

# 2019 Nebraska Crop Budgets

**Robert Klein, Senior Editor, Western Nebraska Crop Specialist**  
**Glennis McClure, Extension Educator - Agricultural Economics**  
**Roger Wilson, Farm Management / Enterprise Budget Analyst, Retired**

These budget projections were created using cropping practice norms for many producers in Nebraska. However, each individual farming operation is unique.

**These budgets are available in both Adobe PDF and Excel worksheet formats. Producers can 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 that no alterations have been made or unrealistic data entered. Therefore, 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 <https://cropwatch.unl.edu/budgets>.

For more information contact:  
Robert Klein, 308-696-6705 or [rklein1@unl.edu](mailto:rklein1@unl.edu)  
Glennis McClure, 402-472-0661 or [gmcclure3@unl.edu](mailto:gmcclure3@unl.edu)

The following individuals contributed to these budgets in their specialty area:

Loren Giesler	Plant Pathologist - Soybean and Turf
Jessica Groskopf	Extension Educator - Agricultural Economics
Tamra Jackson-Ziems	Plant Pathologist - Corn and Sorghum
Jim Jansen	Extension Educator - Agricultural Economics
Paul Jasa	Extension Biological Systems Engineer
Chris Proctor	Extension Educator - Weed Management
Robert Tigner	Extension Educator - Agricultural Economics
Stephen Wegulo	Plant Pathologist - Wheat and Ornamental
Robert Wright	Extension Entomologist

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# 2019 Crop Budgeting Procedures

This publication contains 78 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 \$2.49 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.

Prices for materials and services in the budgets were obtained in October 2018. Multiple Peril Crop insurance premiums per acre for the crop budgets are based on 2018 figures at the 70% for irrigated and 75% for dryland LP (level by practice). See *Table 6* for costs listed in budgets. Federal crop insurance premiums for 2019 will be available for producers in the spring of 2019. Additional hail and wind or other additional insurance coverages per crop were not included in the budgets.

The value in the “Operation Index” column in the “Materials and Services” section indicated 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 2018 times an investment rate of 3 percent. Until 2018, 4 percent was used. 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.

### **Benefits of Soybeans in Corn/Soybean Rotation**

The budgets for continuous soybeans are different from the budgets for soybeans after corn. A direct comparison of these budgets does not tell

the entire story as some of the benefits from soybeans in a corn/soybean rotation are realized in the following corn crop.

One benefit is decrease of the corn rootworm problem. When corn follows soybeans, the rootworm insecticide can be omitted and there is no need to purchase corn seed with the rootworm trait. This amounts to approximately a \$15.00 per acre savings to the following corn crop.

A second benefit is corn following soybeans will typically yield more. This increase is between 4 to 10 bushels per acre for irrigated corn and 10 to 30 bushels for dryland corn. Using a 10 bushel increase in corn and a price of three dollars per bushel results in a \$30 per acre increase in income.

A final benefit is the value of nitrogen produced by the soybean crop. If the soybeans produce 45 pounds of nitrogen per acre this amounts to a savings to the corn crop of \$18.90 per acre when nitrogen costs forty-two cents a pound.

The above benefits amount to \$63.90 per acre which does not include the benefits of spreading labor and machinery use requirements out over a longer time frame.

However, additional phosphorus must be applied to replace that used by the soybeans in a corn crop following soybeans. This amounts to about 0.8 pound for every bushel of soybeans produced. The cost to replace 48 pounds of P<sub>2</sub>O<sub>5</sub> needed for a 60 bushel per acre soybean crop would be approximately \$21 per acre.

**Table 1. Power Unit Cost Data Used for 2019 Budgets**

<i>Name</i>	<i>List Price</i>	<i>Age</i>	<i>Total Tach</i>	<i>Est. Hours per Year</i>
Large Tractor	331,066	10	1,500	300
Medium Tractor	224,262	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	150,309	10	2,500	120

**Table 2. Machinery Cost Data Used for 2019 Budgets**

<i>Operation Name</i>	<i>List Price</i>	<i>Age</i>	<i>Annual Use</i>	<i>Unit</i>	<i>Units per Hour</i>	<i>Diesel Use per Hour</i>
Anhydrous Application	N/A	5	500	acre	12	6.36
Bale Large Round	22,417	5	1,000	ton	10	2.88
Bale Large Square	120,658	5	1,000	ton	16	6.19
Bale Small Square	24,555	5	1,250	Ton	4	3.50
Cart	42,000	5	440,000	bushel	1,540	3.00
Chisel	59,791	5	2,000	acre	11	8.26
Chop Stalks	19,971	5	500	acre	12	5.74
Combine Dryland Corn	53,013	5	1,000	acre	7	10.50
Combine Dryland Soybeans	32,435	5	1,000	acre	7	10.50
Combine Dryland Sorghum	32,435	5	1,000	acre	7	10.50
Combine Irr Corn	53,013	5	1,000	acre	7	10.50
Combine Irr Dry Beans	32,435	5	1,000	acre	5	10.50
Combine Irr Soybeans	32,435	5	1,000	acre	6	10.50
Combine Irr Sorghum	32,435	5	1,000	acre	7	10.50
Combine Irrigated Dry Beans with Draper Flex Platform	32,435	5	1,000	acre	5	10.50
Combine Small Grain	32,435	5	1,000	acre	7	10.47
Combine Sunflowers	53,013	5	1,000	acre	7	10.50
Corrugate	30,000	5	300	acre	7	4.39
Disk	44,962	5	2,000	acre	11	8.29
Double Windrows	7,403	20	300	acre	20	2.11
Drill	66,251	10	1,000	acre	13	4.99
Drill Grass	73,000	10	1,000	acre	9	4.29
Drill No-Till	66,251	5	1,000	acre	12	6.07
Drill w/ Fertilizer	66,251	10	1,000	acre	11	5.00
Field Cultivation	59,791	5	2,000	acre	15	8.20
Harrow		5	1,000	acre	19	2.05
Irrigation Ditch	N/A	5	1,000	acre-inch	2	
Irrigation Pipe Diesel 125' Lift	N/A	10	2,600	acre-inch	2	3.03
Irrigation Pivot Diesel 125' Lift	70,000	10	2,600	acre-inch	2	3.34
Irrigation Pivot Diesel 125' Lift w/fertigation	75,000	10	2,600	acre-inch	2	3.34
Irrigation Pivot Electric 125' Lift	70,000	10	2,600	acre-inch	2	
Irrigation Pivot Electric 125' Lift w/fertigation	75,000	10	2,600	acre-inch	2	
Lift Beets	110,000	5	1,000	acre	6	6.19
Load Large Square	4,213	5	3,000	ton	20	4.00
Load Small Square	13,000	5	1,250	ton	10	2.00
Move Large Round	4,213	5	3,000	ton	20	4.00
Pickett Windrowers	32,000	5	1,000	acre	10	6.07
Plant	72,828	5	1,000	acre	10	2.73
Plant Narrow Row	72,828	5	1,000	acre	10	2.58
Plant No-Till	126,703	5	1,000	acre	10	3.38
Plow	15,874	5	1,000	acre	8	6.00
Ridge Cultivate/Ditch	30,000	5	1,000	acre	12	5.33
Ridge Cultivation	30,000	5	1,500	acre	10	5.33
Ridge Plant and Band Herbicide	126,703	5	1,500	acre	10	3.41
Rod Weeder		5	1,000	acre	13	5.35
Rod Weeder & Fertilizer		5	1,000	acre	13	5.35
Roll		5	300	acre	9	5.46
Roller Harrow	30,000	5	1,000	acre	10	5.00
Rotary Hoe	25,000	5	1,000	acre	15	3.67
Row Crop Cultivation	30,000	5	1,000	acre	11	3.50

**Table 2. Machinery Cost Data Used for 2019 Budgets (Continued)**

<i>Operation Name</i>	<i>List Price</i>	<i>Age</i>	<i>Annual Use</i>	<i>Unit</i>	<i>Units per Hour</i>	<i>Diesel Use per Hour</i>
Seeder/Packer	62,545	5	1,000	acre	8	4.29
Spray (Prior Year Stubble)	36,000	5	2,500	acre	25	2.64
Spray Fertilizer	36,000	5	1,000	acre	25	2.64
Spray Fertilizer and Herbicide	36,000	5	1,000	acre	25	2.64
Spray Herbicide	36,000	5	2,500	acre	25	2.64
Spray Insecticide	36,000	5	2,500	acre	25	2.64
Spray Spring Burndown Herbicide	36,000	5	2,500	acre	25	2.64
Spread Fertilizer	N/A	5	1,000	acre	13	3.86
Ripper	59,791	5	500	acre	9	8.25
Swath/Condition Hay	-	5	2,000	acre	10	5.00
Till Plant Beets	48,000	5	1,000	acre	6	8.25
Top Beets	50,000	5	1,000	acre	6	3.50
Turn Windrows	7,403	5	1,000	acre	12	2.10
Windrow Grain	-	5	3,000	acre	10	5.00

**Table 3. Material Prices Used for 2019 Budgets**

<i>Item</i>	<i>Price per Unit</i>
<b>Additive</b>	
21-0-0-24S	\$0.35/pound
Approved adjuvant	\$3.00/acre
Crop Oil Concentrate	\$10.75/gallon
MSO	\$21.50/gallon
NIS	\$23.00/gallon
UAN	\$1.55/gallon
<b>Custom</b>	
Aerial Spray	\$10.00/acre
Bale Lg Sq 1360 lb	\$15.00/bale
Broadcast Seed	\$5.00/acre
Chop, Haul, Pack	\$10.75/ton
Dry 2 Points Removed	\$0.08/bushel
Haul & Apply Manure	\$6.00/ton
Haul Beets	\$5.00/ton
Haul Grain (Dry Beans)	\$0.28/cwt
Haul Grain (Millet)	\$0.24/cwt
Haul Grain (Sunflower)	\$0.30/cwt
Haul Grain Bushels	\$0.11/bushel
Load Large Square Bales	\$2.00/bale
Spray	\$7.00/acre

<i>Item</i>	<i>Price per Unit</i>
<b>Fertilizer</b>	
10-34-0	\$2.45/gallon
10-34-0-1Zn	\$2.50/gallon
11-52-0	\$0.27/pound
28-0-0	\$1.33/gallon
32-0-0	\$0.42/lbs N
32-0-0 (Applied by Pivot)	\$0.42/lbs N
32-0-0 (Applied by R2)	\$0.42/lbs N
46-0-0	\$0.42/lbs N
82-0-0	\$0.31/lbs N
Uncomposted manure	\$1.00/ton
<b>Fungicide and Seed Treatment</b>	
Copper	\$3.50/pint
Headline AMP	\$330.00/gallon
Pea Seed Inoculant	\$0.06/lb
Priaxor	\$700.00/gallon
Prosaro 421 SC	\$340.00/gallon
Quadris	\$230.00/gallon
Quilt Xcel	\$210.00/gallon
Stratego YLD	\$570.00/gallon
Tilt	\$100.00/gallon



**Table3. Material Prices Used for 2019 Budgets (Continued)**

<i>Item</i>	<i>Price per Unit</i>
<b>Herbicide and Additive</b>	
2,4-D Amine	\$12.00/gallon
2,4-D Ester 4#	\$17.00/gallon
AAtrex 4L	\$18.00/gallon
Acuron	\$60.00/gallon
Aim 2EC	\$190.00/quart
Ally Extra SGW/TOTSOL	\$9.00/ounce
Armezon Pro	\$170.00/gallon
Atrazine 4L	\$13.00/gallon
Atrazine 90 DF	\$3.00/pound
Authority First DF	\$90.00/pound
Balance Flexx	\$3.70/ounce
Basagran 5L	\$80.00/gallon
Beyond	\$610.00/gallon
Bicep II Magnum	\$45.00/gallon
Brox 2EC	\$35.00/gallon
Dicamba	\$41.00/gallon
DiFlexx	\$170.00/gallon
Distinct	\$40.00/gallon
Engenia	\$130.00/gallon
FeXapan	\$70.00/gallon
Glyphosate w/Surfactant	\$15.00/gallon
Gramoxone SL 2.0	\$27.00/gallon
Huskie	\$120.00/gallon
Landmaster BW	\$17.00/gallon
Laudis	\$570.00/gallon
Lumax EZ	\$80.00/gallon
Outlook	\$150.00/gallon
Peak	\$18.00/ounce
Prowl H2O	\$52.00/gallon
Pursuit	\$480.00/gallon
Raptor	\$610.00/gallon
Roundup WeatherMax	\$33.00/gallon
Rugged	\$33.00/gallon
Select Max	\$110.00/gallon
Sharpen	\$870.00/gallon
Spartan 4F	\$270.00/gallon
Spirit	\$14.00/ounce
Status	\$4.30/ounce
Valor XLT	\$96.00/pound
Velpar 75DF	\$36.00/pound
Vida	\$550.00/pound
XtenviMax	\$70.00/gallon

<i>Item</i>	<i>Price per Unit</i>
<b>Insecticide</b>	
Asana XL	\$70.00/gallon
Brigade 2EC	\$90.00/gallon
Capture LFR	\$300.00/gallon
Lorsban 15 G	\$2.25/pound
Lorsban 4 E	\$60.00/gallon
Lorsban Advanced	\$60.00/gallon
Mustang Maxx	\$180.00/gallon
Regent 4 SC	\$10.00/ounce
Warrior II/Zeon	\$370.00/gallon

<b>Other</b>	
Electricity Fixed	\$30.00/acre
Electricity Usage	\$0.105/kw
Fence /Water Repairs	\$260.00/circle
Irrigation District O&M Charge	\$30.00/acre
Move Cattle	\$20.00/hour
Twine Large Round	\$0.70/bale
Twine Large Square	\$1.23/bale
Twine Small Square	\$0.07/bale

<b>Rental</b>	
Grass Drill	\$15.00/acre
Seeder/Packer	\$13.00/acre

<b>Scouting</b>	
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	\$9.00/acre
Scouting Irrigated Soybeans	\$9.00/acre
Scouting Irrigated Wheat	\$9.00/acre
Scouting Sugar Beets	\$16.00/acre

**Table 3. Material Prices Used for 2019 Budgets (Continued)**

<i>Item</i>	<i>Price per Unit</i>
<b>Seed</b>	
Alfalfa RR 2/Inoculant	\$9.00/pound
Alfalfa w/Inoculant	\$6.00/pound
Corn	\$190.00/bag
Corn Bt, ECB, & RIB	\$220.00/bag
Corn Bt, ECB, RR2, & RIB	\$240.00/bag
Corn Bt, ECB, RW, & RIB	\$250.00/bag
Corn Bt, ECB, RW, RR2, & RIB	\$270.00/bag
Corn RR2	\$220.00/bag
Corn SmartStax RIB Complete	\$300.00/bag
Cover Crop	\$15.00/acre
Cover Crop Legume	\$30.00/acre
Edible Beans	\$92.00/cwt
Grass Seed	\$75.00/acre
Millet	\$0.60/pound
Oats	\$10.00/bushel

<i>Item</i>	<i>Price per Unit</i>
<b>Seed</b>	
Peas	\$18.00/bushel
RR2 Soybeans	\$56.00/bag
RR2 Soybeans Treated	\$60.00/bag
RR2 Soybeans Xtend	\$62.00/bag
RR2 Soybeans Xtend Treated	\$66.00/bag
Sorghum Safened/Insect	\$3.20/pound
Sorghum Sudan	\$0.90/pound
Sorghum Sudan (Treated)	\$1.10/pound
Sorghum Sudan Brown (Treated)	\$1.50/pound
Sorghum Sudan Brown Midrib	\$1.30/pound
Sugar Beets RR Poncho	\$180.00/acre
Sunflower Clearfield	\$360.00/bag
Wheat	\$0.10/pound
Wheat (Certified Treated)	\$0.27/pound
Wheat Cover Crop	\$0.10/pound

**Converting Energy Numbers in Budgets**

If your energy source is different from that used in the 2019 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 2018 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*.\*

<b>Energy Source</b>	<b>Units</b>	<b>Multiplier</b>
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 Engineer, Derrel Martin

**Diesel Fuel Conversion for Center Pivots**

The 2019 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.

**Table 6. Federal Crop Insurance premiums. Estimates for 2019 based on 2018 75% LP on Dryland Crops and 70% LP on Irrigated Crops (LP is Level by Practice).**

Budget	Dryland or Irrigated	Area	Yield	Per Acre Premium
1-Alfalfa	Dryland		N/A	N/A
2-Alfalfa	Dryland		N/A	N/A
3-Alfalfa	Dryland		N/A	N/A
4-Alfalfa	Dryland		N/A	N/A
5-Alfalfa	Dryland		N/A	N/A
6-Alfalfa	Irrigated		N/A	N/A
7-Alfalfa	Irrigated		N/A	N/A
8-Alfalfa	Irrigated	Panhandle	2.5 ton	N/A
9-Alfalfa	Dryland	State	4.4 ton	N/A
10-Alfalfa	Irrigated	State	6.7 ton	N/A
11-Alfalfa	Irrigated	State	6.8 ton	N/A
12-Alfalfa	Irrigated	Panhandle	6.6 ton	N/A
13-Alfalfa	Irrigated	State	6.6 ton	N/A
14-Alfalfa	Irrigated	State	6.8 ton	N/A
15-Corn	Dryland	State	90 bu	\$ 25.00
16-Corn	Dryland	State	100 bu	\$ 25.00
17-Corn	Dryland	Eastern	150 bu	\$ 15.00
18-Corn	Dryland	Eastern	160 bu	\$ 15.00
19-Corn	Dryland	State	125 bu	\$ 25.00
20-Corn	Dryland	Eastern	170 bu	\$ 15.00
21-Corn	Dryland	State	130 bu	\$ 25.00
22-Corn	Dryland	Eastern	175 bu	\$ 15.00
23-Corn	Dryland	State	135 bu	\$ 25.00
24-Corn	Dryland	Eastern	185 bu	\$ 15.00
25-Corn	Dryland	Southwest	125 bu	\$ 25.00
26-Corn	Irrigated	State	240 bu	\$ 8.00
27-Corn	Irrigated	State	250 bu	\$ 8.00
28-Corn	Irrigated	State	245 bu	\$ 8.00
29-Corn	Irrigated	Panhandle	190 bu	\$ 14.00
30-Corn	Irrigated	State	240 bu	\$ 8.00
31-Corn	Irrigated	State	245 bu	\$ 8.00
32-Corn	Irrigated	State	270 bu	\$ 8.00
33-Corn	Irrigated	State	230 bu	\$ 8.00
34-Corn	Irrigated	State	240 bu	\$ 8.00
35-Corn	Irrigated	Panhandle	190 bu	\$ 14.00
36-Corn	Irrigated	Panhandle	200 bu	\$ 14.00
37-Corn	Irrigated	State	235 bu	\$ 8.00
38-Corn	Irrigated	State	26 ton	\$ 8.00
39-Dry Beans	Irrigated	Panhandle	27 cwt	\$ 18.00
40-Dry Beans	Irrigated	Panhandle	27 cwt	\$ 18.00
41-Dry Beans	Irrigated	Panhandle	27 cwt	\$ 18.00
42-Dry Beans	Irrigated	Panhandle	27 cwt	\$ 18.00
43-Grain Sorghum	Dryland	Southwest	105 bu	\$ 20.00
44-Grain Sorghum	Dryland	State	125 bu	\$ 20.00
45-Grain Sorghum	Dryland	Southwest	115 bu	\$ 20.00
46-Grain Sorghum	Irrigated	State	165 bu	\$ 17.00
47-Grass	Irrigated		N/A	N/A
48-Grass Hay	Dryland	State	2.2 ton	N/A
49-Millet	Dryland	Panhandle	22 cwt	\$ 8.00
50-Millet	Dryland	Panhandle	22 cwt	\$ 8.00
51-Oats	Dryland	State	85 bu	\$ 7.00
52-Pasture	Irrigated	State	11 AUM	N/A
53-Peas	Dryland	Panhandle	35 bu	\$ 9.00
54-Sorghum-Sudan	Dryland	State	3.3 ton	N/A
55-Soybeans	Dryland	State	40 bu	\$ 15.00
56-Soybeans	Dryland	State	45 bu	\$ 15.00
57-Soybeans	Dryland	State	40 bu	\$ 15.00
58-Soybeans	Irrigated	State	62 bu	\$ 8.00
59-Soybeans	Irrigated	State	65 bu	\$ 8.00
60-Soybeans	Irrigated	State	70 bu	\$ 8.00
61-Soybeans	Irrigated	State	59 bu	\$ 8.00
62-Soybeans	Irrigated	State	73 bu	\$ 8.00
63-Sugarbeet	Irrigated	Panhandle	26 ton	\$ 27.00
64-Sugarbeet	Irrigated	Panhandle	26 ton	\$ 27.00
65-Sugarbeet	Irrigated	Panhandle	26 ton	\$ 27.00
66-Sugarbeet	Irrigated	Panhandle	26 ton	\$ 27.00
67-Sunflower	Dryland	Panhandle	13 cwt	\$ 17.00
68-Sunflower	Dryland	Panhandle	16 cwt	\$ 17.00
69-Sunflower	Irrigated	Panhandle	30 cwt	\$ 10.00
70-Wheat	Dryland	Southwest	55 bu	\$ 10.00
71-Wheat	Dryland	Panhandle	65 bu	\$ 8.00
72-Wheat	Dryland	Panhandle	60 bu	\$ 8.00
73-Wheat	Dryland	Panhandle	55 bu	\$ 8.00
74-Wheat	Dryland	Southwest	75 bu	\$ 8.00
75-Wheat	Irrigated	Panhandle	100 bu	\$ 6.00
76-Wheat	Irrigated	Panhandle	85 bu	\$ 6.00
77-Cover Crop			N/A	N/A
78-Cover Crop			N/A	N/A

Source: Crop insurance rates for various crops were provided by the Farm Credit Services of America, North Platte, NE office.

