

University of Nebraska - Lincoln

DigitalCommons@University of Nebraska - Lincoln

Faculty Publications: Agricultural Economics

Agricultural Economics Department

11-2015

2016 Nebraska Crop Budgets

Robert N. Klein

West Central Research, Extension Center, robert.klein@unl.edu

Roger Wilson

University of Nebraska-Lincoln, rwilson6@unl.edu

Jessica Groskopf

University of Nebraska-Lincoln, JJohnson@unl.edu

Jim Jansen

University of Nebraska-Lincoln, jjansen4@unl.edu

Follow this and additional works at: <https://digitalcommons.unl.edu/ageconfacpub>



Part of the [Agricultural Economics Commons](#)

Klein, Robert N.; Wilson, Roger; Groskopf, Jessica; and Jansen, Jim, "2016 Nebraska Crop Budgets" (2015). *Faculty Publications: Agricultural Economics*. 219.

<https://digitalcommons.unl.edu/ageconfacpub/219>

This Article is brought to you for free and open access by the Agricultural Economics Department at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in Faculty Publications: Agricultural Economics by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.

2016 Nebraska Crop Budgets

Developed and Edited by

Robert N. Klein, *Western Nebraska Extension Crops Specialist*

Roger K. Wilson, *Farm Management/Enterprise Budget Analyst*

Jessica T. Groskopf, *Extension Educator — Agricultural Economics*

Jim A. Jansen, *Extension Educator — Agricultural Economics*

Note: These budget projections were created using assumptions thought to be valid for many Nebraska producers; however, each farming operation is unique. These budgets are being released in both Adobe PDF and Excel® worksheet formats. The worksheet format allows producers to modify them to match their specific situation. The danger of releasing a tool that can subsequently be modified is that there is no way to verify whether alterations were made or unrealistic data was entered. Users of this tool are responsible for independently verifying all results prior to relying on them. Original files for these budgets are available at <http://extension.unl.edu/publications> and on <http://cropwatch.unl.edu/economics/budgets>.

Additional Resource Persons

The following individuals contributed to the budgets in their specialty areas:

Robert J. Wright, Extension Entomologist

Tamra A. Jackson-Ziems, Extension Plant Pathologist — Corn and Sorghum

Loren J. Giesler, Extension Plant Pathologist — Soybean and Turf

Stephen N. Wegulo, Extension Plant Pathologist — Wheat and Ornamental

Paul J. Jasa, Extension Biological Systems Engineer

James A. Schild, Extension Educator in Scotts Bluff and Morrill Counties

Extension is a Division of the Institute of Agriculture and Natural Resources at the University of Nebraska–Lincoln cooperating with the Counties and the United States Department of Agriculture.

University of Nebraska–Lincoln Extension educational programs abide with the nondiscrimination policies of the University of Nebraska–Lincoln and the United States Department of Agriculture.

Table of Contents

Table of Budgets	3
2016 Crop Budgeting Procedures	5
Budget Divisions.....	5
<i>Table 1.</i> Power Unit Cost Data Used for 2016 Budgets	6
<i>Table 2.</i> Machinery Cost Data Used for 2016 Budgets	6
<i>Table 3.</i> Material Prices Used for 2016 Budgets	8
Converting Energy Numbers in Budgets	10
<i>Table 4.</i> Conversion of Diesel to Electricity	10
Diesel Fuel Conversion for Center Pivots.....	10
<i>Table 5.</i> Table for adjusting the amount of diesel fuel required by center pivots for lifts and pressures other than the 125 feet of lift and 35 PSI used in the budgets. Gallons of diesel fuel required to pump an acre-inch of water at pump performance ratings of 100 percent.....	11

Table of Budgets

Crop	Page
1-Alfalfa, Fall Establishment, Dryland	12
2-Alfalfa, Roundup Ready® No-Till, Fall Establishment, Dryland	13
3-Alfalfa, Roundup Ready®, Fall Establishment, Dryland	14
4-Alfalfa, Establish Spring Seed with Herbicides, Dryland	15
5-Alfalfa, Roundup Ready®, Establish Spring Seed, Dryland	16
6-Alfalfa, Establish Spring Seed with Herbicides, Pivot Irrigated	17
7-Alfalfa, Roundup Ready®, Establish Spring Seed, Pivot Irrigated	18
8-Alfalfa, Fall Seeded with Subsequent Year Production, Gravity Irrigated, Canal	19
9-Alfalfa, Large Round Bale, Dryland	20
10-Alfalfa, Large and Small Square Bale, Pivot Irrigated	21
11-Alfalfa, Roundup Ready®, Large and Small Square Bale, Pivot Irrigated	22
12-Alfalfa, Large and Small Square Bale, Pivot Irrigated	23
13-Alfalfa, Large Square Bale, Canal Irrigated	24
14-Alfalfa, Roundup Ready®, Large Square Bale, Canal Irrigated	25
15-Corn, Conventional Tillage, Continuous, 90 bu Yield Goal, Dryland	26
16-Corn, Eastern Nebraska Conventional Tillage, Continuous, 155 bu Yield Goal, Dryland	27
17-Corn, No-Till, Bt, ECB, RW & RR2, Continuous, 125 bu Yield Goal, Dryland	28

Crop	Page
18-Corn, Eastern Nebraska, No-Till, Bt, ECB, RW & RR2, Continuous, 170 bu Yield Goal, Dryland	29
19-Corn, No-Till, SmartStax RIB Complete, Continuous, 130 bu Yield Goal, Dryland	30
20-Corn, Eastern Nebraska No-Till, SmartStax RIB Complete, Continuous, 175 bu Yield Goal, Dryland	31
21-Corn, No-Till, Bt & ECB, after Soybeans, 135 bu Yield Goal, Dryland	32
22-Corn, Eastern Nebraska No-Till, Bt & ECB, after Soybeans, 180 bu Yield Goal, Dryland	33
23-Corn, Ecofallow, Follows Wheat, Two Crops in Three Years, RR2, Bt & ECB, 125 bu Yield Goal, Dryland	34
24-Corn, Ridge Till, Bt, ECB & RW, Continuous, 230 bu Yield Goal, Gravity Irrigated	35
25-Corn, Ridge Till, SmartStax RIB Complete, Continuous, 240 bu Yield Goal, Gravity Irrigated	36
26-Corn, Panhandle Continuous, SmartStax RIB Complete, 190 bu Yield Goal, Canal Irrigated	37
27-Corn, No-Till, Bt, ECB & RW, Continuous, 240 bu Yield Goal, Pivot Irrigated	38
28-Corn, No-Till, SmartStax RIB Complete, Continuous, 250 bu Yield Goal, Pivot Irrigated	39
29-Corn, Bt, ECB & RW, Continuous, 230 bu Yield Goal, Pivot Irrigated	40
30-Corn, Panhandle, SmartStax RIB Complete, 190 bu Yield Goal, Pivot Irrigated	41
31-Corn, SmartStax RIB Complete, Continuous, 240 bu Yield Goal, Pivot Irrigated	42
32-Corn, No-Till, Bt & ECB after Beans, 240 bu Yield Goal, Pivot Irrigated	43
33-Corn, Silage, No-Till following Corn, Pivot Irrigated	44
34-Dry Beans, Reduced Till with Wheat Cover Crop after Harvest, Pivot Irrigated	45

Table of Budgets (Continued)

Crop	Page
35-Dry Beans, Conventional Tillage, Canal Irrigated	46
36-Dry Beans, Conventional Tillage Using Pumped Water, Pivot Irrigated	47
37-Dry Beans, Direct Harvest, Conventional Tillage Using Pumped Water, Pivot Irrigated	48
38-Grain Sorghum, Conventional Tillage, 105 bu Yield Goal, Dryland	49
39-Grain Sorghum, No-Till, 125 bu Yield Goal, Dryland	50
40-Grain Sorghum, Ecofallow, After Wheat, Two Crops in Three Years, 115 bu Yield Goal, Dryland	51
41-Grain Sorghum, No-Till, Limited Irrigation, 165 bu Yield Goal, Pivot Irrigated	52
42-Grass, Fall Establishment, Pivot Irrigated	53
43-Grass Hay, Large Round Bale, Dryland	54
44-Millet, Stubble Mulch Fallow, Followed by Wheat, Two Crops in Three Years, Dryland	55
45-Millet, No-Till, Dryland	56
46-Oats, No-Till, 90 bu Yield Goal, Dryland	57
47-Pasture, Grazing, Pivot Irrigated	58
48-Peas, No-Till, Dryland	59
49-Sorghum-Sudan, Annually Planted, Large Round Bale, Dryland	60
50-Soybeans, Tilled Seed Bed, Roundup Ready® after Corn, Dryland	61
51-Soybeans, No-Till, Roundup Ready® after Corn, Dryland	62
52-Soybeans, No-Till, Roundup Ready® Continuous, Dryland	63
53-Soybeans, Tilled Seedbed, Roundup Ready® after Corn, Pivot Irrigated	64
54-Soybeans, Ridge Till, Roundup Ready® after Corn, Gravity Irrigated	65

Crop	Page
55-Soybeans, No-Till 15-inch Row, Roundup Ready® after Corn, Pivot Irrigated	66
56-Soybeans, Roundup Ready®, No-Till Narrow Row, Continuous, Pivot Irrigated	67
57-Soybeans, No-Till Drilled 7.5-inch Rows, Roundup Ready® after Corn, Pivot Irrigated	68
58-Sugarbeet, Roundup Ready®, One Pass Zone-Tillage, Canal Irrigated	69
59-Sugarbeet, Roundup Ready®, Conventional Tillage, Gravity Irrigated, Canal	70
60-Sugarbeet, Roundup Ready®, One Pass Zone-Tillage, Pivot Irrigated	71
61-Sugarbeet, Roundup Ready®, Conventional Tillage, Pivot Irrigated	72
62-Sunflower, No-Till, Following Corn or Grain Sorghum, Dryland	73
63-Sunflower, Ecofallow, after Wheat, Two Crops in Three Years, Dryland	74
64-Sunflower, No-Till, Pivot Irrigated	75
65-Wheat, No-Till, Wheat after Row Crop, 50 bu Yield Goal, Dryland	76
66-Wheat, No-Till Fallow, One Crop in Two Years, 60 bu Yield Goal, Dryland	77
67-Wheat, Stubble Mulch Fallow, One Crop in Two Years, 55 bu Yield Goal, Dryland	78
68-Wheat, Clean Till Fallow, One Crop in Two Years, 50 bu Yield Goal, Dryland	79
69-Wheat, No-Till Wheat before Corn, Two Crops in Three Years, 65 bu Yield Goal, Dryland	80
70-Wheat, No-Till after Beans, 100 bu Yield Goal, Pivot Irrigated	81
71-Wheat, No-Till, in Rotation, Pivot Irrigated	82
72-Cover Crop, Conventional Tillage	83
73-Cover Crop, No-Till	84

2016 Crop Budgeting Procedures

This publication contains 73 crop production budgets for 15 crops, as well as tables for power, machinery, labor, and input costs used to develop these budgets. Each budget consists of five sections:

- Heading
- List of representative field operations
- List of materials and services used
- Operations and interest tabulations
- Overhead costs, including real estate taxes and opportunity charges

The budgets are presented in a worksheet format with a “Your Estimate” column for recording cost modifications.

Budget Divisions

The **heading** consists of the crop name, system description, and method of water application.

The **list of representative field operations** is organized in a table with columns for the operation name, quantity or number of times used with units, labor, fuel and lube, power source, and implement costs for both repairs and ownership. “Times” or “Quantity” is typically presented in acres with a decimal denoting where an operation is done on less than all of the acres or where it represents the probability of an operation being done. For those operations that are done multiple times, the number of times are listed. Swathing multiple cuttings of hay is an example. If a unit is other than “acres,” it is specified in the “Unit” column. Other units used are bushels (bu), hundredweight (cwt), tons, and acre-inches (ai).

Labor costs for each operation were calculated from machinery accomplishment rates and adjusted for additional time required for getting machinery ready, adjusting machinery, and handling fertilizer and other supplies. The estimated costs for completing these operations are multiplied by the number in the “Times” or “Quantity” column, the product of which is multiplied by the hourly wage (\$20 per hour) and the labor factor.

Fuel costs also use machinery accomplishment rates as well as estimated fuel consumption rates to determine fuel use. The fuel cost is multiplied by a lube factor of 1.15 and the price of energy which is

\$2.25 per gallon for diesel and \$0.105 per kWh for electricity. Repairs and depreciation costs were estimated using functions and factors from the *Agricultural Engineer’s Yearbook*, which is published by the American Society of Agricultural and Biological Engineers. It requires making assumptions about the size and age of the equipment, which we did. We further assumed that machinery was fully utilized.

Data used to calculate power unit costs are in *Table 1* and data used for machinery operation costs are in *Table 2*. All units are acres unless noted in footnotes.

Irrigation costs were calculated using engineering performance standards and typical water application rates, which will depend on the rainfall area. Repair and ownership costs for the power component of the irrigation system refer to the pump and power unit. Repair and ownership costs for the implement component refer to the delivery system (pipe or pivot).

The **list of materials and services** used is calculated by multiplying the application rate by the application price (*Table 3*) and then by the percent acres applied. A value less than 100 percent is used when a material or service is applied on only part of the acres or part of the time. For example, fields planted with Bt corn seed must have 20 percent of the acres planted to a refuge crop. There would be 20 percent in the column called “Percent Acres Applied” for the non-Bt seed and 80 percent for the Bt seed. Another example is when a practice is not always used. If an insecticide is used one year out of four, a “25 percent” would be entered in the column “Percent Acres Applied.” The cost for each material/service is computed by multiplying the percentage of acres by the quantity per acre and then by the price per unit. Note: All prices for materials and services in the budgets were obtained in October 2015.

The value in the “Operation Index” column in the “Materials and Services” section indicates the corresponding operation in the “Field Operations” section. Data for calculating materials cost is in *Table 3*.

The **operations and interest** tabulations are the sum of totals of the first two sections with interest calculated on the cash costs. Cash costs in interest calculations include labor, fuel, and repairs from the list of field operations and all costs from the materials and services.

Overhead costs include accounting, liability insurance, vehicle cost, and office expense. Real estate cost is calculated using values from the UNL publication *Nebraska Farm Real Estate Market Developments* published in June 2015 times an investment rate of 4 percent. Taxes on real estate are not included in interest calculations because in

Nebraska they are due at the end of the year in which they accrue and are not delinquent until May and September of the following year.

A **production cost and cash cost** per unit of production is calculated. The cost per unit of production is the sum of all costs divided by the projected yield. The cash cost per unit of production does not include machinery power and implement ownership, overhead, and real estate opportunity costs.

It should be noted that these budgets are cost estimates only and have no estimates as to profitability.

Table 1. Power Unit Cost Data Used for 2016 Budgets

<i>Name</i>	<i>List Price</i>	<i>Age</i>	<i>Total Tach</i>	<i>Est. Hours per Year</i>
Large Tractor	317,791	10	1,500	300
Medium Tractor	216,382	5	2,500	500
Combine	351,122	10	1,500	300
Electric Pump	10,500	5	2,400	800
Diesel Pump for Pivot	15,750	10	2,400	800
Diesel Pump for Pipe	15,750	10	2,400	800
Windrower	148,828	10	2,500	120

Table 2. Machinery Cost Data Used for 2016 Budgets

<i>Operation Name</i>	<i>List Price</i>	<i>Age</i>	<i>Annual Use</i>	<i>Units per Hour</i>	<i>Diesel Use per Hour</i>
Anhydrous Apply	N/A	5	500	12.0	6.36
Bale Small Square	24,555	5	1,250	4.0	3.50
Cart*	42,000	5	440,000	1,540.0	3.00
Chisel	57,470	5	2,000	11.1	8.26
Chop Stalks	19,575	5	500	12.3	5.74
Combine Corn Head	52,488	5	1,000	7.0	10.50
Combine Grain Header	32,114	5	1,000	6.5	10.50

*units are in bushels

Table 2. Machinery Cost Data Used for 2016 Budgets (Continued)

<i>Operation Name</i>	<i>List Price</i>	<i>Age</i>	<i>Annual Use</i>	<i>Units per Hour</i>	<i>Diesel Use per Hour</i>
Corrugate	30,000	5	300	7.0	4.39
Disk	44,080	5	2,000	10.9	8.29
Ditch Irrigation	N/A	5	1,000	1.8	0.00
Double Windrows	7,403	20	300	20.0	2.11
Drill	66,251	10	1,000	12.5	4.99
Drill w/Fertilizer	66,251	10	1,000	11.0	5.00
Fallow Master	57,470	5	2,000	12.5	8.62
Field Cultivation	57,470	5	2,000	15.0	8.20
Grass Drill	73,000	10	1,000	9.0	4.29
Harrow	N/A	5	1,000	18.6	2.05
Large Round Bale	41,983	5	1,000	10.0	2.88
Large Square Bale	120,658	5	1,000	16.0	6.19
Lift Beets	110,000	5	1,000	6.0	6.19
Load Large Square**	4,090	5	3,000	20.0	4.00
Move Large Round**	4,090	5	3,000	20.0	4.00
No-Till Drill	66,251	5	1,000	12.0	6.07
Pickett Windrowers	32,000	5	1,000	10.0	6.07
Pipe D 125 ft Lift***	N/A	10	2,600	2.3	3.03
Pivot D 125 ft Lift***	70,000	10	2,600	1.8	3.34
Pivot D 125 ft Lift w/fertigation***	75,000	10	2,600	1.8	3.34
Pivot E 125 ft Lift***	70,000	10	2,600	1.8	N/A
Pivot E 125 ft Lift w/fertigation***	75,000	10	2,600	1.8	N/A
Plant	72,828	5	1,000	10.0	2.73
Plant Narrow Row	72,828	5	1,000	10.0	2.58
Plant No-Till	125,418	5	1,000	10.0	3.38
Plow	15,239	5	1,000	7.5	6.00
Ridge Cultivate/Ditch	30,000	5	1,000	12.0	5.33
Ridge Cultivation	30,000	5	1,500	10.0	5.33
Ridge plant and band herbicide	77,828	5	1,500	10.0	3.41
Rod Weeder	N/A	5	1,000	13.2	5.35
Rod Weeder & Fertilizer	N/A	5	1,000	13.2	5.35
Roll	N/A	5	300	9.0	5.46
Roller Harrow	30,000	5	1,000	10.0	5.00
Rotary Hoe	25,000	5	1,000	14.7	3.67
Row Crop Cultivation	30,000	5	1,000	11.0	3.50
Seeder/Packer	62,545	5	1,000	8.0	4.29

**units are in tons

***units are in acre inches

Table 2. Machinery Cost Data Used for 2016 Budgets (Continued)

<i>Operation Name</i>	<i>List Price</i>	<i>Age</i>	<i>Annual Use</i>	<i>Units per Hour</i>	<i>Diesel Use per Hour</i>
Spray	36,000	5	2,500	25.0	2.64
Spray (Prior Year Stubble)	36,000	5	2,500	25.0	2.64
Spray Fertilizer	36,000	5	1,000	25.0	2.64
Spray Fertilizer and Herbicide	36,000	5	1,000	25.0	2.64
Spray Spring Burndown Herbicide	36,000	5	2,500	25.0	2.64
Spread Fertilizer	N/A	5	1,000	12.7	3.86
Stack Small Square**	13,000	5	1,250	10.0	2.00
Subsoil	30,000	5	500	9.0	8.25
Swath/Condition Hay	N/A	5	2,000	10.0	5.00
Till Plant Beets	48,000	5	1,000	6.0	8.25
Top Beets	50,000	5	1,000	5.8	3.50
Turn Windrows	7,403	5	1,000	12.0	2.10
Windrow Grain	N/A	5	500	10.0	5.00

**units are in tons

Table 3. Material Prices Used for 2016 Budgets

<i>Item</i>	<i>Price per Unit</i>
Additive	
UAN	\$1.65/gal
Crop Oil Concentrate	\$12.00/gal
NIS	\$22.00/gal
21-0-0-24S	\$0.35/lb

Custom	
Aerial Spray	\$9.50/acre
Spray	\$7.00/acre
Bale Large Square (1360 lb)	\$13.00/bale
Load Large Square Bales	\$2.00/bale
Dry 2 Points Removed	\$0.09/bu
Haul Grain	\$0.11/bu
Haul Dry Beans	\$0.28/cwt
Haul Millet	\$0.24/cwt
Haul Sunflowers	\$0.30/cwt
Chop, Haul, Pack Silage	\$11.00/ton
Haul & Apply Manure	\$6.00/ton
Haul Beets	\$5.00/ton

<i>Item</i>	<i>Price per Unit</i>
Fertilizer	
10-34-0	\$2.80/gal
10-34-0-1Z	\$2.85/gal
28-0-0	\$1.40/gal
46-0-0	\$0.48/lb N
82-0-0	\$0.43/lb N
32-0-0	\$0.47/lb N
32-0-0 (Applied by Pivot)	\$0.47/lb N
32-0-0 (Applied by R2)	\$0.47/lb N
11-52-0	\$0.28/lb
Uncomposted Manure	\$1.00/ton

Fungicide	
Headline AMP	\$320.00/gal
Priaxor	\$670.00/gal
Quadris	\$440.00/gal
Quilt Xcel	\$290.00/gal
Stratego YLD	\$720.00/gal
Tilt	\$105.00/gal
Copper	\$3.50/pt
Pea Seed Inoculant	\$8.00/lb

Table 3. Material Prices Used for 2016 Budgets (Continued)

<i>Item</i>	<i>Price per Unit</i>
Herbicide	
2,4-D Amine	\$15.00/gal
2,4-D Ester 4#	\$20.50/gal
AAtrex 4L	\$21.00/gal
Acuron	\$65.00/gal
Atrazine 4L	\$15.00/gal
Basagran	\$80.00/gal
Bicep II Magnum	\$50.00/gal
Buctril 4E	\$135.00/gal
Dicamba	\$75.00/gal
Distinct	\$40.00/gal
Expert	\$37.00/gal
Glyphosate w/Surf	\$16.00/gal
Gramoxone SL	\$43.00/gal
Huskie	\$120.00/gal
Landmaster BW	\$19.00/gal
Laudis	\$810.00/gal
Lumax EZ	\$80.00/gal
Outlook	\$150.00/gal
Prowl H2O	\$52.00/gal
Pursuit	\$490.00/gal
Raptor	\$610.00/gal
Roundup WeatherMax	\$38.00/gal
Rugged	\$45.00/gal
Select Max	\$110.00/gal
Sharpen	\$870.00/gal
Spartan 4F	\$750.00/gal
Vida	\$3.20/gal
Ally Extra SGW/TOTSOL	\$9.00/oz
Balance Flexx	\$6.00/oz
Peak	\$17.00/oz
Spirit	\$14.00/oz
Status	\$4.30/oz
Atrazine 90 DF	\$3.50/lb
Authority First DF	\$95.00/lb
Valor XLT	\$92.00/lb
Velpar 75DF	\$37.00/lb
Aim 2EC	\$200.00/qt

<i>Item</i>	<i>Price per Unit</i>
Insecticide	
Asana XL	\$85.00/gal
Brigade 2EC	\$145.00/gal
Capture LFR	\$360.00/gal
Lorsban 4 E	\$55.00/gal
Lorsban Advanced	\$55.00/gal
Mustang Max EC	\$190.00/gal
Warrior II/Zeon	\$380.00/gal
Regent 4 SC	\$9.60/oz
Lorsban 15 G	\$2.50/lb

Seed	
Cover Crop	\$20.00/acre
Cover Crop Legume	\$30.00/acre
Grass Seed	\$60.00/acre
Sugar Beets RR Poncho	\$180.00/acre
Corn	\$200.00/bag
Corn Bt & ECB	\$225.00/bag
Corn Bt, ECB & RW	\$240.00/bag
Corn Bt, ECB, RW & RR2	\$270.00/bag
Corn ECB & RR2	\$255.00/bag
Corn RR2	\$240.00/bag
Corn SmartStax RIB Complete	\$305.00/bag
RR Soybeans	\$52.00/bag
RR Soybeans Treated	\$65.00/bag
RR2 Soybeans	\$55.00/bag
Oats	\$9.00/bu
Peas	\$18.00/bu
Edible Beans	\$92.00/cwt
Alfalfa RR w/Inoculant	\$9.00/lb
Alfalfa w/Inoculant	\$6.00/lb
Millet	\$0.45/lb
RR2 Soybeans Treated	\$68.00/lb
Sorghum Safened/Insect	\$3.20/lb
Sorghum Sudan	\$0.70/lb
Sorghum Sudan Brown Midrib	\$1.20/lb
Sunflower	\$1.05/lb
Wheat	\$0.12/lb
Wheat (certified and treated)	\$0.31/lb

Table 3. Material Prices Used for 2016 Budgets (Continued)

<i>Item</i>	<i>Price per Unit</i>
Other	
Electricity Fixed	\$30.00/acre
Irrigation District O&M Charge	\$30.00/acre
Twine Large Round Bales	\$0.70/bale
Twine Large Square Bales	\$1.23/bale
Twine Small Square Bales	\$0.07/bale
Fence/water Repairs	\$260.00/circle
Move Cattle	\$20.00/hour
Electricity Usage	\$0.105/kw
Rental	
Grass Drill	\$15.00/acre
Seeder-Packer	\$13.00/acre

<i>Item</i>	<i>Price per Unit</i>
Scouting	
Scouting Dry Beans	\$10.00/acre
Scouting Dryland Corn	\$7.00/acre
Scouting Dryland Soybeans	\$7.00/acre
Scouting Dryland Wheat	\$7.00/acre
Scouting Grain Sorghum	\$7.00/acre
Scouting Irrigated Corn	\$10.00/acre
Scouting Irrigated Soybeans	\$10.00/acre
Scouting Irrigated Wheat	\$10.00/acre
Scouting Sugar Beets	\$16.00/acre

Converting Energy Numbers in Budgets

If your energy source is different from that used in the 2016 crop budgets, use *Table 4*, developed by Extension Irrigation Engineer Derrel Martin, to convert from diesel to other energy sources.

For example, to convert diesel in gallons to kilowatt-hours of electricity, the multiplier is 14.12. If electricity is \$0.138 per kilowatt, the calculation would be $14.12 \times 0.138 = \$1.95$. The 2016 crop budgets use \$2.25/gallon of diesel. If you use electricity, the cost would be about 50 percent of that cost. However, with electricity you must also include connect charges, and in order to get the best rates, you'll need to sign up for load management.

Table 4. Conversion of Diesel to Electricity Propane, Gasoline, and Natural Gas*.

Energy Source	Units	Multiplier
Electricity	Kilowatt-hours	14.12
Propane	Gallons	1.814
Gasoline	Gallons	1.443
Natural Gas	1000 Cubic Feet	0.2026

*Source: Estimating the Savings from Improving Pumping Plant Performance by UNL Irrigation Specialist Derrel Martin

Diesel Fuel Conversion for Center Pivots

The 2016 crop production budgets with center pivot irrigation were developed with a pumping lift of 125 feet and 35 psi pressure to determine the amount of diesel fuel used per hour. *Table 5* was developed by Derrel Martin to determine the amount of diesel fuel for various pumping lifts and pressures to pump an acre-inch of water.

For example, the amount of diesel required to pump an acre-inch of water with 125 feet of lift at 35 psi is 1.88 gallons with a pump performance rating of 100 percent. If the producer has a lift of 300 feet and a pressure of 50 psi, the diesel fuel required at a performance rating of 100 percent is 3.79 gallons per acre-inch. If the rating on the producer's pump is 80 percent, the diesel fuel required will be 4.74 gallons per acre-inch of water.

