	2.90	1.52
	Grain Cart				1.15	0.30
	Trucks*				2.21	0.83
	Grain auger (pto)				0.23	0.09
	Pickup truck alloc	cation			1.86	0.56
				Total	19.90	17.35

<sup>\*</sup> Truck costs will vary between crops.

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