**1-Alfalfa, Conventional Tillage, Fall Establishment, Dryland**

**2019 Budget 1-Alfalfa, Conventional Tillage, Fall Establishment Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2 Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
3 Harrow	1		1.18	0.31	0.46	0.00	1.45	0.00	3.40	
4 Harrow	1		1.18	0.31	0.46	0.00	1.45	0.00	3.40	
5 Drill	1		1.76	1.14	0.69	2.94	2.16	2.35	11.04	
6 Roll	1		2.22	1.74	0.96	0.00	3.00	0.00	7.92	
7 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
8 Spray Insecticide	0.2		0.20	0.06	0.07	0.13	0.22	0.16	0.84	
<b>Total for Field Operations</b>			11.13	6.91	3.97	4.98	15.52	4.46	46.97	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
			Rate	Unit			
11-52-0	Fertilizer	1	100%	100 pound	0.27	27.00	
Alfalfa w/Inoculant	Seed	5	100%	12 pound	6.00	72.00	
Pursuit	Herbicide	7	100%	3 ounce	3.75	11.25	
Crop Oil Concentrate	Additive	7	100%	1.6 pint	1.34	2.15	
UAN	Additive	7	100%	2 pint	0.19	0.39	
Mustang Maxx	Insecticide	8	20%	3 ounce	1.41	0.84	
<b>Total Materials &amp; Services</b>						113.63	

<b>Total listed costs for Field Operations and Materials and Services</b>						160.60	
Interest on Operations Capital	\$ 140.62	cash expense @	5.50%	for 6.0 mo.		3.87	
<b>Total Operating and Use Related Ownership Costs</b>						164.47	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Fall Establishment	\$ -	per acre @	3.00%		0.00	
Real Estate Taxes		\$ -	per acre @	1.35%		0.00	
<b>Total Cost per Acre Including Overhead</b>						184.47	

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

**2019 Budget 2-Alfalfa, Roundup Ready®, No Till, Fall Establishment  
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Drill w/ Fertilizer	1		2.18	1.30	0.78	3.85	2.45	2.35	12.91	
3 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
4 Spray Insecticide	0.2		0.20	0.06	0.07	0.13	0.22	0.16	0.84	
<b>Total for Field Operations</b>			4.38	1.96	1.55	5.26	4.83	4.13	22.11	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Gramoxone SL 2.0	Herbicide	1	100%	2 pint	3.38	6.75
11-52-0	Fertilizer	2	100%	100 pound	0.27	27.00
Alfalfa RR w/Inoculant	Seed	2	100%	12 pound	9.00	108.00
Roundup WeatherMax	Herbicide	3	100%	44 ounce	0.26	11.34
21-0-0-24S	Additive	3	100%	1.7 pound	0.35	0.60
Mustang Maxx	Insecticide	4	20%	3 ounce	1.41	0.84
<b>Total Materials &amp; Services</b>					154.53	

**Total listed costs for Field Operations and Materials and Services**

Interest on Operations Capital \$ 167.68 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 Fall Establishment \$ - per acre @ 3.00%

Real Estate Taxes \$ - per acre @ 1.35%

**Total Cost per Acre Including Overhead**

176.64
4.61
181.25
20.00
0.00
0.00
201.25

**3-Alfalfa, Roundup Ready®, Conventional Tillage, Fall Establishment, Dryland**

**2019 Budget 3-Alfalfa, Roundup Ready®, Conventional Tillage, Fall Establishment Dryland**

<b>Field Operations</b>		<b>Times or Qty</b>	<b>Unit</b>	<b>Labor @ \$20.00 /Hr</b>	<b>Fuel @ \$2.49 and Lube</b>	<b>Repairs</b>		<b>Ownership</b>		<b>Total</b>	<b>Your Estimate</b>
						<b>Power</b>	<b>Imp.</b>	<b>Power</b>	<b>Imp.</b>		
1	Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2	Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
3	Harrow	1		1.18	0.31	0.46	0.00	1.45	0.00	3.40	
4	Harrow	1		1.18	0.31	0.46	0.00	1.45	0.00	3.40	
5	Drill	1		1.76	1.14	0.69	2.94	2.16	2.35	11.04	
6	Roll	1		2.22	1.74	0.96	0.00	3.00	0.00	7.92	
7	Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
8	Spray Insecticide	0.2		0.20	0.06	0.07	0.13	0.22	0.16	0.84	
<b>Total for Field Operations</b>				11.13	6.91	3.97	4.98	15.52	4.46	46.97	

  

<b>Materials &amp; Services</b>		<b>Operation Index</b>	<b>Percent Acres Applied</b>	<b>Application Rate Unit</b>	<b>Applied Price</b>	<b>Total</b>	<b>Your Estimate</b>
11-52-0	Fertilizer	1	100%	100 pound	0.27	27.00	
Alfalfa RR w/Inoculant	Seed	5	100%	12 pound	9.00	108.00	
Roundup WeatherMax	Herbicide	7	100%	44 ounce	0.26	11.34	
21-0-0-24S	Additive	7	100%	1.7 pound	0.35	0.60	
Mustang Maxx	Insecticide	8	20%	3 ounce	1.41	0.84	
<b>Total Materials &amp; Services</b>						147.78	

  

<b>Total listed costs for Field Operations and Materials and Services</b>						194.75	
Interest on Operations Capital \$ 174.77 cash expense @ 5.50% for 6.0 mo.						4.81	
<b>Total Operating and Use Related Ownership Costs</b>						199.56	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Fall Establishment	\$	-	per acre @	3.00%	0.00	
Real Estate Taxes		\$	-	per acre @	1.35%	0.00	
<b>Total Cost per Acre Including Overhead</b>						219.56	

4-Alfalfa, Small Square Bales, Conventional Tillage, Establish Spring Seed with Herbicides, 2.8 ton Yield, Dryland

2019 Budget 4-Alfalfa, Small Square Bales, Conventional Tillage, Establish Spring Seed with Herbicides, 2.8 ton Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2 Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
3 Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
4 Seeder/Packer	1		3.00	1.54	1.08	3.48	3.37	3.03	15.50	
5 Spray Insecticide	0.2		0.20	0.06	0.07	0.13	0.22	0.16	0.84	
6 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
7 Swath/Condition Hay	2		4.00	2.86	4.62	0.00	6.66	0.00	18.14	
8 Turn Windrows	0.5		0.83	0.25	0.36	0.05	1.12	0.15	2.76	
9 Bale Small Square	2.80	ton	15.40	7.02	6.04	10.97	18.87	2.54	60.84	
10 Load Small Square	2.80	ton	5.60	1.60	2.42	0.80	7.55	1.16	19.13	
<b>Total for Field Operations</b>			35.09	18.24	16.50	18.67	46.83	10.50	145.83	

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 w/Inoculant	Seed	4	100%	12 pound	6.00	72.00	
Mustang Maxx	Insecticide	5	20%	3 ounce	1.41	0.84	
Brox 2EC	Herbicide	6	100%	0.5 pint	4.38	2.19	
Pursuit	Herbicide	6	100%	3 ounce	3.75	11.25	
Twine Small Square	Other	9	100%	2.8 ton	2.33	6.53	
<b>Total Materials &amp; Services</b>						132.81	

**Total listed costs for Field Operations and Materials and Services** 278.64

Interest on Operations Capital \$ 221.31 cash expense @ 5.50% for 6.0 mo. 6.09

**Total Operating and Use Related Ownership Costs** 284.73

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

Real Estate Opportunity Dryland (State) \$ 3,100 per acre @ 3.00% 93.00

Real Estate Taxes \$ 3,100 per acre @ 1.35% 41.85

**Total Cost per Acre Including Overhead** 439.58

**Cost per ton** 156.99

**Cash Cost per ton** 96.16



**1-Alfalfa, Conventional Tillage, Fall Establishment, Dryland**

**2019 Budget 1-Alfalfa, Conventional Tillage, Fall Establishment Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2 Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
3 Harrow	1		1.18	0.31	0.46	0.00	1.45	0.00	3.40	
4 Harrow	1		1.18	0.31	0.46	0.00	1.45	0.00	3.40	
5 Drill	1		1.76	1.14	0.69	2.94	2.16	2.35	11.04	
6 Roll	1		2.22	1.74	0.96	0.00	3.00	0.00	7.92	
7 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
8 Spray Insecticide	0.2		0.20	0.06	0.07	0.13	0.22	0.16	0.84	
<b>Total for Field Operations</b>			11.13	6.91	3.97	4.98	15.52	4.46	46.97	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
			Rate	Unit			
11-52-0	Fertilizer	1	100%	100 pound	0.27	27.00	
Alfalfa w/Inoculant	Seed	5	100%	12 pound	6.00	72.00	
Pursuit	Herbicide	7	100%	3 ounce	3.75	11.25	
Crop Oil Concentrate	Additive	7	100%	1.6 pint	1.34	2.15	
UAN	Additive	7	100%	2 pint	0.19	0.39	
Mustang Maxx	Insecticide	8	20%	3 ounce	1.41	0.84	
<b>Total Materials &amp; Services</b>						113.63	

<b>Total listed costs for Field Operations and Materials and Services</b>						160.60	
Interest on Operations Capital	\$ 140.62	cash expense @	5.50%	for 6.0 mo.		3.87	
<b>Total Operating and Use Related Ownership Costs</b>						164.47	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Fall Establishment	\$ -	per acre @	3.00%		0.00	
Real Estate Taxes		\$ -	per acre @	1.35%		0.00	
<b>Total Cost per Acre Including Overhead</b>						184.47	

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

**2019 Budget 2-Alfalfa, Roundup Ready®, No Till, Fall Establishment  
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Drill w/ Fertilizer	1		2.18	1.30	0.78	3.85	2.45	2.35	12.91	
3 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
4 Spray Insecticide	0.2		0.20	0.06	0.07	0.13	0.22	0.16	0.84	
<b>Total for Field Operations</b>			4.38	1.96	1.55	5.26	4.83	4.13	22.11	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Gramoxone SL 2.0	Herbicide	1	100%	2 pint	3.38	6.75
11-52-0	Fertilizer	2	100%	100 pound	0.27	27.00
Alfalfa RR w/Inoculant	Seed	2	100%	12 pound	9.00	108.00
Roundup WeatherMax	Herbicide	3	100%	44 ounce	0.26	11.34
21-0-0-24S	Additive	3	100%	1.7 pound	0.35	0.60
Mustang Maxx	Insecticide	4	20%	3 ounce	1.41	0.84
<b>Total Materials &amp; Services</b>					154.53	

**Total listed costs for Field Operations and Materials and Services**

Interest on Operations Capital \$ 167.68 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

Fall Establishment \$ -

per acre @ 3.00%

Real Estate Taxes

\$ -

per acre @ 1.35%

**Total Cost per Acre Including Overhead**

201.25

**3-Alfalfa, Roundup Ready®, Conventional Tillage, Fall Establishment, Dryland**

**2019 Budget 3-Alfalfa, Roundup Ready®, Conventional Tillage, Fall Establishment Dryland**

Field Operations		Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2	Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
3	Harrow	1		1.18	0.31	0.46	0.00	1.45	0.00	3.40	
4	Harrow	1		1.18	0.31	0.46	0.00	1.45	0.00	3.40	
5	Drill	1		1.76	1.14	0.69	2.94	2.16	2.35	11.04	
6	Roll	1		2.22	1.74	0.96	0.00	3.00	0.00	7.92	
7	Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
8	Spray Insecticide	0.2		0.20	0.06	0.07	0.13	0.22	0.16	0.84	
<b>Total for Field Operations</b>				11.13	6.91	3.97	4.98	15.52	4.46	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	5	100%	12 pound	9.00	108.00	
	Roundup WeatherMax	Herbicide	7	100%	44 ounce	0.26	11.34	
	21-0-0-24S	Additive	7	100%	1.7 pound	0.35	0.60	
	Mustang Maxx	Insecticide	8	20%	3 ounce	1.41	0.84	
<b>Total Materials &amp; Services</b>						147.78		

  

<b>Total listed costs for Field Operations and Materials and Services</b>					194.75
Interest on Operations Capital	\$ 174.77	cash expense @	5.50%	for 6.0 mo.	4.81
<b>Total Operating and Use Related Ownership Costs</b>					199.56
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)					20.00
Real Estate Opportunity	Fall Establishment	\$ -	per acre @	3.00%	0.00
Real Estate Taxes		\$ -	per acre @	1.35%	0.00
<b>Total Cost per Acre Including Overhead</b>					219.56

4-Alfalfa, Small Square Bales, Conventional Tillage, Establish Spring Seed with Herbicides, 2.8 ton Yield, Dryland

2019 Budget 4-Alfalfa, Small Square Bales, Conventional Tillage, Establish Spring Seed with Herbicides, 2.8 ton Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2 Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
3 Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
4 Seeder/Packer	1		3.00	1.54	1.08	3.48	3.37	3.03	15.50	
5 Spray Insecticide	0.2		0.20	0.06	0.07	0.13	0.22	0.16	0.84	
6 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
7 Swath/Condition Hay	2		4.00	2.86	4.62	0.00	6.66	0.00	18.14	
8 Turn Windrows	0.5		0.83	0.25	0.36	0.05	1.12	0.15	2.76	
9 Bale Small Square	2.80	ton	15.40	7.02	6.04	10.97	18.87	2.54	60.84	
10 Load Small Square	2.80	ton	5.60	1.60	2.42	0.80	7.55	1.16	19.13	
<b>Total for Field Operations</b>			35.09	18.24	16.50	18.67	46.83	10.50	145.83	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0 Fertilizer
Seeder/Packer Rental	4	100%	1 acre	13.00	13.00		
Alfalfa w/Inoculant Seed	4	100%	12 pound	6.00	72.00		
Mustang Maxx Insecticide	5	20%	3 ounce	1.41	0.84		
Brox 2EC Herbicide	6	100%	0.5 pint	4.38	2.19		
Pursuit Herbicide	6	100%	3 ounce	3.75	11.25		
Twine Small Square Other	9	100%	2.8 ton	2.33	6.53		
<b>Total Materials &amp; Services</b>						132.81	

**Total listed costs for Field Operations and Materials and Services** 278.64

Interest on Operations Capital \$ 221.31 cash expense @ 5.50% for 6.0 mo. 6.09

**Total Operating and Use Related Ownership Costs** 284.73

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

Real Estate Opportunity Dryland (State) \$ 3,100 per acre @ 3.00% 93.00

Real Estate Taxes \$ 3,100 per acre @ 1.35% 41.85

**Total Cost per Acre Including Overhead** 439.58

**Cost per ton** 156.99

**Cash Cost per ton** 96.16

**5-Alfalfa, Roundup Ready®, Small Square Bales, Conventional Tillage, Establish Spring Seed, 2.8 ton Yield, Dryland**

**2019 Budget 5-Alfalfa, Roundup Ready®, Small Square Bales, Conventional Tillage, Establish Spring Seed, 2.8 ton Yield Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2 Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
3 Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
4 Seeder/Packer	1		3.00	1.54	1.08	3.48	3.37	3.03	15.50	
5 Spray Insecticide	0.2		0.20	0.06	0.07	0.13	0.22	0.16	0.84	
6 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
7 Swath/Condition Hay	2		4.00	2.86	4.62	0.00	6.66	0.00	18.14	
8 Turn Windrows	0.5		0.83	0.25	0.36	0.05	1.12	0.15	2.76	
9 Bale Small Square	2.80	ton	15.40	7.02	6.04	10.97	18.87	2.54	60.84	
10 Load Small Square	2.80	ton	5.60	1.60	2.42	0.80	7.55	1.16	19.13	
<b>Total for Field Operations</b>			35.09	18.24	16.50	18.67	46.83	10.50	145.83	

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	
Mustang Maxx	Insecticide	5	20%	3 ounce	1.41	0.84	
Roundup WeatherMax	Herbicide	6	100%	44 ounce	0.26	11.34	
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	
<b>Total Materials &amp; Services</b>						167.31	

**Total listed costs for Field Operations and Materials and Services** 313.14

Interest on Operations Capital \$ 255.81 cash expense @ 5.50% for 6.0 mo. 7.03

**Total Operating and Use Related Ownership Costs** 320.17

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

Real Estate Opportunity Dryland (State) \$ 3,100 per acre @ 3.00% 93.00

Real Estate Taxes \$ 3,100 per acre @ 1.35% 41.85

**Total Cost per Acre Including Overhead** 475.02

**Cost per ton** 169.65

**Cash Cost per ton** 108.82

**6-Alfalfa, Large Square Bales, Conventional Tillage, Establish Spring Seed with Herbicides, 3.8 ton Yield, Pivot Irrigated**

**2019 Budget 6-Alfalfa, Large Square Bales, Conventional Tillage, Establish Spring Seed with Herbicides, 3.8 ton Yield  
Pivot Irrigated, 800 GPM 35 PSI, 12 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2 Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
3 Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
4 Seeder/Packer	1		3.00	1.54	1.08	3.48	3.37	3.03	15.50	
5 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
6 Pivot D 125' Lift	12	ai	8.33	63.76	4.12	19.37	5.51	10.63	111.72	
7 Swath/Condition Hay	2		4.00	2.86	4.62	0.00	6.66	0.00	18.14	
8 Turn Windrows	0.5		0.83	0.25	0.36	0.05	1.12	0.15	2.76	
9 Bale Large Square	3.80	ton	5.23	4.21	2.05	2.19	6.40	21.15	41.23	
10 Load Large Square	3.80	ton	4.18	2.18	1.64	0.18	5.12	0.21	13.51	
11 Spray Insecticide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
<b>Total for Field Operations</b>			32.13	79.86	15.95	28.83	37.76	39.04	233.57	

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	
Brox 2EC	Herbicide	5	100%	0.5 pint	4.38	2.19	
Pursuit	Herbicide	5	100%	3 ounce	3.75	11.25	
Twine Large Square	Other	10-Sep	100%	3.80 ton	1.81	6.86	
Mustang Maxx	Insecticide	11	50%	3 ounce	1.41	2.11	
<b>Total Materials &amp; Services</b>						134.41	

<b>Total listed costs for Field Operations and Materials and Services</b>					367.98	
Interest on Operations Capital	\$ 291.18	cash expense @	5.50%	for 6.0 mo.	8.01	
<b>Total Operating and Use Related Ownership Costs</b>					375.99	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)					20.00	
Real Estate Opportunity	Pivot (State)	\$ 6,130	per acre @	3.00%	183.90	
Real Estate Taxes		\$ 6,130	per acre @	1.35%	82.76	
<b>Total Cost per Acre Including Overhead</b>					662.65	
<b>Cost per ton</b>					174.38	
<b>Cash Cost per ton</b>					100.51	

7-Alfalfa, Roundup Ready®, Large Square Bales, Conventional Tillage, Establish Spring Seed, 4 ton Yield, Pivot Irrigated

2019 Budget 7-Alfalfa, Roundup Ready®, Large Square Bales, Conventional Tillage, Establish Spring Seed, 4 ton Yield  
Pivot Irrigated, 800 GPM 35 PSI, 12 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2 Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
3 Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
4 Seeder/Packer	1		3.00	1.54	1.08	3.48	3.37	3.03	15.50	
5 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
6 Pivot D 125' Lift	12	ai	8.33	63.76	4.12	19.37	5.51	10.63	111.72	
7 Swath/Condition Hay	2		4.00	2.86	4.62	0.00	6.66	0.00	18.14	
8 Turn Windrows	0.5		0.83	0.25	0.36	0.05	1.12	0.15	2.76	
9 Bale Large Square	4.00	ton	5.50	4.43	2.16	2.31	6.74	22.27	43.41	
10 Load Large Square	4.00	ton	4.40	2.29	1.73	0.19	5.39	0.22	14.22	
11 Spray Insecticide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
<b>Total for Field Operations</b>			32.62	80.19	16.15	28.96	38.37	40.17	236.46	

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	0.26	11.34	
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	
Mustang Maxx	Insecticide	11	50%	3 ounce	1.41	2.11	
<b>Total Materials &amp; Services</b>						169.27	

<b>Total listed costs for Field Operations and Materials and Services</b>					405.73	
Interest on Operations Capital	\$ 327.19	cash expense @	5.50%	for 6.0 mo.	9.00	
<b>Total Operating and Use Related Ownership Costs</b>					414.73	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)					20.00	
Real Estate Opportunity	Pivot (State)	\$ 6,130	per acre @	3.00%	183.90	
Real Estate Taxes		\$ 6,130	per acre @	1.35%	82.76	
<b>Total Cost per Acre Including Overhead</b>					701.39	
<b>Cost per ton</b>					175.35	
<b>Cash Cost per ton</b>					104.74	