With this information, the producer can calculate the additional cost since the diesel fuel required is now 4.74 gallons per acre-inch vs. 1.88 gallons per acre-inch. This is 2.86 gallons more per acre-inch. If a crop budget requires 9 inches, the additional diesel fuel would be 25.74 gallons of diesel at \$2.25/gallon (9 inches x 2.86 gallons). The producer's additional cost would be \$57.92/acre.

Table 5. Table for adjusting the amount of diesel fuel required by center pivots for lifts and pressures other than the 125 feet of lift and 35 PSI used in the budgets. Gallons of diesel fuel required to pump an acre-inch of water at pump performance ratings of 100 percent*

Lift Feet	Pressure at							
	10	20	30	35	40	50	60	80
0	0.21	0.42	0.63	0.74	0.84	1.05	1.26	1.69
25	0.44	0.65	0.86	0.97	1.07	1.28	1.49	1.91
50	0.67	0.88	1.09	1.20	1.30	1.51	1.72	2.14
75	0.89	1.11	1.32	1.43	1.53	1.74	1.95	2.37
100	1.12	1.33	1.54	1.65	1.75	1.97	2.18	2.60
125	1.35	1.56	1.77	1.88	1.98	2.19	2.40	2.83
150	1.58	1.79	2.00	2.11	2.21	2.42	2.63	3.05
200	2.03	2.25	2.46	2.57	2.67	2.88	3.09	3.51
250	2.49	2.70	2.91	3.02	3.12	3.33	3.54	3.97
300	2.95	3.16	3.37	3.48	3.58	3.79	4.00	4.42
350	3.40	3.61	3.82	3.93	4.03	4.25	4.46	4.88
400	3.86	4.07	4.28	4.39	4.49	4.70	4.91	5.33
*Multiplier when pumping plant performance rating is less than 100 percent.								
Rating %	100	90	80	70	60	50		
Multiplier	1.00	1.11	1.25	1.43	1.67	2.00		

* Source: *Estimating the Savings From Improving Pumping Plant Performance* by UNL Extension Irrigation Specialist Derrel Martin.

**2016 Budget 1-Alfalfa, Fall Establishment
Dryland**

Field Operations		Times or Qty	Labor @ Unit \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	Spread Fertilizer	1	1.57	0.79	0.66	0.00	2.18	0.00	5.20	_____
2	Disk	1	2.02	1.97	0.29	1.24	4.14	1.21	10.87	_____
3	Harrow	1	1.18	0.28	0.45	0.00	1.49	0.00	3.40	_____
4	Harrow	1	1.18	0.28	0.45	0.00	1.49	0.00	3.40	_____
5	Roll	1	2.22	1.57	0.93	0.00	3.07	0.00	7.79	_____
6	Drill	1	1.76	1.03	0.67	2.94	2.21	2.62	11.23	_____
7	Spray	1	1.00	0.27	0.33	0.64	1.11	0.88	4.23	_____
8	Spray	0.2	0.20	0.05	0.07	0.13	0.22	0.18	0.85	_____
Total for Field Operations			11.13	6.24	3.85	4.95	15.91	4.89	46.97	_____

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Alfalfa w/Inoculant	Seed	6	100%	12 pound	6.00	72.00	_____
Pursuit	Herbicide	7	100%	3 ounce	3.83	11.48	_____
Crop Oil Concentrate	Additive	7	100%	1.6 pint	1.50	2.40	_____
UAN	Additive	7	100%	2 pint	0.21	0.41	_____
Lorsban Advanced	Insecticide	8	20%	1 pint	6.88	1.38	_____
Total Materials & Services						115.67	_____

Total listed costs for Field Operations and Materials and Services						162.64	_____
Interest on Operations Capital	\$ 141.84	cash expense @	5.50%	for 6.0 mo.		3.90	_____
Total Operating and Use Related Ownership Costs						166.54	_____

Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	_____
Real Estate Opportunity	Fall Establishment	\$ -	per acre @	4.00%		0.00	_____
Real Estate Taxes		\$ -	per acre @	1.00%		0.00	_____
Total Cost per Acre Including Overhead						186.54	_____

**2016 Budget 2-Alfalfa, Roundup Ready® No-Till, Fall Establishment
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
2 Drill w/ Fertilizer	1		2.18	1.18	0.76	3.85	2.51	2.62	13.10	
3 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
4 Spray	0.2		0.20	0.05	0.07	0.13	0.22	0.18	0.85	
Total for Field Operations			4.38	1.77	1.49	5.26	4.95	4.56	22.41	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
				Rate	Unit			
Gramoxone SL	Herbicide	1	100%	2	pint	5.38	10.75	
11-52-0	Fertilizer	2	100%	100	pound	0.28	28.00	
Alfalfa RR w/Inoculant	Seed	7	100%	12	pound	9.00	108.00	
Roundup WeatherMax	Herbicide	7	100%	44	ounce	0.30	13.06	
21-0-0-24S	Additive	7	100%	1.7	pound	0.35	0.60	
Lorsban Advanced	Insecticide	8	20%	1	pint	6.88	1.38	
Total Materials & Services							161.79	

Total listed costs for Field Operations and Materials and Services								184.20	
Interest on Operations Capital			\$ 174.69	cash expense @	5.50%	for 6.0 mo.		4.80	
Total Operating and Use Related Ownership Costs								189.00	
Overhead (accounting, liability insurance, vehicle cost, office expense)								20.00	
Real Estate Opportunity	Fall Establishment		\$ -	per acre @	4.00%			0.00	
Real Estate Taxes			\$ -	per acre @	1.00%			0.00	
Total Cost per Acre Including Overhead								209.00	

**2016 Budget 3-Alfalfa, Roundup Ready®, Fall Establishment
Dryland**

Field Operations	Times or Qty	Labor @ Unit	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
				Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1	1.57	0.79	0.66	0.00	2.18	0.00	5.20	
2 Disk	1	2.02	1.97	0.29	1.24	4.14	1.21	10.87	
3 Harrow	1	1.18	0.28	0.45	0.00	1.49	0.00	3.40	
4 Harrow	1	1.18	0.28	0.45	0.00	1.49	0.00	3.40	
5 Roll	1	2.22	1.57	0.93	0.00	3.07	0.00	7.79	
6 Drill	1	1.76	1.03	0.67	2.94	2.21	2.62	11.23	
7 Spray	1	1.00	0.27	0.33	0.64	1.11	0.88	4.23	
8 Spray	0.2	0.20	0.05	0.07	0.13	0.22	0.18	0.85	
Total for Field Operations		11.13	6.24	3.85	4.95	15.91	4.89	46.97	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
Alfalfa RR w/Inoculant	Seed	6	100%	12 pound	9.00	108.00	
Roundup WeatherMax	Herbicide	7	100%	44 ounce	0.30	13.06	
21-0-0-24S	Additive	7	100%	1.7 pound	0.35	0.60	
Lorsban Advanced	Insecticide	8	20%	1 pint	6.88	1.38	
Total Materials & Services					151.04		

Total listed costs for Field Operations and Materials and Services		198.01
Interest on Operations Capital \$ 177.21 cash expense @ 5.50% for 6.0 mo.		4.87
Total Operating and Use Related Ownership Costs		202.88
Overhead (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity <input type="text" value="Fall Establishment"/> \$ - per acre @ 4.00%		0.00
Real Estate Taxes \$ - per acre @ 1.00%		0.00
Total Cost per Acre Including Overhead		222.88

**2016 Budget 4-Alfalfa, Establish Spring Seed with Herbicides (2.8 ton Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.79	0.66	0.00	2.18	0.00	5.20	
2 Disk	1		2.02	1.97	0.29	1.24	4.14	1.21	10.87	
3 Field Cultivation	1		1.47	1.41	0.56	1.28	1.84	1.57	8.13	
4 Seeder/Packer	1		3.00	1.39	1.04	3.48	3.46	3.34	15.71	
5 Spray	0.2		0.20	0.05	0.07	0.13	0.22	0.18	0.85	
6 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
7 Swath/Condition Hay	2		4.00	2.59	4.57	0.00	7.23	0.00	18.39	
8 Turn Windrows	0.5		0.83	0.23	0.35	0.05	1.15	0.16	2.77	
9 Bale Small Square	2.80	ton	15.40	6.34	5.83	10.97	19.35	2.75	60.64	
10 Stack Small Square	2.80	ton	5.60	1.45	2.33	0.80	7.74	1.26	19.18	
Total for Field Operations			35.09	16.49	16.03	18.59	48.42	11.35	145.97	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
				Rate	Unit			
11-52-0	Fertilizer	1	100%	100	pound	0.28	28.00	
Seeder/Packer	Rental	4	100%	1	acre	13.00	13.00	
Alfalfa w/Inoculant	Seed	4	100%	12	pound	6.00	72.00	
Lorsban Advanced	Insecticide	5	20%	1	pint	6.88	1.38	
Buctril 4E	Herbicide	6	100%	0.5	pint	16.88	8.44	
Pursuit	Herbicide	6	100%	3	ounce	3.83	11.48	
Twine Small Square	Other	9	100%	2.8	ton	2.33	6.53	
Total Materials & Services							140.83	

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 227.03	cash expense @	5.50%	for 6.0 mo.	6.24
Total Operating and Use Related Ownership Costs				293.04

Overhead (accounting, liability insurance, vehicle cost, office expense)

Real Estate Opportunity	Dryland (State)	\$ 3,390	per acre @	4.00%	135.60
Real Estate Taxes		\$ 3,390	per acre @	1.00%	33.90
Total Cost per Acre Including Overhead					482.54

Cost per ton	172.34
Cash Cost per ton	95.42

**2016 Budget 5-Alfalfa, Roundup Ready®, Establish Spring Seed (2.8 ton Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.79	0.66	0.00	2.18	0.00	5.20	
2 Disk	1		2.02	1.97	0.29	1.24	4.14	1.21	10.87	
3 Field Cultivation	1		1.47	1.41	0.56	1.28	1.84	1.57	8.13	
4 Seeder/Packer	1		3.00	1.39	1.04	3.48	3.46	3.34	15.71	
5 Spray	0.2		0.20	0.05	0.07	0.13	0.22	0.18	0.85	
6 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
7 Swath/Condition Hay	2		4.00	2.59	4.57	0.00	7.23	0.00	18.39	
8 Turn Windrows	0.5		0.83	0.23	0.35	0.05	1.15	0.16	2.77	
9 Bale Small Square	2.80	ton	15.40	6.34	5.83	10.97	19.35	2.75	60.64	
10 Stack Small Square	2.80	ton	5.60	1.45	2.33	0.80	7.74	1.26	19.18	
Total for Field Operations			35.09	16.49	16.03	18.59	48.42	11.35	145.97	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Seeder/Packer	Rental	4	100%	1 acre	13.00	13.00	
Alfalfa RR w/Inoculant	Seed	4	100%	12 pound	9.00	108.00	
Lorsban Advanced	Insecticide	5	20%	1 pint	6.88	1.38	
Roundup WeatherMax	Herbicide	6	100%	44 ounce	0.30	13.06	
21-0-0-24S	Additive	6	100%	1.70 pound	0.35	0.60	
Twine Small Square	Other	9	100%	2.80 ton	2.33	6.53	
Total Materials & Services						170.57	

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 256.77 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

Overhead (accounting, liability insurance, vehicle cost, office expense)

Real Estate Opportunity \$ 3,390 per acre @ 4.00%
 Real Estate Taxes \$ 3,390 per acre @ 1.00%

Total Cost per Acre Including Overhead

Cost per ton

Cash Cost per ton

316.54	
7.06	
323.60	
20.00	
135.60	
33.90	
513.10	
183.25	
106.33	

2016 Budget 6-Alfalfa, Establish Spring Seed with Herbicides (3.8 ton Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 12 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.79	0.66	0.00	2.18	0.00	5.20	
2 Disk	1		2.02	1.97	0.29	1.24	4.14	1.21	10.87	
3 Field Cultivation	1		1.47	1.41	0.56	1.28	1.84	1.57	8.13	
4 Seeder/Packer	1		3.00	1.39	1.04	3.48	3.46	3.34	15.71	
5 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
6 Pivot D 125' Lift	12	ai	8.33	57.62	4.12	19.37	5.96	11.58	106.98	
7 Swath/Condition Hay	2		4.00	2.59	4.57	0.00	7.23	0.00	18.39	
8 Turn Windrows	0.5		0.83	0.23	0.35	0.05	1.15	0.16	2.77	
9 Large Square Bale	3.80	ton	5.23	3.80	1.98	2.19	6.57	22.95	42.72	
10 Load Large Square	3.80	ton	4.18	1.97	1.58	0.18	5.25	0.22	13.38	
11 Spray	0.5		0.50	0.14	0.17	0.32	0.55	0.44	2.12	
Total for Field Operations			32.13	72.18	15.65	28.75	39.44	42.35	230.50	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
Seeder/Packer	Rental	4	100%	1 acre	13.00	13.00	
Alfalfa w/Inoculant	Seed	4	100%	12 pound	6.00	72.00	
Buctril 4E	Herbicide	6	100%	0.5 pint	16.88	8.44	
Pursuit	Herbicide	6	100%	3 ounce	3.83	11.48	
Twine Large Square	Other	10	100%	3.80 ton	1.81	6.86	
Lorsban Advanced	Insecticide	11	50%	1 pint	6.88	3.44	
Total Materials & Services						143.22	

Total listed costs for Field Operations and Materials and Services 373.72

Interest on Operations Capital \$ 291.93 cash expense @ 5.50% for 6.0 mo. 8.03

Total Operating and Use Related Ownership Costs 381.75

Overhead (accounting, liability insurance, vehicle cost, office expense) 20.00

Real Estate Opportunity \$ 7,315 per acre @ 4.00% 292.60

Real Estate Taxes \$ 7,315 per acre @ 1.00% 73.15

Total Cost per Acre Including Overhead 767.50

Cost per ton 201.97

Cash Cost per ton 98.19

2016 Budget 7-Alfalfa, Roundup Ready®, Establish Spring Seed (4 ton Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 12 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.79	0.66	0.00	2.18	0.00	5.20	
2 Disk	1		2.02	1.97	0.29	1.24	4.14	1.21	10.87	
3 Field Cultivation	1		1.47	1.41	0.56	1.28	1.84	1.57	8.13	
4 Seeder/Packer	1		3.00	1.39	1.04	3.48	3.46	3.34	15.71	
5 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
6 Pivot D 125' Lift	12	ai	8.33	57.62	4.12	19.37	5.96	11.58	106.98	
7 Swath/Condition Hay	2		4.00	2.59	4.57	0.00	7.23	0.00	18.39	
8 Turn Windrows	0.5		0.83	0.23	0.35	0.05	1.15	0.16	2.77	
9 Large Square Bale	4.00	ton	5.50	4.00	2.08	2.31	6.91	24.16	44.96	
10 Load Large Square	4.00	ton	4.40	2.07	1.67	0.19	5.53	0.24	14.10	
11 Spray	0.5		0.50	0.14	0.17	0.32	0.55	0.44	2.12	
Total for Field Operations			32.62	72.48	15.84	28.88	40.06	43.58	233.46	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
Seeder/Packer	Rental	4	100%	1 acre	13.00	13.00	
Alfalfa RR w/Inoculant	Seed	4	100%	12 pound	9.00	108.00	
Roundup WeatherMax	Herbicide	5	100%	44 ounce	0.30	13.06	
21-0-0-24S	Additive	5	100%	1.7 pound	0.35	0.60	
Twine Large Square	Other	9	100%	4 ton	1.81	7.22	
Lorsban Advanced	Insecticide	11	50%	1 pint	6.88	3.44	
Total Materials & Services						173.32	

Total listed costs for Field Operations and Materials and Services						406.78	
Interest on Operations Capital \$ 323.14	cash expense @	5.50%	for 6.0 mo.			8.89	
Total Operating and Use Related Ownership Costs						415.67	

Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Pivot (State)	\$ 7,315	per acre @	4.00%		292.60	
Real Estate Taxes		\$ 7,315	per acre @	1.00%		73.15	
Total Cost per Acre Including Overhead						801.42	

Cost per ton						200.35	
Cash Cost per ton						101.29	

2016 Budget 8-Alfalfa, Fall Seeded with Subsequent Year Production (2.5 ton Actual Yield)
Gravity Irrigated, Canal, 18 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	1.97	0.29	1.24	4.14	1.21	10.87	
2 Spread Fertilizer	1		1.57	0.79	0.66	0.00	2.18	0.00	5.20	
3 Roll	1		2.22	1.57	0.93	0.00	3.07	0.00	7.79	
4 Drill	1		1.76	1.03	0.67	2.94	2.21	2.62	11.23	
5 Spray	0.2		0.20	0.05	0.07	0.13	0.22	0.18	0.85	
6 Corrugate	1		3.13	1.62	1.19	0.90	3.94	5.47	16.25	
7 Swath/Condition Hay	2		4.00	2.59	4.57	0.00	7.23	0.00	18.39	
8 Turn Windrows	0.5		0.83	0.23	0.35	0.05	1.15	0.16	2.77	
9 Large Round Bale	2.50	ton	5.50	1.86	2.08	5.03	6.91	5.25	26.63	
10 Move Large Round	2.50	ton	2.75	1.29	1.04	0.00	3.46	0.15	8.69	
11 Ditch Irrigation	18	ai	20.00	0.00	0.00	0.00	0.00	0.00	20.00	
12 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
Total for Field Operations			44.98	13.27	12.18	10.93	35.62	15.92	132.90	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate	
			Rate	Unit				
11-52-0		Fertilizer	2	100%	100 pound	0.28	28.00	
Alfalfa w/Inoculant		Seed	4	100%	12 pound	6.00	72.00	
Oats		Seed	4	100%	0.5 bushel	9.00	4.50	
Lorsban Advanced		Insecticide	5	20%	1 pint	6.88	1.38	
Twine Large Round		Other	9	100%	2.5 ton	0.91	2.27	
Irrigation District O&M Charge		Other	11	100%	1 acre	30.00	30.00	
Raptor		Herbicide	12	100%	5 ounce	4.77	23.83	
Crop Oil Concentrate		Additive	12	100%	1.6 pint	1.50	2.40	
UAN		Additive	12	100%	2 pint	0.21	0.41	
Total Materials & Services						164.79		

Total listed costs for Field Operations and Materials and Services						297.69	
Interest on Operations Capital	\$ 246.15	cash expense @	5.50%	for 6.0 mo.		6.77	
Total Operating and Use Related Ownership Costs						304.46	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Gravity (Panhandle)	\$ 3,235	per acre @	4.00%		129.40	
Real Estate Taxes		\$ 3,235	per acre @	1.00%		32.35	
Total Cost per Acre Including Overhead						486.21	
Cost per ton						194.48	
Cash Cost per ton						114.11	

**2016 Budget 9-Alfalfa, Large Round Bale (4.4 ton Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.79	0.66	0.00	2.18	0.00	5.20	
2 Swath/Condition Hay	4		8.00	5.18	9.14	0.00	14.45	0.00	36.77	
3 Turn Windrows	1		1.67	0.45	0.69	0.11	2.30	0.32	5.54	
4 Double Windrows	3		3.30	0.82	1.25	0.16	4.15	1.22	10.90	
5 Large Round Bale	4.4	ton	9.68	3.27	3.67	8.86	12.16	9.25	46.89	
6 Move Large Round	4.4	ton	4.84	2.28	1.83	0.00	6.08	0.26	15.29	
7 Spray	0.25		0.25	0.07	0.08	0.16	0.28	0.22	1.06	
Total for Field Operations			29.31	12.86	17.32	9.29	41.60	11.27	121.65	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate	
			Rate	Unit				
11-52-0	Fertilizer	1	100%	75	pound	0.28	21.00	
Twine Large Round	Other	5	100%	4.4	ton	0.91	4.00	
Mustang Max EC	Insecticide	7	25%	3	ounce	1.48	1.11	
Total Materials & Services						26.11		

Total listed costs for Field Operations and Materials and Services						147.76
Interest on Operations Capital	\$ 94.89	cash expense @	5.50%	for 6.0 mo.		2.61
Total Operating and Use Related Ownership Costs						150.37
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00
Real Estate Opportunity		Dryland (State)	\$ 3,390	per acre @	4.00%	135.60
Real Estate Taxes			\$ 3,390	per acre @	1.00%	33.90
Total Cost per Acre Including Overhead						339.87
Cost per ton						77.24
Cash Cost per ton						29.86

2016 Budget 10-Alfalfa, Large and Small Square Bale (6.7 ton Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 16 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.79	0.66	0.00	2.18	0.00	5.20	
2 Swath/Condition Hay	4		8.00	5.18	9.14	0.00	14.45	0.00	36.77	
3 Turn Windrows	1		1.67	0.45	0.69	0.11	2.30	0.32	5.54	
4 Double Windrows	4		4.40	1.09	1.67	0.22	5.53	1.63	14.54	
5 Large Square Bale	4.5	ton	6.14	4.47	2.33	2.58	7.72	26.98	50.22	
6 Load Large Square	Custom	ton								
7 Bale Small Square	2.2	ton	12.28	5.06	4.65	8.75	15.44	2.20	48.38	
8 Stack Small Square	2.2	ton	4.47	1.16	1.86	0.64	6.17	1.00	15.30	
9 Pivot E 125' Lift	16	ai	11.11	44.59	4.68	25.82	8.48	15.45	110.13	
10 Spray	0.25		0.25	0.07	0.08	0.16	0.28	0.22	1.06	
11 Spray	0.25		0.25	0.07	0.08	0.16	0.28	0.22	1.06	
Total for Field Operations			50.14	62.93	25.84	38.44	62.83	48.02	288.20	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
Twine Large Square	Other	5	67%	4.467 ton	1.81	5.38	
Load Large Square Bales	Custom	6	100%	4.467 ton	2.94	13.12	
Twine Small Square	Other	7	33%	2.233 ton	2.33	1.74	
Electricity Fixed	Other	9	100%	1 acre	30.00	30.00	
Pursuit	Herbicide	10	25%	4.5 ounce	3.83	4.31	
Crop Oil Concentrate	Additive	10	25%	1.6 pint	1.50	0.60	
UAN	Additive	10	25%	2 pint	0.21	0.10	
Mustang Max EC	Insecticide	11	25%	3 ounce	1.48	1.11	
Total Materials & Services						77.36	

Total listed costs for Field Operations and Materials and Services						365.56	
Interest on Operations Capital	\$ 254.71	cash expense @	5.50%	for 6.0 mo.		7.00	
Total Operating and Use Related Ownership Costs						372.56	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Pivot (State)	\$ 7,315	per acre @	4.00%		292.60	
Real Estate Taxes		\$ 7,315	per acre @	1.00%		73.15	
Total Cost per Acre Including Overhead						758.31	
Cost per ton						113.18	
Cash Cost per ton						49.98	

**2016 Budget 11-Alfalfa, Roundup Ready®, Large and Small Square Bale (6.8 ton Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 16 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.79	0.66	0.00	2.18	0.00	5.20	
2 Swath/Condition Hay	4		8.00	5.18	9.14	0.00	14.45	0.00	36.77	
3 Turn Windrows	1		1.67	0.45	0.69	0.11	2.30	0.32	5.54	
4 Double Windrows	4		4.40	1.09	1.67	0.22	5.53	1.63	14.54	
5 Large Square Bale	4.5	ton	6.23	4.54	2.36	2.62	7.83	27.38	50.96	
6 Load Lg Sq	Custom	ton								
7 Bale Small Square	2.3	ton	12.47	5.13	4.72	8.88	15.67	2.23	49.10	
8 Stack Small Square	2.3	ton	4.53	1.17	1.89	0.65	6.27	1.02	15.53	
9 Pivot E 125' Lift	16	ai	11.11	44.59	4.68	25.82	8.48	15.45	110.13	
10 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
11 Spray	0.25		0.25	0.07	0.08	0.16	0.28	0.22	1.06	
Total for Field Operations			51.23	63.28	26.22	39.10	64.10	49.13	293.06	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
Twine Large Square	Other	5	67%	4.53 ton	1.81	5.46	
Load Large Square Bales	Custom	6	100%	4.4 ton	2.94	12.92	
Twine Small Square	Other	7	33%	2.27 ton	2.33	1.76	
Electricity Fixed	Other	9	100%	1 acre	30.00	30.00	
Roundup WeatherMax	Herbicide	10	100%	44 ounce	0.30	13.06	
21-0-0-24S	Additive	10	100%	1.7 pound	0.35	0.60	
Mustang Max EC	Insecticide	11	25%	3 ounce	1.48	1.11	
Total Materials & Services						87.31	

Total listed costs for Field Operations and Materials and Services 380.37

Interest on Operations Capital \$ 267.14 cash expense @ 5.50% for 6.0 mo. 7.35

Total Operating and Use Related Ownership Costs 387.72

Overhead (accounting, liability insurance, vehicle cost, office expense) 20.00

Real Estate Opportunity Pivot (State) \$ 7,315 per acre @ 4.00% 292.60

Real Estate Taxes \$ 7,315 per acre @ 1.00% 73.15

Total Cost per Acre Including Overhead 773.47

Cost per ton 113.75

Cash Cost per ton 51.12

2016 Budget 12-Alfalfa, Large and Small Square Bale (6.6 ton Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 16 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.79	0.66	0.00	2.18	0.00	5.20	
2 Swath/Condition Hay	3		6.00	3.88	6.86	0.00	10.84	0.00	27.58	
3 Large Square Bale	4.4	ton	6.05	4.40	2.29	2.54	7.60	26.57	49.45	
4 Load Lg Sq	Custom	ton								
5 Bale Small Square	2.2	ton	12.10	4.98	4.58	8.62	15.21	2.16	47.65	
6 Stack Small Square	2.2	ton	4.40	1.14	1.83	0.63	6.08	0.99	15.07	
7 Pivot E 125' Lift	16	ai	11.11	44.59	4.68	25.82	8.48	15.45	110.13	
8 Spray	0.25		0.25	0.07	0.08	0.16	0.28	0.22	1.06	
9 Spray	0.25		0.25	0.07	0.08	0.16	0.28	0.22	1.06	
Total for Field Operations			41.73	59.92	21.06	37.93	50.95	45.61	257.20	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
			Rate	Unit			
11-52-0							
	Fertilizer	1	100%	75 pound	0.28	21.00	
Twine Large Square	Other	3	100%	4.4 ton	1.81	7.95	
Load Large Square Bales	Custom	4	100%	4.4 ton	2.94	12.92	
Twine Small Square	Other	5	100%	2.2 ton	2.33	5.13	
Electricity Fixed	Other	7	100%	1 acre	30.00	30.00	
Velpar 75DF	Herbicide	8	25%	0.66 pound	37.00	6.11	
Mustang Max EC	Insecticide	9	25%	3 ounce	1.48	1.11	
Total Materials & Services						84.22	

Total listed costs for Field Operations and Materials and Services						341.42	
Interest on Operations Capital \$ 244.86 cash expense @ 5.50% for 6.0 mo.						6.73	
Total Operating and Use Related Ownership Costs						348.15	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Pivot (Panhandle)	\$ 3,625	per acre @	4.00%		145.00	
Real Estate Taxes		\$ 3,625	per acre @	1.00%		36.25	
Total Cost per Acre Including Overhead						549.40	
Cost per ton						83.24	
Cash Cost per ton						38.12	