**8-Alfalfa, Large Round Bales, Conventional Tillage, Fall Seeded with Subsequent Year Production, 2.5 ton Yield, Gravity Irrigat  
 2019 Budget 8-Alfalfa, Large Round Bales, Conventional Tillage, Fall Seeded with Subsequent Year Production, 2.5 ton  
 Yield  
 Gravity Irrigated, fed by canal, 18 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
2 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
3 Drill	1		1.76	1.14	0.69	2.94	2.16	2.35	11.04	
4 Roll	1		2.22	1.74	0.96	0.00	3.00	0.00	7.92	
5 Spray Insecticide	0.2		0.20	0.06	0.07	0.13	0.22	0.16	0.84	
6 Corrugate	1		3.13	1.79	1.23	0.90	3.84	5.05	15.94	
7 Swath/Condition Hay	2		4.00	2.86	4.62	0.00	6.66	0.00	18.14	
8 Turn Windrows	0.5		0.83	0.25	0.36	0.05	1.12	0.15	2.76	
9 Bale Large Round	2.50	ton	5.50	2.06	2.16	2.69	6.74	2.59	21.74	
10 Move Large Round	2.50	ton	2.75	1.43	1.08	0.00	3.37	0.14	8.77	
11 Ditch Irrigation	18	ai	20.00	0.00	0.00	0.00	0.00	0.00	20.00	
12 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
<b>Total for Field Operations</b>			44.98	14.68	12.50	8.62	34.35	12.39	127.52	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Alfalfa w/Inoculant	Seed	3	100%	12 pound	6.00	72.00
Oats	Seed	3	100%	0.5 bushel	10.00	5.00
Mustang Maxx	Insecticide	5	20%	3 ounce	1.41	0.84
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	1.34	2.15
UAN	Additive	12	100%	2 pint	0.19	0.39
<b>Total Materials &amp; Services</b>						163.48

<b>Total listed costs for Field Operations and Materials and Services</b>						291.00
Interest on Operations Capital \$ 244.26	cash expense @	5.50%	for 6.0 mo.			6.72
<b>Total Operating and Use Related Ownership Costs</b>						297.72
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00
Real Estate Opportunity	Gravity (Panhandle)	\$ 2,340	per acre @	3.00%		70.20
Real Estate Taxes		\$ 2,340	per acre @	1.35%		31.59
<b>Total Cost per Acre Including Overhead</b>						419.51
<b>Cost per ton</b>						167.80
<b>Cash Cost per ton</b>						113.03



**9-Alfalfa, Large Round Bale, 4.4 ton Yield, Dryland**

**2019 Budget 9-Alfalfa, Large Round Bale, 4.4 ton Yield  
Dryland**

	Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2	Swath/Condition Hay	4		8.00	5.73	9.23	0.00	13.33	0.00	36.29	
3	Turn Windrows	1		1.67	0.50	0.72	0.11	2.25	0.29	5.54	
4	Double Windrows	3		3.30	0.91	1.30	0.16	4.04	1.11	10.82	
5	Bale Large Round	4.4	ton	9.68	3.62	3.80	4.73	11.86	4.55	38.24	
6	Move Large Round	4.4	ton	4.84	2.52	1.90	0.00	5.93	0.25	15.44	
7	Spray Insecticide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
<b>Total for Field Operations</b>				29.31	14.23	17.72	5.16	39.80	6.40	112.62	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
Twine Large Round	Other	5	100%	4.4 ton	0.91	4.00	
Mustang Maxx	Insecticide	7	25%	3 ounce	1.41	1.05	
<b>Total Materials &amp; Services</b>						18.55	

**Total listed costs for Field Operations and Materials and Services** 131.17

Interest on Operations Capital \$ 84.97 cash expense @ 5.50% for 6.0 mo.

**Total Operating and Use Related Ownership Costs** 133.51

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

Real Estate Opportunity Dryland (State) \$ 3,100 per acre @ 3.00% 93.00

Real Estate Taxes \$ 3,100 per acre @ 1.35% 41.85

**Total Cost per Acre Including Overhead** 288.36

**Cost per ton** 65.54

**Cash Cost per ton** 29.35

**9-Alfalfa, Large Round Bale, 4.4 ton Yield, Dryland**

**2019 Budget 9-Alfalfa, Large Round Bale, 4.4 ton Yield  
Dryland**

	Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2	Swath/Condition Hay	4		8.00	5.73	9.23	0.00	13.33	0.00	36.29	
3	Turn Windrows	1		1.67	0.50	0.72	0.11	2.25	0.29	5.54	
4	Double Windrows	3		3.30	0.91	1.30	0.16	4.04	1.11	10.82	
5	Bale Large Round	4.4	ton	9.68	3.62	3.80	4.73	11.86	4.55	38.24	
6	Move Large Round	4.4	ton	4.84	2.52	1.90	0.00	5.93	0.25	15.44	
7	Spray Insecticide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
<b>Total for Field Operations</b>				29.31	14.23	17.72	5.16	39.80	6.40	112.62	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
Twine Large Round	Other	5	100%	4.4 ton	0.91	4.00	
Mustang Maxx	Insecticide	7	25%	3 ounce	1.41	1.05	
<b>Total Materials &amp; Services</b>						18.55	

**Total listed costs for Field Operations and Materials and Services** 131.17

Interest on Operations Capital \$ 84.97 cash expense @ 5.50% for 6.0 mo.

**Total Operating and Use Related Ownership Costs** 133.51

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

Real Estate Opportunity Dryland (State) \$ 3,100 per acre @ 3.00% 93.00

Real Estate Taxes \$ 3,100 per acre @ 1.35% 41.85

**Total Cost per Acre Including Overhead** 288.36

**Cost per ton** 65.54

**Cash Cost per ton** 29.35

**10-Alfalfa, Large and Small Square Bale, 6.7 ton Yield, Pivot Irrigated Electric**

**2019 Budget 10-Alfalfa, Large and Small Square Bale, 6.7 ton Yield  
Pivot Irrigated Electric, 800 GPM 35 PSI, 16 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2 Swath/Condition Hay	4		8.00	5.73	9.23	0.00	13.33	0.00	36.29	
3 Turn Windrows	1		1.67	0.50	0.72	0.11	2.25	0.29	5.54	
4 Double Windrows	4		4.40	1.21	1.73	0.22	5.39	1.48	14.43	
5 Bale Large Square	4.5	ton	6.14	4.95	2.41	2.58	7.53	24.86	48.47	
6 Load Large Square		Custom ton								
7 Bale Small Square	2.2	ton	12.28	5.60	4.82	8.75	15.05	2.02	48.52	
8 Load Small Square	2.2	ton	4.47	1.28	1.93	0.64	6.02	0.92	15.26	
9 Pivot E 125' Lift	16	ai	11.11	44.59	4.68	25.82	8.20	14.17	108.57	
10 Spray Herbicide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
11 Spray Insecticide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
<b>Total for Field Operations</b>			50.14	64.89	26.38	38.44	60.43	44.14	284.42	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Twine Large Square	Other	5	100%	4.467 ton	1.81	8.07	
Load Large Square Bales	Custom	6	100%	4.467 ton	2.94	13.12	
Twine Small Square	Other	7	100%	2.233 ton	2.33	5.21	
Electricity Fixed	Other	9	100%	1 acre	30.00	30.00	
Pursuit	Herbicide	10	25%	4.5 ounce	3.75	4.22	
Crop Oil Concentrate	Additive	10	25%	1.6 pint	1.34	0.54	
UAN	Additive	10	25%	2 pint	0.19	0.10	
Mustang Maxx	Insecticide	11	25%	3 ounce	1.41	1.05	
<b>Total Materials &amp; Services</b>						82.56	

<b>Total listed costs for Field Operations and Materials and Services</b>						366.98	
Interest on Operations Capital	\$ 262.41	cash expense @	5.50%	for 6.0 mo.		7.22	
<b>Total Operating and Use Related Ownership Costs</b>						374.20	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Pivot (State)	\$ 6,130	per acre @	3.00%		183.90	
Real Estate Taxes		\$ 6,130	per acre @	1.35%		82.76	
<b>Total Cost per Acre Including Overhead</b>						660.86	
<b>Cost per ton</b>						98.64	
<b>Cash Cost per ton</b>						52.59	

**10-Alfalfa, Large and Small Square Bale, 6.7 ton Yield, Pivot Irrigated Electric**

**2019 Budget 10-Alfalfa, Large and Small Square Bale, 6.7 ton Yield  
Pivot Irrigated Electric, 800 GPM 35 PSI, 16 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2 Swath/Condition Hay	4		8.00	5.73	9.23	0.00	13.33	0.00	36.29	
3 Turn Windrows	1		1.67	0.50	0.72	0.11	2.25	0.29	5.54	
4 Double Windrows	4		4.40	1.21	1.73	0.22	5.39	1.48	14.43	
5 Bale Large Square	4.5	ton	6.14	4.95	2.41	2.58	7.53	24.86	48.47	
6 Load Large Square		Custom ton								
7 Bale Small Square	2.2	ton	12.28	5.60	4.82	8.75	15.05	2.02	48.52	
8 Load Small Square	2.2	ton	4.47	1.28	1.93	0.64	6.02	0.92	15.26	
9 Pivot E 125' Lift	16	ai	11.11	44.59	4.68	25.82	8.20	14.17	108.57	
10 Spray Herbicide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
11 Spray Insecticide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
<b>Total for Field Operations</b>			50.14	64.89	26.38	38.44	60.43	44.14	284.42	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
11-52-0	Fertilizer	1	100%	75 pound	0.27	20.25	
Twine Large Square	Other	5	100%	4.467 ton	1.81	8.07	
Load Large Square Bales	Custom	6	100%	4.467 ton	2.94	13.12	
Twine Small Square	Other	7	100%	2.233 ton	2.33	5.21	
Electricity Fixed	Other	9	100%	1 acre	30.00	30.00	
Pursuit	Herbicide	10	25%	4.5 ounce	3.75	4.22	
Crop Oil Concentrate	Additive	10	25%	1.6 pint	1.34	0.54	
UAN	Additive	10	25%	2 pint	0.19	0.10	
Mustang Maxx	Insecticide	11	25%	3 ounce	1.41	1.05	
<b>Total Materials &amp; Services</b>						82.56	

<b>Total listed costs for Field Operations and Materials and Services</b>						366.98	
Interest on Operations Capital	\$ 262.41	cash expense @	5.50%	for 6.0 mo.		7.22	
<b>Total Operating and Use Related Ownership Costs</b>						374.20	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Pivot (State)	\$ 6,130	per acre @	3.00%		183.90	
Real Estate Taxes		\$ 6,130	per acre @	1.35%		82.76	
<b>Total Cost per Acre Including Overhead</b>						660.86	
<b>Cost per ton</b>						98.64	
<b>Cash Cost per ton</b>						52.59	

**11-Alfalfa, Roundup Ready®, Large and Small Square Bale, 6.8 ton Yield, Pivot Irrigated Electric**

**2019 Budget 11-Alfalfa, Roundup Ready®, Large and Small Square Bale, 6.8 ton Yield  
Pivot Irrigated Electric, 800 GPM 35 PSI, 16 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2 Swath/Condition Hay	4		8.00	5.73	9.23	0.00	13.33	0.00	36.29	
3 Turn Windrows	1		1.67	0.50	0.72	0.11	2.25	0.29	5.54	
4 Double Windrows	4		4.40	1.21	1.73	0.22	5.39	1.48	14.43	
5 Bale Large Square	4.5	ton	6.23	5.02	2.45	2.62	7.64	25.23	49.19	
6 Load Large Square		Custom ton								
7 Bale Small Square	2.3	ton	12.47	5.68	4.89	8.88	15.28	2.05	49.25	
8 Load Small Square	2.3	ton	4.53	1.30	1.96	0.65	6.11	0.94	15.49	
9 Pivot E 125' Lift	16	ai	11.11	44.59	4.68	25.82	8.20	14.17	108.57	
10 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
11 Spray Insecticide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
<b>Total for Field Operations</b>			51.23	65.28	26.78	39.10	61.67	45.17	289.23	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Twine Large Square	Other	5	100%	4.53 ton	1.81	8.19	
Load Large Square Bales	Custom	6	100%	4.53 ton	2.94	13.31	
Twine Small Square	Other	7	100%	2.27 ton	2.33	5.29	
Electricity Fixed	Other	9	100%	1 acre	30.00	30.00	
Roundup WeatherMax	Herbicide	10	100%	44 ounce	0.26	11.34	
21-0-0-24S	Additive	10	100%	1.7 pound	0.35	0.60	
Mustang Maxx	Insecticide	11	25%	3 ounce	1.41	1.05	
<b>Total Materials &amp; Services</b>						91.38	

<b>Total listed costs for Field Operations and Materials and Services</b>						380.61	
Interest on Operations Capital	\$ 273.77	cash expense @	5.50%	for 6.0 mo.		7.53	
<b>Total Operating and Use Related Ownership Costs</b>						388.14	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Pivot (State)	\$ 6,130	per acre @	3.00%		183.90	
Real Estate Taxes		\$ 6,130	per acre @	1.35%		82.76	
<b>Total Cost per Acre Including Overhead</b>						674.80	
<b>Cost per ton</b>						99.24	
<b>Cash Cost per ton</b>						53.54	

12-Alfalfa, Large and Small Square Bale, 6.6 ton Yield, Pivot Irrigated Electric

2019 Budget 12-Alfalfa, Large and Small Square Bale, 6.6 ton Yield  
Pivot Irrigated Electric, 800 GPM 35 PSI, 16 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2 Swath/Condition Hay	4		8.00	5.73	9.23	0.00	13.33	0.00	36.29	
3 Bale Large Square	4.4	ton	6.05	4.87	2.37	2.54	7.41	24.49	47.73	
4 Load Large Square	Custom	ton								
5 Bale Small Square	2.2	ton	12.10	5.51	4.75	8.62	14.83	1.99	47.80	
6 Load Small Square	2.2	ton	4.40	1.26	1.90	0.63	5.93	0.91	15.03	
7 Pivot E 125' Lift	16	ai	11.11	44.59	4.68	25.82	8.20	14.17	108.57	
8 Spray Herbicide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
9 Spray Insecticide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
<b>Total for Field Operations</b>			43.73	62.99	23.79	37.93	52.36	41.96	262.76	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
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	36.00	5.94	
Mustang Maxx	Insecticide	9	25%	3 ounce	1.41	1.05	
<b>Total Materials &amp; Services</b>						83.24	

<b>Total listed costs for Field Operations and Materials and Services</b>						346.00
Interest on Operations Capital \$ 251.68	cash expense @	5.50%	for 6.0 mo.			6.92
<b>Total Operating and Use Related Ownership Costs</b>						352.92
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00
Real Estate Opportunity	Pivot (Panhandle)	\$ 2,700	per acre @	3.00%		81.00
Real Estate Taxes		\$ 2,700	per acre @	1.35%		36.45
<b>Total Cost per Acre Including Overhead</b>						490.37
<b>Cost per ton</b>						74.30
<b>Cash Cost per ton</b>						44.70

**13-Alfalfa, Large Square Bale, 6.6 ton Yield, Gravity Irrigated, fed by canal**

**2019 Budget 13-Alfalfa, Large Square Bale, 6.6 ton Yield  
Gravity Irrigated, fed by canal, 22 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2 Swath/Condition Hay	4		8.00	5.73	9.23	0.00	13.33	0.00	36.29	
3 Turn Windrows	1		1.67	0.50	0.72	0.11	2.25	0.29	5.54	
4 Double Windrows	4		4.40	1.21	1.73	0.22	5.39	1.48	14.43	
5 Bale Large Square	6.6		9.08	7.31	3.56	3.81	11.12	36.74	71.62	
6 Load Large Square	Custom									
7 Corrugate	1		3.13	1.79	1.23	0.90	3.84	5.05	15.94	
8 Ditch Irrigation	22	ai	24.44						24.44	
9 Spray Herbicide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
10 Spray Insecticide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
<b>Total for Field Operations</b>			52.79	17.57	17.33	5.36	38.59	43.96	175.60	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
Twine Large Square	Other	5	100%	6.6 ton	1.81	11.92	
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	3.75	4.22	
Crop Oil Concentrate	Additive	9	25%	1.6 pint	1.34	0.54	
UAN	Additive	9	25%	2 pint	0.19	0.10	
Mustang Maxx	Insecticide	10	25%	3 ounce	1.41	1.05	
	Crop Insurance				N/A	0.00	
<b>Total Materials &amp; Services</b>						87.46	

<b>Total listed costs for Field Operations and Materials and Services</b>						263.06
Interest on Operations Capital	\$ 180.51	cash expense @	5.50%	for 6.0 mo.		4.96
<b>Total Operating and Use Related Ownership Costs</b>						268.02
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00
Real Estate Opportunity	Gravity (State)	\$ 5,795	per acre @	3.00%		173.85
Real Estate Taxes		\$ 5,795	per acre @	1.35%		78.23
<b>Total Cost per Acre Including Overhead</b>						540.10
<b>Cost per ton</b>						81.83
<b>Cash Cost per ton</b>						39.96

14-Alfalfa, Roundup Ready®, Large Square Bale, 6.8 ton Yield, Gravity Irrigated, fed by canal

2019 Budget 14-Alfalfa, Roundup Ready®, Large Square Bale, 6.8 ton Yield  
Gravity Irrigated, fed by canal, 14 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2 Swath/Condition Hay	4		8.00	5.73	9.23	0.00	13.33	0.00	36.29	
3 Turn Windrows	1		1.67	0.50	0.72	0.11	2.25	0.29	5.54	
4 Double Windrows	4		4.40	1.21	1.73	0.22	5.39	1.48	14.43	
5 Bale Large Square	6.8		9.35	7.53	3.67	3.93	11.46	37.85	73.79	
6 Load Large Square	Custom									
7 Corrugate	1		3.13	1.79	1.23	0.90	3.84	5.05	15.94	
8 Ditch Irrigation	14	ai	15.56						15.56	
9 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
10 Spray Insecticide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
<b>Total for Field Operations</b>			44.93	18.01	17.70	5.96	39.74	45.68	172.02	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
Twine Large Square	Other	5	100%	6.8 ton	1.81	12.28	
Load Large Square Bales	Custom	6	100%	6.8 ton	2.94	19.97	
Irrigation District O&M Charge	Other	8	100%	1 acre	30.00	30.00	
Roundup WeatherMax	Herbicide	9	100%	44 ounce	0.26	11.34	
21-0-0-24S	Additive	9	100%	1.7 pound	0.35	0.60	
Mustang Maxx	Insecticide	10	25%	3 ounce	1.41	1.05	
	Crop Insurance				N/A	0.00	
<b>Total Materials &amp; Services</b>						96.84	

<b>Total listed costs for Field Operations and Materials and Services</b>						268.86	
Interest on Operations Capital	\$ 183.44	cash expense @	5.50%	for 6.0 mo.		5.04	
<b>Total Operating and Use Related Ownership Costs</b>						273.90	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Gravity (State)	\$ 5,795	per acre @	3.00%		173.85	
Real Estate Taxes		\$ 5,795	per acre @	1.35%		78.23	
<b>Total Cost per Acre Including Overhead</b>						545.98	
<b>Cost per ton</b>						80.29	
<b>Cash Cost per ton</b>						39.22	



**15-Corn, Conventional Tillage, Continuous, 90 bu Yield, Dryland**

**2019 Budget 15-Corn, Conventional Tillage, Continuous, 90 bu Yield Dryland**

	Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
2	Anhydrous Application	1		1.83	1.52	0.72	0.58	2.25	3.63	10.53	
3	Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
4	Plant	1		2.40	0.78	0.86	2.54	2.70	3.53	12.81	
5	Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
6	Row Crop Cultivation	1		2.00	0.91	0.78	0.44	2.45	1.52	8.10	
7	Row Crop Cultivation	0.25		0.50	0.23	0.20	0.11	0.61	0.38	2.03	
8	Spray Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
9	Spray Insecticide	Custom									
10	Combine Dryland Corn	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
11	Cart	90	bu	1.29	0.50	0.50	0.82	1.58	0.49	5.18	
12	Truck	Custom									
13	Dry Grain	Custom									
<b>Total for Field Operations</b>				16.15	12.43	11.77	9.58	22.89	17.75	90.57	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								82-0-0
Corn	Seed	4	100%	13.8 k seed	2.38	32.88		
Capture LFR	Insecticide	4	100%	6.6 ounce	2.34	15.47		
10-34-0	Fertilizer	4	100%	6 gallon	2.45	14.70		
Lumax EZ	Herbicide	5	100%	2.7 quart	20.00	54.00		
Spray	Custom	8	50%	1 acre	7.00	3.50		
Armezon Pro	Herbicide	8	50%	14 ounce	1.33	9.30		
NIS	Additive	8	50%	6 ounce	0.18	0.54		
UAN	Additive	8	50%	2 pint	0.19	0.19		
Spray	Custom	9	30%	1 acre	7.00	2.10		
Brigade 2EC	Insecticide	9	10%	5.12 ounce	0.70	0.36		
Mustang Maxx	Insecticide	9	20%	2 ounce	1.41	0.56		
Haul Grain Bushels	Custom	12	100%	90 bushel	0.11	9.90		
Dry 2 Points Removed	Custom	13	10%	90 bushel	0.08	0.72		
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				25.00	25.00		
<b>Total Materials &amp; Services</b>							204.12	

<b>Total listed costs for Field Operations and Materials and Services</b>						294.69	
Interest on Operations Capital	\$ 254.05	cash expense @	5.50%	for 6.0 mo.		6.99	
<b>Total Operating and Use Related Ownership Costs</b>						301.68	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Dryland (State)	\$ 3,100	per acre @	3.00%		93.00	
Real Estate Taxes		\$ 3,100	per acre @	1.35%		41.85	
<b>Total Cost per Acre Including Overhead</b>						456.53	
<b>Cost per bu</b>						5.07	
<b>Cash Cost per bu</b>						3.37	

**16-Corn, Conventional Tillage, in Corn/Soybean Rotation, Conventional Seed (Non Bt), 100 bu Yield, Dryland**

**2019 Budget 16-Corn, Conventional Tillage, in Corn/Soybean Rotation, Conventional Seed (Non Bt), 100 bu Yield Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Anhydrous Application	1		1.83	1.52	0.72	0.58	2.25	3.63	10.53	
2 Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
3 Plant	1		2.40	0.78	0.86	2.54	2.70	3.53	12.81	
4 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
5 Row Crop Cultivation	1		2.00	0.91	0.78	0.44	2.45	1.52	8.10	
6 Row Crop Cultivation	0.25		0.50	0.23	0.20	0.11	0.61	0.38	2.03	
7 Spray Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
8 Spray Insecticide	Custom									
9 Combine Dryland Corn	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
10 Cart	100	bu	1.43	0.56	0.56	0.92	1.75	0.54	5.76	
11 Truck	Custom									
12 Dry Grain	Custom									
<b>Total for Field Operations</b>			14.27	10.31	11.53	8.41	19.02	16.66	80.20	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Corn	Seed	3	100%	15.4 k seed	2.38	36.54
10-34-0	Fertilizer	3	100%	6 gallon	2.45	14.70
Lumax EZ	Herbicide	4	100%	2.7 quart	20.00	54.00
Spray	Custom	7	50%	1 acre	7.00	3.50
Laudis	Herbicide	7	50%	3 ounce	4.45	6.68
MSO	Additive	7	50%	19.2 ounce	0.17	1.61
UAN	Additive	7	50%	2 pint	0.19	0.19
Spray	Custom	8	30%	1 acre	7.00	2.10
Brigade 2EC	Insecticide	8	10%	5.12 ounce	0.70	0.36
Mustang Maxx	Insecticide	8	20%	2 ounce	1.41	0.56
Haul Grain Bushels	Custom	11	100%	100 bushel	0.11	11.00
Dry 2 Points Removed	Custom	12	10%	100 bushel	0.08	0.80
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00
	Crop Insurance				25.00	25.00
<b>Total Materials &amp; Services</b>						181.09

<b>Total listed costs for Field Operations and Materials and Services</b>		261.29
Interest on Operations Capital \$ 225.61 cash expense @ 5.50% for 6.0 mo.		6.20
<b>Total Operating and Use Related Ownership Costs</b>		267.49
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity Dryland (State)	\$ 3,100 per acre @ 3.00%	93.00
Real Estate Taxes	\$ 3,100 per acre @ 1.35%	41.85
<b>Total Cost per Acre Including Overhead</b>		422.34
<b>Cost per bu</b>		4.22
<b>Cash Cost per bu</b>		2.74

17-Corn, Eastern Nebraska, Conventional Tillage, Continuous, 150 bu Yield, Dryland

2019 Budget 17-Corn, Eastern Nebraska, Conventional Tillage, Continuous, 150 bu Yield  
Dryland

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
2 Anhydrous Application	1		1.83	1.52	0.72	0.58	2.25	3.63	10.53	
3 Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
4 Plant	1		2.40	0.78	0.86	2.54	2.70	3.53	12.81	
5 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
6 Spray Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
7 Spray Insecticide	Custom									
8 Combine Dryland Corn	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
9 Cart	150	bu	2.14	0.84	0.84	1.37	2.63	0.81	8.63	
10 Truck	Custom									
11 Dry Grain	Custom									
<b>Total for Field Operations</b>			14.50	11.63	11.13	9.58	20.88	16.17	83.89	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								82-0-0
Corn	Seed	4	100%	23.1 k seed	2.38	54.81		
Capture LFR	Insecticide	4	100%	6.6 ounce	2.34	15.47		
10-34-0	Fertilizer	4	100%	6 gallon	2.45	14.70		
Lumax EZ	Herbicide	5	100%	2.7 quart	20.00	54.00		
Status	Herbicide	6	50%	2.5 ounce	4.30	5.38		
NIS	Additive	6	50%	6 ounce	0.18	0.54		
UAN	Additive	6	50%	2 pint	0.19	0.19		
Spray	Custom	7	30%	1 acre	7.00	2.10		
Brigade 2EC	Insecticide	7	10%	5.12 ounce	0.70	0.36		
Mustang Maxx	Insecticide	7	20%	2 ounce	1.41	0.56		
Haul Grain Bushels	Custom	10	100%	150 bushel	0.11	16.50		
Dry 2 Points Removed	Custom	11	20%	150 bushel	0.08	2.40		
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				15.00	15.00		
<b>Total Materials &amp; Services</b>							230.86	

<b>Total listed costs for Field Operations and Materials and Services</b>		314.75
Interest on Operations Capital \$ 277.70	cash expense @ 5.50% for 6.0 mo.	7.64
<b>Total Operating and Use Related Ownership Costs</b>		322.39
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity	Dryland (Eastern) \$ 5,675 per acre @ 3.00%	170.25
Real Estate Taxes	\$ 5,675 per acre @ 1.35%	76.61
<b>Total Cost per Acre Including Overhead</b>		589.25
<b>Cost per bu</b>		3.93
<b>Cash Cost per bu</b>		2.41

**18-Corn, Eastern Nebraska, Conventional Tillage, in Corn/Soybean Rotation, 160 bu Yield, Dryland**

**2019 Budget 18-Corn, Eastern Nebraska, Conventional Tillage, in Corn/Soybean Rotation, 160 bu Yield Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Anhydrous Application	1		1.83	1.52	0.72	0.58	2.25	3.63	10.53	
2 Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
3 Plant	1		2.40	0.78	0.86	2.54	2.70	3.53	12.81	
4 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
5 Spray Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
6 Spray Insecticide	Custom									
7 Combine Dryland Corn	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
8 Cart	160		2.29	0.89	0.90	1.46	2.80	0.86	9.20	
9 Truck	Custom	bu								
10 Dry Grain	Custom									
<b>Total for Field Operations</b>			12.63	9.50	10.89	8.40	17.01	15.08	73.51	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								82-0-0
Corn	Seed	3	100%	24.6 k seed	2.38	58.46		
10-34-0	Fertilizer	3	100%	6 gallon	2.45	14.70		
Lumax EZ	Herbicide	4	100%	2.7 quart	20.00	54.00		
Armezon Pro	Herbicide	5	50%	14 ounce	1.33	9.30		
NIS	Additive	5	50%	6 ounce	0.18	0.54		
UAN	Additive	5	50%	2 pint	0.19	0.19		
Spray	Custom	6	30%	1 acre	7.00	2.10		
Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36		
Mustang Maxx	Insecticide	6	20%	2 ounce	1.41	0.56		
Haul Grain Bushels	Custom	9	100%	160 bushel	0.11	17.60		
Dry 2 Points Removed	Custom	10	20%	160 bushel	0.08	2.56		
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				15.00	15.00		
<b>Total Materials &amp; Services</b>							218.02	

<b>Total listed costs for Field Operations and Materials and Services</b>		291.53
Interest on Operations Capital \$ 259.44 cash expense @ 5.50% for 6.0 mo.		7.13
<b>Total Operating and Use Related Ownership Costs</b>		298.66
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity Dryland (Eastern)	\$ 5,675 per acre @ 3.00%	170.25
Real Estate Taxes	\$ 5,675 per acre @ 1.35%	76.61
<b>Total Cost per Acre Including Overhead</b>		565.52
<b>Cost per bu</b>		3.53
<b>Cash Cost per bu</b>		2.14

19-Corn, Bt, ECB, RW, RR2, & RIB, No Till, Continuous, 125 bu Yield, Dryland

2019 Budget 19-Corn, Bt, ECB, RW, RR2, & RIB, No Till, Continuous, 125 bu Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
2 Spray Fertilizer and Herbicide	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
3 Plant No-Till	1		2.40	0.97	0.86	4.41	2.70	6.13	17.47	
4 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
5 Spray Insecticide	Custom									
6 Combine Dryland Corn	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
7 Cart	125	bu	1.79	0.70	0.70	1.14	2.19	0.67	7.19	
8 Truck	Custom									
9 Dry Grain	Custom									
<b>Total for Field Operations</b>			9.83	6.72	9.74	8.23	13.43	14.38	62.33	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	50%	1 pint	2.13	1.06		
21-0-0-24S	Additive	1	50%	1.7 pound	0.35	0.30		
32-0-0	Fertilizer	2	100%	115 lbs N	0.42	48.30		
Acuron	Herbicide	2	100%	2.5 quart	15.00	37.50		
Corn Bt, ECB, RW, RR2, & RIB	Seed	3	100%	19.2 k seed	3.38	64.90		
10-34-0-1Zn	Fertilizer	3	100%	6 gallon	2.50	15.00		
Glyphosate w/Surfactant	Herbicide	4	100%	32 ounce	0.12	3.75		
21-0-0-24S	Additive	4	100%	1.7 pound	0.35	0.60		
Laudis	Herbicide	4	50%	3 ounce	4.45	6.68		
* Spray	Custom	5	30%	1 acre	7.00	2.10		
* Brigade 2EC	Insecticide	5	10%	5.12 ounce	0.70	0.36		
* Mustang Maxx	Insecticide	5	20%	2 ounce	1.41	0.56		
Haul Grain Bushels	Custom	8	100%	125 bushel	0.11	13.75		
Dry 2 Points Removed	Custom	9	10%	125 bushel	0.08	1.00		
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				25.00	25.00		
<b>Total Materials &amp; Services</b>							229.74	

\*Insecticide for Spider mites and Western Bean Cutworm respectively.

<b>Total listed costs for Field Operations and Materials and Services</b>						292.07	
Interest on Operations Capital \$ 264.26	cash expense @	5.50%	for 6.0 mo.			7.27	
<b>Total Operating and Use Related Ownership Costs</b>						299.34	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Dryland (State)	\$ 3,100	per acre @	3.00%		93.00	
Real Estate Taxes		\$ 3,100	per acre @	1.35%		41.85	
<b>Total Cost per Acre Including Overhead</b>						454.19	
<b>Cost per bu</b>						3.63	
<b>Cash Cost per bu</b>						2.51	

20-Corn, Bt, ECB, RW, RR2, & RIB, Eastern Nebraska, No Till, Continuous, 170 bu Yield, Dryland

2019 Budget 20-Corn, Bt, ECB, RW, RR2, & RIB, Eastern Nebraska, No Till, Continuous, 170 bu Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
2 Spray Fertilizer and Herbicide	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
3 Plant No-Till	1		2.40	0.97	0.86	4.41	2.70	6.13	17.47	
4 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
5 Spray Insecticide	Custom									
6 Combine Dryland Corn	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
7 Cart	170	bu	2.43	0.95	0.95	1.56	2.98	0.92	9.79	
8 Truck	Custom									
9 Dry Grain	Custom									
<b>Total for Field Operations</b>			10.47	6.97	9.99	8.65	14.22	14.63	64.93	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	50%	1 pint	2.13	1.06		
21-0-0-24S	Additive	1	50%	1.7 pound	0.35	0.30		
32-0-0	Fertilizer	2	100%	160 lbs N	0.42	67.20		
Acuron	Herbicide	2	100%	2.5 quart	15.00	37.50		
Corn Bt, ECB, RW, RR2, & RIB	Seed	3	100%	26.2 k seed	3.38	88.27		
10-34-0-1Zn	Fertilizer	3	100%	6 gallon	2.50	15.00		
Glyphosate w/Surfactant	Herbicide	4	100%	32 ounce	0.12	3.75		
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	0.70	0.36		
* Mustang Maxx	Insecticide	5	20%	2 ounce	1.41	0.56		
Haul Grain Bushels	Custom	8	100%	170 bushel	0.11	18.70		
Dry 2 Points Removed	Custom	9	20%	170 bushel	0.08	2.72		
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00		
Crop Insurance					15.00	15.00		
<b>Total Materials &amp; Services</b>							267.38	

\*Insecticide for Spider mites and Western Bean Cutworm respectively.

<b>Total listed costs for Field Operations and Materials and Services</b>						332.31	
Interest on Operations Capital \$ 303.46	cash expense @	5.50%	for 6.0 mo.			8.35	
<b>Total Operating and Use Related Ownership Costs</b>						340.66	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Dryland (Eastern)	\$ 5,675	per acre @	3.00%		170.25	
Real Estate Taxes		\$ 5,675	per acre @	1.35%		76.61	
<b>Total Cost per Acre Including Overhead</b>						607.52	
<b>Cost per bu</b>						3.57	
<b>Cash Cost per bu</b>						2.28	

**21-Corn, SmartStax RIB Complete, No Till, Continuous, 130 bu Yield, Dryland**

**2019 Budget 21-Corn, SmartStax RIB Complete, No Till, Continuous, 130 bu Yield Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
2 Spray Fertilizer and Herbicide	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
3 Plant No-Till	1		2.40	0.97	0.86	4.41	2.70	6.13	17.47	
4 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
5 Spray Insecticide	Custom									
6 Combine Dryland Corn	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
7 Cart	130	bu	1.86	0.73	0.73	1.19	2.28	0.70	7.49	
8 Truck	Custom									
9 Dry Grain	Custom									
<b>Total for Field Operations</b>			9.90	6.75	9.77	8.28	13.52	14.41	62.63	

  

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
2,4-D Ester LV4	Herbicide	1	50%	1 pint	2.13	1.06
21-0-0-24S	Additive	1	50%	1.7 pound	0.35	0.30
32-0-0	Fertilizer	2	100%	120 lbs N	0.42	50.40
Acuron	Herbicide	2	100%	2.5 quart	15.00	37.50
Corn SmartStax RIB Complete	Seed	3	100%	20.0 k seed	3.75	75.00
10-34-0	Fertilizer	3	100%	6 gallon	2.45	14.70
Glyphosate w/Surfactant	Herbicide	4	100%	32 ounce	0.12	3.75
21-0-0-24S	Additive	4	100%	1.7 pound	0.35	0.60
Armezon Pro	Herbicide	4	50%	14 ounce	1.33	9.30
Spray	Custom	5	10%	1 acre	7.00	0.70
Brigade 2EC	Insecticide	5	10%	5.12 ounce	0.70	0.36
Haul Grain Bushels	Custom	8	100%	130 bushel	0.11	14.30
Dry 2 Points Removed	Custom	9	10%	130 bushel	0.08	1.04
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00
	Crop Insurance				25.00	25.00
<b>Total Materials &amp; Services</b>						242.89

  

<b>Total listed costs for Field Operations and Materials and Services</b>		305.52
Interest on Operations Capital \$ 277.59 cash expense @ 5.50% for 6.0 mo.		7.63
<b>Total Operating and Use Related Ownership Costs</b>		313.15
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity Dryland (State)	\$ 3,100 per acre @ 3.00%	93.00
Real Estate Taxes	\$ 3,100 per acre @ 1.35%	41.85
<b>Total Cost per Acre Including Overhead</b>		468.00
<b>Cost per bu</b>		3.60
<b>Cash Cost per bu</b>		2.52

22-Corn, SmartStax RIB Complete, Eastern Nebraska, No Till, Continuous, 175 bu Yield, Dryland

2019 Budget 22-Corn, SmartStax RIB Complete, Eastern Nebraska, No Till, Continuous, 175 bu Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
2 Spray Fertilizer and Herbicide	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
3 Plant No-Till	1		2.40	0.97	0.86	4.41	2.70	6.13	17.47	
4 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
5 Spray Insecticide	Custom									
6 Combine Dryland Corn	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
7 Cart	175	bu	2.50	0.98	0.98	1.60	3.06	0.94	10.06	
8 Truck	Custom									
9 Dry Grain	Custom									
<b>Total for Field Operations</b>			10.54	7.00	10.02	8.69	14.30	14.65	65.20	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	50%	1 pint	2.13	1.06		
21-0-0-24S	Additive	1	50%	1.7 pound	0.35	0.30		
32-0-0	Fertilizer	2	100%	175 lbs N	0.42	73.50		
Acuron	Herbicide	2	100%	2.5 quart	15.00	37.50		
Corn SmartStax RIB Complete	Seed	3	100%	26.9 k seed	3.75	100.96		
10-34-0	Fertilizer	3	100%	6 gallon	2.45	14.70		
Glyphosate w/Surfactant	Herbicide	4	100%	32 ounce	0.12	3.75		
21-0-0-24S	Additive	4	100%	1.7 pound	0.35	0.60		
Laudis	Herbicide	4	50%	3 ounce	4.45	6.68		
Spray	Custom	5	10%	1 acre	7.00	0.70		
Brigade 2EC	Insecticide	5	10%	5.12 ounce	0.70	0.36		
Haul Grain Bushels	Custom	8	100%	175 bushel	0.11	19.25		
Dry 2 Points Removed	Custom	9	20%	175 bushel	0.08	2.80		
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				15.00	15.00		
<b>Total Materials &amp; Services</b>							286.04	

Total listed costs for Field Operations and Materials and Services 351.24

Interest on Operations Capital \$ 322.29 cash expense @ 5.50% for 6.0 mo. 8.86

**Total Operating and Use Related Ownership Costs 360.10**

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

Real Estate Opportunity Dryland (Eastern) \$ 5,675 per acre @ 3.00% 170.25

Real Estate Taxes \$ 5,675 per acre @ 1.35% 76.61

**Total Cost per Acre Including Overhead 626.96**

**Cost per bu 3.58**

**Cash Cost per bu 2.33**



23-Corn, Bt, ECB, & RIB, No Till, after Beans, 135 bu Yield, Dryland

2019 Budget 23-Corn, Bt, ECB, & RIB, No Till, after Beans, 135 bu Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
2 Spray Fertilizer	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
3 Plant No-Till	1		2.40	0.97	0.86	4.41	2.70	6.13	17.47	
4 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
5 Spray Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
6 Spray Insecticide	Custom									
7 Combine Dryland Corn	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
8 Cart	135	bu	1.93	0.75	0.76	1.24	2.36	0.73	7.77	
9 Truck	Custom									
10 Dry Grain	Custom									
<b>Total for Field Operations</b>			10.47	6.92	9.97	8.65	14.14	14.85	65.00	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	50%	1.0 pint	2.13	1.06		
21-0-0-24S	Additive	1	50%	1.7 pound	0.35	0.30		
32-0-0	Fertilizer	2	100%	90 lbs N	0.42	37.80		
Corn Bt, ECB, & RIB	Seed	3	100%	20.8 k seed	2.75	57.12		
10-34-0	Fertilizer	3	100%	6 gallon	2.45	14.70		
Acuron	Herbicide	4	100%	2.5 quart	15.00	37.50		
Crop Oil Concentrate	Additive	4	100%	1.6 pint	1.34	2.15		
21-0-0-24S	Additive	4	100%	2.5 pound	0.35	0.88		
Status	Herbicide	5	50%	2.5 ounce	4.30	5.38		
Atrazine 90 DF	Herbicide	5	50%	0.5 pound	3.00	0.75		
Crop Oil Concentrate	Additive	5	50%	1 pint	1.34	0.67		
UAN	Additive	5	50%	3 pint	0.19	0.29		
* Spray	Custom	6	30%	1 acre	7.00	2.10		
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36		
* Mustang Maxx	Insecticide	6	20%	2 ounce	1.41	0.56		
Haul Grain Bushels	Custom	9	100%	135 bushel	0.11	14.85		
Dry 2 Points Removed	Custom	10	10%	135 bushel	0.08	1.08		
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				25.00	25.00		
<b>Total Materials &amp; Services</b>							211.43	

\*Insecticide for Spider mites and Western Bean Cutworm respectively.