2016 Budget 13-Alfalfa, Large Square Bale (6.6 ton Actual Yield)
Canal Irrigated, 22 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.79	0.66	0.00	2.18	0.00	5.20	
2 Swath/Condition Hay	4		8.00	5.18	9.14	0.00	14.45	0.00	36.77	
3 Turn Windrows	1		1.67	0.45	0.69	0.11	2.30	0.32	5.54	
4 Double Windrows	4		4.40	1.09	1.67	0.22	5.53	1.63	14.54	
5 Large Square Bale	Custom									
6 Load Lg Sq	Custom									
7 Corrugate	1		3.13	1.62	1.19	0.90	3.94	5.47	16.25	
8 Ditch Irrigation	22	ai	24.44						24.44	
9 Spray	0.25		0.25	0.07	0.08	0.16	0.28	0.22	1.06	
10 Spray	0.25		0.25	0.07	0.08	0.16	0.28	0.22	1.06	
Total for Field Operations			43.71	9.27	13.51	1.55	28.96	7.86	104.86	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate	
			Rate	Unit				
11-52-0		Fertilizer	1	100%	75 pound	0.28	21.00	
Bale Lg Sq 1360 lb		Custom	5	100%	6.6 ton	19.12	126.18	
Load Large Square Bales		Custom	6	100%	6.6 ton	2.94	19.38	
Irrigation District O&M Charge		Other	8	100%	1 acre	30.00	30.00	
Pursuit		Herbicide	9	25%	4.5 ounce	3.83	4.31	
Crop Oil Concentrate		Additive	9	25%	1.6 pint	1.50	0.60	
UAN		Additive	9	25%	2 pint	0.21	0.10	
Mustang Max EC		Insecticide	10	25%	3 ounce	1.48	1.11	
Total Materials & Services						202.68		

Total listed costs for Field Operations and Materials and Services						307.54	
Interest on Operations Capital \$ 270.72	cash expense @	5.50%	for 6.0 mo.			7.44	
Total Operating and Use Related Ownership Costs						314.98	

Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Gravity (State)	\$ 6,900	per acre @	4.00%		276.00	
Real Estate Taxes		\$ 6,900	per acre @	1.00%		69.00	
Total Cost per Acre Including Overhead						679.98	

Cost per ton		103.03	
Cash Cost per ton		52.60	

**2016 Budget 14-Alfalfa, Roundup Ready®, Large Square Bale (6.8 ton Actual Yield)
Canal Irrigated, 22 acre/inches**

	Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Spread Fertilizer	1		1.57	0.79	0.66	0.00	2.18	0.00	5.20	
2	Swath/Condition Hay	4		8.00	5.18	9.14	0.00	14.45	0.00	36.77	
3	Turn Windrows	1		1.67	0.45	0.69	0.11	2.30	0.32	5.54	
4	Double Windrows	4		4.40	1.09	1.67	0.22	5.53	1.63	14.54	
5	Lg Sq Bale	Custom									
6	Load Lg Sq	Custom									
7	Corrugate	1		3.13	1.62	1.19	0.90	3.94	5.47	16.25	
8	Ditch Irrigation	22	ai	24.44						24.44	
9	Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
10	Spray	0.25		0.25	0.07	0.08	0.16	0.28	0.22	1.06	
Total for Field Operations				44.46	9.47	13.76	2.03	29.79	8.52	108.03	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
				Rate	Unit			
11-52-0	Fertilizer	1	100%	80	pound	0.28	22.40	
Bale Lg Sq 1360 lb	Custom	5	100%	6.8	ton	19.12	130.00	
Load Large Square Bales	Custom	6	100%	6.6	ton	2.94	19.38	
Irrigation District O&M Charge	Other	8	100%	1	acre	30.00	30.00	
Roundup WeatherMax	Herbicide	9	100%	44	ounce	0.30	13.06	
21-0-0-24S	Additive	9	100%	1.7	pound	0.35	0.60	
Mustang Max EC	Insecticide	10	25%	3	ounce	1.48	1.11	
Total Materials & Services							216.55	

Total listed costs for Field Operations and Materials and Services 324.58

Interest on Operations Capital \$ 286.27 cash expense @ 5.50% for 6.0 mo. 7.87

Total Operating and Use Related Ownership Costs 332.45

Overhead (accounting, liability insurance, vehicle cost, office expense) 20.00

Real Estate Opportunity Gravity (State) \$ 6,900 per acre @ 4.00% 276.00

Real Estate Taxes \$ 6,900 per acre @ 1.00% 69.00

Total Cost per Acre Including Overhead 697.45

Cost per ton 102.57

Cash Cost per ton 53.40

**2016 Budget 15-Corn, Conventional Tillage, Continuous, 90 bu Yield Goal (85 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	1.97	0.29	1.24	4.14	1.21	10.87	
2 Anhydrous Apply	1		1.83	1.37	0.69	0.58	2.30	3.94	10.71	
3 Field Cultivation	1		1.47	1.41	0.56	1.28	1.84	1.57	8.13	
4 Plant	1		2.40	0.71	0.83	2.54	2.76	3.89	13.13	
5 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
6 Row Crop Cultivation	1		2.00	0.82	0.76	0.44	2.51	1.64	8.17	
7 Row Crop Cultivation	0.25		0.50	0.21	0.19	0.11	0.63	0.41	2.05	
8 Spray	0.5		0.50	0.14	0.17	0.32	0.55	0.44	2.12	
9 Spray	Custom									
10 Combine Dryland Corn	1		3.14	3.88	7.31	1.51	5.99	4.59	26.42	
11 Cart	85	bu	1.21	0.43	0.46	0.78	1.53	0.50	4.91	
12 Truck	Custom									
13 Dry Grain	Custom									
14 Chop Stalks	1		1.78	1.20	0.68	0.34	2.24	1.69	7.93	
Total for Field Operations			17.85	12.41	12.27	9.78	25.60	20.76	98.67	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
			Rate	Unit			
82-0-0				85 lbs N	0.43	36.55	
Corn				13.1 k seed	2.50	32.69	
Capture LFR				6.6 ounce	2.81	18.56	
10-34-0				6 gallon	2.80	16.80	
Lumax EZ				2.7 quart	20.00	54.00	
Spray				1 acre	7.00	3.50	
Distinct				4 ounce	0.31	0.63	
NIS				6 ounce	0.17	0.52	
UAN				2 pint	0.21	0.21	
Spray				1 acre	7.00	2.10	
Brigade 2EC				5.12 ounce	1.13	0.58	
Mustang Max EC				2 ounce	1.48	0.59	
Haul Grain Bushels				85 bushel	0.11	9.35	
Dry 2 Points Removed				85 bushel	0.09	7.65	
Scouting Dryland Corn				1 acre	7.00	7.00	
Corn Dryland				Crop Insurance	15.00	15.00	
Total Materials & Services						205.73	

Total listed costs for Field Operations and Materials and Services						304.40	
Interest on Operations Capital \$ 258.04 cash expense @ 5.50% for 6.0 mo.						7.10	
Total Operating and Use Related Ownership Costs						311.50	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity		Dryland (State)	\$ 3,390	per acre @	4.00%	135.60	
Real Estate Taxes			\$ 3,390	per acre @	1.00%	33.90	
Total Cost per Acre Including Overhead						501.00	
Cost per bu						5.89	
Cash Cost per bu						3.52	

**2016 Budget 16-Corn, Eastern Nebraska Conventional Tillage, Continuous, 155 bu Yield Goal (135 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	1.97	0.29	1.24	4.14	1.21	10.87	
2 Anhydrous Apply	1		1.83	1.37	0.69	0.58	2.30	3.94	10.71	
3 Field Cultivation	1		1.47	1.41	0.56	1.28	1.84	1.57	8.13	
4 Plant	1		2.40	0.71	0.83	2.54	2.76	3.89	13.13	
5 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
6 Spray	0.5		0.50	0.14	0.17	0.32	0.55	0.44	2.12	
7 Spray	Custom									
8 Combine Dryland Corn	1		3.14	3.88	7.31	1.51	5.99	4.59	26.42	
9 Cart	135	bu	1.93	0.68	0.73	1.24	2.42	0.79	7.79	
10 Truck	Custom									
11 Dry Grain	Custom									
12 Chop Stalks	1		1.78	1.20	0.68	0.34	2.24	1.69	7.93	
Total for Field Operations			16.07	11.63	11.59	9.69	23.35	19.00	91.33	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate	
			Rate	Unit				
82-0-0		Fertilizer	2	100%	150 lbs N	0.43	64.50	
Corn		Seed	4	100%	23.1 k seed	2.50	57.75	
Capture LFR		Insecticide	4	100%	6.6 ounce	2.81	18.56	
10-34-0		Fertilizer	4	100%	6 gallon	2.80	16.80	
Lumax EZ		Herbicide	5	100%	2.7 quart	20.00	54.00	
Distinct		Herbicide	6	50%	4 ounce	0.31	0.63	
NIS		Additive	6	50%	6 ounce	0.17	0.52	
UAN		Additive	6	50%	2 pint	0.21	0.21	
Spray		Custom	7	30%	1 acre	7.00	2.10	
Brigade 2EC		Insecticide	7	10%	5.12 ounce	1.13	0.58	
Mustang Max EC		Insecticide	7	20%	2 ounce	1.48	0.59	
Haul Grain Bushels		Custom	10	100%	135 bushel	0.11	14.85	
Dry 2 Points Removed		Custom	11	100%	135 bushel	0.09	12.15	
Scouting Dryland Corn		Scouting		100%	1 acre	7.00	7.00	
Corn Dryland		Crop Insurance				19.00	19.00	
Total Materials & Services						269.24		

Total listed costs for Field Operations and Materials and Services 360.57

Interest on Operations Capital \$ 318.22 cash expense @ 5.50% for 6.0 mo. 8.75

Total Operating and Use Related Ownership Costs 369.32

Overhead (accounting, liability insurance, vehicle cost, office expense) 20.00

Real Estate Opportunity Dryland (Eastern) \$ 5,980 per acre @ 4.00% 239.20

Real Estate Taxes \$ 5,980 per acre @ 1.00% 59.80

Total Cost per Acre Including Overhead 688.32

Cost per bu 5.10

Cash Cost per bu 2.86

**2016 Budget 17-Corn, No-Till, Bt, ECB, RW & RR2, Continuous, 125 bu Yield Goal (115 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Labor @ Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.14	0.17	0.32	0.55	0.44	2.12	
2 Spray Fertilizer and Herbicide	1		1.00	0.27	0.33	0.19	1.11	2.21	5.11	
3 Plant No-Till	1		2.40	0.87	0.83	4.37	2.76	6.70	17.93	
4 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
5 Spray	Custom									
6 Combine Dryland Corn	1		3.14	3.88	7.31	1.51	5.99	4.59	26.42	
7 Cart	115	bu	1.64	0.58	0.62	1.05	2.06	0.67	6.62	
8 Truck	Custom									
9 Dry Grain	Custom									
Total for Field Operations			9.68	6.01	9.59	8.08	13.58	15.49	62.43	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
				Rate	Unit			
Glyphosate w/Surf	Herbicide	1	50%	32	ounce	0.13	2.00	
2,4-D Ester 4#	Herbicide	1	50%	1	pint	2.56	1.28	
21-0-0-24S	Additive	1	50%	1.7	pound	0.35	0.30	
32-0-0	Fertilizer	2	100%	115	lbs N	0.47	54.05	
Expert	Herbicide	2	100%	3	quart	9.25	27.75	
Corn Bt, ECB, RW & RR2	Seed	3	80%	17.69	k seed	3.38	47.77	
Corn RR2	Seed	3	20%	17.69	k seed	3.00	10.62	
* Capture LFR	Insecticide	3	20%	6.6	ounce	2.81	3.71	
10-34-0-1Z	Fertilizer	3	100%	6	gallon	2.85	17.10	
Glyphosate w/Surf	Herbicide	4	100%	32	ounce	0.13	4.00	
21-0-0-24S	Additive	4	100%	1.7	pound	0.35	0.60	
Status	Herbicide	4	50%	2.5	ounce	4.30	5.38	
* Spray	Custom	5	30%	1	acre	7.00	2.10	
* Brigade 2EC	Insecticide	5	10%	5.12	ounce	1.13	0.58	
* Mustang Max EC	Insecticide	5	20%	2	ounce	1.48	0.59	
Haul Grain Bushels	Custom	8	100%	115	bushel	0.11	12.65	
Dry 2 Points Removed	Custom	9	100%	115	bushel	0.09	10.35	
Scouting Dryland Corn	Scouting		100%	1	acre	7.00	7.00	
Corn Dryland	Crop Insurance					17.00	17.00	
Total Materials & Services							224.83	

*Insecticides for 1st & 2nd brood European Corn Borer (10% of refuge), Western Bean Cutworm, and Spider Mites, respectively.

Total listed costs for Field Operations and Materials and Services		287.26
Interest on Operations Capital \$ 258.19 cash expense @ 5.50% for 6.0 mo.		7.10
Total Operating and Use Related Ownership Costs		294.36
Overhead (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity Dryland (State) \$ 3,390 per acre @ 4.00%		135.60
Real Estate Taxes \$ 3,390 per acre @ 1.00%		33.90
Total Cost per Acre Including Overhead		483.86
Cost per bu		4.21
Cash Cost per bu		2.60

2016 Budget 18-Corn, Eastern Nebraska, No-Till, Bt, ECB, RW & RR2, Continuous, 170 bu Yield Goal (160 bu Actual Yield) Dryland

Field Operations	Times or Qty	Labor @ Unit	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate	
				Power	Imp.	Power	Imp.			
1 Spray Spring Burndown Herbicide	0.5	0.50	0.14	0.17	0.32	0.55	0.44	2.12		
2 Spray Fertilizer and Herbicide	1	1.00	0.27	0.33	0.19	1.11	2.21	5.11		
3 Plant No-Till	1	2.40	0.87	0.83	4.37	2.76	6.70	17.93		
4 Spray	1	1.00	0.27	0.33	0.64	1.11	0.88	4.23		
5 Spray	Custom									
6 Combine Dryland Corn	1	3.14	3.88	7.31	1.51	5.99	4.59	26.42		
7 Cart	160 bu	2.29	0.81	0.87	1.46	2.87	0.94	9.24		
8 Truck	Custom									
9 Dry Grain	Custom									
Total for Field Operations			10.33	6.24	9.84	8.49	14.39	15.76	65.05	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
			Rate	Unit			
Glyphosate w/Surf	Herbicide	1	50%	32 ounce	0.13	2.00	
2,4-D Ester 4#	Herbicide	1	50%	1 pint	2.56	1.28	
21-0-0-24S	Additive	1	50%	1.7 pound	0.35	0.30	
32-0-0	Fertilizer	2	100%	160 lbs N	0.47	75.20	
Expert	Herbicide	2	100%	3 quart	9.25	27.75	
Corn Bt, ECB, RW & RR2	Seed	3	80%	24.70 k seed	3.38	66.69	
Corn RR2	Seed	3	20%	24.70 k seed	3.00	14.82	
* Capture LFR	Insecticide	3	20%	6.6 ounce	2.81	3.71	
10-34-0-1Z	Fertilizer	3	100%	6 gallon	2.85	17.10	
Glyphosate w/Surf	Herbicide	4	100%	32 ounce	0.13	4.00	
21-0-0-24S	Additive	4	100%	1.7 pound	0.35	0.60	
Status	Herbicide	4	50%	2.5 ounce	4.30	5.38	
* Spray	Custom	5	30%	1 acre	7.00	2.10	
* Brigade 2EC	Insecticide	5	10%	5.12 ounce	1.13	0.58	
* Mustang Max EC	Insecticide	5	20%	2 ounce	1.48	0.59	
Haul Grain Bushels	Custom	8	100%	160 bushel	0.11	17.60	
Dry 2 Points Removed	Custom	9	100%	160 bushel	0.09	14.40	
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00	
Corn Dryland	Crop Insurance				22.00	22.00	
Total Materials & Services						283.10	

*Insecticides for 1st & 2nd brood European Corn Borer (10% of refuge), Western Bean Cutworm, and Spider Mites, respectively.

Total listed costs for Field Operations and Materials and Services		348.15
Interest on Operations Capital \$ 318.00 cash expense @ 5.50% for 6.0 mo.		8.75
Total Operating and Use Related Ownership Costs		356.90
Overhead (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity Dryland (Eastern) \$ 5,980 per acre @ 4.00%		239.20
Real Estate Taxes \$ 5,980 per acre @ 1.00%		59.80
Total Cost per Acre Including Overhead		675.90
Cost per bu		4.22
Cash Cost per bu		2.42

**2016 Budget 19-Corn, No-Till, SmartStax RIB Complete, Continuous, 130 bu Yield Goal (120 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.14	0.17	0.32	0.55	0.44	2.12	
2 Spray Fertilizer and Herbicide	1		1.00	0.27	0.33	0.19	1.11	2.21	5.11	
3 Plant No-Till	1		2.40	0.87	0.83	4.37	2.76	6.70	17.93	
4 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
5 Spray	Custom									
6 Combine Dryland Corn	1		3.14	3.88	7.31	1.51	5.99	4.59	26.42	
7 Cart	120	bu	1.71	0.60	0.65	1.10	2.15	0.70	6.91	
8 Truck	Custom									
9 Dry Grain	Custom									
Total for Field Operations			9.75	6.03	9.62	8.13	13.67	15.52	62.72	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
				Rate	Unit			
Glyphosate w/Surf	Herbicide	1	50%	32	ounce	0.13	2.00	
2,4-D Ester 4#	Herbicide	1	50%	1	pint	2.56	1.28	
21-0-0-24S	Additive	1	50%	1.7	pound	0.35	0.30	
32-0-0	Fertilizer	2	100%	120	lbs N	0.47	56.40	
Expert	Herbicide	2	100%	3	quart	9.25	27.75	
Corn SmartStax RIB Complete	Seed	3	100%	18.5	k seed	3.81	70.38	
10-34-0	Fertilizer	3	100%	6	gallon	2.80	16.80	
Glyphosate w/Surf	Herbicide	4	100%	32	ounce	0.13	4.00	
21-0-0-24S	Additive	4	100%	1.7	pound	0.35	0.60	
Status	Herbicide	4	50%	2.5	ounce	4.30	5.38	
Spray	Custom	5	10%	1	acre	7.00	0.70	
Brigade 2EC	Insecticide	5	10%	5.12	ounce	1.13	0.58	
Haul Grain Bushels	Custom	8	100%	120	bushel	0.11	13.20	
Dry 2 Points Removed	Custom	9	100%	120	bushel	0.09	10.80	
Scouting Dryland Corn	Scouting		100%	1	acre	7.00	7.00	
Corn Dryland	Crop Insurance					17.00	17.00	
Total Materials & Services							234.17	

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 267.70 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

Overhead (accounting, liability insurance, vehicle cost, office expense)

Real Estate Opportunity \$ 3,390 per acre @ 4.00%
 Real Estate Taxes \$ 3,390 per acre @ 1.00%

Total Cost per Acre Including Overhead

Cost per bu

Cash Cost per bu

296.89

7.36

304.25

20.00

135.60

33.90

493.75

4.11

2.57

**2016 Budget 20-Corn, Eastern Nebraska No-Till, SmartStax RIB Complete, Continuous, 175 bu Yield Goal (165 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.14	0.17	0.32	0.55	0.44	2.12	
2 Spray Fertilizer and Herbicide	1		1.00	0.27	0.33	0.19	1.11	2.21	5.11	
3 Plant No-Till	1		2.40	0.87	0.83	4.37	2.76	6.70	17.93	
4 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
5 Spray	Custom									
6 Combine Dryland Corn	1		3.14	3.88	7.31	1.51	5.99	4.59	26.42	
7 Cart	165	bu	2.36	0.83	0.89	1.51	2.96	0.97	9.52	
8 Truck	Custom									
9 Dry Grain	Custom									
Total for Field Operations			10.40	6.26	9.86	8.54	14.48	15.79	65.33	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
			Rate	Unit			
Glyphosate w/Surf	Herbicide	1	50%	32 ounce	0.13	2.00	
2,4-D Ester 4#	Herbicide	1	50%	1 pint	2.56	1.28	
21-0-0-24S	Additive	1	50%	1.7 pound	0.35	0.30	
32-0-0	Fertilizer	2	100%	165 lbs N	0.47	77.55	
Expert	Herbicide	2	100%	3 quart	9.25	27.75	
Corn SmartStax RIB Complete	Seed	3	100%	25.4 k seed	3.81	96.78	
10-34-0	Fertilizer	3	100%	6 gallon	2.80	16.80	
Glyphosate w/Surf	Herbicide	4	100%	32 ounce	0.13	4.00	
21-0-0-24S	Additive	4	100%	1.7 pound	0.35	0.60	
Status	Herbicide	4	50%	2.5 ounce	4.30	5.38	
Spray	Custom	5	10%	1 acre	7.00	0.70	
Brigade 2EC	Insecticide	5	10%	5.12 ounce	1.13	0.58	
Haul Grain Bushels	Custom	8	100%	165 bushel	0.11	18.15	
Dry 2 Points Removed	Custom	9	100%	165 bushel	0.09	14.85	
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00	
Corn Dryland	Crop Insurance				23.00	23.00	
Total Materials & Services						296.72	

Total listed costs for Field Operations and Materials and Services						362.05	
Interest on Operations Capital \$ 331.78 cash expense @ 5.50% for 6.0 mo.						9.12	
Total Operating and Use Related Ownership Costs						371.17	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Dryland (Eastern)	\$ 5,980	per acre @	4.00%		239.20	
Real Estate Taxes		\$ 5,980	per acre @	1.00%		59.80	
Total Cost per Acre Including Overhead						690.17	
Cost per bu						4.18	
Cash Cost per bu						2.43	

**2016 Budget 21-Corn, No-Till, Bt & ECB, after Soybeans, 135 bu Yield Goal (125 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	Spray Spring Burndown Herbicide	0.5	0.50	0.14	0.17	0.32	0.55	0.44	2.12	
2	Spray Fertilizer	1	1.00	0.27	0.33	0.19	1.11	2.21	5.11	
3	Plant No-Till	1	2.40	0.87	0.83	4.37	2.76	6.70	17.93	
4	Spray	1	1.00	0.27	0.33	0.64	1.11	0.88	4.23	
5	Spray	0.5	0.50	0.14	0.17	0.32	0.55	0.44	2.12	
6	Spray	Custom								
7	Combine Dryland Corn	1	3.14	3.88	7.31	1.51	5.99	4.59	26.42	
8	Cart	125 bu	1.79	0.63	0.68	1.14	2.24	0.73	7.21	
9	Truck	Custom								
10	Dry Grain	Custom								
Total for Field Operations			10.33	6.20	9.82	8.49	14.31	15.99	65.14	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate	
				Rate	Unit				
Glyphosate w/Surf	Herbicide	1	50%	32	ounce	0.13	2.00		
2,4-D Ester 4#	Herbicide	1	50%	1.0	pint	2.56	1.28		
21-0-0-24S	Additive	1	50%	1.7	pound	0.35	0.30		
32-0-0	Fertilizer	2	100%	80	lbs N	0.47	37.60		
Corn Bt & ECB	Seed	3	80%	19.2	k seed	2.81	43.27		
Corn	Seed	3	20%	19.2	k seed	2.50	9.62		
10-34-0	Fertilizer	3	100%	6	gallon	2.80	16.80		
Acuron	Herbicide	4	100%	2.5	quart	16.25	40.63		
Crop Oil Concentrate	Additive	4	100%	1.6	pint	1.50	2.40		
21-0-0-24S	Additive	4	100%	2.5	pound	0.35	0.88		
Laudis	Herbicide	5	50%	3	ounce	6.33	9.49		
Atrazine 90 DF	Herbicide	5	50%	0.5	pound	3.50	0.88		
Crop Oil Concentrate	Additive	5	50%	1	pint	1.50	0.75		
UAN	Additive	5	50%	3	pint	0.21	0.31		
* Spray	Custom	6	30%	1	acre	7.00	2.10		
* Brigade 2EC	Insecticide	6	10%	5.12	ounce	1.13	0.58		
* Mustang Max EC	Insecticide	6	20%	2	ounce	1.48	0.59		
Haul Grain Bushels	Custom	9	100%	125	bushel	0.11	13.75		
Dry 2 Points Removed	Custom	10	50%	125	bushel	0.09	5.63		
Scouting Dryland Corn	Scouting		100%	1	acre	7.00	7.00		
Corn Dryland	Crop Insurance					18.00	18.00		
Total Materials & Services								213.86	

*Insecticides for 1st & 2nd brood European Corn Borer (10% of refuge), Western Bean Cutworm, and Spider Mites, respectively.

Total listed costs for Field Operations and Materials and Services		279.00
Interest on Operations Capital \$ 248.70 cash expense @ 5.50% for 6.0 mo.		6.84
Total Operating and Use Related Ownership Costs		285.84
Overhead (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity <input type="text" value="Dryland (State)"/> \$ 3,390 per acre @ 4.00%		135.60
Real Estate Taxes \$ 3,390 per acre @ 1.00%		33.90
Total Cost per Acre Including Overhead		475.34
Cost per bu		3.80
Cash Cost per bu		2.32

**2016 Budget 22-Corn, Eastern Nebraska No-Till, Bt & ECB, after Soybeans, 180 bu Yield Goal (170 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	Spray Spring Burndown Herbicide	1	1.00	0.27	0.33	0.64	1.11	0.88	4.23	
2	Spray Fertilizer	1	1.00	0.27	0.33	0.19	1.11	2.21	5.11	
3	Plant No-Till	1	2.40	0.87	0.83	4.37	2.76	6.70	17.93	
4	Spray	1	1.00	0.27	0.33	0.64	1.11	0.88	4.23	
5	Spray	0.5	0.50	0.14	0.17	0.32	0.55	0.44	2.12	
6	Spray	Custom								
7	Combine Dryland Corn	1	3.14	3.88	7.31	1.51	5.99	4.59	26.42	
8	Cart	170 bu	2.43	0.86	0.92	1.56	3.05	1.00	9.82	
9	Truck	Custom								
10	Dry Grain	Custom								
Total for Field Operations			11.47	6.56	10.22	9.23	15.68	16.70	69.86	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate	
				Rate	Unit				
Glyphosate w/Surf	Herbicide	1	50%	32	ounce	0.13	2.00		
2,4-D Ester 4#	Herbicide	1	50%	1.0	pint	2.56	1.28		
21-0-0-24S	Additive	1	50%	1.7	pound	0.35	0.30		
32-0-0	Fertilizer	2	100%	125	lbs N	0.47	58.75		
Corn Bt & ECB	Seed	3	80%	26.2	k seed	2.81	58.85		
Corn	Seed	3	20%	26.2	k seed	2.50	13.08		
10-34-0	Fertilizer	3	100%	6	gallon	2.80	16.80		
Acuron	Herbicide	4	100%	2.5	quart	16.25	40.63		
Crop Oil Concentrate	Additive	4	100%	1.6	pint	1.50	2.40		
21-0-0-24S	Additive	4	100%	2.5	pound	0.35	0.88		
Laudis	Herbicide	5	50%	3	ounce	6.33	9.49		
Atrazine 90 DF	Herbicide	5	50%	0.5	pound	3.50	0.88		
Crop Oil Concentrate	Additive	5	50%	1	pint	1.50	0.75		
UAN	Additive	5	50%	3	pint	0.21	0.31		
* Spray	Custom	6	30%	1	acre	7.00	2.10		
* Brigade 2EC	Insecticide	6	10%	5.12	ounce	1.13	0.58		
* Mustang Max EC	Insecticide	6	20%	2	ounce	1.48	0.59		
Haul Grain Bushels	Custom	9	100%	170	bushel	0.11	18.70		
Dry 2 Points Removed	Custom	10	50%	170	bushel	0.09	7.65		
Scouting Dryland Corn	Scouting		100%	1	acre	7.00	7.00		
Corn Dryland	Crop Insurance					24.00	24.00		
Total Materials & Services								267.02	

*Insecticides for 1st & 2nd brood European Corn Borer (10% of refuge), Western Bean Cutworm, and Spider Mites, respectively.