**Total listed costs for Field Operations and Materials and Services** 276.43

Interest on Operations Capital \$ 247.44 cash expense @ 5.50% for 6.0 mo. 6.80

**Total Operating and Use Related Ownership Costs** 283.23

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

Real Estate Opportunity Dryland (State) \$ 3,100 per acre @ 3.00% 93.00

Real Estate Taxes \$ 3,100 per acre @ 1.35% 41.85

**Total Cost per Acre Including Overhead** 438.08

**Cost per bu** 3.25

**Cash Cost per bu** 2.19

24-Corn, Bt, ECB, & RIB, Eastern Nebraska, No Till, after Beans, 185 bu Yield, Dryland

2019 Budget 24-Corn, Bt, ECB, & RIB, Eastern Nebraska, No Till, after Beans, 185 bu Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Spray Fertilizer	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
3 Plant No-Till	1		2.40	0.97	0.86	4.41	2.70	6.13	17.47	
4 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
5 Spray Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
6 Spray Insecticide	Custom									
7 Combine Dryland Corn	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
8 Cart	185	bu	2.64	1.03	1.04	1.69	3.24	1.00	10.64	
9 Truck	Custom									
10 Dry Grain	Custom									
<b>Total for Field Operations</b>			11.68	7.35	10.43	9.42	15.56	15.52	69.96	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	50%	1.0 pint	2.13	1.06		
21-0-0-24S	Additive	1	50%	1.7 pound	0.35	0.30		
32-0-0	Fertilizer	2	100%	140 lbs N	0.42	58.80		
Corn Bt, ECB, & RIB	Seed	3	100%	28.5 k seed	2.75	78.27		
10-34-0	Fertilizer	3	100%	6 gallon	2.45	14.70		
Acuron	Herbicide	4	100%	2.5 quart	15.00	37.50		
Crop Oil Concentrate	Additive	4	100%	1.6 pint	1.34	2.15		
21-0-0-24S	Additive	4	100%	2.5 pound	0.35	0.88		
Armezon Pro	Herbicide	5	50%	14 ounce	1.33	9.30		
Atrazine 90 DF	Herbicide	5	50%	0.5 pound	3.00	0.75		
Crop Oil Concentrate	Additive	5	50%	1 pint	1.34	0.67		
UAN	Additive	5	50%	3 pint	0.19	0.29		
* Spray	Custom	6	30%	1 acre	7.00	2.10		
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36		
* Mustang Maxx	Insecticide	6	20%	2 ounce	1.41	0.56		
Haul Grain Bushels	Custom	9	100%	185 bushel	0.11	20.35		
Dry 2 Points Removed	Custom	10	20%	185 bushel	0.08	2.96		
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				15.00	15.00		
<b>Total Materials &amp; Services</b>							254.88	

\*Insecticide for Spider mites and Western Bean Cutworm respectively.

**Total listed costs for Field Operations and Materials and Services** 324.84

Interest on Operations Capital \$ 293.76 cash expense @ 5.50% for 6.0 mo. 8.08

**Total Operating and Use Related Ownership Costs** 332.92

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

Real Estate Opportunity Dryland (Eastern) \$ 5,675 per acre @ 3.00% 170.25

Real Estate Taxes \$ 5,675 per acre @ 1.35% 76.61

**Total Cost per Acre Including Overhead** 599.78

**Cost per bu** 3.24

**Cash Cost per bu** 2.05

25-Corn, ECB, RR2, & RIB, Ecofallow, Follows Wheat, Two Crops in Three Years, 125 bu Yield, Dryland

2019 Budget 25-Corn, ECB, RR2, & RIB, Ecofallow, Follows Wheat, Two Crops in Three Years, 125 bu Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray (Prior Year Stubble)	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Spray (Prior Year Stubble)	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
3 Spray Fertilizer and Herbicide	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
4 Plant No-Till	1		2.40	0.97	0.86	4.41	2.70	6.13	17.47	
5 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
6 Spray Insecticide	Custom									
7 Combine Dryland Corn	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
8 Cart	125	bu	1.79	0.70	0.70	1.14	2.19	0.67	7.19	
9 Truck	Custom									
10 Dry Grain	Custom									
<b>Total for Field Operations</b>			11.33	7.17	10.27	9.19	15.05	15.59	68.60	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							Glyphosate w/Surfactant
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60	
Rugged	Herbicide	1	100%	1 quart	8.25	8.25	
AAtrex 4L	Herbicide	2	100%	1.5 quart	4.50	6.75	
Glyphosate w/Surfactant	Herbicide	2	100%	32 ounce	0.12	3.75	
21-0-0-24S	Additive	2	100%	1.7 pound	0.35	0.60	
32-0-0	Fertilizer	3	100%	125 lbs N	0.42	52.50	
AAtrex 4L	Herbicide	3	100%	0.5 quart	4.50	2.25	
Balance Flexx	Herbicide	3	100%	4 ounce	3.70	14.80	
10-34-0	Fertilizer	4	100%	6 gallon	2.45	14.70	
Corn Bt, ECB, RR2, & RIB	Seed	4	100%	19.2 k seed	3.00	57.69	
Glyphosate w/Surfactant	Herbicide	5	100%	32 ounce	0.12	3.75	
21-0-0-24S	Additive	5	100%	1.7 pound	0.35	0.60	
Laudis	Herbicide	5	50%	3 ounce	4.45	6.68	
* Spray	Custom	6	30%	1 acre	7.00	2.10	
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36	
* Mustang Maxx	Insecticide	6	20%	2 ounce	1.41	0.56	
Haul Grain Bushels	Custom	9	100%	125 bushel	0.11	13.75	
Dry 2 Points Removed	Custom	10	10%	125 bushel	0.08	1.00	
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00	
Crop Insurance					25.00	25.00	
<b>Total Materials &amp; Services</b>						226.44	

\*Insecticide for Spider mites and Western Bean Cutworm respectively.

**Total listed costs for Field Operations and Materials and Services**

Interest on Operations Capital \$ 264.40	cash expense @	5.50%	for 6.0 mo.	7.27
<b>Total Operating and Use Related Ownership Costs</b>				302.31

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

Real Estate Opportunity	Dryland (Southwest)	\$ 1,585	per acre @	3.00%	47.55
Real Estate Taxes		\$ 1,585	per acre @	1.35%	21.40

**Total Cost per Acre Including Overhead** 391.26

**Cost per bu** 3.13

**Cash Cost per bu** 2.34

26-Corn, Bt, ECB, RW, & RIB, Ridge Till, Continuous, 240 bu Yield, Gravity Irrigated, fed by a well

2019 Budget 26-Corn, Bt, ECB, RW, & RIB, Ridge Till, Continuous, 240 bu Yield  
Gravity Irrigated, fed by a well, 1,000 GPM 10 PSI, 18 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
2 Anhydrous Application	1		1.83	1.52	0.72	0.58	2.25	3.63	10.53	
3 Ridge Plant and Band Herbicide	1		2.40	0.98	0.86	6.89	2.70	4.27	18.10	
4 Ridge Cultivation	1		2.00	1.53	0.86	0.89	2.70	1.01	8.99	
5 Ridge Cultivate/Ditch	1		1.83	1.27	0.72	0.37	2.25	1.52	7.96	
6 Spray Herbicide	Custom									
7 Spray	Custom									
8 Pipe D 125' Lift	18	ai	33.33	69.41	4.94	3.42	8.14	5.56	124.80	
9 Combine Irr Corn	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
10 Cart	240	bu	3.43	1.34	1.35	2.20	4.20	1.29	13.81	
11 Truck	Custom									
12 Dry Grain	Custom									
13 Chop Stalks	1		1.78	1.33	0.70	0.35	2.19	1.59	7.94	
<b>Total for Field Operations</b>			50.24	81.83	17.63	16.55	30.81	23.61	220.67	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Glyphosate w/Surfactant	Herbicide	1	50%	32 ounce	0.12	1.88
21-0-0-24S	Additive	1	50%	1.7 pound	0.35	0.30
82-0-0	Fertilizer	2	100%	240 lbs N	0.31	74.40
Corn Bt, ECB, RW, & RIB	Seed	3	100%	36.9 k seed	3.13	115.38
10-34-0	Fertilizer	3	100%	6 gallon	2.45	14.70
Bicep II Magnum	Herbicide	3	40%	1.8 quart	11.25	8.10
Spray	Custom	6	50%	1 acre	7.00	3.50
Laudis	Herbicide	6	50%	3 ounce	4.45	6.68
Atrazine 90 DF	Herbicide	6	50%	0.5 pound	3.00	0.75
Crop Oil Concentrate	Additive	6	50%	1 pint	1.34	0.67
UAN	Additive	6	50%	3 pint	0.19	0.29
* Spray	Custom	6	30%	1 acre	7.00	2.10
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36
* Mustang Maxx	Insecticide	6	10%	2 ounce	1.41	0.28
Spray	Custom	7	10%	1 acre	7.00	0.70
Headline AMP	Fungicide	7	10%	10 ounce	2.58	2.58
Haul Grain Bushels	Custom	11	100%	240 bushel	0.11	26.40
Dry 2 Points Removed	Custom	12	20%	240 bushel	0.08	3.84
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00
Crop Insurance					8.00	8.00
<b>Total Materials &amp; Services</b>						280.97

\*Insecticide for Spider mites and Western Bean Cutworm respectively.

<b>Total listed costs for Field Operations and Materials and Services</b>						501.64
Interest on Operations Capital	\$ 447.22	cash expense @	5.50%	for 6.0 mo.		12.30
<b>Total Operating and Use Related Ownership Costs</b>						513.94
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00
Real Estate Opportunity	Gravity (State)	\$ 5,795	per acre @	3.00%		173.85
Real Estate Taxes		\$ 5,795	per acre @	1.35%		78.23
<b>Total Cost per Acre Including Overhead</b>						786.02
<b>Cost per bu</b>						3.28
<b>Cash Cost per bu</b>						2.24

27-Corn, Bt, ECB, & RIB, Ridge Till, after Beans, 250 bu Yield, Gravity Irrigated, fed by a well

2019 Budget 27-Corn, Bt, ECB, & RIB, Ridge Till, after Beans, 250 bu Yield  
Gravity Irrigated, fed by a well, 1,000 GPM 10 PSI, 18 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
2 Anhydrous Application	1		1.83	1.52	0.72	0.58	2.25	3.63	10.53	
3 Ridge Plant and Band Herbicide	1		2.40	0.98	0.86	6.89	2.70	4.27	18.10	
4 Ridge Cultivation	1		2.00	1.53	0.86	0.89	2.70	1.01	8.99	
5 Ridge Cultivate/Ditch	1		1.83	1.27	0.72	0.37	2.25	1.52	7.96	
6 Spray Herbicide	Custom									
7 Spray	Custom									
8 Pipe D 125' Lift	18	ai	33.33	69.41	4.94	3.42	8.14	5.56	124.80	
9 Combine Irr Corn	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
10 Cart	250	bu	3.57	1.39	1.40	2.29	4.38	1.35	14.38	
11 Truck	Custom									
12 Dry Grain	Custom									
<b>Total for Field Operations</b>			48.60	80.55	16.98	16.29	28.80	22.08	213.30	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Glyphosate w/Surfactant	Herbicide	1	50%	32 ounce	0.12	1.88
21-0-0-24S	Additive	1	50%	1.7 pound	0.35	0.30
82-0-0	Fertilizer	2	100%	205 lbs N	0.31	63.55
Corn Bt, ECB, & RIB	Seed	3	100%	38.5 k seed	2.75	105.77
10-34-0	Fertilizer	3	100%	6 gallon	2.45	14.70
Bicep II Magnum	Herbicide	3	40%	1.8 quart	11.25	8.10
Spray	Custom	6	50%	1 acre	7.00	3.50
Laudis	Herbicide	6	50%	3 ounce	4.45	6.68
Atrazine 90 DF	Herbicide	6	50%	0.5 pound	3.00	0.75
Crop Oil Concentrate	Additive	6	50%	1 pint	1.34	0.67
UAN	Additive	6	50%	3 pint	0.19	0.29
* Spray	Custom	6	30%	1 acre	7.00	2.10
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36
* Mustang Maxx	Insecticide	6	10%	2 ounce	1.41	0.28
Spray	Custom	7	10%	1 acre	7.00	0.70
Headline AMP	Fungicide	7	10%	10 ounce	2.58	2.58
Haul Grain Bushels	Custom	11	100%	250 bushel	0.11	27.50
Dry 2 Points Removed	Custom	12	20%	250 bushel	0.08	4.00
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00
Crop Insurance					8.00	8.00
<b>Total Materials &amp; Services</b>						261.77

\*Insecticide for Spider mites and Western Bean Cutworm respectively.

<b>Total listed costs for Field Operations and Materials and Services</b>	475.07
Interest on Operations Capital \$ 424.19 cash expense @ 5.50% for 6.0 mo.	11.67

<b>Total Operating and Use Related Ownership Costs</b>	486.74
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**Overhead** (accounting, liability insurance, vehicle cost, office expense) 20.00

Real Estate Opportunity Gravity (State)	\$ 5,795	per acre @	3.00%	173.85
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Real Estate Taxes	\$ 5,795	per acre @	1.35%	78.23
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<b>Total Cost per Acre Including Overhead</b>	758.82
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<b>Cost per bu</b>	3.04
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<b>Cash Cost per bu</b>	2.06
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28-Corn, SmartStax RIB Complete, Ridge Till, Continuous, 245 bu Yield, Gravity Irrigated, fed by a well

2019 Budget 28-Corn, SmartStax RIB Complete, Ridge Till, Continuous, 245 bu Yield  
Gravity Irrigated, fed by a well, 1,000 GPM 10 PSI, 18 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
2 Anhydrous Application	1		1.83	1.52	0.72	0.58	2.25	3.63	10.53	
3 Ridge Plant and Band Herbicide	1		2.40	0.98	0.86	6.89	2.70	4.27	18.10	
4 Ridge Cultivation	1		2.00	1.53	0.86	0.89	2.70	1.01	8.99	
5 Ridge Cultivate/Ditch	1		1.83	1.27	0.72	0.37	2.25	1.52	7.96	
6 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
7 Spray Insecticide	Custom									
8 Spray	Custom									
9 Pipe D 125' Lift	18	ai	33.33	69.41	4.94	3.42	8.14	5.56	124.80	
10 Combine Irr Corn	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
11 Cart	245	bu	3.50	1.37	1.37	2.24	4.29	1.32	14.09	
12 Truck	Custom									
13 Dry Grain	Custom									
14 Chop Stalks	1		1.78	1.33	0.70	0.35	2.19	1.59	7.94	
<b>Total for Field Operations</b>			51.31	82.16	18.00	17.23	31.98	24.45	225.13	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
2,4-D Ester LV4	Herbicide	1	50%	1 pint	2.13	1.06
Glyphosate w/Surfactant	Herbicide	1	50%	32 ounce	0.12	1.88
21-0-0-24S	Additive	1	50%	1.7 pound	0.35	0.30
82-0-0	Fertilizer	2	100%	245 lbs N	0.31	75.95
Corn SmartStax RIB Complete	Seed	3	100%	37.7 k seed	3.75	141.35
10-34-0	Fertilizer	3	100%	6 gallon	2.45	14.70
Bicep II Magnum	Herbicide	3	40%	1.8 quart	11.25	8.10
Glyphosate w/Surfactant	Herbicide	6	100%	32 ounce	0.12	3.75
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	0.70	0.36
Spray	Custom	8	10%	1 acre	7.00	0.70
Headline AMP	Fungicide	8	10%	10 ounce	2.58	2.58
Haul Grain Bushels	Custom	12	100%	245 bushel	0.11	26.95
Dry 2 Points Removed	Custom	13	20%	245 bushel	0.08	3.92
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00
	Crop Insurance				8.00	8.00
<b>Total Materials &amp; Services</b>					310.65	

**Total listed costs for Field Operations and Materials and Services** 535.78

Interest on Operations Capital \$ 479.35 cash expense @ 5.50% for 6.0 mo. 13.18

**Total Operating and Use Related Ownership Costs** 548.96

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

Real Estate Opportunity Gravity (State) \$ 5,795 per acre @ 3.00% 173.85

Real Estate Taxes \$ 5,795 per acre @ 1.35% 78.23

**Total Cost per Acre Including Overhead** 821.04

**Cost per bu** 3.35

**Cash Cost per bu** 2.33

29-Corn, SmartStax RIB Complete, Panhandle, Conventional Tillage, Continuous, 190 bu Yield, Gravity Irrigated, fed by canal

2019 Budget 29-Corn, SmartStax RIB Complete, Panhandle, Conventional Tillage, Continuous, 190 bu Yield Gravity Irrigated, fed by canal, 15 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
2 Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
3 Spray Fertilizer and Herbicide	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
4 Plant	1		2.40	0.78	0.86	2.54	2.70	3.53	12.81	
5 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
6 Row Crop Cultivation	1		2.00	0.91	0.78	0.44	2.45	1.52	8.10	
7 Ridge Cultivate/Ditch	1		1.83	1.27	0.72	0.37	2.25	1.52	7.96	
8 Spray Insecticide	Custom									
9 Spray	Custom									
10 Ditch Irrigation	15	ai	16.67	0.00	0.00	0.00	0.00	0.00	16.67	
11 Combine Irr Corn	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
12 Cart	190	bu	2.71	1.06	1.07	1.74	3.33	1.02	10.93	
13 Truck	Custom									
14 Dry Grain	Custom									
15 Chop Stalks	1		1.78	1.33	0.70	0.35	2.19	1.59	7.94	
<b>Total for Field Operations</b>			36.59	14.56	13.35	9.76	27.80	18.19	120.25	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
			Rate	Unit			
32-0-0	Fertilizer	3	100%	140 lbs N	0.42	58.80	
Balance Flexx	Herbicide	3	100%	4 ounce	3.70	14.80	
Bicep II Magnum	Herbicide	3	100%	2.1 quart	11.25	23.63	
10-34-0	Fertilizer	4	100%	8 gallon	2.45	19.60	
Corn SmartStax RIB Complete	Seed	4	100%	29.2 k seed	3.75	109.62	
32-0-0	Fertilizer	5	100%	40 lbs N	0.42	16.80	
Spray	Custom	8	10%	1 acre	7.00	0.70	
Brigade 2EC	Insecticide	8	10%	5.12 ounce	0.70	0.36	
Spray	Custom	9	10%	1 acre	7.00	0.70	
Headline AMP	Fungicide	9	10%	10 ounce	2.58	2.58	
Haul Grain Bushels	Custom	13	100%	190 bushel	0.11	20.90	
Dry 2 Points Removed	Custom	14	10%	190 bushel	0.08	1.52	
Irrigation District O&M Charge	Other	10	100%	1 acre	30.00	30.00	
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00	
	Crop Insurance				14.00	14.00	
<b>Total Materials &amp; Services</b>						323.01	

<b>Total listed costs for Field Operations and Materials and Services</b>						443.26	
Interest on Operations Capital \$ 397.27 cash expense @ 5.50% for 6.0 mo.						10.92	
<b>Total Operating and Use Related Ownership Costs</b>						454.18	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Gravity (Panhandle)		\$ 2,340	per acre @	3.00%	70.20	
Real Estate Taxes			\$ 2,340	per acre @	1.35%	31.59	
<b>Total Cost per Acre Including Overhead</b>						575.97	
<b>Cost per bu</b>						3.03	
<b>Cash Cost per bu</b>						2.31	

**30-Corn, Bt, ECB, RW, & RIB, No Till, Continuous, 240 bu Yield, Pivot Irrigated Diesel**

**2019 Budget 30-Corn, Bt, ECB, RW, & RIB, No Till, Continuous, 240 bu Yield  
Pivot Irrigated Diesel, 800 GPM 35 PSI, 9 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
2 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
3 Plant No-Till	1		2.40	0.97	0.86	4.41	2.70	6.13	17.47	
4 Pivot D 125' Lift w/fertigation	9	ai	8.33	47.82	3.09	15.56	4.13	8.54	87.47	
5 Spray Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
6 Spray Insecticide	Custom									
7 Spray	Custom									
8 Combine Irr Corn	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
9 Cart	240	bu	3.43	1.34	1.35	2.20	4.20	1.29	13.81	
10 Truck	Custom									
11 Dry Grain	Custom									
<b>Total for Field Operations</b>			19.30	55.03	13.30	24.98	19.03	21.92	153.56	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Glyphosate w/Surfactant	Herbicide	1	50%	32 ounce	0.12	1.88
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	3.25	3.25
Corn Bt, ECB, RW, & RIB	Seed	3	100%	36.9 k seed	3.13	115.38
10-34-0	Fertilizer	3	100%	6 gallon	2.45	14.70
32-0-0 (Applied by R2)	Fertilizer	4	100%	240 lbs N	0.42	100.80
Status	Herbicide	5	50%	2.5 ounce	4.30	5.38
Atrazine 90 DF	Herbicide	5	50%	0.5 pound	3.00	0.75
Crop Oil Concentrate	Additive	5	50%	1 pint	1.34	0.67
UAN	Additive	5	50%	3 pint	0.19	0.29
* Spray	Custom	6	30%	1 acre	7.00	2.10
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36
* Mustang Maxx	Insecticide	6	20%	3 ounce	1.41	0.84
Spray	Custom	7	20%	1 acre	7.00	1.40
Headline AMP	Fungicide	7	20%	10 ounce	2.58	5.16
Haul Grain Bushels	Custom	10	100%	240 bushel	0.11	26.40
Dry 2 Points Removed	Custom	11	20%	240 bushel	0.08	3.84
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00
Crop Insurance					8.00	8.00
<b>Total Materials &amp; Services</b>						355.56

\*Insecticide for Spider mites and Western Bean Cutworm respectively.

<b>Total listed costs for Field Operations and Materials and Services</b>		509.12
Interest on Operations Capital \$ 468.17 cash expense @ 5.50% for 6.0 mo.		12.87
<b>Total Operating and Use Related Ownership Costs</b>		521.99

<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity	Pivot (State) \$ 6,130 per acre @ 3.00%	183.90
Real Estate Taxes	\$ 6,130 per acre @ 1.35%	82.76
<b>Total Cost per Acre Including Overhead</b>		808.65

<b>Cost per bu</b>	3.37
<b>Cash Cost per bu</b>	2.35



**31-Corn, SmartStax RIB Complete, No Till, Continuous, 245 bu Yield, Pivot Irrigated Diesel**

**2019 Budget 31-Corn, SmartStax RIB Complete, No Till, Continuous, 245 bu Yield  
Pivot Irrigated Diesel, 800 GPM 35 PSI, 9 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
2 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
3 Plant	1		2.40	0.78	0.86	2.54	2.70	3.53	12.81	
4 Spray Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
5 Spray Insecticide	Custom									
6 Spray	Custom									
7 Pivot D 125' Lift w/fertigation	9	ai	8.33	47.82	3.09	15.56	4.13	8.54	87.47	
8 Combine Irr Corn	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
9 Cart	245		3.50	1.37	1.37	2.24	4.29	1.32	14.09	
10 Truck	Custom	bu								
11 Dry Grain	Custom									
<b>Total for Field Operations</b>			19.37	54.87	13.32	23.15	19.12	19.35	149.18	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								2,4-D Ester LV4
Glyphosate w/Surfactant	Herbicide	1	50%	32 ounce	0.12	1.88		
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%	37.7 k seed	3.75	141.35		
10-34-0	Fertilizer	3	100%	6 gallon	2.45	14.70		
32-0-0 (Applied by R2)	Fertilizer	7	100%	245 lbs N	0.42	102.90		
Glyphosate w/Surfactant	Herbicide	4	50%	32 ounce	0.12	1.88		
21-0-0-24S	Additive	4	50%	1.7 pound	0.35	0.30		
Armezon Pro	Herbicide	4	50%	14 ounce	1.33	9.30		
Spray	Custom	5	10%	1 acre	7.00	0.70		
Brigade 2EC	Insecticide	5	10%	5.12 ounce	0.70	0.36		
Spray	Custom	6	20%	1 acre	7.00	1.40		
Headline AMP	Fungicide	6	20%	10 ounce	2.58	5.16		
Haul Grain Bushels	Custom	10	100%	245 bushel	0.11	26.95		
Dry 2 Points Removed	Custom	11	20%	245 bushel	0.08	3.92		
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00		
	Crop Insurance				8.00	8.00		
<b>Total Materials &amp; Services</b>							383.16	

<b>Total listed costs for Field Operations and Materials and Services</b>						532.34	
Interest on Operations Capital	\$ 493.87	cash expense @	5.50%	for 6.0 mo.		13.58	
<b>Total Operating and Use Related Ownership Costs</b>						545.92	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Pivot (State)	\$ 6,130	per acre @	3.00%		183.90	
Real Estate Taxes		\$ 6,130	per acre @	1.35%		82.76	
<b>Total Cost per Acre Including Overhead</b>						832.58	
<b>Cost per bu</b>						3.40	
<b>Cash Cost per bu</b>						2.41	

**32-Corn, Bt, ECB, & RIB, No Till, after Beans, 270 bu Yield, Pivot Irrigated Diesel**

**2019 Budget 32-Corn, Bt, ECB, & RIB, No Till, after Beans, 270 bu Yield  
Pivot Irrigated Diesel, 800 GPM 35 PSI, 9 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
2 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
3 Plant No-Till	1		2.40	0.97	0.86	4.41	2.70	6.13	17.47	
4 Pivot D 125' Lift w/fertigation	9	ai	8.33	47.82	3.09	15.56	4.13	8.54	87.47	
5 Spray Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
6 Spray Insecticide	Custom									
7 Spray	Custom									
8 Combine Irr Corn	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
9 Cart	270	bu	3.86	1.51	1.51	2.47	4.73	1.46	15.54	
10 Truck	Custom									
11 Dry Grain	Custom									
<b>Total for Field Operations</b>			19.73	55.20	13.46	25.25	19.56	22.09	155.29	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
			Rate	Unit			
Glyphosate w/Surfactant	Herbicide	1	50%	32 ounce	0.12	1.88	
2,4-D Ester LV4	Herbicide	1	50%	1 pint	2.13	1.06	
21-0-0-24S	Additive	1	50%	1.7 pound	0.35	0.30	
Acuron	Herbicide	2	100%	2.5 quart	15.00	37.50	
Crop Oil Concentrate	Additive	2	100%	1.6 pint	1.34	2.15	
21-0-0-24S	Additive	2	100%	2.5 pound	0.35	0.88	
Corn Bt, ECB, & RIB	Seed	3	100%	41.5 k seed	2.75	114.23	
10-34-0	Fertilizer	3	100%	6.0 gallon	2.45	14.70	
32-0-0 (Applied by R2)	Fertilizer	4	100%	210.0 lbs N	0.42	88.20	
Armezon Pro	Herbicide	5	50%	14 ounce	1.33	9.30	
Atrazine 90 DF	Herbicide	5	50%	1 pound	3.00	0.75	
Crop Oil Concentrate	Additive	5	50%	0.5 pint	1.34	0.34	
UAN	Additive	5	50%	3 pint	0.19	0.29	
* Spray	Custom	6	30%	1 acre	7.00	2.10	
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36	
* Mustang Maxx	Insecticide	6	10%	3 ounce	1.41	0.42	
Spray	Custom	7	20%	1 acre	7.00	1.40	
Headline AMP	Fungicide	7	20%	10 ounce	2.58	5.16	
Haul Grain Bushels	Custom	10	100%	270 bushel	0.11	29.70	
Dry 2 Points Removed	Custom	11	20%	270 bushel	0.08	4.32	
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00	
Crop Insurance					8.00	8.00	
<b>Total Materials &amp; Services</b>						332.04	

\*Insecticide for Spider mites and Western Bean Cutworm respectively.

<b>Total listed costs for Field Operations and Materials and Services</b>		487.33
Interest on Operations Capital \$ 445.68 cash expense @ 5.50% for 6.0 mo.		12.26
<b>Total Operating and Use Related Ownership Costs</b>		499.59
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity Pivot (State)	\$ 6,130 per acre @ 3.00%	183.90
Real Estate Taxes	\$ 6,130 per acre @ 1.35%	82.76
<b>Total Cost per Acre Including Overhead</b>		786.25
<b>Cost per bu</b>		2.91
<b>Cash Cost per bu</b>		2.00

33-Corn, Bt, ECB, RW, & RIB, Conventional Tillage, Continuous, 230 bu Yield, Pivot Irrigated Diesel

2019 Budget 33-Corn, Bt, ECB, RW, & RIB, Conventional Tillage, Continuous, 230 bu Yield  
Pivot Irrigated Diesel, 800 GPM 35 PSI, 13 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
2 Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
3 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
4 Plant	1		2.40	0.78	0.86	2.54	2.70	3.53	12.81	
5 Row Crop Cultivation	1		2.00	0.91	0.78	0.44	2.45	1.52	8.10	
6 Row Crop Cultivation	0.25		0.50	0.23	0.20	0.11	0.61	0.38	2.03	
7 Spray Insecticide	Custom									
8 Spray	Custom									
9 Pivot D 125' Lift w/fertigation	13	ai	12.04	69.07	4.46	22.48	5.97	12.34	126.36	
10 Combine Irr Corn	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
11 Cart	230	bu	3.29	1.28	1.29	2.11	4.03	1.24	13.24	
12 Truck	Custom									
13 Dry Grain	Custom									
<b>Total for Field Operations</b>			27.86	80.61	16.13	32.45	28.52	26.80	212.37	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Bicep II Magnum	Herbicide	3	100%	2.1 quart	11.25	23.63
Corn Bt, ECB, RW, & RIB	Seed	4	100%	35.4 k seed	3.13	110.58
10-34-0	Fertilizer	4	100%	6 gallon	2.45	14.70
32-0-0 (Applied by R2)	Fertilizer	9	100%	230 lbs N	0.42	96.60
* Spray	Custom	7	30%	1 acre	7.00	2.10
* Brigade 2EC	Insecticide	7	10%	5.12 ounce	0.70	0.36
* Mustang Maxx	Insecticide	7	20%	3 ounce	1.41	0.84
Spray	Custom	8	20%	1 acre	7.00	1.40
Headline AMP	Fungicide	8	20%	10 ounce	2.58	5.16
Haul Grain Bushels	Custom	12	100%	230 bushel	0.11	25.30
Dry 2 Points Removed	Custom	13	20%	230 bushel	0.08	3.68
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00
	Crop Insurance				8.00	8.00
<b>Total Materials &amp; Services</b>						316.15

\*Insecticide for Spider mites and Western Bean Cutworm respectively.

<b>Total listed costs for Field Operations and Materials and Services</b>						528.52
Interest on Operations Capital	\$ 473.20	cash expense @	5.50%	for 6.0 mo.		13.01
<b>Total Operating and Use Related Ownership Costs</b>						541.53
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00
Real Estate Opportunity	Pivot (State)	\$ 6,130	per acre @	3.00%		183.90
Real Estate Taxes		\$ 6,130	per acre @	1.35%		82.76
<b>Total Cost per Acre Including Overhead</b>						828.19
<b>Cost per bu</b>						3.60
<b>Cash Cost per bu</b>						2.47

**34-Corn, Bt, ECB, & RIB, Conventional Tillage, after Beans, 240 bu Yield, Pivot Irrigated Diesel**

**2019 Budget 34-Corn, Bt, ECB, & RIB, Conventional Tillage, after Beans, 240 bu Yield  
Pivot Irrigated Diesel, 800 GPM 35 PSI, 13 acre/inches**

	Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
2	Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
3	Plant	1		2.40	0.78	0.86	2.54	2.70	3.53	12.81	
4	Row Crop Cultivation	1		2.00	0.91	0.78	0.44	2.45	1.52	8.10	
5	Row Crop Cultivation	0.25		0.50	0.23	0.20	0.11	0.61	0.38	2.03	
6	Spray Insecticide	Custom									
7	Spray	Custom									
8	Pivot D 125' Lift w/fertigation	13	ai	12.04	69.07	4.46	22.48	5.97	12.34	126.36	
9	Combine Irr Corn	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
10	Cart	240	bu	3.43	1.34	1.35	2.20	4.20	1.29	13.81	
11	Truck	Custom									
12	Dry Grain	Custom									
<b>Total for Field Operations</b>				25.98	78.49	15.89	31.27	24.65	25.71	201.99	

	Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
				Rate	Unit			
	Balance Flexx		2	100%	4 ounce	3.70	14.80	
	Bicep II Magnum		2	100%	2.1 quart	11.25	23.63	
	Corn Bt, ECB, & RIB		3	100%	36.9 k seed	2.75	101.54	
	10-34-0		3	100%	6 gallon	2.45	14.70	
	32-0-0 (Applied by R2)		8	100%	195 lbs N	0.42	81.90	
*	Spray		6	30%	1 acre	7.00	2.10	
*	Brigade 2EC		6	10%	5.12 ounce	0.70	0.36	
*	Mustang Maxx		6	20%	3 ounce	1.41	0.84	
	Spray		7	20%	1 acre	7.00	1.40	
	Headline AMP		7	20%	10 ounce	2.58	5.16	
	Haul Grain Bushels		11	100%	240 bushel	0.11	26.40	
	Dry 2 Points Removed		12	20%	240 bushel	0.08	3.84	
	Scouting Irrigated Corn			100%	1 acre	9.00	9.00	
	Crop Insurance					8.00	8.00	
<b>Total Materials &amp; Services</b>							293.67	

\*Insecticide for Spider mites and Western Bean Cutworm respectively.

**Total listed costs for Field Operations and Materials and Services** 495.66

Interest on Operations Capital \$ 445.30 cash expense @ 5.50% for 6.0 mo. 12.25

**Total Operating and Use Related Ownership Costs** 507.91

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

Real Estate Opportunity Pivot (State) \$ 6,130 per acre @ 3.00% 183.90

Real Estate Taxes \$ 6,130 per acre @ 1.35% 82.76

**Total Cost per Acre Including Overhead** 794.57

**Cost per bu** 3.31

**Cash Cost per bu** 2.25

**35-Corn, SmartStax RIB Complete, Panhandle, Conventional Tillage, Continuous, 190 bu Yield, Pivot Irrigated Electric**

**2019 Budget 35-Corn, SmartStax RIB Complete, Panhandle, Conventional Tillage, Continuous, 190 bu Yield  
Pivot Irrigated Electric, 800 GPM 35 PSI, 13 acre/inches**

	Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
2	Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
3	Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
4	Plant	1		2.40	0.78	0.86	2.54	2.70	3.53	12.81	
5	Row Crop Cultivation	1		2.00	0.91	0.78	0.44	2.45	1.52	8.10	
6	Spray Herbicide	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	6.66	12.34	93.55	
10	Combine Irr Corn	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
11	Cart	190	bu	2.71	1.06	1.07	1.74	3.33	1.02	10.93	
12	Truck	Custom									
13	Dry Grain	Custom									
<b>Total for Field Operations</b>				26.78	47.32	15.05	31.97	27.90	26.20	175.22	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
				Rate	Unit			
Balance Flexx	Herbicide	3	100%	4 ounce		3.70	14.80	
Bicep II Magnum	Herbicide	3	100%	2.1 quart		11.25	23.63	
10-34-0	Fertilizer	4	100%	8 gallon		2.45	19.60	
Corn SmartStax RIB Complete	Seed	4	100%	29.2 k seed		3.75	109.62	
32-0-0 (Applied by R2)	Fertilizer	8	100%	180 lbs N		0.42	75.60	
Spray	Custom	6	100%	1 acre		7.00	7.00	
Glyphosate w/Surfactant	Herbicide	6	100%	32 ounce		0.12	3.75	
Armezon Pro	Herbicide	6	100%	14 ounce		1.33	18.59	
21-0-0-24S	Additive	6	100%	1.7 pound		0.35	0.60	
Aerial Spray	Custom	7	10%	1 acre		10.00	1.00	
Brigade 2EC	Insecticide	7	10%	5.12 ounce		0.70	0.36	
Aerial Spray	Custom	7	10%	1 acre		10.00	1.00	
Headline AMP	Fungicide	7	10%	10 ounce		2.58	2.58	
Electricity Fixed	Other	8	100%	1 acre		30.00	30.00	
Haul Grain Bushels	Custom	12	100%	190 bushel		0.11	20.90	
Dry 2 Points Removed	Custom	13	10%	190 bushel		0.08	1.52	
Scouting Irrigated Corn	Scouting		100%	1 acre		9.00	9.00	
	Crop Insurance					14.00	14.00	
<b>Total Materials &amp; Services</b>							353.55	

**Total listed costs for Field Operations and Materials and Services**

Interest on Operations Capital \$ 474.67 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) \$ 2,700 per acre @ 3.00%  
 Real Estate Taxes \$ 2,700 per acre @ 1.35%

**Total Cost per Acre Including Overhead**

**Cost per bu**

**Cash Cost per bu**

528.77	
13.05	
541.82	
20.00	
81.00	
36.45	
679.27	
3.58	
2.76	

36-Corn, Bt, ECB, RR2, & RIB, Panhandle, Conventional Tillage, after Beans, 200 bu Yield, Pivot Irrigated Electric

2019 Budget 36-Corn, Bt, ECB, RR2, & RIB, Panhandle, Conventional Tillage, after Beans, 200 bu Yield  
Pivot Irrigated Electric, 800 GPM 35 PSI, 13 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
2 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
3 Plant	1		2.40	0.78	0.86	2.54	2.70	3.53	12.81	
4 Row Crop Cultivation	1		2.00	0.91	0.78	0.44	2.45	1.52	8.10	
5 Spray Herbicide	Custom									
6 Aerial Spray	Custom									
7 Aerial Spray	Custom									
8 Pivot E 125' Lift w/fertigation	13		12.04	36.23	3.80	22.48	6.66	12.34	93.55	
9 Combine Irr Corn	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
10 Cart	200	bu	2.86	1.12	1.12	1.83	3.50	1.08	11.51	
11 Truck	Custom									
12 Dry Grain	Custom									
<b>Total for Field Operations</b>			24.91	45.20	14.80	30.79	24.03	25.12	164.85	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							Balance Flexx
Bicep II Magnum	Herbicide	2	100%	2.1 quart	11.25	23.63	
10-34-0	Fertilizer	3	100%	8 gallon	2.45	19.60	
Corn Bt, ECB, RR2, & RIB	Seed	3	100%	30.8 k seed	3.00	92.31	
32-0-0 (Applied by R2)	Fertilizer	8	100%	190 lbs N	0.42	79.80	
Spray	Custom	5	100%	1 acre	7.00	7.00	
Glyphosate w/Surfactant	Herbicide	5	100%	32 ounce	0.12	3.75	
DiFlexx	Herbicide	5	100%	12 ounce	1.33	15.94	
Aerial Spray	Custom	6	10%	1 acre	10.00	1.00	
Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36	
Aerial Spray	Custom	7	10%	1 acre	10.00	1.00	
Headline AMP	Fungicide	7	10%	10 ounce	2.58	2.58	
Electricity Fixed	Other	8	100%	1 acre	30.00	30.00	
Haul Grain Bushels	Custom	11	100%	200 bushel	0.11	22.00	
Dry 2 Points Removed	Custom	12	10%	200 bushel	0.08	1.60	
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00	
	Crop Insurance				14.00	14.00	
<b>Total Materials &amp; Services</b>						338.37	

<b>Total listed costs for Field Operations and Materials and Services</b>						503.22
Interest on Operations Capital \$ 454.07	cash expense @	5.50%	for 6.0 mo.			12.49
<b>Total Operating and Use Related Ownership Costs</b>						515.71
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00
Real Estate Opportunity	Pivot (Panhandle)	\$ 2,700	per acre @	3.00%		81.00
Real Estate Taxes		\$ 2,700	per acre @	1.35%		36.45
<b>Total Cost per Acre Including Overhead</b>						653.16
<b>Cost per bu</b>						3.27
<b>Cash Cost per bu</b>						2.52

37-Corn, SmartStax RIB Complete, Conventional Tillage, Continuous, 235 bu Yield, Pivot Irrigated Diesel

2019 Budget 37-Corn, SmartStax RIB Complete, Conventional Tillage, Continuous, 235 bu Yield  
Pivot Irrigated Diesel, 800 GPM 35 PSI, 13 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
2 Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
3 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
4 Plant	1		2.40	0.78	0.86	2.54	2.70	3.53	12.81	
5 Row Crop Cultivation	1		2.00	0.91	0.78	0.44	2.45	1.52	8.10	
6 Row Crop Cultivation	0.25		0.50	0.23	0.20	0.11	0.61	0.38	2.03	
7 Spray Insecticide	Custom									
8 Spray	Custom									
9 Pivot D 125' Lift w/fertigation	13	ai	12.04	69.07	4.46	22.48	5.97	12.34	126.36	
10 Combine Irr Corn	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
11 Cart	235	bu	3.36	1.31	1.32	2.15	4.11	1.27	13.52	
12 Truck	Custom									
13 Dry Grain	Custom									
<b>Total for Field Operations</b>			27.93	80.64	16.16	32.49	28.60	26.83	212.65	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							Balance Flexx
Bicep II Magnum	Herbicide	3	100%	2.1 quart	11.25	23.63	
Corn SmartStax RIB Complete	Seed	4	100%	36.2 k seed	3.75	135.58	
10-34-0	Fertilizer	4	100%	6 gallon	2.45	14.70	
32-0-0 (Applied by R2)	Fertilizer	9	100%	235 lbs N	0.42	98.70	
Spray	Custom	7	10%	1 acre	7.00	0.70	
Brigade 2EC	Insecticide	7	10%	5.12 ounce	0.70	0.36	
Spray	Custom	8	20%	1 acre	7.00	1.40	
Headline AMP	Fungicide	8	20%	10 ounce	2.58	5.16	
Haul Grain Bushels	Custom	12	100%	235 bushel	0.11	25.85	
Dry 2 Points Removed	Custom	13	20%	235 bushel	0.08	3.76	
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00	
Crop Insurance					8.00	8.00	
<b>Total Materials &amp; Services</b>			31,200 seeds per acre, 80,000 per bag, 5% Refuge		341.64		

<b>Total listed costs for Field Operations and Materials and Services</b>		554.29
Interest on Operations Capital \$ 498.86 cash expense @ 5.50% for 6.0 mo.		13.72
<b>Total Operating and Use Related Ownership Costs</b>		568.01
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity <input type="text" value="Pivot (State)"/> \$ 6,130 per acre @ 3.00%		183.90
Real Estate Taxes \$ 6,130 per acre @ 1.35%		82.76
<b>Total Cost per Acre Including Overhead</b>		854.67
<b>Cost per bu</b>		3.64
<b>Cash Cost per bu</b>		2.53