Total listed costs for Field Operations and Materials and Services		336.88
Interest on Operations Capital \$ 304.50 cash expense @ 5.50% for 6.0 mo.		8.37
Total Operating and Use Related Ownership Costs		345.25
Overhead (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity Dryland (Eastern) \$ 5,980 per acre @ 4.00%		239.20
Real Estate Taxes \$ 5,980 per acre @ 1.00%		59.80
Total Cost per Acre Including Overhead		664.25
Cost per bu		3.91
Cash Cost per bu		2.19

**2016 Budget 23-Corn, Ecofollow, Follows Wheat, Two Crops in Three Years, RR2, Bt & ECB, 125 bu Yield Goal (115 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray (Prior Year Stubble)	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
2 Spray (Prior Year Stubble)	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
3 Spray Fertilizer and Herbicide	1		1.00	0.27	0.33	0.19	1.11	2.21	5.11	
4 Plant No-Till	1		2.40	0.87	0.83	4.37	2.76	6.70	17.93	
5 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
6 Spray	Custom									
7 Combine Dryland Corn	1		3.14	3.88	7.31	1.51	5.99	4.59	26.42	
8 Cart	115	bu	1.64	0.58	0.62	1.05	2.06	0.67	6.62	
9 Truck	Custom									
10 Dry Grain	Custom									
Total for Field Operations			11.18	6.41	10.08	9.04	15.25	16.81	68.77	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
				Rate	Unit			
Glyphosate w/Surf	Herbicide	1	100%	32	ounce	0.13	4.00	
21-0-0-24S	Additive	1	100%	1.7	pound	0.35	0.60	
Rugged	Herbicide	1	100%	1	quart	11.25	11.25	
AAtrex 4L	Herbicide	2	100%	1.5	quart	5.25	7.88	
Glyphosate w/Surf	Herbicide	2	100%	32	ounce	0.13	4.00	
21-0-0-24S	Additive	2	100%	1.7	pound	0.35	0.60	
32-0-0	Fertilizer	3	100%	115	lbs N	0.47	54.05	
AAtrex 4L	Herbicide	3	100%	0.5	quart	5.25	2.63	
Balance Flexx	Herbicide	3	100%	4	ounce	6.00	24.00	
10-34-0	Fertilizer	4	100%	6	gallon	2.80	16.80	
Corn ECB & RR2	Seed	4	80%	17.7	k seed	3.19	45.12	
Corn RR2	Seed	4	20%	17.7	k seed	3.00	10.62	
Glyphosate w/Surf	Herbicide	5	100%	32	ounce	0.13	4.00	
21-0-0-24S	Additive	5	100%	1.7	pound	0.35	0.60	
Status	Herbicide	5	50%	2.5	ounce	4.30	5.38	
* Spray	Custom	6	30%	1	acre	7.00	2.10	
* Brigade 2EC	Insecticide	6	10%	5.12	ounce	1.13	0.58	
* Mustang Max EC	Insecticide	6	20%	2	ounce	1.48	0.59	
Haul Grain Bushels	Custom	9	100%	115	bushel	0.11	12.65	
Dry 2 Points Removed	Custom	10	100%	115	bushel	0.09	10.35	
Scouting Dryland Corn	Scouting		100%	1	acre	7.00	7.00	
Corn Dryland Ecofollow	Crop Insurance					17.00	17.00	
Total Materials & Services							241.80	

*Insecticides for 1st & 2nd brood European Corn Borer (10% of refuge), Western Bean Cutworm, and Spider Mites, respectively.

Total listed costs for Field Operations and Materials and Services							310.57	
Interest on Operations Capital \$ 278.51 cash expense @ 5.50% for 6.0 mo.							7.66	
Total Operating and Use Related Ownership Costs							318.23	
Overhead (accounting, liability insurance, vehicle cost, office expense)							20.00	
Real Estate Opportunity	Dryland (Southwest)		\$ 1,855	per acre @	4.00%		74.20	
Real Estate Taxes			\$ 1,855	per acre @	1.00%		18.55	
Total Cost per Acre Including Overhead							430.98	
Cost per bu							3.75	
Cash Cost per bu							2.65	

**2016 Budget 24-Corn, Ridge Till, Bt, ECB & RW, Continuous, 230 bu Yield Goal (215 bu Actual Yield)
Gravity Irrigated, 1,000 GPM 10 PSI, 18 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.14	0.17	0.32	0.55	0.44	2.12	
2 Anhydrous Apply	1		1.83	1.37	0.69	0.58	2.30	3.94	10.71	
3 Ridge Plant and Band Herbicide	1		2.40	0.88	0.83	4.23	2.76	2.84	13.94	
4 Ridge Cultivation	1		2.00	1.38	0.83	0.89	2.76	1.09	8.95	
5 Ridge Cultivate/Ditch	1		1.83	1.15	0.69	0.37	2.30	1.64	7.98	
6 Spray	Custom									
7 Spray	Custom									
8 Pipe D 125' Lift	18	ai	33.33	62.72	4.94	3.42	8.40	6.08	118.89	
9 Combine Irr Corn	1		3.14	3.88	7.31	1.51	5.99	4.59	26.42	
10 Cart	215	bu	3.07	1.08	1.16	1.97	3.86	1.26	12.40	
11 Truck	Custom									
12 Dry Grain	Custom									
13 Chop Stalks	1		1.78	1.20	0.68	0.34	2.24	1.69	7.93	
Total for Field Operations			49.88	73.80	17.30	13.63	31.16	23.57	209.34	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate	
				Rate	Unit				
2,4-D Ester 4#	Herbicide	1	50%	1	pint	2.56	1.28		
Glyphosate w/Surf	Herbicide	1	50%	32	ounce	0.13	2.00		
21-0-0-24S	Additive	1	50%	1.7	pound	0.35	0.30		
82-0-0	Fertilizer	2	100%	215	lbs N	0.43	92.45		
Corn Bt, ECB & RW	Seed	3	80%	33.1	k seed	3.00	79.38		
Corn	Seed	3	20%	33.1	k seed	2.50	16.54		
* Capture LFR	Insecticide	3	20%	6.6	ounce	2.81	3.71		
10-34-0	Fertilizer	3	100%	6	gallon	2.80	16.80		
Bicep II Magnum	Herbicide	3	40%	1.8	quart	12.50	9.00		
Spray	Custom	6	50%	1	acre	7.00	3.50		
Laudis	Herbicide	6	50%	3	ounce	6.33	9.49		
Atrazine 90 DF	Herbicide	6	50%	0.5	pound	3.50	0.88		
Crop Oil Concentrate	Additive	6	50%	1	pint	1.50	0.75		
UAN	Additive	6	50%	3	pint	0.21	0.31		
* Spray	Custom	6	30%	1	acre	7.00	2.10		
* Brigade 2EC	Insecticide	6	10%	5.12	ounce	1.13	0.58		
* Mustang Max EC	Insecticide	6	20%	2	ounce	1.48	0.59		
Spray	Custom	7	30%	1	acre	7.00	2.10		
Headline AMP	Fungicide	7	30%	10	ounce	2.50	7.50		
Haul Grain Bushels	Custom	11	100%	215	bushel	0.11	23.65		
Dry 2 Points Removed	Custom	12	100%	215	bushel	0.09	19.35		
Scouting Irrigated Corn	Scouting		100%	1	acre	10.00	10.00		
Corn Irrigated	Crop Insurance					6.00	6.00		
Total Materials & Services								308.26	

*Insecticides for rootworm (refuge), 1st brood European Corn Borer (10% of refuge), Western Bean Cutworm, and Spider Mites, respectively.

Total listed costs for Field Operations and Materials and Services	517.60
Interest on Operations Capital \$ 462.87 cash expense @ 5.50% for 6.0 mo.	12.73
Total Operating and Use Related Ownership Costs	530.33

Overhead (accounting, liability insurance, vehicle cost, office expense)	20.00
Real Estate Opportunity Gravity (State) \$ 6,900 per acre @ 4.00%	276.00
Real Estate Taxes \$ 6,900 per acre @ 1.00%	69.00
Total Cost per Acre Including Overhead	895.33

Cost per bu	4.16
Cash Cost per bu	2.53

**2016 Budget 25-Corn, Ridge Till, SmartStax RIB Complete, Continuous, 240 bu Yield Goal (225 bu Actual Yield)
Gravity Irrigated, 1,000 GPM 10 PSI, 18 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.14	0.17	0.32	0.55	0.44	2.12	
2 Anhydrous Apply	1		1.83	1.37	0.69	0.58	2.30	3.94	10.71	
3 Ridge Plant and Band Herbicide	1		2.40	0.88	0.83	4.23	2.76	2.84	13.94	
4 Ridge Cultivation	1		2.00	1.38	0.83	0.89	2.76	1.09	8.95	
5 Ridge Cultivate/Ditch	1		1.83	1.15	0.69	0.37	2.30	1.64	7.98	
6 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
7 Spray	Custom									
8 Spray	Custom									
9 Pipe D 125' Lift	18	ai	33.33	62.72	4.94	3.42	8.40	6.08	118.89	
10 Combine Irr Corn	1		3.14	3.88	7.31	1.51	5.99	4.59	26.42	
11 Cart	225	bu	3.21	1.13	1.22	2.06	4.04	1.32	12.98	
12 Truck	Custom									
13 Dry Grain	Custom									
14 Chop Stalks	1		1.78	1.20	0.68	0.34	2.24	1.69	7.93	
Total for Field Operations			51.02	74.12	17.69	14.36	32.45	24.51	214.15	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate	
			Rate	Unit				
2,4-D Ester 4#	Herbicide	1	50%	1	pint	2.56	1.28	
Glyphosate w/Surf	Herbicide	1	50%	32	ounce	0.13	2.00	
21-0-0-24S	Additive	1	50%	1.7	pound	0.35	0.30	
82-0-0	Fertilizer	2	100%	225	lbs N	0.43	96.75	
Corn SmartStax RIB Complete	Seed	3	100%	34.6	k seed	3.81	131.97	
10-34-0	Fertilizer	3	100%	6	gallon	2.80	16.80	
Bicep II Magnum	Herbicide	3	40%	1.8	quart	12.50	9.00	
Glyphosate w/Surf	Herbicide	6	100%	32	ounce	0.13	4.00	
21-0-0-24S	Additive	6	100%	1.7	pound	0.35	0.60	
Status	Herbicide	6	100%	2.5	ounce	4.30	10.75	
Spray	Custom	7	10%	1	acre	7.00	0.70	
Brigade 2EC	Insecticide	7	10%	5.12	ounce	1.13	0.58	
Spray	Custom	8	30%	1	acre	7.00	2.10	
Headline AMP	Fungicide	8	30%	10	ounce	2.50	7.50	
Haul Grain Bushels	Custom	12	100%	225	bushel	0.11	24.75	
Dry 2 Points Removed	Custom	13	100%	225	bushel	0.09	20.25	
Scouting Irrigated Corn	Scouting		100%	1	acre	10.00	10.00	
Corn Irrigated	Crop Insurance					6.00	6.00	
Total Materials & Services						345.33		

Total listed costs for Field Operations and Materials and Services						559.48		
Interest on Operations Capital \$ 502.52 cash expense @ 5.50% for 6.0 mo.						13.82		
Total Operating and Use Related Ownership Costs						573.30		
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00		
Real Estate Opportunity	Gravity (State)	\$ 6,900	per acre @	4.00%		276.00		
Real Estate Taxes		\$ 6,900	per acre @	1.00%		69.00		
Total Cost per Acre Including Overhead						938.30		
Cost per bu						4.17		
Cash Cost per bu						2.60		

**2016 Budget 26-Corn, Panhandle Continuous, SmartStax RIB Complete, 190 bu Yield Goal (180 bu Actual Yield)
Canal Irrigated, Gravity, 15 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	1.97	0.29	1.24	4.14	1.21	10.87	
2 Field Cultivation	1		1.47	1.41	0.56	1.28	1.84	1.57	8.13	
3 Spray Fertilizer and Herbicide	1		1.00	0.27	0.33	0.19	1.11	2.21	5.11	
4 Plant	1		2.40	0.71	0.83	2.54	2.76	3.89	13.13	
5 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
6 Row Crop Cultivation	1		2.00	0.82	0.76	0.44	2.51	1.64	8.17	
7 Ridge Cultivate/Ditch	1		1.83	1.15	0.69	0.37	2.30	1.64	7.98	
8 Spray	Custom									
9 Spray	Custom									
10 Combine Irr Corn	1		3.14	3.88	7.31	1.51	5.99	4.59	26.42	
11 Cart	180	bu	2.57	0.91	0.97	1.65	3.23	1.05	10.38	
12 Truck	Custom									
13 Dry Grain	Custom									
14 Chop Stalks	1		1.78	1.20	0.68	0.34	2.24	1.69	7.93	
15 Ditch Irrigation	15	ai	16.67	0.00	0.00	0.00	0.00	0.00	16.67	
Total for Field Operations			35.88	12.59	12.75	10.20	27.23	20.37	119.02	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
			Rate	Unit			
32-0-0	Fertilizer	3	100%	180 lbs N	0.47	84.60	
Balance Flexx	Herbicide	3	100%	4 ounce	6.00	24.00	
Bicep II Magnum	Herbicide	3	100%	2.1 quart	12.50	26.25	
10-34-0	Fertilizer	4	100%	8 gallon	2.80	22.40	
Corn SmartStax RIB Complete	Seed	4	100%	36.7 k seed	3.81	139.92	
32-0-0	Fertilizer	5	100%	40 lbs N	0.47	18.80	
Spray	Custom	8	10%	1 acre	7.00	0.70	
Brigade 2EC	Insecticide	8	10%	5.12 ounce	1.13	0.58	
Spray	Custom	9	10%	1 acre	7.00	0.70	
Headline AMP	Fungicide	9	10%	10 ounce	2.50	2.50	
Haul Grain Bushels	Custom	12	100%	180 bushel	0.11	19.80	
Dry 2 Points Removed	Custom	13	100%	180 bushel	0.09	16.20	
Irrigation District O&M Charge	Other	15	100%	1 acre	30.00	30.00	
Scouting Irrigated Corn	Scouting		100%	1 acre	10.00	10.00	
Corn Irrigated	Crop Insurance				6.00	6.00	
Total Materials & Services						402.45	

Total listed costs for Field Operations and Materials and Services						521.47	
Interest on Operations Capital \$ 473.87 cash expense @ 5.50% for 6.0 mo.						13.03	
Total Operating and Use Related Ownership Costs						534.50	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Gravity (Panhandle)	\$ 3,235	per acre @	4.00%		129.40	
Real Estate Taxes		\$ 3,235	per acre @	1.00%		32.35	
Total Cost per Acre Including Overhead						716.25	
Cost per bu						3.98	
Cash Cost per bu						2.71	

2016 Budget 27-Corn, No-Till, Bt, ECB & RW, Continuous, 240 bu Yield Goal (225 bu Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 9 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.14	0.17	0.32	0.55	0.44	2.12	
2 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
3 Plant No-Till	1		2.40	0.87	0.83	4.37	2.76	6.70	17.93	
4 Pivot D 125' Lift w/fertigation	9	ai	8.33	43.21	3.09	15.56	4.47	9.31	83.97	
5 Spray	0.5		0.50	0.14	0.17	0.32	0.55	0.44	2.12	
6 Spray	Custom									
7 Spray	Custom									
8 Combine Irr Corn	1		3.14	3.88	7.31	1.51	5.99	4.59	26.42	
9 Cart	225	bu	3.21	1.13	1.22	2.06	4.04	1.32	12.98	
10 Truck	Custom									
11 Dry Grain	Custom									
Total for Field Operations			19.08	49.64	13.12	24.78	19.47	23.68	149.77	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
			Rate	Unit			
2,4-D Ester 4#	Herbicide	1	50%	1 pint	2.56	1.28	
Glyphosate w/Surf	Herbicide	1	50%	32 ounce	0.13	2.00	
21-0-0-24S	Additive	1	50%	1.7 pound	0.35	0.30	
Lumax EZ	Herbicide	2	100%	2.7 quart	20.00	54.00	
Atrazine 4L	Herbicide	3	100%	1.0 quart	3.75	3.75	
Corn Bt, ECB & RW	Seed	3	80%	34.6 k seed	3.00	83.08	
Corn	Seed	3	20%	34.6 k seed	2.50	17.31	
* Capture LFR	Insecticide	3	20%	6.6 ounce	2.81	3.71	
10-34-0	Fertilizer	3	100%	6 gallon	2.80	16.80	
32-0-0 (Applied by R2)	Fertilizer	4	100%	225 lbs N	0.47	105.75	
Laudis	Herbicide	5	50%	3 ounce	6.33	9.49	
Atrazine 90 DF	Herbicide	5	50%	0.5 pound	3.50	0.88	
Crop Oil Concentrate	Additive	5	50%	1 pint	1.50	0.75	
UAN	Additive	5	50%	3 pint	0.21	0.31	
* Spray	Custom	6	30%	1 acre	7.00	2.10	
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	1.13	0.58	
* Mustang Max EC	Insecticide	6	20%	2 ounce	1.48	0.59	
Spray	Custom	7	30%	1 acre	7.00	2.10	
Headline AMP	Fungicide	7	30%	10 ounce	2.50	7.50	
Haul Grain Bushels	Custom	10	100%	225 bushel	0.11	24.75	
Dry 2 Points Removed	Custom	11	100%	225 bushel	0.09	20.25	
Scouting Irrigated Corn	Scouting		100%	1 acre	10.00	10.00	
Corn Irrigated	Crop Insurance				6.00	6.00	
Total Materials & Services						373.28	

*Insecticides for rootworm (refuge), 1st brood European Corn Borer (10% of refuge), Western Bean Cutworm, and Spider Mites, respectively.

Total listed costs for Field Operations and Materials and Services		523.05
Interest on Operations Capital \$ 479.90 cash expense @ 5.50% for 6.0 mo.		13.20
Total Operating and Use Related Ownership Costs		536.25
Overhead (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity <input type="text" value="Pivot (State)"/> \$ 7,315 per acre @ 4.00%		292.60
Real Estate Taxes \$ 7,315 per acre @ 1.00%		73.15
Total Cost per Acre Including Overhead		922.00

Cost per bu	4.10
Cash Cost per bu	2.52

**2016 Budget 28-Corn, No-Till, SmartStax RIB Complete, Continuous, 250 bu Yield Goal (235 bu Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 9 acre/inches**

Field Operations	Times or Qty	Labor @ Unit	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
				Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.14	0.17	0.32	0.55	0.44	2.12
2 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23
3 Plant	1		2.40	0.71	0.83	2.54	2.76	3.89	13.13
4 Spray	0.5		0.50	0.14	0.17	0.32	0.55	0.44	2.12
5 Spray	Custom								
6 Spray	Custom								
7 Pivot D 125' Lift w/fertigation	9	ai	8.33	43.21	3.09	15.56	4.47	9.31	83.97
8 Combine Irr Corn	1		3.14	3.88	7.31	1.51	5.99	4.59	26.42
9 Cart	235		3.36	1.18	1.27	2.15	4.22	1.38	13.56
10 Truck	Custom	bu							
11 Dry Grain	Custom								
Total for Field Operations			19.23	49.53	13.17	23.04	19.65	20.93	145.55

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
			Rate	Unit			
2,4-D Ester 4#	Herbicide	1	50%	1	pint	2.56	1.28
Glyphosate w/Surf	Herbicide	1	50%	32	ounce	0.13	2.00
21-0-0-24S	Additive	1	50%	1.7	pound	0.35	0.30
Lumax EZ	Herbicide	2	100%	2.7	quart	20.00	54.00
Corn SmartStax RIB Complete	Seed	3	100%	36.2	k seed	3.81	137.84
10-34-0	Fertilizer	3	100%	6	gallon	2.80	16.80
32-0-0 (Applied by R2)	Fertilizer	7	100%	235	lbs N	0.47	110.45
Glyphosate w/Surf	Herbicide	4	50%	32	ounce	0.13	2.00
21-0-0-24S	Additive	4	50%	1.7	pound	0.35	0.30
Status	Herbicide	4	50%	2.5	ounce	4.30	5.38
Spray	Custom	5	10%	1	acre	7.00	0.70
Brigade 2EC	Insecticide	5	10%	5.12	ounce	1.13	0.58
Spray	Custom	6	30%	1	acre	7.00	2.10
Headline AMP	Fungicide	6	30%	10	ounce	2.50	7.50
Haul Grain Bushels	Custom	10	100%	235	bushel	0.11	25.85
Dry 2 Points Removed	Custom	11	100%	235	bushel	0.09	21.15
Scouting Irrigated Corn	Scouting		100%	1	acre	10.00	10.00
Corn Irrigated	Crop Insurance					6.00	6.00
Total Materials & Services						404.23	

Total listed costs for Field Operations and Materials and Services		549.78
Interest on Operations Capital \$ 509.20 cash expense @ 5.50% for 6.0 mo.		14.00
Total Operating and Use Related Ownership Costs		563.78
Overhead (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity Pivot (State) \$ 7,315 per acre @ 4.00%		292.60
Real Estate Taxes \$ 7,315 per acre @ 1.00%		73.15
Total Cost per Acre Including Overhead		949.53
Cost per bu		4.04
Cash Cost per bu		2.54

**2016 Budget 29-Corn, Bt, ECB & RW, Continuous, 230 bu Yield Goal (215 bu Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 13 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	1.97	0.29	1.24	4.14	1.21	10.87	
2 Field Cultivation	1		1.47	1.41	0.56	1.28	1.84	1.57	8.13	
3 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
4 Plant	1		2.40	0.71	0.83	2.54	2.76	3.89	13.13	
5 Row Crop Cultivation	1		2.00	0.82	0.76	0.44	2.51	1.64	8.17	
6 Row Crop Cultivation	0.25		0.50	0.21	0.19	0.11	0.63	0.41	2.05	
7 Spray	Custom									
8 Spray	Custom									
9 Pivot D 125' Lift w/fertigation	13	ai	12.04	62.42	4.46	22.48	6.46	13.45	121.31	
10 Combine Irr Corn	1		3.14	3.88	7.31	1.51	5.99	4.59	26.42	
11 Cart	215	bu	3.07	1.08	1.16	1.97	3.86	1.26	12.40	
12 Truck	Custom									
13 Dry Grain	Custom									
14 Chop Stalks	1		1.78	1.20	0.68	0.34	2.24	1.69	7.93	
Total for Field Operations			29.42	73.97	16.57	32.55	31.54	30.59	214.64	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Bicep II Magnum	Herbicide	3	100%	2.1 quart	12.50	26.25
Corn Bt, ECB & RW	Seed	4	80%	33.1 k seed	3.00	79.38
Corn	Seed	4	20%	33.1 k seed	2.50	16.54
10-34-0	Fertilizer	4	100%	6 gallon	2.80	16.80
* Capture LFR	Insecticide	4	20%	6.6 ounce	2.81	3.71
32-0-0 (Applied by R2)	Fertilizer	9	100%	215 lbs N	0.47	101.05
* Spray	Custom	7	30%	1 acre	7.00	2.10
* Brigade 2EC	Insecticide	7	10%	5.12 ounce	1.13	0.58
* Mustang Max EC	Insecticide	7	20%	2 ounce	1.48	0.59
Spray	Custom	8	30%	1 acre	7.00	2.10
Headline AMP	Fungicide	8	30%	10 ounce	2.50	7.50
Haul Grain Bushels	Custom	12	100%	215 bushel	0.11	23.65
Dry 2 Points Removed	Custom	13	100%	215 bushel	0.09	19.35
Scouting Irrigated Corn	Scouting		100%	1 acre	10.00	10.00
Corn Irrigated	Crop Insurance				6.00	6.00
Total Materials & Services					339.60	

*Insecticides for rootworm (refuge), 1st brood European Corn Borer (10% of refuge), Western Bean Cutworm, and Spider Mites, respectively.