**38-Corn, Silage, No Till, Continuous, 26 ton Yield, Pivot Irrigated Diesel**

**2019 Budget 38-Corn, Silage, No Till, Continuous, 26 ton Yield  
Pivot Irrigated Diesel, 800 GPM 35 PSI, 12 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Spread Manure	Custom									
3 Plant No-Till	1		2.40	0.97	0.86	4.41	2.70	6.13	17.47	
4 Spray Herbicide	Custom									
5 Pivot D 125' Lift	12	ai	8.33	63.76	4.12	19.37	5.51	10.63	111.72	
6 Aerial Spray	Custom									
7 Chop Silage	Custom									
<b>Total for Field Operations</b>			11.73	65.03	5.33	24.42	9.29	17.57	133.37	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
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	11.25	15.75
Corn	Seed	3	100%	30.8 k seed	2.38	73.08
* Capture LFR	Insecticide	3	100%	6.6 ounce	2.34	15.47
Spray	Custom	4	50%	1 acre	7.00	3.50
Armezon Pro	Herbicide	4	50%	14 ounce	1.33	9.30
NIS	Additive	4	50%	6 ounce	0.18	0.54
UAN	Additive	4	50%	4 pint	0.19	0.39
* Aerial Spray	Custom	6	15%	1 acre	10.00	1.50
* Brigade 2EC	Insecticide	6	10%	2.5 ounce	0.70	0.18
* Mustang Maxx	Insecticide	6	5%	3 ounce	1.41	0.21
Chop, Haul, Pack	Custom	7	100%	26 ton	10.75	279.50
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00
	Crop Insurance				8.00	8.00
<b>Total Materials &amp; Services</b>						558.55

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

<b>Total listed costs for Field Operations and Materials and Services</b>		691.92
Interest on Operations Capital \$ 665.06 cash expense @ 5.50% for 6.0 mo.		18.29
<b>Total Operating and Use Related Ownership Costs</b>		710.21
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity <span style="border: 1px solid black; padding: 2px;">Pivot (State)</span> \$ 6,130 per acre @ 3.00%		183.90
Real Estate Taxes \$ 6,130 per acre @ 1.35%		82.76
<b>Total Cost per Acre Including Overhead</b>		996.87
<b>Cost per ton</b>		38.34
<b>Cash Cost per ton</b>		29.47



**39-Dry Beans, Reduced Till, after Harvest Cover Crop, 27 cwt Yield, Pivot Irrigated Electric**

**2019 Budget 39-Dry Beans, Reduced Till, after Harvest Cover Crop, 27 cwt Yield  
Pivot Irrigated Electric, 800 GPM 35 PSI, 8 acre/inches**

	Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
2	Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
3	Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
4	Plant	1		2.40	0.78	0.86	2.54	2.70	3.53	12.81	
5	Pivot E 125' Lift	8	ai	5.56	22.30	2.34	12.91	4.10	7.09	54.30	
6	Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
7	Aerial Spray	Custom									
8	Aerial Spray	Custom									
9	Pickett Windrowers	1		2.20	1.74	0.86	0.72	2.70	1.27	9.49	
10	Combine Irr Dry Beans	1		4.40	6.01	10.23	2.03	8.17	2.65	33.49	
11	Truck	Custom									
12	Drill	1		1.76	1.14	0.69	2.94	2.16	2.35	11.04	
<b>Total for Field Operations</b>				21.81	36.31	16.56	25.02	27.83	21.16	148.69	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Prowl H2O	Herbicide	3	100%	2 pint	6.50	13.00	
Edible Beans	Seed	4	100%	0.65 cwt	92.00	59.80	
10-34-0-1Zn	Fertilizer	4	100%	7 gallon	2.50	17.50	
46-0-0	Fertilizer	4	100%	50 lbs N	0.42	21.00	
Electricity Fixed	Other	5	100%	1 acre	30.00	30.00	
Basagran 5L	Herbicide	6	60%	1 pint	10.00	6.00	
Raptor	Herbicide	6	60%	4 ounce	4.77	11.44	
NIS	Additive	6	60%	5 ounce	0.18	0.54	
UAN	Additive	6	60%	4 pint	0.19	0.47	
* Aerial Spray	Custom	7	60%	1 acre	10.00	6.00	
* Asana XL	Insecticide	7	60%	4.5 ounce	0.55	1.48	
Aerial Spray	Custom	8	100%	1 acre	10.00	10.00	
Copper	Fungicide	8	100%	2 pint	3.50	7.00	
Priaxor	Fungicide	8	100%	4 ounce	5.47	21.88	
Haul Grain (Dry Beans)	Custom	11	100%	27 cwt	0.28	7.56	
Wheat Cover Crop	Seed	12	100%	30 pound	0.10	3.00	
Scouting Dry Beans	Scouting		100%	1 acre	10.00	10.00	
	Crop Insurance				18.00	18.00	

**Total Materials & Services** Electricity connect fee 6 months @ \$72/mo 133 acres 261.08

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

**Total listed costs for Field Operations and Materials and Services** 409.77

Interest on Operations Capital \$ 360.78 cash expense @ 5.50% for 6.0 mo. 9.92

**Total Operating and Use Related Ownership Costs** 419.69

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

Real Estate Opportunity Pivot (Panhandle) \$ 2,700 per acre @ 3.00% 81.00

Real Estate Taxes \$ 2,700 per acre @ 1.35% 36.45

**Total Cost per Acre Including Overhead** 557.14

**Cost per cwt** 20.63

**Cash Cost per cwt** 15.08

**40-Dry Beans, Conventional Tillage, 27 cwt Yield, Gravity Irrigated, fed by canal**

**2019 Budget 40-Dry Beans, Conventional Tillage, 27 cwt Yield  
Gravity Irrigated, fed by canal, 10 acre/inches**

	Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Chop Stalks	1		1.78	1.33	0.70	0.35	2.19	1.59	7.94	
2	Disk	2		4.03	4.35	0.60	2.54	8.07	2.27	21.86	
3	Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
4	Plow	1		2.93	2.29	0.44	0.86	5.87	0.52	12.91	
5	Roller Harrow	1		2.00	1.43	0.86	0.52	2.70	1.52	9.03	
6	Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
7	Plant	1		2.40	0.78	0.86	2.54	2.70	3.53	12.81	
8	Spray Herbicide	0.6		0.60	0.18	0.21	0.38	0.65	0.49	2.51	
9	Row Crop Cultivation	1		2.00	0.91	0.78	0.44	2.45	1.52	8.10	
10	Ridge Cultivate/Ditch	1		1.83	1.27	0.72	0.37	2.25	1.52	7.96	
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	1.74	0.86	0.72	2.70	1.27	9.49	
15	Combine Irr Dry Beans	1		4.40	6.01	10.23	2.03	8.17	2.65	33.49	
16	Truck	Custom									
<b>Total for Field Operations</b>				37.75	22.15	17.19	12.72	40.63	19.20	149.64	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Outlook
Prowl H2O	Herbicide	3	100%	2 pint	6.50	13.00		
Edible Beans	Seed	7	100%	0.65 cwt	92.00	59.80		
10-34-0-1Zn	Fertilizer	7	100%	7 gallon	2.50	17.50		
46-0-0	Fertilizer	7	100%	50 lbs N	0.42	21.00		
Basagran 5L	Herbicide	8	60%	1.2 pint	10.00	7.20		
Raptor	Herbicide	8	60%	4 ounce	4.77	11.44		
NIS	Additive	8	60%	5 ounce	0.18	0.54		
UAN	Additive	8	60%	4 pint	0.19	0.47		
* Aerial Spray	Custom	12	60%	1 acre	10.00	6.00		
* Asana XL	Insecticide	12	60%	4.5 ounce	0.55	1.48		
Aerial Spray	Custom	13	100%	1 acre	10.00	10.00		
Copper	Fungicide	13	100%	2 pint	3.50	7.00		
Priaxor	Fungicide	13	100%	4 ounce	5.47	21.88		
Haul Grain (Dry Beans)	Custom	16	100%	27 cwt	0.28	7.56		
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		
Crop Insurance					18.00	18.00		
<b>Total Materials &amp; Services</b>							259.28	

\* Mexican Bean Beetle and Western Bean Cutworm

<b>Total listed costs for Field Operations and Materials and Services</b>						408.92	
Interest on Operations Capital	\$ 349.09	cash expense @	5.50%	for 6.0 mo.		9.60	
<b>Total Operating and Use Related Ownership Costs</b>						418.52	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Gravity (Panhandle)	\$ 2,340	per acre @	3.00%		70.20	
Real Estate Taxes		\$ 2,340	per acre @	1.35%		31.59	
<b>Total Cost per Acre Including Overhead</b>						540.31	
<b>Cost per cwt</b>						20.01	
<b>Cash Cost per cwt</b>						14.45	

**41-Dry Beans, Conventional Tillage, 27 cwt Yield, Pivot Irrigated Electric**

**2019 Budget 41-Dry Beans, Conventional Tillage, 27 cwt Yield  
Pivot Irrigated Electric, 800 GPM 35 PSI, 9 acre/inches**

	Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	2		4.03	4.35	0.60	2.54	8.07	2.27	21.86	
2	Chisel	1		1.98	2.13	0.78	2.11	2.43	1.51	10.94	
3	Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
4	Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
5	Plant	1		2.40	0.78	0.86	2.54	2.70	3.53	12.81	
6	Spray Herbicide	0.6		0.60	0.18	0.21	0.38	0.65	0.49	2.51	
7	Row Crop Cultivation	1		2.00	0.91	0.78	0.44	2.45	1.52	8.10	
8	Pivot E 125' Lift	9	ai	6.25	25.08	2.63	14.53	4.61	7.97	61.07	
9	Aerial Spray	Custom									
10	Aerial Spray	Custom									
11	Pickett Windrowers	1		2.20	1.74	0.86	0.72	2.70	1.27	9.49	
12	Combine Irr Dry Beans	1		4.40	6.01	10.23	2.03	8.17	2.65	33.49	
13	Truck	Custom									
<b>Total for Field Operations</b>				26.33	43.04	17.88	27.26	34.66	23.53	172.70	

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	
10-34-0-1Zn	Fertilizer	5	100%	7	gallon	2.50	17.50	
46-0-0	Fertilizer	5	100%	50	lbs N	0.42	21.00	
Raptor	Herbicide	6	60%	4	ounce	4.77	11.44	
Basagran 5L	Herbicide	6	60%	1.2	pint	10.00	7.20	
NIS	Additive	6	60%	5	ounce	0.18	0.54	
UAN	Additive	6	60%	4	pint	0.19	0.47	
Electricity Fixed	Other	8	100%	1	acre	30.00	30.00	
* Aerial Spray	Custom	9	60%	1	acre	10.00	6.00	
* Asana XL	Insecticide	9	60%	4.5	ounce	0.55	1.48	
Aerial Spray	Custom	10	100%	1	acre	10.00	10.00	
Copper	Fungicide	10	100%	2	pint	3.50	7.00	
Priaxor	Fungicide	10	100%	4	ounce	5.47	21.88	
Haul Grain (Dry Beans)	Custom	13	100%	27	cwt	0.28	7.56	
Scouting Dry Beans	Scouting		100%	1	acre	10.00	10.00	
	Crop Insurance					18.00	18.00	
<b>Total Materials &amp; Services</b>							259.28	

\* Mexican Bean Beetle and Western Bean Cutworm

<b>Total listed costs for Field Operations and Materials and Services</b>							431.98	
Interest on Operations Capital	\$ 373.79	cash expense @	5.50%	for 6.0 mo.			10.28	
<b>Total Operating and Use Related Ownership Costs</b>							442.26	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)							20.00	
Real Estate Opportunity	Pivot (Panhandle)	\$ 2,700	per acre @	3.00%			81.00	
Real Estate Taxes		\$ 2,700	per acre @	1.35%			36.45	
<b>Total Cost per Acre Including Overhead</b>							579.71	
<b>Cost per cwt</b>							21.47	
<b>Cash Cost per cwt</b>							15.57	

**2019 Budget 42-Dry Beans, Direct Harvest, Conventional Tillage, 27 cwt Yield  
Pivot Irrigated Electric, 800 GPM 35 PSI, 9 acre/inches**

	Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	2		4.03	4.35	0.60	2.54	8.07	2.27	21.86	
2	Chisel	1		1.98	2.13	0.78	2.11	2.43	1.51	10.94	
3	Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
4	Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
5	Plant	1		2.40	0.78	0.86	2.54	2.70	3.53	12.81	
6	Spray Herbicide	0.6		0.60	0.18	0.21	0.38	0.65	0.49	2.51	
7	Pivot E 125' Lift	9		6.25	25.08	2.63	14.53	4.61	7.97	61.07	
8	Aerial Spray	Custom	ai								
9	Aerial Spray	Custom									
10	Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
11	Combine Irrigated Dry Beans with Draper Flex Platform	1		4.40	6.01	10.23	2.03	8.17	2.65	33.49	
12	Truck	Custom									
<b>Total for Field Operations</b>				23.13	40.69	16.59	26.74	30.59	21.55	159.29	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Prowl H2O	Herbicide	3	100%	2 pint	6.50	13.00	
Edible Beans	Seed	5	100%	1 cwt	92.00	92.00	
10-34-0-1Zn	Fertilizer	5	100%	7 gallon	2.50	17.50	
46-0-0	Fertilizer	5	100%	50 lbs N	0.42	21.00	
Raptor	Herbicide	6	60%	4 ounce	4.77	11.44	
Basagran 5L	Herbicide	6	60%	1.2 pint	10.00	7.20	
NIS	Additive	6	60%	5 ounce	0.18	0.54	
UAN	Additive	6	60%	4 pint	0.19	0.47	
Electricity Fixed	Other	7	100%	1 acre	30.00	30.00	
* Aerial Spray	Custom	8	60%	1 acre	10.00	6.00	
* Asana XL	Insecticide	8	60%	4.5 ounce	0.55	1.48	
Aerial Spray	Custom	9	100%	1 acre	10.00	10.00	
Copper	Fungicide	9	100%	2 pint	3.50	7.00	
Priaxor	Fungicide	9	100%	4 ounce	5.47	21.88	
Gramoxone SL 2.0	Herbicide	10	100%	2 pint	3.38	6.75	
Haul Grain (Dry Beans)	Custom	12	100%	27 cwt	0.28	7.56	
Scouting Dry Beans	Scouting		100%	1 acre	10.00	10.00	
	Crop Insurance				18.00	18.00	
<b>Total Materials &amp; Services</b>						298.23	

\* Mexican Bean Beetle and Western Bean Cutworm

**Total listed costs for Field Operations and Materials and Services** 457.52

Interest on Operations Capital \$ 405.38 cash expense @ 5.50% for 6.0 mo. 11.15

**Total Operating and Use Related Ownership Costs** 468.67

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

Real Estate Opportunity Pivot (Panhandle) \$ 2,700 per acre @ 3.00% 81.00

Real Estate Taxes \$ 2,700 per acre @ 1.35% 36.45

**Total Cost per Acre Including Overhead** 606.12

**Cost per cwt** 22.45

**Cash Cost per cwt** 16.78

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.

**43-Grain Sorghum, Conventional Tillage, 105 bu Yield, Dryland**

**2019 Budget 43-Grain Sorghum, Conventional Tillage, 105 bu Yield  
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
2 Anhydrous Application	1		1.83	1.52	0.72	0.58	2.25	3.63	10.53	
3 Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
4 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
5 Plant	1		2.40	0.78	0.86	2.54	2.70	3.53	12.81	
6 Row Crop Cultivation	1		2.00	0.91	0.78	0.44	2.45	1.52	8.10	
7 Row Crop Cultivation	0.25		0.50	0.23	0.20	0.11	0.61	0.38	2.03	
8 Spray Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
9 Aerial Spray	Custom									
10 Combine Dryland SG	1		3.38	4.63	7.87	1.11	6.29	2.65	25.93	
11 Cart	105	bu	1.50	0.59	0.59	0.96	1.84	0.57	6.05	
12 Truck	Custom									
<b>Total for Field Operations</b>			16.60	12.85	12.42	9.30	23.60	16.15	90.92	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
10-34-0	Fertilizer	4	100%	6 gallon	2.45	14.70
Lumax EZ	Herbicide	4	100%	2.7 quart	20.00	54.00
AAtrex 4L	Herbicide	4	100%	0.5 quart	4.50	2.25
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	10.00	1.50
* Mustang Maxx	Insecticide	9	15%	3 ounce	1.41	0.63
Haul Grain Bushels	Custom	12	100%	105 bushel	0.11	11.55
Scouting Grain Sorghum	Scouting		100%	1 acre	7.00	7.00
	Crop Insurance				20.00	20.00
<b>Total Materials &amp; Services</b>						160.77

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

<b>Total listed costs for Field Operations and Materials and Services</b>		251.69
Interest on Operations Capital \$ 211.94 cash expense @ 5.50% for 6.0 mo.		5.83
<b>Total Operating and Use Related Ownership Costs</b>		257.52

<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)		20.00
** Real Estate Opportunity Dryland (Southwest)	\$ 1,110 per acre @ 3.00%	33.29
** Real Estate Taxes	\$ 1,110 per acre @ 1.35%	14.98
<b>Total Cost per Acre Including Overhead</b>		325.79

<b>Cost per bu</b>	3.10
<b>Cash Cost per bu</b>	2.22

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

**44-Grain Sorghum, No Till, 125 bu Yield, Dryland**

**2019 Budget 44-Grain Sorghum, No Till, 125 bu Yield  
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Spray Fertilizer and Herbicide	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
3 Plant No-Till	1		2.40	0.97	0.86	4.41	2.70	6.13	17.47	
4 Spray Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
5 Aerial Spray	Custom									
6 Combine Dryland SG	1		3.38	4.63	7.87	1.11	6.29	2.65	25.93	
7 Cart	125	bu								
8 Truck	Custom									
<b>Total for Field Operations</b>			8.28	6.35	9.60	6.67	11.69	12.03	54.62	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.13	2.13	
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60	
32-0-0	Fertilizer	2	100%	120 lbs N	0.42	50.40	
Lumax EZ	Herbicide	2	100%	2.7 quart	20.00	54.00	
AAtrex 4L	Herbicide	2	100%	0.5 quart	4.50	2.25	
10-34-0	Fertilizer	3	100%	6 gallon	2.45	14.70	
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	10.00	1.50	
* Mustang Maxx	Insecticide	5	15%	3 ounce	1.41	0.63	
Haul Grain Bushels	Custom	8	100%	125 bushel	0.11	13.75	
Scouting Grain Sorghum	Scouting		100%	1 acre	7.00	7.00	
	Crop Insurance				20.00	20.00	
<b>Total Materials &amp; Services</b>						188.85	

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

<b>Total listed costs for Field Operations and Materials and Services</b>		243.47
Interest on Operations Capital \$ 219.75 cash expense @ 5.50% for 6.0 mo.		6.04
<b>Total Operating and Use Related Ownership Costs</b>		249.51
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)		20.00
** Real Estate Opportunity <span style="border: 1px solid black; padding: 2px;">Dryland (State)</span> \$ 2,170 per acre @ 3.00%		65.10
** Real Estate Taxes \$ 2,170 per acre @ 1.35%		29.30
<b>Total Cost per Acre Including Overhead</b>		363.91
<b>Cost per bu</b>		2.91
<b>Cash Cost per bu</b>		2.04

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

**45-Grain Sorghum, Ecofallow, after Wheat, Two Crops in Three Years, 115 bu Yield, Dryland**

**2019 Budget 45-Grain Sorghum, Ecofallow, after Wheat, Two Crops in Three Years, 115 bu Yield Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
3 Spray Fertilizer and Herbicide	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
4 No-Till Drill	1		1.83	1.45	0.72	1.57	2.25	3.21	11.03	
5 Spray Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
6 Aerial Spray	Custom									
7 Combine Dryland SG	1		3.38	4.63	7.87	1.11	6.29	2.65	25.93	
8 Cart	115	bu	1.64	0.64	0.64	1.05	2.01	0.62	6.60	
9 Truck	Custom									
<b>Total for Field Operations</b>			10.35	7.77	10.45	5.52	14.33	10.54	58.96	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.13	2.13		
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60		
AAtrex 4L	Herbicide	2	100%	1 quart	4.50	4.50		
Gramoxone SL 2.0	Herbicide	2	100%	1.5 pint	3.38	5.06		
32-0-0	Fertilizer	3	100%	110 lbs N	0.42	46.20		
Lumax EZ	Herbicide	3	100%	2.7 quart	20.00	54.00		
10-34-0	Fertilizer	4	100%	6 gallon	2.45	14.70		
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	10.00	1.50		
* Mustang Maxx	Insecticide	6	15%	3 ounce	1.41	0.63		
Haul Grain Bushels	Custom	9	100%	115 bushel	0.11	12.65		
Scouting Grain Sorghum	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				20.00	20.00		
<b>Total Materials &amp; Services</b>							190.86	