Total listed costs for Field Operations and Materials and Services					554.24	
Interest on Operations Capital \$ 492.11	cash expense @	5.50%	for 6.0 mo.		13.53	
Total Operating and Use Related Ownership Costs					567.77	
Overhead (accounting, liability insurance, vehicle cost, office expense)					20.00	
Real Estate Opportunity	Pivot (State)	\$ 7,315	per acre @	4.00%	292.60	
Real Estate Taxes		\$ 7,315	per acre @	1.00%	73.15	
Total Cost per Acre Including Overhead					953.52	
Cost per bu					4.43	
Cash Cost per bu					2.69	

2016 Budget 30-Corn, Panhandle, SmartStax RIB Complete, 190 bu Yield Goal (180 bu Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 13 acre/inches

	Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	1		2.02	1.97	0.29	1.24	4.14	1.21	10.87	
2	Field Cultivation	1		1.47	1.41	0.56	1.28	1.84	1.57	8.13	
3	Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
4	Plant	1		2.40	0.71	0.83	2.54	2.76	3.89	13.13	
5	Row Crop Cultivation	1		2.00	0.82	0.76	0.44	2.51	1.64	8.17	
6	Spray	Custom									
7	Aerial Spray	Custom									
8	Aerial Spray	Custom									
9	Pivot E 125' Lift w/fertigation	13		12.04	36.23	3.80	22.48	6.89	13.45	94.89	
10	Combine Irr Corn	1		3.14	3.88	7.31	1.51	5.99	4.59	26.42	
11	Cart	180	bu	2.57	0.91	0.97	1.65	3.23	1.05	10.38	
12	Truck	Custom									
13	Chop Stalks	1		1.78	1.20	0.68	0.34	2.24	1.69	7.93	
Total for Field Operations				28.42	47.40	15.53	32.12	30.71	29.97	184.15	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
				Rate	Unit			
32-0-0	Fertilizer	3	100%	180 lbs N		0.47	84.60	
Balance Flexx	Herbicide	3	100%	4 ounce		6.00	24.00	
Bicep II Magnum	Herbicide	3	100%	2.1 quart		12.50	26.25	
10-34-0	Fertilizer	4	100%	8 gallon		2.80	22.40	
Corn SmartStax RIB Complete	Seed	4	100%	36.8 k seed		3.81	140.30	
32-0-0 (Applied by R2)	Fertilizer	8	100%	40 lbs N		0.47	18.80	
Spray	Custom	6	100%	1 acre		7.00	7.00	
Glyphosate w/Surf	Herbicide	6	100%	32 ounce		0.13	4.00	
Dicamba	Herbicide	6	100%	12 ounce		0.59	7.03	
Aerial Spray	Custom	7	10%	1 acre		9.50	0.95	
Brigade 2EC	Insecticide	7	10%	5.12 ounce		1.13	0.58	
Aerial Spray	Custom	7	10%	1 acre		9.50	0.95	
Headline AMP	Fungicide	7	10%	10 ounce		2.50	2.50	
Electricity Fixed	Other	8	100%	1 acre		30.00	30.00	
Haul Grain Bushels	Custom	11	100%	180 bushel		0.11	19.80	
Dry 2 Points Removed	Custom	11	100%	180 bushel		0.09	16.20	
Scouting Irrigated Corn	Scouting		100%	1 acre		10.00	10.00	
Corn Irrigated	Crop Insurance					6.00	6.00	
Total Materials & Services							421.36	

Total listed costs for Field Operations and Materials and Services							605.51	
Interest on Operations Capital \$ 544.83 cash expense @ 5.50% for 6.0 mo.							14.98	
Total Operating and Use Related Ownership Costs							620.49	
Overhead (accounting, liability insurance, vehicle cost, office expense)							20.00	
Real Estate Opportunity	Pivot (Panhandle)	\$	3,625	per acre @	4.00%		145.00	
Real Estate Taxes		\$	3,625	per acre @	1.00%		36.25	
Total Cost per Acre Including Overhead							821.74	
Cost per bu							4.57	
Cash Cost per bu							3.11	

**2016 Budget 31-Corn, SmartStax RIB Complete, Continuous 240 bu Yield Goal (225 bu Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 13 acre/inches**

	Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	1		2.02	1.97	0.29	1.24	4.14	1.21	10.87	
2	Field Cultivation	1		1.47	1.41	0.56	1.28	1.84	1.57	8.13	
3	Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
4	Plant	1		2.40	0.71	0.83	2.54	2.76	3.89	13.13	
5	Row Crop Cultivation	1		2.00	0.82	0.76	0.44	2.51	1.64	8.17	
6	Row Crop Cultivation	0.25		0.50	0.21	0.19	0.11	0.63	0.41	2.05	
7	Spray	Custom									
8	Spray	Custom									
9	Pivot D 125' Lift w/fertigation	13	ai	12.04	62.42	4.46	22.48	6.46	13.45	121.31	
10	Combine Irr Corn	1		3.14	3.88	7.31	1.51	5.99	4.59	26.42	
11	Cart	225	bu	3.21	1.13	1.22	2.06	4.04	1.32	12.98	
12	Truck	Custom									
13	Dry Grain	Custom									
14	Chop Stalks	1		1.78	1.20	0.68	0.34	2.24	1.69	7.93	
Total for Field Operations				29.56	74.02	16.63	32.64	31.72	30.65	215.22	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
				Rate	Unit			
Balance Flexx	Herbicide	3	100%	4	ounce	6.00	24.00	
Bicep II Magnum	Herbicide	3	100%	2.1	quart	12.50	26.25	
Corn SmartStax RIB Complete	Seed	4	100%	34.6	k seed	3.81	131.97	
10-34-0	Fertilizer	4	100%	6	gallon	2.80	16.80	
32-0-0 (Applied by R2)	Fertilizer	9	100%	225	lbs N	0.47	105.75	
Spray	Custom	7	10%	1	acre	7.00	0.70	
Brigade 2EC	Insecticide	7	10%	5.12	ounce	1.13	0.58	
Spray	Custom	8	30%	1	acre	7.00	2.10	
Headline AMP	Fungicide	8	30%	10	ounce	2.50	7.50	
Haul Grain Bushels	Custom	12	100%	225	bushel	0.11	24.75	
Dry 2 Points Removed	Custom	13	100%	225	bushel	0.09	20.25	
Scouting Irrigated Corn	Scouting		100%	1	acre	10.00	10.00	
Corn Irrigated	Crop Insurance					6.21	6.21	
Total Materials & Services		31,200 seeds per acre, 80,000 per bag, 5% Refuge					376.86	

Total listed costs for Field Operations and Materials and Services		592.08
Interest on Operations Capital \$ 529.71 cash expense @ 5.50% for 6.0 mo.		14.57
Total Operating and Use Related Ownership Costs		606.65
Overhead (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity <input type="text" value="Pivot (State)"/> \$ 7,315 per acre @ 4.00%		292.60
Real Estate Taxes \$ 7,315 per acre @ 1.00%		73.15
Total Cost per Acre Including Overhead		992.40
Cost per bu		4.41
Cash Cost per bu		2.74

**2016 Budget 32-Corn, No-Till, Bt & ECB, after Beans, 240 bu Yield Goal (225 bu Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 9 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.14	0.17	0.32	0.55	0.44	2.12	
2 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
3 Plant No-Till	1		2.40	0.87	0.83	4.37	2.76	6.70	17.93	
4 Pivot D 125' Lift w/fertigation	9	ai	8.33	43.21	3.09	15.56	4.47	9.31	83.97	
5 Spray	0.5		0.50	0.14	0.17	0.32	0.55	0.44	2.12	
6 Spray	Custom									
7 Spray	Custom									
8 Combine Irr Corn	1		3.14	3.88	7.31	1.51	5.99	4.59	26.42	
9 Cart	225	bu	3.21	1.13	1.22	2.06	4.04	1.32	12.98	
10 Truck	Custom									
11 Dry Grain	Custom									
Total for Field Operations			19.08	49.64	13.12	24.78	19.47	23.68	149.77	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate	Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surf
2,4-D Ester 4#	Herbicide	1	50%	1 pint	2.56	1.28		
21-0-0-24S	Additive	1	50%	1.7 pound	0.35	0.30		
Acuron	Herbicide	2	100%	2.5 quart	16.25	40.63		
Crop Oil Concentrate	Additive	2	100%	1.6 pint	1.50	2.40		
21-0-0-24S	Additive	2	100%	2.5 pound	0.35	0.88		
Corn Bt & ECB	Seed	3	80%	34.6 k seed	2.81	77.88		
Corn	Seed	3	20%	34.6 k seed	2.50	17.31		
10-34-0	Fertilizer	3	100%	6.0 gallon	2.80	16.80		
32-0-0 (Applied by R2)	Fertilizer	4	100%	180.0 lbs N	0.47	84.60		
Laudis	Herbicide	5	50%	3 ounce	6.33	9.49		
Atrazine 90 DF	Herbicide	5	50%	1 pound	3.50	0.88		
Crop Oil Concentrate	Additive	5	50%	0.5 pint	1.50	0.38		
UAN	Additive	5	50%	3 pint	0.21	0.31		
* Spray	Custom	6	30%	1 acre	7.00	2.10		
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	1.13	0.58		
* Mustang Max EC	Insecticide	6	20%	2 ounce	1.48	0.59		
Spray	Custom	7	20%	1 acre	7.00	1.40		
Headline AMP	Fungicide	7	20%	10 ounce	2.50	5.00		
Haul Grain Bushels	Custom	10	100%	225 bushel	0.11	24.75		
Dry 2 Points Removed	Custom	11	50%	225 bushel	0.09	10.13		
Scouting Irrigated Corn	Scouting		100%	1 acre	10.00	10.00		
Corn Irrigated	Crop Insurance				6.21	6.21		
Total Materials & Services							315.90	

*Insecticide for 1st brood European Corn Borer (10% of refuge), Western Bean Cutworm, and Spider Mites, respectively.

Total listed costs for Field Operations and Materials and Services		465.67
Interest on Operations Capital \$ 422.52 cash expense @ 5.50% for 6.0 mo.		11.62
Total Operating and Use Related Ownership Costs		477.29
Overhead (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity Pivot (State)	\$ 7,315 per acre @ 4.00%	292.60
Real Estate Taxes	\$ 7,315 per acre @ 1.00%	73.15
Total Cost per Acre Including Overhead		863.04
Cost per bu		3.84
Cash Cost per bu		2.25

2016 Budget 33-Corn, Silage, No-Till following Corn (26 ton Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 12 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
2 Spread Manure	Custom									
3 Plant No-Till	1		2.40	0.87	0.83	4.37	2.76	6.70	17.93	
4 Spray	Custom									
5 Pivot D 125' Lift	12	ai	8.33	57.62	4.12	19.37	5.96	11.58	106.98	
6 Aerial Spray	Custom									
7 Chop Silage	Custom									
Total for Field Operations			11.73	58.76	5.28	24.38	9.83	19.16	129.14	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
				Rate	Unit			
2,4-D Ester 4#	Herbicide	1	100%	1	pint	2.56	2.56	
Uncomposted manure	Fertilizer	2	100%	20	ton	1.00	20.00	
Haul & Apply Manure	Custom	2	100%	20	ton	6.00	120.00	
Bicep II Magnum	Herbicide	3	100%	1.4	quart	12.50	17.50	
Corn	Seed	3	100%	30.8	k seed	2.50	76.92	
* Capture LFR	Insecticide	3	100%	6.6	ounce	2.81	18.56	
Spray	Custom	4	50%	1	acre	7.00	3.50	
Status	Herbicide	4	50%	5	ounce	4.30	10.75	
NIS	Additive	4	50%	6	ounce	0.17	0.52	
UAN	Additive	4	50%	4	pint	0.21	0.41	
* Aerial Spray	Custom	6	15%	1	acre	9.50	1.43	
* Brigade 2EC	Insecticide	6	10%	2.5	ounce	1.13	0.28	
* Mustang Max EC	Insecticide	6	5%	2	ounce	1.48	0.15	
Chop, Haul, Pack	Custom	7	100%	25	ton	11.00	275.00	
Scouting Irrigated Corn	Scouting		100%	1	acre	10.00	10.00	
Corn Irrigated	Crop Insurance					6.00	6.00	
Total Materials & Services							563.58	

*Insecticide for rootworm, 1st & 2nd brood European Corn Borer Western and Bean Cutworm, respectively.

Total listed costs for Field Operations and Materials and Services							692.72	
Interest on Operations Capital \$ 663.73	cash expense @	5.50%	for 6.0 mo.				18.25	
Total Operating and Use Related Ownership Costs							710.97	
Overhead (accounting, liability insurance, vehicle cost, office expense)							20.00	
Real Estate Opportunity	Pivot (State)	\$ 7,315	per acre @	4.00%			292.60	
Real Estate Taxes		\$ 7,315	per acre @	1.00%			73.15	
Total Cost per Acre Including Overhead							1,096.72	
Cost per ton							42.18	
Cash Cost per ton							29.04	

2016 Budget 34-Dry Beans, Reduced Till with Wheat Cover Crop after Harvest (25 cwt Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 8 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	1.97	0.29	1.24	4.14	1.21	10.87	
2 Field Cultivation	1		1.47	1.41	0.56	1.28	1.84	1.57	8.13	
3 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
4 Plant	1		2.40	0.71	0.83	2.54	2.76	3.89	13.13	
5 Pivot E 125' Lift	8	ai	5.56	22.30	2.34	12.91	4.24	7.72	55.07	
6 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
7 Aerial Spray	Custom									
8 Aerial Spray	Custom									
9 Pickett Windrowers	1		2.20	1.57	0.83	0.72	2.76	1.38	9.46	
10 Combine Irr Dry Beans	1		4.40	5.43	10.23	2.01	8.39	2.81	33.27	
11 Truck	Custom									
12 Drill	1		1.76	1.03	0.67	2.94	2.21	2.62	11.23	
Total for Field Operations			21.81	34.96	16.41	24.92	28.56	22.96	149.62	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate	
			Rate	Unit				
Outlook		3	100%	14	ounce	1.17	16.41	
Prowl H2O		3	100%	2	pint	6.50	13.00	
Edible Beans		4	100%	0.65	cwt	92.00	59.80	
10-34-0-1Z		4	100%	7	gallon	2.85	19.95	
32-0-0		4	100%	7	lbs N	0.47	3.29	
Electricity Fixed		5	100%	1	acre	30.00	30.00	
Basagran		6	60%	1	pint	10.00	6.00	
Raptor		6	60%	4	ounce	4.77	11.44	
NIS		6	60%	5	ounce	0.17	0.52	
UAN		6	60%	4	pint	0.21	0.50	
* Aerial Spray		7	60%	1	acre	9.50	5.70	
* Asana XL		7	60%	4.5	ounce	0.66	1.79	
Aerial Spray		8	100%	1	acre	9.50	9.50	
Copper		8	100%	2	pint	3.50	7.00	
Priaxor		8	100%	4	ounce	5.23	20.94	
Haul Grain (Dry Beans)		11	100%	25	cwt	0.28	7.00	
Wheat		12	100%	30	pound	0.12	3.60	
Scouting Dry Beans			100%	1	acre	10.00	10.00	
Dry Beans						16.30	16.30	
Total Materials & Services						242.74		

*Insecticide for Mexican bean beetle and Western Bean Cutworm (10%).

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 340.84 cash expense @ 5.50% for 6.0 mo. 9.37

Total Operating and Use Related Ownership Costs 401.73

Overhead (accounting, liability insurance, vehicle cost, office expense) 20.00

Real Estate Opportunity Pivot (Panhandle) \$ 3,625 per acre @ 4.00% 145.00

Real Estate Taxes \$ 3,625 per acre @ 1.00% 36.25

Total Cost per Acre Including Overhead 602.98

Cost per cwt 24.12

Cash Cost per cwt 15.46

2016 Budget 35-Dry Beans, Conventional Tillage (25 cwt Actual Yield)
Canal Irrigated, Gravity, 10 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Chop Stalks	1		1.78	1.20	0.68	0.34	2.24	1.69	7.93	
2 Disk	2		4.03	3.93	0.58	2.49	8.29	2.41	21.73	
3 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
4 Plow	1		2.93	2.07	0.42	0.83	6.03	0.56	12.84	
5 Roller Harrow	1		2.00	1.29	0.83	0.52	2.76	1.64	9.04	
6 Field Cultivation	1		1.47	1.41	0.56	1.28	1.84	1.57	8.13	
7 Plant	1		2.40	0.71	0.83	2.54	2.76	3.89	13.13	
8 Spray	0.6		0.60	0.16	0.20	0.38	0.66	0.53	2.53	
9 Row Crop Cultivation	1		2.00	0.82	0.76	0.44	2.51	1.64	8.17	
10 Ridge Cultivate/Ditch	1		1.83	1.15	0.69	0.37	2.30	1.64	7.98	
11 Ditch Irrigation	10	ai	11.11	0.00	0.00	0.00	0.00	0.00	11.11	
12 Aerial Spray	Custom									
13 Aerial Spray	Custom									
14 Pickett Windrowers	1		2.20	1.57	0.83	0.72	2.76	1.38	9.46	
15 Combine Irr Dry Beans	1		4.40	5.43	10.23	2.01	8.39	2.81	33.27	
16 Truck	Custom									
17 Chisel	1		1.98	1.93	0.75	2.02	2.49	1.57	10.74	
Total for Field Operations			39.73	21.94	17.69	14.58	44.14	22.21	160.29	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Outlook	Herbicide	3	100%	14 ounce	1.17	16.41
Prowl H2O	Herbicide	3	100%	2 pint	6.50	13.00
Edible Beans	Seed	7	100%	0.65 cwt	92.00	59.80
10-34-0-1Z	Fertilizer	7	100%	7 gallon	2.85	19.95
32-0-0	Fertilizer	7	100%	7 lbs N	0.47	3.29
Basagran	Herbicide	8	60%	1 pint	10.00	6.00
Raptor	Herbicide	8	60%	4 ounce	4.77	11.44
NIS	Additive	8	60%	5 ounce	0.17	0.52
UAN	Additive	8	60%	4 pint	0.21	0.50
* Aerial Spray	Custom	12	60%	1 acre	9.50	5.70
* Asana XL	Insecticide	12	60%	4.5 ounce	0.66	1.79
Aerial Spray	Custom	13	100%	1 acre	9.50	9.50
Copper	Fungicide	13	100%	2 pint	3.50	7.00
Priaxor	Fungicide	13	100%	4 ounce	5.23	20.94
Haul Grain (Dry Beans)	Custom	16	100%	25 cwt	0.28	7.00
Irrigation District O&M Charge	Other	11	100%	1 acre	30.00	30.00
Scouting Dry Beans	Scouting		100%	1 acre	10.00	10.00
Dry Beans	Crop Insurance				16.30	16.30
Total Materials & Services					239.14	

* Mexican Bean Beetle and Western Bean Cutworm

Total listed costs for Field Operations and Materials and Services	399.43
Interest on Operations Capital \$ 333.08 cash expense @ 5.50% for 6.0 mo.	9.16

Total Operating and Use Related Ownership Costs	408.59
--	--------

Overhead (accounting, liability insurance, vehicle cost, office expense) 20.00

Real Estate Opportunity Gravity (Panhandle) \$ 3,235 per acre @ 4.00%	129.40
Real Estate Taxes \$ 3,235 per acre @ 1.00%	32.35

Total Cost per Acre Including Overhead	590.34
---	--------

Cost per cwt	23.61
---------------------	-------

Cash Cost per cwt	14.98
--------------------------	-------

**2016 Budget 36-Dry Beans, Conventional Tillage Using Pumped Water (25 cwt Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 9 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	2		4.03	3.93	0.58	2.49	8.29	2.41	21.73	
2 Chisel	1		1.98	1.93	0.75	2.02	2.49	1.57	10.74	
3 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
4 Field Cultivation	1		1.47	1.41	0.56	1.28	1.84	1.57	8.13	
5 Plant	1		2.40	0.71	0.83	2.54	2.76	3.89	13.13	
6 Spray	0.6		0.60	0.16	0.20	0.38	0.66	0.53	2.53	
7 Row Crop Cultivation	1		2.00	0.82	0.76	0.44	2.51	1.64	8.17	
8 Pivot E 125' Lift	9	ai	6.25	25.08	2.63	14.53	4.77	8.69	61.95	
9 Aerial Spray	Custom									
10 Aerial Spray	Custom									
11 Pickett Windrowers	1		2.20	1.57	0.83	0.72	2.76	1.38	9.46	
12 Combine Irr Dry Beans	1		4.40	5.43	10.23	2.01	8.39	2.81	33.27	
13 Truck	Custom									
Total for Field Operations			26.33	41.31	17.70	27.05	35.58	25.37	173.34	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate	
			Rate	Unit				
Outlook	Herbicide	3	100%	14	ounce	1.17	16.41	
Prowl H2O	Herbicide	3	100%	2	pint	6.50	13.00	
Edible Beans	Seed	5	100%	0.65	cwt	92.00	59.80	
10-34-0-1Z	Fertilizer	5	100%	7	gallon	2.85	19.95	
32-0-0	Fertilizer	5	100%	7	lbs N	0.47	3.29	
Raptor	Herbicide	6	60%	4	ounce	4.77	11.44	
Basagran	Herbicide	6	60%	1	pint	10.00	6.00	
NIS	Additive	6	60%	5	ounce	0.17	0.52	
UAN	Additive	6	60%	4	pint	0.21	0.50	
Electricity Fixed	Other	8	100%	1	acre	30.00	30.00	
* Aerial Spray	Custom	9	60%	1	acre	9.50	5.70	
* Asana XL	Insecticide	9	60%	4.5	ounce	0.66	1.79	
Aerial Spray	Custom	10	100%	1	acre	9.50	9.50	
Copper	Fungicide	10	100%	2	pint	3.50	7.00	
Priaxor	Fungicide	10	100%	4	ounce	5.23	20.94	
Haul Grain (Dry Beans)	Custom	13	100%	25	cwt	0.28	7.00	
Scouting Dry Beans	Scouting		100%	1	acre	10.00	10.00	
Dry Beans	Crop Insurance					16.30	16.30	
Total Materials & Services							239.14	

* Mexican Bean Beetle and Western Bean Cutworm

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 351.53 cash expense @ 5.50% for 6.0 mo. 9.67

Total Operating and Use Related Ownership Costs 422.15

Overhead (accounting, liability insurance, vehicle cost, office expense)

Real Estate Opportunity \$ 3,625 per acre @ 4.00% 145.00

Real Estate Taxes \$ 3,625 per acre @ 1.00% 36.25

Total Cost per Acre Including Overhead 623.40

Cost per cwt 24.94

Cash Cost per cwt 15.90

**2016 Budget 37-Dry Beans, Direct Harvest, Conventional Tillage Using Pumped Water (25 cwt Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 9 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	2		4.03	3.93	0.58	2.49	8.29	2.41	21.73	
2 Chisel	1		1.98	1.93	0.75	2.02	2.49	1.57	10.74	
3 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
4 Field Cultivation	1		1.47	1.41	0.56	1.28	1.84	1.57	8.13	
5 Plant	1		2.40	0.71	0.83	2.54	2.76	3.89	13.13	
6 Spray	0.6		0.60	0.16	0.20	0.38	0.66	0.53	2.53	
7 Row Crop Cultivation	1		2.00	0.82	0.76	0.44	2.51	1.64	8.17	
8 Pivot E 125' Lift	9	ai	6.25	25.08	2.63	14.53	4.77	8.69	61.95	
9 Aerial Spray	Custom									
10 Aerial Spray	Custom									
11 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
12 Combine Irrigated Dry Beans with Draper Flex Platform	1		4.40	5.43	10.23	2.01	8.39	2.81	33.27	
13 Truck	Custom									
Total for Field Operations			25.13	40.01	17.20	26.97	33.93	24.87	168.11	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
				Rate	Unit			
Outlook	Herbicide	3	100%	14	ounce	1.17	16.41	
Prowl H2O	Herbicide	3	100%	2	pint	6.50	13.00	
Edible Beans	Seed	5	100%	1	cwt	92.00	92.00	
10-34-0-1Z	Fertilizer	5	100%	7	gallon	2.85	19.95	
32-0-0	Fertilizer	5	100%	7	lbs N	0.47	3.29	
Raptor	Herbicide	6	60%	4	ounce	4.77	11.44	
Basagran	Herbicide	6	60%	1	pint	10.00	6.00	
NIS	Additive	6	60%	5	ounce	0.17	0.52	
UAN	Additive	6	60%	4	pint	0.21	0.50	
Electricity Fixed	Other	8	100%	1	acre	30.00	30.00	
* Aerial Spray	Custom	9	60%	1	acre	9.50	5.70	
* Asana XL	Insecticide	9	60%	4.5	ounce	0.66	1.79	
Aerial Spray	Custom	10	100%	1	acre	9.50	9.50	
Copper	Fungicide	10	100%	2	pint	3.50	7.00	
Priaxor	Fungicide	10	100%	4	ounce	5.23	20.94	
Gramoxone SL	Herbicide	11	100%	2	pint	5.38	10.75	
Haul Grain (Dry Beans)	Custom	13	100%	25	cwt	0.28	7.00	
Scouting Dry Beans	Scouting		100%	1	acre	10.00	10.00	
Dry Beans	Crop Insurance					16.30	16.30	
Total Materials & Services							282.09	

* Mexican Bean Beetle and Western Bean Cutworm

Total listed costs for Field Operations and Materials and Services		450.20
Interest on Operations Capital \$ 391.40 cash expense @ 5.50% for 6.0 mo.		10.76
Total Operating and Use Related Ownership Costs		460.96

Overhead (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity <input type="text" value="Pivot (Panhandle)"/> \$ 3,625 per acre @ 4.00%		145.00
Real Estate Taxes \$ 3,625 per acre @ 1.00%		36.25
Total Cost per Acre Including Overhead		662.21

Cost per cwt	26.49
Cash Cost per cwt	17.54

A potential yield loss of 92-120 pounds per acre (but can be as high as 240-480 pounds per acre) with direct harvest is possible because of beans lost on the lower stem. A draper flex platform is usually the best choice for direct harvest. Direct harvest reduces field operations and weather related losses while beans are drying in the windrow. Undercutting and windrowing has even resulted in total crop loss. In these budgets we have not adjusted dry bean yields because of different harvesting methods.

**2016 Budget 38-Grain Sorghum, Conventional Tillage, 105 bu Yield Goal (95 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	1.97	0.29	1.24	4.14	1.21	10.87	
2 Anhydrous Apply	1		1.83	1.37	0.69	0.58	2.30	3.94	10.71	
3 Field Cultivation	1		1.47	1.41	0.56	1.28	1.84	1.57	8.13	
4 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
5 Plant	1		2.40	0.71	0.83	2.54	2.76	3.89	13.13	
6 Row Crop Cultivation	1		2.00	0.82	0.76	0.44	2.51	1.64	8.17	
7 Row Crop Cultivation	0.25		0.50	0.21	0.19	0.11	0.63	0.41	2.05	
8 Spray	0.5		0.50	0.14	0.17	0.32	0.55	0.44	2.12	
9 Aerial Spray	Custom									
10 Combine Dryland SG	1		3.38	4.18	7.87	1.10	6.45	2.81	25.79	
11 Cart	95	bu	1.36	0.48	0.51	0.87	1.71	0.56	5.49	
12 Truck	Custom									
Total for Field Operations			16.46	11.56	12.20	9.12	24.00	17.35	90.69	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
82-0-0	Fertilizer	2	100%	100 lbs N	0.43	43.00
10-34-0	Fertilizer	4	100%	6 gallon	2.80	16.80
Lumax EZ	Herbicide	4	100%	2.7 quart	20.00	54.00
AAtrex 4L	Herbicide	4	100%	0.5 quart	5.25	2.63
Sorghum Safened/Insect	Seed	5	100%	4 pound	3.20	12.80
Huskie	Herbicide	8	50%	11 ounce	0.94	5.16
21-0-0-24S	Additive	8	50%	1 pound	0.35	0.18
* Aerial Spray	Custom	9	15%	1 acre	9.50	1.43
* Lorsban Advanced	Insecticide	9	15%	1.5 pint	6.88	1.55
Haul Grain Bushels	Custom	12	100%	95 bushel	0.11	10.45
Scouting Grain Sorghum	Scouting		100%	1 acre	7.00	7.00
Grain Sorghum Dryland	Crop Insurance				8.82	8.82
Total Materials & Services					163.82	

*Treating greenbugs one year in 10, chinchbugs one in 20.

Total listed costs for Field Operations and Materials and Services					254.51	
Interest on Operations Capital \$ 213.16	cash expense @	5.50%	for 6.0 mo.		5.86	
Total Operating and Use Related Ownership Costs					260.37	
Overhead (accounting, liability insurance, vehicle cost, office expense)					20.00	
** Real Estate Opportunity	Dryland (Southwest)	\$ 1,299	per acre @	4.00%	51.94	
** Real Estate Taxes		\$ 1,299	per acre @	1.00%	12.99	
Total Cost per Acre Including Overhead					345.30	
Cost per bu					3.63	
Cash Cost per bu					2.44	

** Since sorghum is generally planted on less productive land, real estate cost is reduced to 70% of average value.

**2016 Budget 39-Grain Sorghum, No-Till, 125 bu Yield Goal (115 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
2 Spray Fertilizer and Herbicide	1		1.00	0.27	0.33	0.19	1.11	2.21	5.11	
3 Plant No-Till	1		2.40	0.87	0.83	4.37	2.76	6.70	17.93	
4 Spray	0.5		0.50	0.14	0.17	0.32	0.55	0.44	2.12	
5 Aerial Spray	Custom									
6 Combine Dryland SG	1		3.38	4.18	7.87	1.10	6.45	2.81	25.79	
7 Cart	115	bu								
8 Truck	Custom									
Total for Field Operations			8.28	5.73	9.53	6.62	11.98	13.04	55.18	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate	Unit	Applied Price	Total	Your Estimate
2,4-D Ester 4#	Herbicide	1	100%	1 pint	2.56	2.56	
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60	
32-0-0	Fertilizer	2	100%	120 lbs N	0.47	56.40	
Lumax EZ	Herbicide	2	100%	2.7 quart	20.00	54.00	
AAtrex 4L	Herbicide	2	100%	0.5 quart	5.25	2.63	
10-34-0	Fertilizer	3	100%	6 gallon	2.80	16.80	
Sorghum Safened/Insect	Seed	3	100%	4 pound	3.20	12.80	
Huskie	Herbicide	4	50%	11 ounce	0.94	5.16	
21-0-0-24S	Additive	4	50%	1 pound	0.35	0.18	
* Aerial Spray	Custom	5	15%	1 acre	9.50	1.43	
* Lorsban Advanced	Insecticide	5	15%	1.5 pint	6.88	1.55	
Haul Grain Bushels	Custom	8	100%	115 bushel	0.11	12.65	
Scouting Grain Sorghum	Scouting		100%	1 acre	7.00	7.00	
Grain Sorghum Dryland	Crop Insurance				9.58	9.58	
Total Materials & Services						187.34	

*Treating greenbugs one year in 10, chinchbugs one in 20.

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 217.50	cash expense @ 5.50% for 6.0 mo.	5.98
Total Operating and Use Related Ownership Costs		248.50

Overhead (accounting, liability insurance, vehicle cost, office expense)

** Real Estate Opportunity	Dryland (State)	\$ 2,373	per acre @ 4.00%	94.92
** Real Estate Taxes		\$ 2,373	per acre @ 1.00%	23.73

Total Cost per Acre Including Overhead

Cost per bu	3.37
Cash Cost per bu	2.15

** Since sorghum is generally planted on less productive land, real estate cost is reduced to 70% of average value.

**2016 Budget 40-Grain Sorghum, Ecofallow, After Wheat, Two Crops in Three Years, 115 bu Yield Goal (105 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
2 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
3 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
4 No-Till Drill	1		1.83	1.31	0.69	1.57	2.30	3.54	11.24	
5 Spray	0.5		0.50	0.14	0.17	0.32	0.55	0.44	2.12	
6 Aerial Spray	Custom									
7 Combine Dryland SG	1		3.38	4.18	7.87	1.10	6.45	2.81	25.79	
8 Cart	105	bu	1.50	0.53	0.57	0.96	1.88	0.61	6.05	
9 Truck	Custom									
Total for Field Operations			10.21	6.97	10.29	5.87	14.51	10.04	57.89	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
				Rate	Unit			
Glyphosate w/Surf	Herbicide	1	100%	32	ounce	0.13	4.00	
2,4-D Ester 4#	Herbicide	1	100%	1	pint	2.56	2.56	
21-0-0-24S	Additive	1	100%	1.7	pound	0.35	0.60	
AAtrex 4L	Herbicide	2	100%	1	quart	5.25	5.25	
Gramoxone SL	Herbicide	2	100%	1.5	pint	5.38	8.06	
32-0-0	Fertilizer	3	100%	110	lbs N	0.47	51.70	
Lumax EZ	Herbicide	3	100%	2.7	quart	20.00	54.00	
10-34-0	Fertilizer	4	100%	6	gallon	2.80	16.80	
Sorghum Safened/Insect	Seed	4	100%	4	pound	3.20	12.80	
Huskie	Herbicide	5	50%	11	ounce	0.94	5.16	
21-0-0-24S	Additive	5	50%	1	pound	0.35	0.18	
* Aerial Spray	Custom	6	15%	1	acre	9.50	1.43	
* Lorsban Advanced	Insecticide	6	15%	1.5	pint	6.88	1.55	
Haul Grain Bushels	Custom	9	100%	105	bushel	0.11	11.55	
Scouting Grain Sorghum	Scouting		100%	1	acre	7.00	7.00	
Grain Sorghum Dryland	Crop Insurance					9.22	9.22	
Total Materials & Services							191.86	

*Treating greenbugs one year in 10, chinchbugs one in 20.

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 225.20	cash expense @	5.50%	for 6.0 mo.	6.19
Total Operating and Use Related Ownership Costs				255.94

Overhead (accounting, liability insurance, vehicle cost, office expense)

** Real Estate Opportunity	Dryland (Southwest)	\$ 1,299	per acre @	4.00%	51.94
** Real Estate Taxes		\$ 1,299	per acre @	1.00%	12.99

Total Cost per Acre Including Overhead 340.87

Cost per bu 3.25

Cash Cost per bu 2.33

** Since sorghum is generally planted on less productive land, real estate cost is reduced to 70% of average value.

**2016 Budget 41-Grain Sorghum, No-Till, Limited Irrigation, 165 bu Yield Goal (150 bu Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 6 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
2 Anhydrous Apply	1		1.83	1.37	0.69	0.58	2.30	3.94	10.71	
3 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
4 Plant No-Till	1		2.40	0.87	0.83	4.37	2.76	6.70	17.93	
5 Spray	0.5		0.50	0.14	0.17	0.32	0.55	0.44	2.12	
6 Aerial Spray	Custom									
7 Pivot D 125' Lift	6	ai	4.17	28.81	2.06	9.68	2.98	5.79	53.49	
8 Combine Irr SG	1		3.38	4.18	7.87	1.10	6.45	2.81	25.79	
9 Cart	150	bu	2.14	0.76	0.81	1.37	2.69	0.88	8.65	
10 Truck	Custom									
Total for Field Operations			16.42	36.67	13.09	18.70	19.95	22.32	127.15	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
				Rate	Unit			
Glyphosate w/Surf	Herbicide	1	100%	32	ounce	0.13	4.00	
2,4-D Ester 4#	Herbicide	1	100%	1	pint	2.56	2.56	
21-0-0-24S	Additive	1	100%	1.7	pound	0.35	0.60	
82-0-0	Fertilizer	2	100%	150	lbs N	0.43	64.50	
Lumax EZ	Herbicide	3	100%	2.7	quart	20.00	54.00	
AAtrex 4L	Herbicide	3	100%	0.5	quart	5.25	2.63	
10-34-0	Fertilizer	4	100%	6	gallon	2.80	16.80	
Sorghum Safened/Insect	Seed	4	100%	6	pound	3.20	19.20	
Huskie	Herbicide	5	50%	11	ounce	0.94	5.16	
21-0-0-24S	Additive	5	50%	1	pound	0.35	0.18	
* Aerial Spray	Custom	6	15%	1	acre	9.50	1.43	
* Lorsban Advanced	Insecticide	6	15%	1.5	pint	6.88	1.55	
Haul Grain Bushels	Custom	10	100%	150	bushel	0.11	16.50	
Scouting Grain Sorghum	Scouting		100%	1	acre	7.00	7.00	
Grain Sorghum Irrigated	Crop Insurance					7.33	7.33	
Total Materials & Services							203.44	

*Treating greenbugs one year in 10, chinchbugs one in 20.

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 288.32 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

Overhead (accounting, liability insurance, vehicle cost, office expense)

** Real Estate Opportunity Pivot (Marginal Land) \$ 3,584 per acre @ 4.00%
 ** Real Estate Taxes \$ 3,584 per acre @ 1.00%

Total Cost per Acre Including Overhead

Cost per bu

Cash Cost per bu

** Since sorghum is generally planted on less productive land, real estate cost is reduced to 70% of average value.

2016 Budget 42-Grass, Fall Establishment
Pivot Irrigated, 800 GPM 35 PSI, 2 acre/inches

Field Operations		Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	1		2.02	1.97	0.29	1.24	4.14	1.21	10.87	
2	Field Cultivation	1		1.47	1.41	0.56	1.28	1.84	1.57	8.13	
3	Roll	1		2.22	1.57	0.93	0.00	3.07	0.00	7.79	
4	Grass Drill	1		2.44	1.23	0.93	6.46	3.07	2.88	17.01	
5	Pivot D 125' Lift	2	ai	1.39	9.60	0.69	3.23	0.99	1.93	17.83	
6	Spread Fertilizer	1		1.57	0.79	0.66	0.00	2.18	0.00	5.20	
Total for Field Operations				11.11	16.57	4.06	12.21	15.29	7.59	66.83	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
11-52-0	Fertilizer	6	100%	60 pound	0.28	16.80	
Total Materials & Services						76.80	

Total listed costs for Field Operations and Materials and Services						143.63	
Interest on Operations Capital \$ 120.75 cash expense @ 5.50% for 6.0 mo.						3.32	
Total Operating and Use Related Ownership Costs						146.95	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Fall Establishment	\$	-	per acre @	4.00%	0.00	
Real Estate Taxes		\$	-	per acre @	1.00%	0.00	
Total Cost per Acre Including Overhead						166.95	

**2016 Budget 43-Grass Hay, Large Round Bale (2.2 ton Actual Yield)
Dryland**

Field Operations		Times or Qty	Labor @ Unit	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
			\$20.00 /Hr		Power	Imp.	Power	Imp.		
1	Spread Fertilizer	1	1.57	0.79	0.66	0.00	2.18	0.00	5.20	_____
2	Swath/Condition Hay	1	2.00	1.29	2.29	0.00	3.61	0.00	9.19	_____
3	Large Round Bale	2.2 ton	4.84	1.64	1.83	4.43	6.08	4.62	23.44	_____
4	Move Large Round	2.2 ton	2.42	1.14	0.92	0.00	3.04	0.13	7.65	_____
Total for Field Operations			10.83	4.86	5.70	4.43	14.91	4.75	45.48	_____
Materials & Services				Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
46-0-0		Fertilizer		1	100%	40 lbs N	0.48	19.20	_____	
11-52-0		Fertilizer		1	100%	15 pound	0.28	4.20	_____	
Twine Large Round		Other		3	100%	2.2 ton	0.91	2.00	_____	
Total Materials & Services								25.40	_____	
Total listed costs for Field Operations and Materials and Services									70.88	_____
Interest on Operations Capital \$ 51.22 cash expense @ 5.50% for 6.0 mo.									1.41	_____
Total Operating and Use Related Ownership Costs									72.29	_____
Overhead (accounting, liability insurance, vehicle cost, office expense)									20.00	_____
Real Estate Opportunity		Dryland (State)	\$ 3,390		per acre @	4.00%		135.60	_____	
Real Estate Taxes			\$ 3,390		per acre @	1.00%		33.90	_____	
Total Cost per Acre Including Overhead									261.79	_____
Cost per ton									118.99	_____
Cash Cost per ton									39.33	_____

**2016 Budget 44-Millet, Panhandle, Stubble Mulch Fallow, Followed by Wheat, Two Crops in Three Years (22 cwt Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	_____
2 Fallow Master	1		1.76	1.78	0.25	0.92	3.62	1.57	9.90	_____
3 Rod Weeder	1		1.52	1.05	0.63	0.23	2.09	0.99	6.51	_____
4 Spray Fertilizer	1		1.00	0.27	0.33	0.19	1.11	2.21	5.11	_____
5 Drill	1		1.76	1.03	0.67	2.94	2.21	2.62	11.23	_____
6 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	_____
7 Windrow Grain	1		2.00	1.29	2.29	0.00	3.61	0.00	9.19	_____
8 Combine Small Grain	1		3.14	3.87	7.31	0.93	5.99	2.81	24.05	_____
9 Truck	Custom									_____
Total for Field Operations			13.18	9.83	12.14	6.49	20.85	11.96	74.45	_____

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
				Rate	Unit			
Glyphosate w/Surf	Herbicide	1	100%	32	ounce	0.13	4.00	_____
2,4-D Ester 4#	Herbicide	1	100%	1.5	pint	2.56	3.84	_____
21-0-0-24S	Additive	1	100%	1.7	pound	0.35	0.60	_____
28-0-0	Fertilizer	4	100%	45	lbs N	0.47	21.00	_____
Millet	Seed	5	100%	12	pound	0.45	5.40	_____
2,4-D Amine	Herbicide	6	100%	0.75	pint	1.88	1.41	_____
Dicamba	Herbicide	6	100%	0.5	ounce	0.59	0.29	_____
Haul Grain (Millet)	Custom	9	100%	22	cwt	0.24	5.28	_____
Total Materials & Services							41.82	_____

Total listed costs for Field Operations and Materials and Services							116.27	_____
Interest on Operations Capital \$ 83.46 cash expense @ 5.50% for 6.0 mo.							2.30	_____
Total Operating and Use Related Ownership Costs							118.57	_____
Overhead (accounting, liability insurance, vehicle cost, office expense)							20.00	_____
Real Estate Opportunity	Dryland (Panhandle)	\$	730	per acre @	4.00%		29.20	_____
Real Estate Taxes		\$	730	per acre @	1.00%		7.30	_____
Total Cost per Acre Including Overhead							175.07	_____
Cost per cwt							7.96	_____
Cash Cost per cwt							4.23	_____

**2016 Budget 45-Millet, No-Till (22 cwt Actual Yield)
Dryland**

Field Operations	Times or Qty	Labor @ Unit \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
				Power	Imp.	Power	Imp.		
1 Spray	1	1.00	0.27	0.33	0.64	1.11	0.88	4.23	_____
2 Spray Fertilizer	1	1.00	0.27	0.33	0.19	1.11	2.21	5.11	_____
3 No-Till Drill	1	1.83	1.31	0.69	1.57	2.30	3.54	11.24	_____
4 Spray	1	1.00	0.27	0.33	0.64	1.11	0.88	4.23	_____
5 Windrow Grain	1	2.00	1.29	2.29	0.00	3.61	0.00	9.19	_____
6 Combine Small Grain	1	3.14	3.87	7.31	0.93	5.99	2.81	24.05	_____
7 Truck	Custom								_____
Total for Field Operations		9.97	7.28	11.28	3.97	15.23	10.32	58.05	_____

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
				Rate	Unit			
Glyphosate w/Surf	Herbicide	1	100%	36	ounce	0.13	4.50	_____
21-0-0-24S	Additive	1	100%	1.7	pound	0.35	0.60	_____
28-0-0	Fertilizer	2	100%	45	lbs N	0.47	21.00	_____
Glyphosate w/Surf	Herbicide	2	100%	20	ounce	0.13	2.50	_____
Vida	Herbicide	2	100%	2	ounce	0.03	0.05	_____
Millet	Seed	3	100%	12	pound	0.45	5.40	_____
2,4-D Amine	Herbicide	4	100%	0.75	pint	1.88	1.41	_____
Dicamba	Herbicide	4	100%	0.5	ounce	0.59	0.29	_____
Haul Grain (Millet)	Custom	7	100%	22	cwt	0.24	5.28	_____
Total Materials & Services							41.03	_____

Total listed costs for Field Operations and Materials and Services							99.08	_____
Interest on Operations Capital \$ 73.53 cash expense @ 5.50% for 6.0 mo.							2.02	_____
Total Operating and Use Related Ownership Costs							101.10	_____
Overhead (accounting, liability insurance, vehicle cost, office expense)							20.00	_____
Real Estate Opportunity	Dryland (Panhandle)	\$	730	per acre @	4.00%		29.20	_____
Real Estate Taxes		\$	730	per acre @	1.00%		7.30	_____
Total Cost per Acre Including Overhead							157.60	_____
Cost per cwt							7.16	_____
Cash Cost per cwt							3.43	_____

**2016 Budget 46-Oats, No-Till, 90 bu Yield Goal (85 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Labor @ Unit	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate	
				Power	Imp.	Power	Imp.			
1 Spray Fertilizer	1	1.00	0.27	0.33	0.19	1.11	2.21	5.11		
2 No-Till Drill	1	1.83	1.31	0.69	1.57	2.30	3.54	11.24		
3 Spray	1	1.00	0.27	0.33	0.64	1.11	0.88	4.23		
4 Combine Small Grain	1	3.14	3.87	7.31	0.93	5.99	2.81	24.05		
5 Truck	Custom									
Total for Field Operations			6.97	5.72	8.66	3.33	10.51	9.44	44.63	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Oats	Seed	2	100%	2 bushel	9.00	18.00
10-34-0	Fertilizer	2	100%	6 gallon	2.80	16.80
Aim 2EC	Herbicide	3	100%	0.5 ounce	6.25	3.13
2,4-D Ester 4#	Herbicide	3	100%	0.5 pint	2.56	1.28
NIS	Additive	3	100%	6 ounce	0.17	1.03
Haul Grain Bushels	Custom	5	100%	85 bushel	0.11	9.35
Total Materials & Services						96.26

Total listed costs for Field Operations and Materials and Services 140.89

Interest on Operations Capital \$ 120.94 cash expense @ 5.50% for 6.0 mo. 3.33

Total Operating and Use Related Ownership Costs 144.22

Overhead (accounting, liability insurance, vehicle cost, office expense) 20.00

Real Estate Opportunity \$ 3,390 per acre @ 4.00% 135.60

Real Estate Taxes \$ 3,390 per acre @ 1.00% 33.90

Total Cost per Acre Including Overhead 333.72

Cost per bu 3.93

Cash Cost per bu 1.86

2016 Budget 47-Pasture, Grazing (11 AUM Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 18 acre/inches

Field Operations		Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Pivot D 125' Lift	18	ai	12.50	86.42	6.17	29.05	8.94	17.38	160.46	
Total for Field Operations				12.50	86.42	6.17	29.05	8.94	17.38	160.46	
Materials & Services					Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
	28-0-0		Fertilizer		1	100%	220 lbs N	0.47	102.67		
	Fence/Water Repairs		Other			100%	1 acre	2.00	2.00		
	Fence/Water Repairs		Other			100%	1 acre	2.00	2.00		
	Move Cattle		Other			100%	1 hour	20.00	20.00		
Total Materials & Services									126.67		
Total listed costs for Field Operations and Materials and Services									287.13		
Interest on Operations Capital \$ 260.81 cash expense @ 5.50% for 6.0 mo.									7.17		
Total Operating and Use Related Ownership Costs									294.30		
Overhead (accounting, liability insurance, vehicle cost, office expense)									20.00		
	Real Estate Opportunity		Pivot (Marginal Land)	\$ 5,121		per acre @		4.00%	204.82		
	Real Estate Taxes			\$ 5,121		per acre @		1.00%	51.21		
Total Cost per Acre Including Overhead									570.33		
Cost per AUM									51.85		
Cash Cost per AUM									29.02		

**2016 Budget 48-Peas, Panhandle, No-Till (35 bu Actual Yield)
Dryland**

Field Operations		Times or Qty	Labor @ Unit \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	No-Till Drill	1	1.83	1.31	0.69	1.57	2.30	3.54	11.24	_____
2	Spray	1	1.00	0.27	0.33	0.64	1.11	0.88	4.23	_____
3	Combine Small Grain	1	3.14	3.87	7.31	0.93	5.99	2.81	24.05	_____
4	Truck	Custom								_____
Total for Field Operations			5.97	5.45	8.33	3.14	9.40	7.23	39.52	_____
Materials & Services			Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate		
	Peas	Seed	1	100%	3 bushel	18.00	54.00	_____		
	Pea Seed Inoculant	Fungicide	1	100%	1 pound	8.00	8.00	_____		
	Sharpen	Herbicide	2	100%	2 ounce	6.80	13.59	_____		
	Glyphosate w/Surf	Herbicide	2	100%	32 ounce	0.13	4.00	_____		
	21-0-0-24S	Additive	2	100%	1.7 pound	0.35	0.60	_____		
	Haul Grain Bushels	Custom	4	100%	35 bushel	0.11	3.85	_____		
Total Materials & Services							84.04	_____		
Total listed costs for Field Operations and Materials and Services									123.56	_____
Interest on Operations Capital \$ 106.93 cash expense @ 5.50% for 6.0 mo.									2.94	_____
Total Operating and Use Related Ownership Costs									126.50	_____
Overhead (accounting, liability insurance, vehicle cost, office expense)									20.00	_____
Real Estate Opportunity Dryland (Panhandle) \$ 730 per acre @ 4.00%									29.20	_____
Real Estate Taxes \$ 730 per acre @ 1.00%									7.30	_____
Total Cost per Acre Including Overhead									183.00	_____
Cost per bu									5.23	_____
Cash Cost per bu									3.14	_____

**2016 Budget 49-Sorghum-Sudan, Annually Planted, Large Round Bale (3.3 ton Actual Yield)
Dryland**

Field Operations		Times or Qty	Labor @ Unit	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
			\$20.00 /Hr		Power	Imp.	Power	Imp.		
1	Disk	1	2.02	1.97	0.29	1.24	4.14	1.21	10.87	_____
2	Spray Fertilizer	1	1.00	0.27	0.33	0.19	1.11	2.21	5.11	_____
3	Field Cultivation	1	1.47	1.41	0.56	1.28	1.84	1.57	8.13	_____
4	Drill	1	1.76	1.03	0.67	2.94	2.21	2.62	11.23	_____
5	Swath/Condition Hay	1	2.00	1.29	2.29	0.00	3.61	0.00	9.19	_____
6	Large Round Bale	3.3 ton	7.26	2.46	2.75	6.65	9.12	6.93	35.17	_____
7	Move Large Round	3.3 ton	3.63	1.71	1.37	0.00	4.56	0.19	11.46	_____
Total for Field Operations			19.14	10.14	8.26	12.30	26.59	14.73	91.16	_____
Materials & Services				Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
28-0-0		Fertilizer		2	100%	40 lbs N	0.47	18.67	_____	
Sorghum Sudan		Seed		4	100%	10 pound	0.70	7.00	_____	
Twine Large Round		Other		6	100%	3.3 ton	0.91	3.00	_____	
Total Materials & Services								28.67	_____	
Total listed costs for Field Operations and Materials and Services									119.83	_____
Interest on Operations Capital \$ 78.51 cash expense @ 5.50% for 6.0 mo.									2.16	_____
Total Operating and Use Related Ownership Costs									121.99	_____
Overhead (accounting, liability insurance, vehicle cost, office expense)									20.00	_____
Real Estate Opportunity		Dryland (State)	\$ 3,390		per acre @	4.00%		135.60	_____	
Real Estate Taxes			\$ 3,390		per acre @	1.00%		33.90	_____	
Total Cost per Acre Including Overhead									311.49	_____
Cost per ton									94.39	_____
Cash Cost per ton									34.72	_____

**2016 Budget 50-Soybeans, Tilled Seed Bed, Roundup Ready® after Corn (40 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Labor @ Unit \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
				Power	Imp.	Power	Imp.		
1 Disk	1	2.02	1.97	0.29	1.24	4.14	1.21	10.87	
2 Field Cultivation	1	1.47	1.41	0.56	1.28	1.84	1.57	8.13	
3 Spray	1	1.00	0.27	0.33	0.64	1.11	0.88	4.23	
4 Plant	1	2.40	0.71	0.83	2.54	2.76	3.89	13.13	
5 Spray	1	1.00	0.27	0.33	0.64	1.11	0.88	4.23	
6 Aerial Spray	Custom								
7 Combine Dryland SB	1	3.38	4.18	7.87	1.10	6.45	2.81	25.79	
8 Truck	Custom								
Total for Field Operations		11.27	8.81	10.21	7.44	17.41	11.24	66.38	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
			Rate	Unit			
Valor XLT	Herbicide	3	100%	3 ounce	5.75	17.25	
RR Soybeans	Seed	4	100%	1 bag	52.00	52.00	
Glyphosate w/Surf	Herbicide	5	100%	32 ounce	0.13	4.00	
Select Max	Herbicide	5	100%	6 ounce	0.86	5.16	
21-0-0-24S	Additive	5	100%	1.7 pound	0.35	0.60	
* Aerial Spray	Custom	6	20%	1 acre	9.50	1.90	
* Warrior II/Zeon	Insecticide	6	20%	1.6 ounce	2.97	0.95	
Haul Grain Bushels	Custom	8	100%	40 bushel	0.11	4.40	
Scouting Dryland Soybeans	Scouting		100%	1 acre	7.00	7.00	
Soybeans Dryland	Crop Insurance				12.68	12.68	
Total Materials & Services						105.94	

* Insecticide for Aphids and Army Cutworms

Total listed costs for Field Operations and Materials and Services 172.32

Interest on Operations Capital \$ 143.67 cash expense @ 5.50% for 6.0 mo. 3.95

Total Operating and Use Related Ownership Costs 176.27

Overhead (accounting, liability insurance, vehicle cost, office expense) 20.00

Real Estate Opportunity \$ 3,390 per acre @ 4.00% 135.60

Real Estate Taxes \$ 3,390 per acre @ 1.00% 33.90

Total Cost per Acre Including Overhead 365.77

Cost per bu 9.14

Cash Cost per bu 4.54

**2016 Budget 51-Soybeans, No-Till, Roundup Ready® after Corn (45 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Labor @ Unit	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate	
				Power	Imp.	Power	Imp.			
1 Spray Spring Burndown Herbicide	1	1.00	0.27	0.33	0.64	1.11	0.88	4.23		
2 Spray	1	1.00	0.27	0.33	0.64	1.11	0.88	4.23		
3 Plant No-Till	1	2.40	0.87	0.83	4.37	2.76	6.70	17.93		
4 Spray	1	1.00	0.27	0.33	0.64	1.11	0.88	4.23		
5 Aerial Spray	Custom									
6 Combine Dryland SB	1	3.38	4.18	7.87	1.10	6.45	2.81	25.79		
7 Truck	Custom									
Total for Field Operations			8.78	5.86	9.69	7.39	12.54	12.15	56.41	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							Glyphosate w/Surf
2,4-D Ester 4#	Herbicide	1	100%	1 pint	2.56	2.56	
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60	
Valor XLT	Herbicide	1	100%	3 ounce	5.75	17.25	
2,4-D Ester 4#	Herbicide	1	100%	1 pint	2.56	2.56	
Glyphosate w/Surf	Herbicide	1	100%	32 ounce	0.13	4.00	
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60	
RR Soybeans	Seed	2	100%	1 bag	52.00	52.00	
* Glyphosate w/Surf	Herbicide	3	100%	32 ounce	0.13	4.00	
* Select Max	Herbicide	3	100%	6 ounce	0.86	5.16	
21-0-0-24S	Additive	3	100%	1.7 pound	0.35	0.60	
Aerial Spray	Custom	4	20%	1 acre	9.50	1.90	
Warrior II/Zeon	Insecticide	4	20%	1.6 ounce	2.97	0.95	
Haul Grain Bushels	Custom	6	100%	45 bushel	0.11	0.00	
Scouting Dryland Soybeans	Scouting		100%	1 acre	7.00	7.00	
Soybeans Dryland	Crop Insurance				12.68	12.68	
Total Materials & Services						115.86	

* Insecticide for Aphids and Army Cutworms

Total listed costs for Field Operations and Materials & Services 172.27

Interest on Operations Capital \$ 147.58 cash expense @ 5.50% for 6.0 mo. 4.06

Total Operating and Use Related Ownership Costs 176.33

Overhead (accounting, liability insurance, vehicle cost, office expense) 20.00

Real Estate Opportunity Dryland (State) \$ 3,390 per acre @ 4.00% 135.60

Real Estate Taxes \$ 3,390 per acre @ 1.00% 33.90

Total Cost per Acre Including Overhead 365.83

Cost per bu 8.13

Cash Cost per bu 4.12

**2016 Budget 52-Soybeans, No-Till, Roundup Ready®, Continuous (40 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Labor @ Unit	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate	
				Power	Imp.	Power	Imp.			
1 Spray Spring Burndown Herbicide	1	1.00	0.27	0.33	0.64	1.11	0.88	4.23		
2 Plant No-Till	1	2.40	0.87	0.83	4.37	2.76	6.70	17.93		
3 Spray	1	1.00	0.27	0.33	0.64	1.11	0.88	4.23		
4 Aerial Spray	Custom									
5 Combine Dryland SB	1	3.38	4.18	7.87	1.10	6.45	2.81	25.79		
6 Truck	Custom									
Total for Field Operations			7.78	5.59	9.36	6.75	11.43	11.27	52.18	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
2,4-D Ester 4#	Herbicide	1	100%	1 pint	2.56	2.56	
Glyphosate w/Surf	Herbicide	1	100%	32 ounce	0.13	4.00	
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60	
RR Soybeans	Seed	2	100%	1 bag	52.00	52.00	
Glyphosate w/Surf	Herbicide	3	100%	32 ounce	0.13	4.00	
21-0-0-24S	Additive	3	100%	1.7 pound	0.35	0.60	
* Aerial Spray	Custom	4	20%	1 acre	9.50	1.90	
* Warrior II/Zeon	Insecticide	4	20%	1.6 ounce	2.97	0.95	
Haul Grain Bushels	Custom	6	100%	40 bushel	0.11	4.40	
Scouting Dryland Soybeans	Scouting		100%	1 acre	7.00	7.00	
Soybeans Dryland	Crop Insurance				12.68	12.68	
Total Materials & Services						107.94	

* Insecticide for Aphids and Army Cutworms

Total listed costs for Field Operations and Materials and Services		160.12
Interest on Operations Capital \$ 137.42 cash expense @ 5.50% for 6.0 mo.		3.78
Total Operating and Use Related Ownership Costs		163.90

Overhead (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity <input type="text" value="Dryland (State)"/> \$ 3,390 per acre @ 4.00%		135.60
Real Estate Taxes \$ 3,390 per acre @ 1.00%		33.90
Total Cost per Acre Including Overhead		353.40

Cost per bu		8.83
Cash Cost per bu		4.38

2016 Budget 53-Soybeans, Tilled Seedbed, Roundup Ready® after Corn (62 bu Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 9 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	1.97	0.29	1.24	4.14	1.21	10.87	
2 Field Cultivation	1		1.47	1.41	0.56	1.28	1.84	1.57	8.13	
3 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
4 Plant	1		2.40	0.71	0.83	2.54	2.76	3.89	13.13	
5 Pivot D 125' Lift	9	ai	6.25	43.21	3.09	14.53	4.47	8.69	80.24	
6 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
7 Aerial Spray	Custom									
8 Aerial Spray	Custom									
9 Combine Irr SB	1		3.67	4.53	8.53	1.32	6.99	2.81	27.85	
10 Truck	Custom									
Total for Field Operations			17.81	52.37	13.96	22.19	22.42	19.93	148.68	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
				Rate	Unit			
Valor XLT	Herbicide	3	100%	3	ounce	5.75	17.25	
RR Soybeans	Seed	4	100%	1.1	bag	52.00	57.20	
Glyphosate w/Surf	Herbicide	6	100%	32	ounce	0.13	4.00	
Select Max	Herbicide	6	100%	6	ounce	0.86	5.16	
21-0-0-24S	Additive	6	100%	1.7	pound	0.35	0.60	
* Aerial Spray	Custom	7	20%	1	acre	9.50	1.90	
* Warrior II/Zeon	Insecticide	7	20%	1.6	ounce	2.97	0.95	
Aerial Spray	Custom	8	50%	1	acre	9.50	4.75	
Priaxor	Fungicide	8	50%	4	ounce	5.23	10.47	
Haul Grain Bushels	Custom	10	100%	62	bushel	0.11	6.82	
Scouting Irrigated Soybeans	Scouting		100%	1	acre	10.00	10.00	
Soybeans Irrigated	Crop Insurance					4.60	4.60	
Total Materials & Services							123.70	

* Insecticide for Aphids and Army Cutworms

Total listed costs for Field Operations and Materials and Services 272.38

Interest on Operations Capital \$ 230.03 cash expense @ 5.50% for 6.0 mo. 6.33

Total Operating and Use Related Ownership Costs 278.71

Overhead (accounting, liability insurance, vehicle cost, office expense) 20.00

Real Estate Opportunity \$ 7,315 per acre @ 4.00% 292.60

Real Estate Taxes \$ 7,315 per acre @ 1.00% 73.15

Total Cost per Acre Including Overhead 664.46

Cost per bu 10.72

Cash Cost per bu 4.99

**2016 Budget 54-Soybeans, Ridge Till, Roundup Ready® after Corn (62 bu Actual Yield)
Gravity Irrigated, 1,000 GPM 10 PSI, 12 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
2 Ridge Plant and Band Herbicide	1		2.40	0.88	0.83	4.23	2.76	2.84	13.94	
3 Ridge Cultivation	1		2.00	1.38	0.83	0.89	2.76	1.09	8.95	
4 Ridge Cultivate/Ditch	1		1.83	1.15	0.69	0.37	2.30	1.64	7.98	
5 Pipe D 125' Lift	12	ai	22.22	41.81	3.29	2.28	5.60	4.05	79.25	
6 Spray	0.5		0.50	0.14	0.17	0.32	0.55	0.44	2.12	
7 Aerial Spray	Custom									
8 Aerial Spray	Custom									
9 Combine Irr SB	1		3.67	4.53	8.53	1.32	6.99	2.81	27.85	
10 Truck	Custom									
Total for Field Operations			33.62	50.16	14.67	10.05	22.07	13.75	144.32	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate	
				Rate	Unit				
Glyphosate w/Surf	Herbicide	1	100%	32	ounce	0.13	4.00		
2,4-D Ester 4#	Herbicide	1	100%	1	pint	2.56	2.56		
21-0-0-24S	Additive	2	100%	1.7	pound	0.35	0.60		
Valor XLT	Herbicide	2	33%	3	ounce	5.75	5.69		
RR Soybeans	Seed	2	100%	1.1	bag	52.00	57.20		
Glyphosate w/Surf	Herbicide	6	50%	32	ounce	0.13	2.00		
21-0-0-24S	Additive	6	50%	1.7	pound	0.35	0.30		
* Select Max	Herbicide	6	40%	6	ounce	0.86	2.06		
* Crop Oil Concentrate	Additive	6	40%	2	pint	1.50	1.20		
Aerial Spray	Custom	7	20%	1	acre	9.50	1.90		
Warrior II/Zeon	Insecticide	7	20%	1.6	ounce	2.97	0.95		
Aerial Spray	Custom	8	50%	1	acre	9.50	4.75		
Stratego YLD	Fungicide	8	50%	4	ounce	5.63	11.25		
Haul Grain Bushels	Custom	10	100%	62	bushel	0.11	6.82		
Scouting Irrigated Soybeans	Scouting		100%	1	acre	10.00	10.00		
Soybeans Irrigated	Crop Insurance					4.60	4.60		
Total Materials & Services								115.88	

* Insecticide for Aphids and Army Cutworms

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 224.38 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

Overhead (accounting, liability insurance, vehicle cost, office expense)

Real Estate Opportunity Gravity (State) \$ 6,900 per acre @ 4.00%
Real Estate Taxes \$ 6,900 per acre @ 1.00%

Total Cost per Acre Including Overhead

Cost per bu

Cash Cost per bu

10.18
4.83

**2016 Budget 55-Soybeans, No-Till 15-inch Row, Roundup Ready® after Corn (65 bu Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 6 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
2 Plant Narrow Row	1		2.40	0.67	0.83	2.54	2.76	3.89	13.09	
3 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
4 Aerial Spray	Custom									
5 Aerial Spray	Custom									
6 Pivot D 125' Lift	6	ai	4.17	28.81	2.06	9.68	2.98	5.79	53.49	
7 Combine Irr SB	1		3.67	4.53	8.53	1.32	6.99	2.81	27.85	
8 Truck	Custom									
Total for Field Operations			12.24	34.55	12.08	14.82	14.95	14.25	102.89	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
			Rate	Unit			
Glyphosate w/Surf	Herbicide	1	100%	32 ounce	0.13	4.00	
2,4-D Ester 4#	Herbicide	1	100%	1 pint	2.56	2.56	
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60	
Valor XLT	Herbicide	1	100%	3 ounce	5.75	17.25	
RR Soybeans	Seed	2	100%	1.1 bag	52.00	57.20	
Glyphosate w/Surf	Herbicide	3	100%	32 ounce	0.13	4.00	
Select Max	Herbicide	3	100%	6 ounce	0.86	5.16	
21-0-0-24S	Additive	3	100%	1.7 pound	0.35	0.60	
* Aerial Spray	Custom	4	20%	1 acre	9.50	1.90	
* Warrior II/Zeon	Insecticide	4	20%	1.6 ounce	2.97	0.95	
Aerial Spray	Custom	5	50%	1 acre	9.50	4.75	
Quilt Xcel	Fungicide	5	50%	10.5 ounce	2.27	11.89	
Haul Grain Bushels	Custom	8	100%	65 bushel	0.11	7.15	
Scouting Irrigated Soybeans	Scouting		100%	1 acre	10.00	10.00	
Soybeans Irrigated	Crop Insurance				4.68	4.68	
Total Materials & Services						132.69	

* Insecticide for Aphids and Army Cutworms

Total listed costs for Field Operations and Materials and Services						235.58	
Interest on Operations Capital	\$ 206.38	cash expense @	5.50%	for 6.0 mo.		5.68	
Total Operating and Use Related Ownership Costs						241.26	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Pivot (State)	\$ 7,315	per acre @	4.00%		292.60	
Real Estate Taxes		\$ 7,315	per acre @	1.00%		73.15	
Total Cost per Acre Including Overhead						627.01	
Cost per bu						9.65	
Cash Cost per bu						4.39	

**2016 Budget 56-Soybeans, Roundup Ready®, No-Till Narrow Row, Continuous (59 bu Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 6 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
2 Plant Narrow Row	1		2.40	0.67	0.83	2.54	2.76	3.89	13.09	
3 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
4 Aerial Spray	Custom									
5 Aerial Spray	Custom									
6 Pivot D 125' Lift	6	ai	4.17	28.81	2.06	9.68	2.98	5.79	53.49	
7 Combine Irr SB	1		3.67	4.53	8.53	1.32	6.99	2.81	27.85	
8 Truck	Custom									
Total for Field Operations			12.24	34.55	12.08	14.82	14.95	14.25	102.89	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
				Rate	Unit			
Glyphosate w/Surf	Herbicide	1	100%	32	ounce	0.13	4.00	
2,4-D Ester 4#	Herbicide	1	100%	1	pint	2.56	2.56	
21-0-0-24S	Additive	1	100%	1.7	pound	0.35	0.60	
Valor XLT	Herbicide	1	100%	3	ounce	5.75	17.25	
RR2 Soybeans Treated	Seed	2	100%	1.1	pound	68.00	74.80	
Glyphosate w/Surf	Herbicide	3	50%	32	ounce	0.13	2.00	
21-0-0-24S	Additive	3	50%	1.7	pound	0.35	0.30	
* Aerial Spray	Custom	4	20%	1	acre	9.50	1.90	
* Warrior II/Zeon	Insecticide	4	20%	1.6	ounce	2.97	0.95	
Aerial Spray	Custom	5	50%	1	acre	9.50	4.75	
Priaxor	Fungicide	5	50%	4	ounce	5.23	10.47	
Haul Grain Bushels	Custom	8	100%	59	bushel	0.11	6.49	
Scouting Irrigated Soybeans	Scouting		100%	1	acre	10.00	10.00	
Soybeans Irrigated	Crop Insurance					4.53	4.53	
Total Materials & Services							140.60	

* Insecticide for Aphids and Army Cutworms

Total listed costs for Field Operations and Materials and Services 243.49

Interest on Operations Capital \$ 214.29 cash expense @ 5.50% for 6.0 mo. 5.89

Total Operating and Use Related Ownership Costs 249.38

Overhead (accounting, liability insurance, vehicle cost, office expense) 20.00

Real Estate Opportunity \$ 7,315 per acre @ 4.00% 292.60

Real Estate Taxes \$ 7,315 per acre @ 1.00% 73.15

Total Cost per Acre Including Overhead 635.13

Cost per bu 10.76

Cash Cost per bu 4.97

**2016 Budget 57-Soybeans, No-Till Drilled 7.5-inch Rows, Roundup Ready® after Corn (65 bu Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 6 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
2 No-Till Drill	1		1.83	1.31	0.69	1.57	2.30	3.54	11.24	
3 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
4 Aerial Spray	Custom									
5 Aerial Spray	Custom									
6 Pivot D 125' Lift	6	ai	4.17	28.81	2.06	9.68	2.98	5.79	53.49	
7 Combine Irr SB	1		3.67	4.53	8.53	1.32	6.99	2.81	27.85	
8 Truck	Custom									
Total for Field Operations			11.67	35.19	11.94	13.85	14.49	13.90	101.04	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
			Rate	Unit			
Glyphosate w/Surf	Herbicide	1	100%	32 ounce	0.13	4.00	
2,4-D Ester 4#	Herbicide	1	100%	1 pint	2.56	2.56	
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60	
Valor XLT	Herbicide	1	100%	3 ounce	5.75	17.25	
RR Soybeans	Seed	2	100%	1.1 bag	52.00	57.20	
Glyphosate w/Surf	Herbicide	3	100%	32 ounce	0.13	4.00	
Select Max	Herbicide	3	100%	6 ounce	0.86	5.16	
21-0-0-24S	Additive	3	100%	1.7 pound	0.35	0.60	
* Aerial Spray	Custom	4	20%	1 acre	9.50	1.90	
* Warrior II/Zeon	Insecticide	4	20%	1.6 ounce	2.97	0.95	
Aerial Spray	Custom	5	50%	1 acre	9.50	4.75	
Stratego YLD	Fungicide	5	50%	4 ounce	5.63	11.25	
Haul Grain Bushels	Custom	8	100%	65 bushel	0.11	7.15	
Scouting Irrigated Soybeans	Scouting		100%	1 acre	10.00	10.00	
Soybeans Irrigated	Crop Insurance				4.68	4.68	
Total Materials & Services						132.05	

* Insecticide for Aphids and Army Cutworms

Total listed costs for Field Operations and Materials and Services 233.09

Interest on Operations Capital \$ 204.70 cash expense @ 5.50% for 6.0 mo. 5.63

Total Operating and Use Related Ownership Costs 238.72

Overhead (accounting, liability insurance, vehicle cost, office expense) 20.00

Real Estate Opportunity Pivot (State) \$ 7,315 per acre @ 4.00% 292.60

Real Estate Taxes \$ 7,315 per acre @ 1.00% 73.15

Total Cost per Acre Including Overhead 624.47

Cost per bu 9.61

Cash Cost per bu 4.36

**2016 Budget 58-Sugarbeet, Panhandle, Roundup Ready®, One Pass Zone-Tillage (26 ton Actual Yield)
Canal Irrigated, 20 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	1.97	0.29	1.24	4.14	1.21	10.87	
2 Spray Fertilizer	1		1.00	0.27	0.33	0.19	1.11	2.21	5.11	
3 Spray	Custom									
4 Till Plant Beets	1		3.67	3.56	0.52	4.89	7.53	2.57	22.74	
5 Rotary Hoe	1		1.50	0.65	0.57	0.37	1.88	1.37	6.34	
6 Row Crop Cultivation	1		2.00	0.82	0.76	0.44	2.51	1.64	8.17	
7 Ridge Cultivate/Ditch	1		1.83	1.15	0.69	0.37	2.30	1.64	7.98	
8 Spray	Custom									
9 Ditch Irrigation	20	ai	22.22	0.00	0.00	0.00	0.00	0.00	22.22	
10 Spray	Custom									
11 Aerial Spray	Custom									
12 Top Beets	1		3.45	1.56	1.44	3.32	4.78	2.16	16.71	
13 Lift Beets	1		3.67	2.67	0.52	13.70	7.53	5.51	33.60	
14 Truck	Custom									
15 Subsoil	1		2.22	2.37	0.35	0.81	5.02	3.28	14.05	
Total for Field Operations			43.58	15.02	5.47	25.33	36.80	21.59	147.79	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
10-34-0	Fertilizer	2	100%	13.4 gallon	2.80	37.52
28-0-0	Fertilizer	2	100%	115 lbs N	0.47	53.67
Spray	Custom	3,8, 10	300%	1 acre	7.00	21.00
Glyphosate w/Surf	Herbicide	3	100%	36 ounce	0.13	4.50
21-0-0-24S	Additive	3	100%	1.7 pound	0.35	0.60
Sugar Beets RR Poncho	Seed	4	100%	1 acre	180.00	180.00
Spray	Custom	8	100%	1 acre	7.00	7.00
Glyphosate w/Surf	Herbicide	8	100%	36 ounce	0.13	4.50
21-0-0-24S	Additive	8	100%	1.7 pound	0.35	0.60
Irrigation District O&M Charge	Other	9	100%	1 acre	30.00	30.00
Spray	Custom	10	100%	1 acre	7.00	7.00
Glyphosate w/Surf	Herbicide	10	100%	36 ounce	0.13	4.50
21-0-0-24S	Additive	10	100%	1.7 pound	0.35	0.60
Aerial Spray	Custom	11	100%	1 acre	9.50	9.50
Quadris	Fungicide	11	100%	7 ounce	3.44	24.06
Haul Beets	Custom	14	100%	26 ton	5.00	130.00
Scouting Sugar Beets	Scouting		100%	1 acre	16.00	16.00
Sugar Beets	Crop Insurance				19.09	19.09
Total Materials & Services					550.14	

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 639.54 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

Overhead (accounting, liability insurance, vehicle cost, office expense)

Real Estate Opportunity Gravity (Panhandle) \$ 3,235 per acre @ 4.00%
Real Estate Taxes \$ 3,235 per acre @ 1.00%

Total Cost per Acre Including Overhead

Cost per ton

Cash Cost per ton

697.93
17.59
715.52
20.00
129.40
32.35
897.27
34.51
25.27

**2016 Budget 59-Sugarbeet, Panhandle, Roundup Ready®, Conventional Tillage (26 ton Actual Yield)
Gravity Irrigated, Canal, 20 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	1.97	0.29	1.24	4.14	1.21	10.87	
2 Spray Fertilizer	1		1.00	0.27	0.33	0.19	1.11	2.21	5.11	
3 Spray	Custom									
4 Plow	1		2.93	2.07	0.42	0.83	6.03	0.56	12.84	
5 Roller Harrow	1		2.00	1.29	0.83	0.52	2.76	1.64	9.04	
6 Plant	1		2.40	0.71	0.83	2.54	2.76	3.89	13.13	
7 Field Cultivation	2		2.93	2.83	1.11	2.56	3.69	3.14	16.26	
8 Ridge Cultivate/Ditch	1		1.83	1.15	0.69	0.37	2.30	1.64	7.98	
9 Spray	Custom									
10 Ditch Irrigation	20	ai	22.22	0.00	0.00	0.00	0.00	0.00	22.22	
11 Spray	Custom									
12 Aerial Spray	Custom									
13 Top Beets	1		3.45	1.56	1.44	3.32	4.78	2.16	16.71	
14 Lift Beets	1		3.67	2.67	0.52	13.70	7.53	5.51	33.60	
15 Truck	Custom									
16 Subsoil	1		2.22	2.37	0.35	0.81	5.02	3.28	14.05	
Total for Field Operations			46.67	16.89	6.81	26.08	40.12	25.24	161.81	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
10-34-0	Fertilizer	2	100%	13.4 gallon	2.80	37.52
28-0-0	Fertilizer	2	100%	115 lbs N	0.47	53.67
Spray	Custom	3, 9, & 11	300%	1 acre	7.00	21.00
Glyphosate w/Surf	Herbicide	3	100%	36 ounce	0.13	4.50
21-0-0-24S	Additive	3	100%	1.7 pound	0.35	0.60
Sugar Beets RR Poncho	Seed	6	100%	1 acre	180.00	180.00
Glyphosate w/Surf	Herbicide	9	100%	36 ounce	0.13	4.50
21-0-0-24S	Additive	9	100%	1.7 pound	0.35	0.60
Irrigation District O&M Charge	Other	10	100%	1 acre	30.00	30.00
Spray	Custom	11	100%	1 acre	7.00	7.00
Glyphosate w/Surf	Herbicide	11	100%	36 ounce	0.13	4.50
21-0-0-24S	Additive	11	100%	1.7 pound	0.35	0.60
Aerial Spray	Custom	12	100%	1 acre	9.50	9.50
Quadris	Fungicide	12	100%	7 ounce	3.44	24.06
Haul Beets	Custom	15	100%	26 ton	5.00	130.00
Scouting Sugar Beets	Scouting		100%	1 acre	16.00	16.00
Sugar Beets	Crop Insurance				19.09	19.09
Total Materials & Services					543.14	

Total listed costs for Field Operations and Materials and Services		704.95
Interest on Operations Capital \$ 639.59 cash expense @ 5.50% for 6.0 mo.		17.59
Total Operating and Use Related Ownership Costs		722.54

Overhead (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity Gravity (Panhandle) \$ 3,235 per acre @ 4.00%		129.40
Real Estate Taxes \$ 3,235 per acre @ 1.00%		32.35
Total Cost per Acre Including Overhead		904.29

Cost per ton	34.78
Cash Cost per ton	25.28

**2016 Budget 60-Sugarbeet, Panhandle, Roundup Ready®, One Pass Zone-Tillage (26 ton Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 16 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	1.97	0.29	1.24	4.14	1.21	10.87	
2 Spray Fertilizer	1		1.00	0.27	0.33	0.19	1.11	2.21	5.11	
3 Spray	Custom									
4 Till Plant Beets	1		3.67	3.56	0.52	4.89	7.53	2.57	22.74	
5 Row Crop Cultivation	1		2.00	0.82	0.76	0.44	2.51	1.64	8.17	
6 Spray	Custom									
7 Pivot D 125' Lift	16	ai	11.11	76.82	5.49	25.82	7.95	15.45	142.64	
8 Spray	Custom									
9 Aerial Spray	Custom									
10 Top Beets	1		3.45	1.56	1.44	3.32	4.78	2.16	16.71	
11 Lift Beets	1		3.67	2.67	0.52	13.70	7.53	5.51	33.60	
12 Truck	Custom									
13 Subsoil	1		2.22	2.37	0.35	0.81	5.02	3.28	14.05	
Total for Field Operations			29.14	90.04	9.70	50.41	40.57	34.03	253.89	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
			Rate	Unit			
10-34-0	Fertilizer	2	100%	13.4	gallon	2.80	37.52
28-0-0	Fertilizer	2	100%	115	lbs N	0.47	53.67
Spray	Custom	3, 6, and 8	300%	1	acre	7.00	21.00
Glyphosate w/Surf	Herbicide	3	100%	36	ounce	0.13	4.50
21-0-0-24S	Additive	3	100%	1.7	pound	0.35	0.60
Sugar Beets RR Poncho	Seed	4	100%	1	acre	180.00	180.00
Glyphosate w/Surf	Herbicide	6	100%	36	ounce	0.13	4.50
21-0-0-24S	Additive	6	100%	1.7	pound	0.35	0.60
Glyphosate w/Surf	Herbicide	8	100%	36	ounce	0.13	4.50
21-0-0-24S	Additive	8	100%	1.7	pound	0.35	0.60
Aerial Spray	Custom	9	100%	1	acre	9.50	9.50
Quadris	Fungicide	9	100%	7	ounce	3.44	24.06
Haul Beets	Custom	12	100%	26	ton	5.00	130.00
Scouting Sugar Beets	Scouting		100%	1	acre	16.00	16.00
Sugar Beets	Crop Insurance					19.09	19.09
Total Materials & Services						506.14	

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 685.43 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs 778.88

Overhead (accounting, liability insurance, vehicle cost, office expense)

Real Estate Opportunity \$ 3,625 per acre @ 4.00% 145.00

Real Estate Taxes \$ 3,625 per acre @ 1.00% 36.25

Total Cost per Acre Including Overhead 980.13

Cost per ton 37.70

Cash Cost per ton 27.09

**2016 Budget 61-Sugarbeet, Panhandle, Roundup Ready®, Conventional Tillage (26 ton Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 16 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	1.97	0.29	1.24	4.14	1.21	10.87	
2 Spray Fertilizer	1		1.00	0.27	0.33	0.19	1.11	2.21	5.11	
3 Plow	1		2.93	2.07	0.42	0.83	6.03	0.56	12.84	
4 Roller Harrow	1		2.00	1.29	0.83	0.52	2.76	1.64	9.04	
5 Plant	1		2.40	0.71	0.83	2.54	2.76	3.89	13.13	
6 Spray	Custom									
7 Field Cultivation	1		1.47	1.41	0.56	1.28	1.84	1.57	8.13	
8 Pivot D 125' Lift	16	ai	11.11	76.82	5.49	25.82	7.95	15.45	142.64	
9 Spray	Custom									
10 Aerial Spray	Custom									
11 Top Beets	1		3.45	1.56	1.44	3.32	4.78	2.16	16.71	
12 Lift Beets	1		3.67	2.67	0.52	13.70	7.53	5.51	33.60	
13 Truck	Custom									
14 Subsoil	1		2.22	2.37	0.35	0.81	5.02	3.28	14.05	
Total for Field Operations			32.27	91.14	11.06	50.25	43.92	37.48	266.12	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate	
			Rate	Unit				
10-34-0	Fertilizer	2	100%	13.4	gallon	2.80	37.52	
28-0-0	Fertilizer	2	100%	115	lbs N	0.47	53.67	
Spray	Custom	6 & 9	200%	1	acre	7.00	14.00	
Glyphosate w/Surf	Herbicide	6	100%	36	ounce	0.13	4.50	
21-0-0-24S	Additive	6	100%	1.7	pound	0.35	0.60	
Sugar Beets RR Poncho	Seed	5	100%	1	acre	180.00	180.00	
Glyphosate w/Surf	Herbicide	9	100%	36	ounce	0.13	4.50	
21-0-0-24S	Additive	9	100%	1.7	pound	0.35	0.60	
Aerial Spray	Custom	10	100%	1	acre	9.50	9.50	
Quadris	Fungicide	10	100%	7	ounce	3.44	24.06	
Haul Beets	Custom	13	100%	26	ton	5.00	130.00	
Scouting Sugar Beets	Scouting		100%	1	acre	16.00	16.00	
Sugar Beets	Crop Insurance					19.09	19.09	
Total Materials & Services						494.04		

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 678.76 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

Overhead (accounting, liability insurance, vehicle cost, office expense)

Real Estate Opportunity \$ 3,625 per acre @ 4.00%
Real Estate Taxes \$ 3,625 per acre @ 1.00%

Total Cost per Acre Including Overhead

Cost per ton

Cash Cost per ton

760.16	
18.67	
778.83	
20.00	
145.00	
36.25	
980.08	
37.70	
26.82	

**2016 Budget 62-Sunflower, Panhandle, No-Till, Following Corn or Grain Sorghum (13 cwt Actual Yield)
Dryland**

Field Operations	Times or Qty	Labor @ Unit \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
				Power	Imp.	Power	Imp.		
1 Spray	1	1.00	0.27	0.33	0.64	1.11	0.88	4.23	
2 Spray	0.5	0.50	0.14	0.17	0.32	0.55	0.44	2.12	
3 Plant No-Till	1	2.40	0.87	0.83	4.37	2.76	6.70	17.93	
4 Aerial Spray	Custom								
5 Combine Sunflowers	1	3.14	3.88	7.31	1.51	5.99	4.59	26.42	
6 Truck	Custom								
Total for Field Operations		7.04	5.16	8.64	6.84	10.41	12.61	50.70	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Glyphosate w/Surf	Herbicide	1	100%	32 ounce	0.13	4.00	
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60	
Prowl H ₂ O	Herbicide	1	100%	2 pint	6.50	13.00	
28-0-0	Fertilizer	1	100%	50 lbs N	0.47	23.33	
Spartan 4F	Herbicide	1	100%	5 ounce	5.86	29.30	
Glyphosate w/Surf	Herbicide	2	50%	32 ounce	0.13	2.00	
21-0-0-24S	Additive	2	50%	1.7 pound	0.35	0.30	
Prowl H ₂ O	Herbicide	2	50%	1 pint	6.50	3.25	
Sunflower	Seed	3	100%	5 pound	1.05	5.25	
* Aerial Spray	Custom	4	50%	1 acre	9.50	4.75	
* Warrior II/Zeon	Insecticide	4	50%	1.92 ounce	2.97	2.85	
Haul Grain (Sunflower)	Custom	6	100%	13 cwt	0.30	3.90	
Sunflower Dryland	Crop Insurance				12.82	12.82	
Total Materials & Services						105.35	

*Insecticide for seed weevil and sunflower moth

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 133.03	cash expense @	5.50%	for 6.0 mo.	3.66
Total Operating and Use Related Ownership Costs				159.71

Overhead (accounting, liability insurance, vehicle cost, office expense)

Real Estate Opportunity	Dryland (Panhandle)	\$ 730	per acre @	4.00%	29.20
Real Estate Taxes		\$ 730	per acre @	1.00%	7.30

Total Cost per Acre Including Overhead 216.21

Cost per cwt 16.63
Cash Cost per cwt 11.08

**2016 Budget 63-Sunflower, Panhandle, Ecofollow, after Wheat, Two Crops in Three Years (16 cwt Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray (Prior Year Stubble)	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
2 Spray (Prior Year Stubble)	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
3 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
4 Spray	0.5		0.50	0.14	0.17	0.32	0.55	0.44	2.12	
5 Plant No-Till	1		2.40	0.87	0.83	4.37	2.76	6.70	17.93	
6 Aerial Spray	Custom									
7 Combine Sunflowers	1		3.14	3.88	7.31	1.51	5.99	4.59	26.42	
8 Truck	Custom									
Total for Field Operations			9.04	5.70	9.30	8.12	12.63	14.37	59.16	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
				Rate	Unit			
Landmaster BW	Herbicide	1	100%	54	ounce	0.15	8.02	
21-0-0-24S	Additive	1	100%	2	pound	0.35	0.70	
Glyphosate w/Surf	Herbicide	2	100%	32	ounce	0.13	4.00	
21-0-0-24S	Additive	2	100%	1.7	pound	0.35	0.60	
Glyphosate w/Surf	Herbicide	3	100%	32	ounce	0.13	4.00	
21-0-0-24S	Additive	3	100%	1.7	pound	0.35	0.60	
Prowl H2O	Herbicide	3	100%	2	pint	6.50	13.00	
28-0-0	Fertilizer	3	100%	60	lbs N	0.47	28.00	
Spartan 4F	Herbicide	3	100%	5	ounce	5.86	29.30	
Glyphosate w/Surf	Herbicide	4	50%	32	ounce	0.13	2.00	
21-0-0-24S	Additive	4	50%	1.7	pound	0.35	0.30	
Prowl H ₂ O	Herbicide	4	50%	1	pint	6.50	3.25	
Sunflower	Seed	5	100%	5	pound	1.05	5.25	
* Aerial Spray	Custom	6	50%	1	acre	9.50	4.75	
* Warrior II/Zeon	Insecticide	6	50%	1.92	ounce	2.97	2.85	
Haul Grain (Sunflower)	Custom	8	100%	16	cwt	0.30	4.80	
Sunflower Dryland	Crop Insurance					14.00	14.00	
Total Materials & Services							125.42	

*Insecticide for seed weevil and sunflower moth

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 157.58	cash expense @	5.50%	for 6.0 mo.	184.58
				4.33

Total Operating and Use Related Ownership Costs

Overhead (accounting, liability insurance, vehicle cost, office expense)				20.00
Real Estate Opportunity	Dryland (Panhandle)	\$ 730	per acre @	4.00%
Real Estate Taxes		\$ 730	per acre @	1.00%

Total Cost per Acre Including Overhead

Cost per cwt	15.34
Cash Cost per cwt	10.58

2016 Budget 64-Sunflower, Panhandle, No-Till (30 cwt Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 8 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
2 Spray Fertilizer and Herbicide	1		1.00	0.27	0.33	0.19	1.11	2.21	5.11	
3 Plant No-Till	1		2.40	0.87	0.83	4.37	2.76	6.70	17.93	
4 Aerial Spray	Custom									
5 Pivot E 125' Lift w/fertigation	8	ai	7.41	22.30	2.34	13.83	4.24	8.27	58.39	
6 Combine Sunflowers	1		3.14	3.88	7.31	1.51	5.99	4.59	26.42	
7 Truck	Custom									
Total for Field Operations			14.95	27.59	11.14	20.54	15.21	22.65	112.08	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate	
			Rate	Unit				
Glyphosate w/Surf	Herbicide	1	100%	32	ounce	0.13	4.00	
21-0-0-24S	Additive	1	100%	1.7	pound	0.35	0.60	
Prowl H2O	Herbicide	2	100%	2.3	pint	6.50	14.95	
Spartan 4F	Herbicide	2	100%	4	ounce	5.86	23.44	
28-0-0	Fertilizer	2	100%	50	lbs N	0.47	23.33	
Sunflower	Seed	3	100%	3.5	pound	1.05	3.68	
10-34-0	Fertilizer	3	100%	4	gallon	2.80	11.20	
* Aerial Spray	Custom	4	50%	1	acre	9.50	4.75	
* Warrior II/Zeon	Insecticide	4	50%	3.84	ounce	2.97	5.70	
Electricity Fixed	Other	5	100%	1	acre	30.00	30.00	
Haul Grain (Sunflower)	Custom	7	100%	30	cwt	0.30	9.00	
Sunflower Irrigated	Crop Insurance					18.60	18.60	
Total Materials & Services							149.25	

*Insecticide for seed weevil and sunflower moth

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital	\$ 223.47	cash expense @	5.50%	for 6.0 mo.		6.15		
Total Operating and Use Related Ownership Costs							267.48	

Overhead (accounting, liability insurance, vehicle cost, office expense)

Real Estate Opportunity	Pivot (Panhandle)	\$ 3,625	per acre @	4.00%		145.00		
Real Estate Taxes		\$ 3,625	per acre @	1.00%		36.25		
Total Cost per Acre Including Overhead							468.73	

Cost per cwt						15.62	
Cash Cost per cwt						7.65	

**2016 Budget 65-Wheat, No-Till, Wheat after Row Crop, 50 bu Yield Goal (45 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 No-Till Drill	1		1.83	1.31	0.69	1.57	2.30	3.54	11.24	
2 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
3 Aerial Spray	Custom									
4 Aerial Spray	Custom									
5 Combine Small Grain	1		3.14	3.87	7.31	0.93	5.99	2.81	24.05	
6 Truck	Custom									
Total for Field Operations			5.97	5.45	8.33	3.14	9.40	7.23	39.52	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
10-34-0	Fertilizer	1	100%	8 gallon	2.80	22.40	
Wheat (Certified and Treated)	Seed	1	100%	90 pound	0.31	27.90	
28-0-0	Fertilizer	2	100%	75 lbs N	0.47	35.00	
Ally Extra SGW/TOTSOL	Herbicide	2	100%	0.3 ounce	9.00	2.70	
2,4-D Ester 4#	Herbicide	2	100%	0.5 pint	2.56	1.28	
NIS	Additive	2	100%	6 ounce	0.17	1.03	
* Aerial Spray	Custom	3	20%	1 acre	9.50	1.90	
* Tilt	Fungicide	3	20%	4 ounce	0.82	0.66	
** Aerial Spray	Custom	4	15%	1 acre	9.50	1.43	
** Lorsban Advanced	Insecticide	4	10%	1 pint	6.88	0.69	
** Warrior II/Zeon	Insecticide	4	5%	1.92 ounce	2.97	0.29	
Haul Grain Bushels	Custom	5	100%	45 bushel	0.11	4.95	
Scouting Dryland Wheat	Scouting		100%	1 acre	7.00	7.00	
Wheat After Crop	Crop Insurance				10.30	10.30	
Total Materials & Services						117.53	

*Fungicide for rust

**Insecticide for aphids and army cutworm

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 140.42 cash expense @ 5.50% for 6.0 mo. 157.05

Total Operating and Use Related Ownership Costs 3.86

Overhead (accounting, liability insurance, vehicle cost, office expense) 20.00

Real Estate Opportunity Dryland (Southwest) \$ 1,855 per acre @ 4.00% 74.20

Real Estate Taxes \$ 1,855 per acre @ 1.00% 18.55

Total Cost per Acre Including Overhead 273.66

Cost per bu 6.08

Cash Cost per bu 3.62

**2016 Budget 66-Wheat, No-Till Fallow, One Crop in Two Years, 60 bu Yield Goal (55 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray (Prior Year Stubble)	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
2 Spray (Prior Year Stubble)	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
3 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
4 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
5 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
6 No-Till Drill	1		1.83	1.31	0.69	1.57	2.30	3.54	11.24	
7 Spread Fertilizer	1		1.57	0.79	0.66	0.00	2.18	0.00	5.20	
8 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
9 Aerial Spray		Custom								
10 Aerial Spray		Custom								
11 Combine Small Grain	1		3.14	3.87	7.31	0.93	5.99	2.81	24.05	
12 Truck		Custom								
Total for Field Operations			12.54	7.59	10.64	6.34	17.13	11.63	65.87	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
				Rate	Unit			
Glyphosate w/Surf	Herbicide	1	100%	32	ounce	0.13	4.00	
21-0-0-24S	Additive	1	100%	1.7	pound	0.35	0.60	
Glyphosate w/Surf	Herbicide	2	100%	32	ounce	0.13	4.00	
21-0-0-24S	Additive	2	100%	1.7	pound	0.35	0.60	
AAtrax 4L	Herbicide	2	100%	1	quart	5.25	5.25	
Glyphosate w/Surf	Herbicide	3	100%	32	ounce	0.13	4.00	
21-0-0-24S	Additive	3	100%	1.7	pound	0.35	0.60	
Glyphosate w/Surf	Herbicide	4	100%	32	ounce	0.13	4.00	
21-0-0-24S	Additive	4	100%	1.7	pound	0.35	0.60	
Glyphosate w/Surf	Herbicide	5	100%	32	ounce	0.13	4.00	
21-0-0-24S	Additive	5	100%	1.7	pound	0.35	0.60	
10-34-0	Fertilizer	6	100%	8	gallon	2.80	22.40	
Wheat (Certified and Treated)	Seed	6	100%	60	pound	0.31	18.60	
46-0-0	Fertilizer	7	100%	70	lbs N	0.48	33.60	
Ally Extra SGW/TOTSOL	Herbicide	8	100%	0.3	ounce	9.00	2.70	
2,4-D Ester 4#	Herbicide	8	100%	0.5	pint	2.56	1.28	
NIS	Additive	8	100%	6	ounce	0.17	1.03	
* Aerial Spray	Custom	9	20%	1	acre	9.50	1.90	
* Tilt	Fungicide	9	20%	4	ounce	0.82	0.66	
** Aerial Spray	Custom	10	15%	1	acre	9.50	1.43	
** Lorsban Advanced	Insecticide	10	10%	1	pint	6.88	0.69	
** Warrior II/Zeon	Insecticide	10	5%	1.92	ounce	2.97	0.29	
Haul Grain Bushels	Custom	12	100%	55	bushel	0.11	6.05	
Scouting Dryland Wheat	Scouting		100%	1	acre	7.00	7.00	
Wheat Fallowed	Crop Insurance					6.92	6.92	
Total Materials & Services							132.80	

*Fungicide for rust

**Insecticide for aphids and army cutworm

Total listed costs for Field Operations and Materials and Services 198.67

Interest on Operations Capital \$ 169.91 cash expense @ 5.50% for 6.0 mo. 4.67

Total Operating and Use Related Ownership Costs 203.34

Overhead (accounting, liability insurance, vehicle cost, office expense) 20.00

Real Estate Opportunity Dryland (Panhandle) \$ 1,460 per acre @ 4.00% 116.80

Real Estate Taxes \$ 1,460 per acre @ 1.00% 29.20

Total Cost per Acre Including Overhead 369.34

Cost per bu 6.72

Cash Cost per bu 3.71

**2016 Budget 67-Wheat, Stubble Mulch Fallow, One Crop in Two Years, 55 bu Yield Goal (50 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Fallow Master	1		1.76	1.78	0.25	0.92	3.62	1.57	9.90	
2 Fallow Master	1		1.76	1.78	0.25	0.92	3.62	1.57	9.90	
3 Fallow Master	1		1.76	1.78	0.25	0.92	3.62	1.57	9.90	
4 Rod Weeder	1		1.52	1.05	0.63	0.23	2.09	0.99	6.51	
5 Rod Weeder	1		1.52	1.05	0.63	0.23	2.09	0.99	6.51	
6 Drill	1		1.76	1.03	0.67	2.94	2.21	2.62	11.23	
7 Spray Fertilizer	1		1.00	0.27	0.33	0.19	1.11	2.21	5.11	
8 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
9 Aerial Spray		Custom								
10 Aerial Spray		Custom								
11 Combine Small Grain	1		3.14	3.87	7.31	0.93	5.99	2.81	24.05	
12 Truck		Custom								
Total for Field Operations			15.22	12.88	10.65	7.92	25.46	15.21	87.34	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate		
10-34-0		Fertilizer	6	100%	8 gallon	2.80	22.40	
Wheat (Certified and Treated)		Seed	6	100%	55 pound	0.31	17.05	
28-0-0		Fertilizer	7	100%	65 lbs N	0.47	30.33	
2,4-D Ester 4#		Herbicide	8	100%	0.5 pint	2.56	1.28	
Ally Extra SGW/TOTSOL		Herbicide	8	100%	0.3 ounce	9.00	2.70	
NIS		Additive	8	100%	6 ounce	0.17	1.03	
* Aerial Spray		Custom	9	20%	1 acre	9.50	1.90	
* Tilt		Fungicide	9	20%	4 ounce	0.82	0.66	
** Aerial Spray		Custom	10	15%	1 acre	9.50	1.43	
** Lorsban Advanced		Insecticide	10	10%	1 pint	6.88	0.69	
** Warrior II/Zeon		Insecticide	10	5%	1.92 ounce	2.97	0.29	
Haul Grain Bushels		Custom	12	100%	50 bushel	0.11	5.50	
Scouting Dryland Wheat		Scouting		100%	1 acre	7.00	7.00	
Wheat Fallowed		Crop Insurance				6.71	6.71	
Total Materials & Services						98.97		

*Fungicide for rust

**Insecticide for aphids and army cutworm

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 145.64 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

Overhead (accounting, liability insurance, vehicle cost, office expense)

Real Estate Opportunity Dryland (Panhandle) \$ 1,460 per acre @ 4.00%
Real Estate Taxes \$ 1,460 per acre @ 1.00%

Total Cost per Acre Including Overhead

Cost per bu

Cash Cost per bu

186.31	
4.01	
190.32	
20.00	
116.80	
29.20	
356.32	
7.13	
3.58	

**2016 Budget 68-Wheat, Clean Till Fallow, One Crop in Two Years, 50 bu Yield Goal (45 bu Actual Yield)
Dryland**

	Field Operations	Times or Qty	Labor @ Unit \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	Disk	1	2.02	1.97	0.29	1.24	4.14	1.21	10.87	
2	Field Cultivation	1	1.47	1.41	0.56	1.28	1.84	1.57	8.13	
3	Field Cultivation	1	1.47	1.41	0.56	1.28	1.84	1.57	8.13	
4	Field Cultivation	1	1.47	1.41	0.56	1.28	1.84	1.57	8.13	
5	Rod Weeder	1	1.52	1.05	0.63	0.23	2.09	0.99	6.51	
6	Rod Weeder & Fertilizer	1	1.82	1.05	0.63	0.23	2.09	0.99	6.81	
7	Drill	1	1.76	1.03	0.67	2.94	2.21	2.62	11.23	
8	Spray	1	1.00	0.27	0.33	0.64	1.11	0.88	4.23	
9	Aerial Spray	Custom								
10	Aerial Spray	Custom								
11	Combine Small Grain	1	3.14	3.87	7.31	0.93	5.99	2.81	24.05	
12	Truck	Custom								
Total for Field Operations			15.67	13.47	11.54	10.05	23.15	14.21	88.09	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
				Rate	Unit			
32-0-0	Fertilizer	6	100%	50 lbs N	0.47	23.50		
10-34-0	Fertilizer	7	100%	8 gallon	2.80	22.40		
Wheat (Certified and Treated)	Seed	7	100%	50 pound	0.31	15.50		
2,4-D Ester 4#	Herbicide	8	100%	0.5 pint	2.56	1.28		
Ally Extra SGW/TOTSOL	Herbicide	8	100%	0.3 ounce	9.00	2.70		
NIS	Additive	8	100%	6 ounce	0.17	1.03		
* Aerial Spray	Custom	9	20%	1 acre	9.50	1.90		
* Tilt	Fungicide	9	20%	4 ounce	0.82	0.66		
** Aerial Spray	Custom	10	15%	1 acre	9.50	1.43		
** Lorsban Advanced	Insecticide	10	10%	1 pint	6.88	0.69		
** Warrior II/Zeon	Insecticide	10	5%	1.92 ounce	2.97	0.29		
Haul Grain Bushels	Custom	12	100%	45 bushel	0.11	4.95		
Scouting Dryland Wheat	Scouting		100%	1 acre	7.00	7.00		
Wheat Fallowed	Crop Insurance				6.46	6.46		
Total Materials & Services							89.79	

*Fungicide for rust

**Insecticide for aphids and army cutworm

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 140.52 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

Overhead (accounting, liability insurance, vehicle cost, office expense)

Real Estate Opportunity Dryland (Panhandle) \$ 1,460 per acre @ 4.00%

Real Estate Taxes \$ 1,460 per acre @ 1.00%

Total Cost per Acre Including Overhead

Cost per bu

Cash Cost per bu

177.88

3.86

181.74

20.00

116.80

29.20

347.74

7.73

3.86

**2016 Budget 69-Wheat, No-Till Wheat before Corn, Two Crops in Three Years, 65 bu Yield Goal (60 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
2 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
3 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
4 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
5 No-Till Drill	1		1.83	1.31	0.69	1.57	2.30	3.54	11.24	
6 Spread Fertilizer	1		1.57	0.79	0.66	0.00	2.18	0.00	5.20	
7 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
8 Aerial Spray	Custom									
9 Aerial Spray	Custom									
10 Combine Small Grain	1		3.14	3.87	7.31	0.93	5.99	2.81	24.05	
11 Truck	Custom									
Total for Field Operations			11.54	7.32	10.31	5.70	16.02	10.75	61.64	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
				Rate	Unit			
Glyphosate w/Surf	Herbicide	1	100%	32	ounce	0.13	4.00	
21-0-0-24S	Additive	1	100%	1.7	pound	0.35	0.60	
2,4-D Ester 4#	Herbicide	1	100%	1	pint	2.56	2.56	
Glyphosate w/Surf	Herbicide	2	100%	32	ounce	0.13	4.00	
21-0-0-24S	Additive	2	100%	1.7	pound	0.35	0.60	
2,4-D Ester 4#	Herbicide	2	100%	1	pint	2.56	2.56	
Glyphosate w/Surf	Herbicide	3	100%	32	ounce	0.13	4.00	
21-0-0-24S	Additive	3	100%	1.7	pound	0.35	0.60	
2,4-D Ester 4#	Herbicide	3	100%	1	pint	2.56	2.56	
Glyphosate w/Surf	Herbicide	4	100%	32	ounce	0.13	4.00	
21-0-0-24S	Additive	4	100%	1.7	pound	0.35	0.60	
10-34-0	Fertilizer	5	100%	8	gallon	2.80	22.40	
Wheat (Certified and Treated)	Seed	5	100%	60	pound	0.31	18.60	
46-0-0	Fertilizer	6	100%	80	lbs N	0.48	38.40	
Ally Extra SGW/TOTSOL	Herbicide	7	100%	0.3	ounce	9.00	2.70	
NIS	Additive	7	100%	6	ounce	0.17	1.03	
2,4-D Ester 4#	Herbicide	7	100%	0.5	pint	2.56	1.28	
* Aerial Spray	Custom	8	20%	1	acre	9.50	1.90	
* Tilt	Fungicide	8	20%	4	ounce	0.82	0.66	
** Aerial Spray	Custom	9	15%	1	acre	9.50	1.43	
** Lorsban Advanced	Insecticide	9	10%	1	pint	6.88	0.69	
** Warrior II/Zeon	Insecticide	9	5%	1.92	ounce	2.97	0.29	
Haul Grain Bushels	Custom	11	100%	60	bushel	0.11	6.60	
Scouting Dryland Wheat	Scouting		100%	1	acre	7.00	7.00	
Wheat Followed	Crop Insurance					7.12	7.12	
Total Materials & Services							136.18	

*Fungicide for rust

**Insecticide for aphids and army cutworm

Total listed costs for Field Operations and Materials and Services

197.82

Interest on Operations Capital \$ 171.05 cash expense @ 5.50% for 6.0 mo.

4.70

Total Operating and Use Related Ownership Costs

202.52

Overhead (accounting, liability insurance, vehicle cost, office expense)

20.00

Real Estate Opportunity Dryland (Southwest) \$ 1,855

per acre @ 4.00%

111.30

Real Estate Taxes \$ 1,855

per acre @ 1.00%

27.83

Total Cost per Acre Including Overhead

361.65

Cost per bu

6.03

Cash Cost per bu

3.39

2016 Budget 70-Wheat, No-Till after Beans, 100 bu Yield Goal (90 bu Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 6 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 No-Till Drill	1		1.83	1.31	0.69	1.57	2.30	3.54	11.24	
2 Pivot D 125' Lift	6	ai	4.17	28.81	2.06	9.68	2.98	5.79	53.49	
3 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
4 Aerial Spray	Custom									
5 Aerial Spray	Custom									
6 Combine Small Grain	1		3.14	3.87	7.31	0.93	5.99	2.81	24.05	
7 Truck	Custom									
Total for Field Operations			10.14	34.26	10.39	12.82	12.38	13.02	93.01	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate	
			Rate	Unit				
10-34-0	Fertilizer	1	100%	8	gallon	2.80	22.40	
Wheat (Certified and Treated)	Seed	1	100%	120	pound	0.31	37.20	
28-0-0	Fertilizer	2	100%	120	lbs N	0.47	56.00	
2,4-D Ester 4#	Herbicide	3	100%	0.5	pint	2.56	1.28	
Ally Extra SGW/TOTSOL	Herbicide	3	100%	0.3	ounce	9.00	2.70	
NIS	Additive	3	100%	6	ounce	0.17	1.03	
* Aerial Spray	Custom	4	100%	1	acre	9.50	9.50	
* Tilt	Fungicide	4	100%	4	ounce	0.82	3.28	
** Aerial Spray	Custom	5	15%	1	acre	9.50	1.43	
** Lorsban Advanced	Insecticide	5	10%	1	pint	6.88	0.69	
** Warrior II/Zeon	Insecticide	5	5%	1.92	ounce	2.97	0.29	
Haul Grain Bushels	Custom	7	100%	90	bushel	0.11	9.90	
Scouting Irrigated Wheat	Scouting		100%	1	acre	5.00	5.00	
Wheat Irrigated	Crop Insurance					10.78	10.78	
Total Materials & Services						161.48		

*Fungicide for rust

**Insecticide for aphids and army cutworm

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 229.09 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

Overhead (accounting, liability insurance, vehicle cost, office expense)

Real Estate Opportunity Pivot (Panhandle) \$ 3,625 per acre @ 4.00%

Real Estate Taxes \$ 3,625 per acre @ 1.00%

Total Cost per Acre Including Overhead

Cost per bu

Cash Cost per bu

2016 Budget 71-Wheat, No-Till, in Rotation (85 Bu Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 6 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
2 No-Till Drill	1		1.83	1.31	0.69	1.57	2.30	3.54	11.24	
3 Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
4 Pivot E 125' Lift w/fertigation	6	ai	5.56	16.72	1.76	10.38	3.18	6.21	43.81	
5 Aerial Spray	Custom									
6 Aerial Spray	Custom									
7 Combine Small Grain	1		3.14	3.87	7.31	0.93	5.99	2.81	24.05	
8 Truck	Custom									
Total for Field Operations			12.53	22.44	10.42	14.16	13.69	14.32	87.56	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surf
Valor XLT	Herbicide	1	100%	1.5 ounce	5.75	8.63		
Wheat (Certified and Treated)	Seed	2	100%	120 pound	0.31	37.20		
11-52-0	Fertilizer	2	100%	40 pound	0.28	11.20		
2,4-D Ester 4#	Herbicide	3	100%	0.5 pint	2.56	1.28		
Ally Extra SGW/TOTSOL	Herbicide	3	100%	0.3 ounce	9.00	2.70		
NIS	Additive	3	100%	6 ounce	0.17	1.03		
32-0-0 (Applied by Pivot)	Fertilizer	4	100%	115 lbs N	0.47	54.05		
Electricity Fixed	Other	4	100%	1 acre	30.00	30.00		
* Aerial Spray	Custom	5	100%	1 acre	9.50	9.50		
* Tilt	Fungicide	5	100%	4 ounce	0.82	3.28		
** Aerial Spray	Custom	6	15%	1 acre	9.50	1.43		
** Lorsban Advanced	Insecticide	6	10%	1 pint	6.88	0.69		
** Warrior II/Zeon	Insecticide	6	5%	1.92 ounce	2.97	0.29		
Scouting Irrigated Wheat	Scouting		100%	1 acre	5.00	5.00		
Haul Grain Bushels	Custom	8	100%	85 bushel	0.11	9.35		
Wheat Irrigated	Crop Insurance				10.56	10.56		
Total Materials & Services							190.19	

*Fungicide for rust

**Insecticide for aphids and army cutworm

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 249.74 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

Overhead (accounting, liability insurance, vehicle cost, office expense)

Real Estate Opportunity Pivot (Panhandle) \$ 3,625 per acre @ 4.00%

Real Estate Taxes \$ 3,625 per acre @ 1.00%

Total Cost per Acre Including Overhead

Cost per Bu

Cash Cost per Bu

277.75

6.87

284.62

20.00

145.00

36.25

485.87

5.72

3.02

2016 Budget 72-Cover Crop, Conventional Tillage

Field Operations		Times or Qty	Labor @ Unit \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	Disk	1	2.02	1.97	0.29	1.24	4.14	1.21	10.87	_____
2	Drill	1	1.76	1.03	0.67	2.94	2.21	2.62	11.23	_____
3	Disk	1	2.02	1.97	0.29	1.24	4.14	1.21	10.87	_____
Total for Field Operations			5.80	4.97	1.25	5.42	10.49	5.04	32.97	_____
Materials & Services				Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
Cover Crop		Seed	2	100%	1 acre	20.00	20.00	20.00	_____	
Total Materials & Services								20.00	_____	
Total listed costs for Field Operations and Materials and Services									52.97	_____
Interest on Operations Capital \$ 37.44 cash expense @ 5.50% for 6.0 mo.									1.03	_____
Total Operating and Use Related Ownership Costs									54.00	_____
Overhead (accounting, liability insurance, vehicle cost, office expense)									0.00	_____
Real Estate Opportunity			\$ -		per acre @	4.00%		0.00	_____	
Real Estate Taxes			\$ -		per acre @	1.00%		0.00	_____	
Total Cost per Acre Including Overhead									54.00	_____

2016 Budget 73-Cover Crop, No-Till

Field Operations		Times or Qty	Labor @ Unit \$20.00 /Hr	Fuel @ \$2.25 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	No-Till Drill	1	1.83	1.31	0.69	1.57	2.30	3.54	11.24	_____
2	Spray	1	1.00	0.27	0.33	0.64	1.11	0.88	4.23	_____
Total for Field Operations			2.83	1.58	1.02	2.21	3.41	4.42	15.47	_____
Materials & Services				Operation Index	Percent Acres Applied	Application Rate Unit		Applied Price	Total	Your Estimate
	Cover Crop	Seed		1	100%	1 acre		20.00	20.00	_____
	2,4-D Ester 4#	Herbicide		2	100%	1 pint		2.56	2.56	_____
	Glyphosate w/Surf	Herbicide		2	100%	32 ounce		0.13	4.00	_____
Total Materials & Services									26.56	_____
Total listed costs for Field Operations and Materials and Services									42.03	_____
Interest on Operations Capital \$ 34.20 cash expense @ 5.50% for 6.0 mo.									0.94	_____
Total Operating and Use Related Ownership Costs									42.97	_____
Overhead (accounting, liability insurance, vehicle cost, office expense)									0.00	_____
Real Estate Opportunity <input type="text"/> \$ - per acre @ 4.00%									0.00	_____
Real Estate Taxes \$ - per acre @ 1.00%									0.00	_____
Total Cost per Acre Including Overhead									42.97	_____