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

**Total listed costs for Field Operations and Materials and Services** 249.82

Interest on Operations Capital \$ 224.95 cash expense @ 5.50% for 6.0 mo. 6.19

**Total Operating and Use Related Ownership Costs** 256.01

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

\*\* Real Estate Opportunity Dryland (Southwest) \$ 1,110 per acre @ 3.00% 33.29

\*\* Real Estate Taxes \$ 1,110 per acre @ 1.35% 14.98

**Total Cost per Acre Including Overhead** 324.28

**Cost per bu** 2.82

**Cash Cost per bu** 2.14

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

**46-Grain Sorghum, No Till, Limited Irrigation, 165 bu Yield, Pivot Irrigated Diesel**

**2019 Budget 46-Grain Sorghum, No Till, Limited Irrigation, 165 bu Yield  
Pivot Irrigated Diesel, 800 GPM 35 PSI, 6 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Anhydrous Application	1		1.83	1.52	0.72	0.58	2.25	3.63	10.53	
3 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
4 Plant No-Till	1		2.40	0.97	0.86	4.41	2.70	6.13	17.47	
5 Spray Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
6 Aerial Spray	Custom									
7 Pivot D 125' Lift	6	ai	4.17	31.88	2.06	9.68	2.75	5.32	55.86	
8 Combine Irr SG	1		3.38	4.63	7.87	1.11	6.29	2.65	25.93	
9 Cart	165	bu	2.36	0.92	0.93	1.51	2.89	0.89	9.50	
10 Truck	Custom									
<b>Total for Field Operations</b>			16.64	40.67	13.31	18.89	19.58	20.65	129.74	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.13	2.13		
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60		
82-0-0	Fertilizer	2	100%	150 lbs N	0.31	46.50		
Lumax EZ	Herbicide	3	100%	2.7 quart	20.00	54.00		
AAtrex 4L	Herbicide	3	100%	0.5 quart	4.50	2.25		
10-34-0	Fertilizer	4	100%	6 gallon	2.45	14.70		
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	10.00	1.50		
* Mustang Maxx	Insecticide	6	15%	3 ounce	1.41	0.63		
Haul Grain Bushels	Custom	10	100%	165 bushel	0.11	18.15		
Scouting Grain Sorghum	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				17.00	17.00		
<b>Total Materials &amp; Services</b>							192.75	

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

**Total listed costs for Field Operations and Materials and Services** 322.49

Interest on Operations Capital \$ 282.26 cash expense @ 5.50% for 6.0 mo. 7.76

**Total Operating and Use Related Ownership Costs** 330.25

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

\*\* Real Estate Opportunity Pivot (Marginal Land) \$ 3,004 per acre @ 3.00% 90.11

\*\* Real Estate Taxes \$ 3,004 per acre @ 1.35% 40.55

**Total Cost per Acre Including Overhead** 480.91

**Cost per bu** 2.91

**Cash Cost per bu** 2.00

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



**47-Grass, Conventional Tillage, Fall Establishment, Pivot Irrigated Diesel**

**2019 Budget 47-Grass, Conventional Tillage, Fall Establishment  
Pivot Irrigated Diesel, 800 GPM 35 PSI, 2 acre/inches**

Field Operations		Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
2	Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
3	Grass Drill	1		2.44	1.37	0.96	6.46	3.00	2.59	16.82	
4	Roll	1		2.22	1.74	0.96	0.00	3.00	0.00	7.92	
5	Pivot D 125' Lift	2	ai	1.39	10.63	0.69	3.23	0.92	1.77	18.63	
6	Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
<b>Total for Field Operations</b>				11.11	18.35	4.17	12.29	14.88	7.01	67.81	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Grass Seed	Seed	3	100%	1 acre	75.00	75.00	
11-52-0	Fertilizer	6	100%	60 pound	0.27	16.20	
<b>Total Materials &amp; Services</b>						91.20	

<b>Total listed costs for Field Operations and Materials and Services</b>						159.01	
Interest on Operations Capital \$ 137.12 cash expense @ 5.50% for 6.0 mo.						3.77	
<b>Total Operating and Use Related Ownership Costs</b>						162.78	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Fall Establishment	\$	-	per acre @	3.00%	0.00	
Real Estate Taxes		\$	-	per acre @	1.35%	0.00	
<b>Total Cost per Acre Including Overhead</b>						182.78	

48-Grass Hay, Large Round Bale, 2.2 ton Yield

2019 Budget 48-Grass Hay, Large Round Bale, 2.2 ton Yield

Field Operations		Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2	Swath/Condition Hay	1		2.00	1.43	2.31	0.00	3.33	0.00	9.07	
3	Bale Large Round	2.2	ton	4.84	1.81	1.90	2.37	5.93	2.28	19.13	
4	Move Large Round	2.2	ton	2.42	1.26	0.95	0.00	2.97	0.12	7.72	
<b>Total for Field Operations</b>				10.83	5.37	5.84	2.37	14.35	2.40	41.16	

Materials & Services			Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
46-0-0	Fertilizer							
11-52-0	Fertilizer		1	100%	15 pound	0.27	4.05	
Twine Large Round	Other		3	100%	2.2 ton	0.91	2.00	
<b>Total Materials &amp; Services</b>							22.85	

**Total listed costs for Field Operations and Materials and Services** 64.01

Interest on Operations Capital \$ 47.26 cash expense @ 5.50% for 6.0 mo. 1.30

**Total Operating and Use Related Ownership Costs** 65.31

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

Real Estate Opportunity  \$ 3,100 per acre @ 3.00% 93.00

Real Estate Taxes \$ 3,100 per acre @ 1.35% 41.85

**Total Cost per Acre Including Overhead** 220.16

**Cost per ton** 100.07

**Cash Cost per ton** 41.10

49-Millet, Panhandle, Stubble Mulch Fallow, Followed by Wheat, Two Crops in Three Years, 22 cwt Yield, Dryland

2019 Budget 49-Millet, Panhandle, Stubble Mulch Fallow, Followed by Wheat, Two Crops in Three Years, 22 cwt Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Sweep Plow	1		1.76	1.98	0.26	0.96	3.52	1.51	9.99	
3 Rod Weeder	1		1.52	1.16	0.65	0.23	2.04	0.91	6.51	
4 Spray Fertilizer	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
5 Drill	1		1.76	1.14	0.69	2.94	2.16	2.35	11.04	
6 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
7 Windrow Grain	1		2.00	1.43	2.31	0.00	3.33	0.00	9.07	
8 Combine Small Grain	1		3.14	4.28	7.31	0.94	5.84	2.65	24.16	
9 Truck	Custom									
<b>Total for Field Operations</b>			13.18	10.89	12.27	6.54	20.13	11.07	74.08	

  

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	100%	1.5 pint	2.13	3.19	
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60	
28-0-0	Fertilizer	4	100%	45 lbs N	0.44	19.95	
Millet	Seed	5	100%	12 pound	0.45	5.40	
2,4-D Amine	Herbicide	6	100%	0.75 pint	1.50	1.13	
Dicamba	Herbicide	6	100%	0.5 ounce	0.32	0.16	
Haul Grain (Millet)	Custom	9	100%	22 cwt	0.24	5.28	
Crop Insurance					8.00	8.00	
<b>Total Materials &amp; Services</b>						47.46	

  

<b>Total listed costs for Field Operations and Materials and Services</b>						121.54
Interest on Operations Capital \$ 90.34	cash expense @	5.50%	for 6.0 mo.			2.48
<b>Total Operating and Use Related Ownership Costs</b>						124.02
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00
Real Estate Opportunity	Dryland (Panhandle)	\$ 670	per acre @	3.00%		20.10
Real Estate Taxes		\$ 670	per acre @	1.35%		9.05
<b>Total Cost per Acre Including Overhead</b>						173.17
<b>Cost per cwt</b>						7.87
<b>Cash Cost per cwt</b>						4.63

50-Millet, No Till, 22 cwt Yield, Dryland

2019 Budget 50-Millet, No Till, 22 cwt Yield  
Dryland

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Spray Fertilizer	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
3 No-Till Drill	1		1.83	1.45	0.72	1.57	2.25	3.21	11.03	
4 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
5 Windrow Grain	1		2.00	1.43	2.31	0.00	3.33	0.00	9.07	
6 Combine Small Grain	1		3.14	4.28	7.31	0.94	5.84	2.65	24.16	
7 Truck	Custom									
<b>Total for Field Operations</b>			9.97	8.06	11.39	3.98	14.66	9.51	57.57	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate	Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60		
28-0-0	Fertilizer	2	100%	45 lbs N	0.44	19.95		
Glyphosate w/Surfactant	Herbicide	2	100%	20 ounce	0.12	2.34		
Vida	Herbicide	2	100%	2 ounce	4.30	8.59		
Millet	Seed	3	100%	12 pound	0.45	5.40		
2,4-D Amine	Herbicide	4	100%	0.75 pint	1.50	1.13		
Dicamba	Herbicide	4	100%	0.5 ounce	0.32	0.16		
Haul Grain (Millet)	Custom	7	100%	22 cwt	0.24	5.28		
	Crop Insurance				8.00	8.00		
<b>Total Materials &amp; Services</b>							55.20	

**Total listed costs for Field Operations and Materials and Services** 112.77

Interest on Operations Capital \$ 88.60 cash expense @ 5.50% for 6.0 mo. 2.44

**Total Operating and Use Related Ownership Costs** 115.21

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

Real Estate Opportunity Dryland (Panhandle) \$ 670 per acre @ 3.00% 20.10

Real Estate Taxes \$ 670 per acre @ 1.35% 9.05

**Total Cost per Acre Including Overhead** 164.36

**Cost per cwt** 7.47

**Cash Cost per cwt** 4.55

51-Oats, No Till, 85 bu Yield, Dryland

2019 Budget 51-Oats, No Till, 85 bu Yield  
Dryland

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Fertilizer	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
2 No-Till Drill	1		1.83	1.45	0.72	1.57	2.25	3.21	11.03	
3 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
4 Combine Small Grain	1		3.14	4.28	7.31	0.94	5.84	2.65	24.16	
5 Truck	Custom									
<b>Total for Field Operations</b>			6.97	6.33	8.73	3.34	10.25	8.70	44.32	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
28-0-0 Fertilizer	1	100%	100 lbs N	0.44	44.33	
Oats Seed	2	100%	2 bushel	10.00	20.00	
10-34-0 Fertilizer	2	100%	6 gallon	2.45	14.70	
Aim 2EC Herbicide	3	100%	0.5 ounce	5.94	2.97	
2,4-D Ester LV4 Herbicide	3	100%	0.5 pint	2.13	1.06	
NIS Additive	3	100%	6 ounce	0.18	1.08	
Haul Grain Bushels Custom	5	100%	85 bushel	0.11	9.35	
Crop Insurance				7.00	7.00	
<b>Total Materials &amp; Services</b>					100.49	

<b>Total listed costs for Field Operations and Materials and Services</b>					144.81	
Interest on Operations Capital \$ 125.86	cash expense @	5.50%	for 6.0 mo.		3.46	
<b>Total Operating and Use Related Ownership Costs</b>					148.27	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)					20.00	
Real Estate Opportunity	Dryland (State)	\$ 3,100	per acre @	3.00%	93.00	
Real Estate Taxes		\$ 3,100	per acre @	1.35%	41.85	
<b>Total Cost per Acre Including Overhead</b>					303.12	
<b>Cost per bu</b>					3.57	
<b>Cash Cost per bu</b>					2.01	

52-Pasture, Grazing, 11 AUM Yield, Pivot Irrigated Diesel

2019 Budget 52-Pasture, Grazing, 11 AUM Yield  
Pivot Irrigated Diesel, 800 GPM 35 PSI, 18 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Pivot D 125' Lift w/fertigation	18	ai	16.67	95.64	6.17	31.13	8.26	17.09	174.96	
<b>Total for Field Operations</b>			16.67	95.64	6.17	31.13	8.26	17.09	174.96	
Materials & Services			Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate		
28-0-0		Fertilizer							1	100%
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			
<b>Total Materials &amp; Services</b>							121.53			
<b>Total listed costs for Field Operations and Materials and Services</b>								296.49		
Interest on Operations Capital \$ 271.14 cash expense @ 5.50% for 6.0 mo.								7.46		
<b>Total Operating and Use Related Ownership Costs</b>								303.95		
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)								20.00		
Real Estate Opportunity		Pivot (Marginal Land)	\$ 4,291	per acre @	3.00%		128.73			
Real Estate Taxes			\$ 4,291	per acre @	1.35%		57.93			
<b>Total Cost per Acre Including Overhead</b>								510.61		
<b>Cost per AUM</b>								46.42		
<b>Cash Cost per AUM</b>								30.59		

53-Peas, No Till, 35 bu Yield, Dryland

2019 Budget 53-Peas, No Till, 35 bu Yield  
Dryland

	Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	No-Till Drill	1		1.83	1.45	0.72	1.57	2.25	3.21	11.03	
2	Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
3	Combine Small Grain	1		3.14	4.28	7.31	0.94	5.84	2.65	24.16	
4	Truck	Custom									
<b>Total for Field Operations</b>				5.97	6.03	8.38	3.15	9.17	6.67	39.37	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Pea Seed Inoculant	Fungicide	1	100%	1 pound	0.06	0.06	
Sharpen	Herbicide	2	100%	2 ounce	6.80	13.59	
Glyphosate w/Surfactant	Herbicide	2	100%	32 ounce	0.12	3.75	
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	
	Crop Insurance				9.00	9.00	
<b>Total Materials &amp; Services</b>						84.85	

<b>Total listed costs for Field Operations and Materials and Services</b>						124.22	
Interest on Operations Capital \$ 108.38 cash expense @ 5.50% for 6.0 mo.						2.98	
<b>Total Operating and Use Related Ownership Costs</b>						127.20	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Dryland (Panhandle)	\$ 670	per acre @	3.00%		20.10	
Real Estate Taxes		\$ 670	per acre @	1.35%		9.05	
<b>Total Cost per Acre Including Overhead</b>						176.35	
<b>Cost per bu</b>						5.04	
<b>Cash Cost per bu</b>						3.44	

**54-Sorghum-Sudan, Annually Planted, Conventional Tillage, Large Round Bale, 3.3 ton Yield, Dryland**

**2019 Budget 54-Sorghum-Sudan, Annually Planted, Conventional Tillage, Large Round Bale, 3.3 ton Yield Dryland**

	Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
2	Spray Fertilizer	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
3	Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
4	Drill	1		1.76	1.14	0.69	2.94	2.16	2.35	11.04	
5	Swath/Condition Hay	1		2.00	1.43	2.31	0.00	3.33	0.00	9.07	
6	Bale Large Round	3.3	ton	7.26	2.72	2.85	3.55	8.90	3.41	28.69	
7	Move Large Round	3.3	ton	3.63	1.89	1.42	0.00	4.45	0.18	11.57	
<b>Total for Field Operations</b>				19.14	11.22	8.50	9.28	25.76	10.62	84.52	

Materials & Services			Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
28-0-0	Fertilizer		2	100%	40 lbs N	0.44	17.73	
Sorghum Sudan	Seed		4	100%	10 pound	0.90	9.00	
Twine Large Round	Other		6	100%	3.3 ton	0.91	3.00	
<b>Total Materials &amp; Services</b>							29.73	

**Total listed costs for Field Operations and Materials and Services** 114.25

Interest on Operations Capital \$ 77.87 cash expense @ 5.50% for 6.0 mo. 2.14

**Total Operating and Use Related Ownership Costs** 116.39

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

Real Estate Opportunity  \$ 3,100 per acre @ 3.00% 93.00

Real Estate Taxes \$ 3,100 per acre @ 1.35% 41.85

**Total Cost per Acre Including Overhead** 271.24

**Cost per ton** 82.19

**Cash Cost per ton** 36.93



**55-Soybeans, Roundup Ready® , Conventional Tillage, after Corn, 40 bu Yield, Dryland**

**2019 Budget 55-Soybeans, Roundup Ready® , Conventional Tillage, after Corn, 40 bu Yield Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
2 Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
3 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
4 Plant	1		2.40	0.78	0.86	2.54	2.70	3.53	12.81	
5 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
6 Aerial Spray	Custom									
7 Combine Dryland SB	1		3.38	4.63	7.87	1.11	6.29	2.65	25.93	
8 Truck	Custom									
<b>Total for Field Operations</b>			11.27	9.75	10.31	7.53	16.99	10.45	66.30	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							Valor XLT
RR2 Soybeans	Seed	4	100%	1 bag	56.00	56.00	
Glyphosate w/Surfactant	Herbicide	5	100%	32 ounce	0.12	3.75	
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	10.00	2.00	
* Warrior II/Zeon	Insecticide	6	20%	1.6 ounce	2.89	0.93	
Haul Grain Bushels	Custom	8	100%	40 bushel	0.11	4.40	
Scouting Dryland Soybeans	Scouting		100%	1 acre	7.00	7.00	
	Crop Insurance				15.00	15.00	
<b>Total Materials &amp; Services</b>						112.84	

\* Insecticide for Aphids and Caterpillars

<b>Total listed costs for Field Operations and Materials and Services</b>						179.14	
Interest on Operations Capital	\$ 151.70	cash expense @	5.50%	for 6.0 mo.		4.17	
<b>Total Operating and Use Related Ownership Costs</b>						183.31	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Dryland (State)	\$ 3,100	per acre @	3.00%		93.00	
Real Estate Taxes		\$ 3,100	per acre @	1.35%		41.85	
<b>Total Cost per Acre Including Overhead</b>						338.16	
<b>Cost per bu</b>						8.45	
<b>Cash Cost per bu</b>						4.94	

~See benefits of soybeans in a corn/soybean rotation

56-Soybeans, Roundup Ready®, No Till, after Corn, 45 bu Yield, Dryland

2019 Budget 56-Soybeans, Roundup Ready®, No Till, after Corn, 45 bu Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
3 Plant No-Till	1		2.40	0.97	0.86	4.41	2.70	6.13	17.47	
4 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
5 Aerial Spray	Custom									
6 Combine Dryland SB	1		3.38	4.63	7.87	1.11	6.29	2.65	25.93	
7 Truck	Custom									
<b>Total for Field Operations</b>			8.78	6.50	9.78	7.44	12.23	11.21	55.94	

Materials & Services	Operation Index	Acres Applied	Percent Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.13	2.13		
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60		
Valor XLT	Herbicide	2	100%	3 ounce	6.00	18.00		
2,4-D Ester LV4	Herbicide	2	100%	1 pint	2.13	2.13		
Glyphosate w/Surfactant	Herbicide	2	100%	32 ounce	0.12	3.75		
21-0-0-24S	Additive	2	100%	1.7 pound	0.35	0.60		
RR2 Soybeans	Seed	3	100%	1 bag	56.00	56.00		
Glyphosate w/Surfactant	Herbicide	4	100%	32 ounce	0.12	3.75		
Select Max	Herbicide	4	100%	6 ounce	0.86	5.16		
21-0-0-24S	Additive	4	100%	1.7 pound	0.35	0.60		
* Aerial Spray	Custom	5	20%	1 acre	10.00	2.00		
* Warrior II/Zeon	Insecticide	5	20%	1.6 ounce	2.89	0.93		
Haul Grain Bushels	Custom	6	100%	45 bushel	0.11	0.00		
Scouting Dryland Soybeans	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				15.00	15.00		
<b>Total Materials &amp; Services</b>							121.40	

\* Insecticide for Aphids and Caterpillars

**Total listed costs for Field Operations and Materials & Services** 177.34

Interest on Operations Capital \$ 153.90 cash expense @ 5.50% for 6.0 mo. 4.23

**Total Operating and Use Related Ownership Costs** 181.57

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

Real Estate Opportunity Dryland (State) \$ 3,100 per acre @ 3.00% 93.00

Real Estate Taxes \$ 3,100 per acre @ 1.35% 41.85

**Total Cost per Acre Including Overhead** 336.42

**Cost per bu** 7.48

**Cash Cost per bu** 4.44

~See benefits of soybeans in a corn/soybean rotation

57-Soybeans, Roundup Ready®, No Till, Continuous, 40 bu Yield, Dryland

2019 Budget 57-Soybeans, Roundup Ready®, No Till, Continuous, 40 bu Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Plant No-Till	1		2.40	0.97	0.86	4.41	2.70	6.13	17.47	
3 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
4 Aerial Spray	Custom									
5 Combine Dryland SB	1		3.38	4.63	7.87	1.11	6.29	2.65	25.93	
6 Truck	Custom									
<b>Total for Field Operations</b>			7.78	6.20	9.43	6.80	11.15	10.40	51.76	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Valor XLT	Herbicide	1	100%	3 ounce	6.00	18.00	
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.13	2.13	
Glyphosate w/Surfactant	Herbicide	1	100%	32 ounce	0.12	3.75	
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60	
RR2 Soybeans	Seed	2	100%	1 bag	56.00	56.00	
Glyphosate w/Surfactant	Herbicide	3	100%	32 ounce	0.12	3.75	
21-0-0-24S	Additive	3	100%	1.7 pound	0.35	0.60	
* Aerial Spray	Custom	4	20%	1 acre	10.00	2.00	
* Warrior II/Zeon	Insecticide	4	20%	1.6 ounce	2.89	0.93	
Haul Grain Bushels	Custom	6	100%	40 bushel	0.11	4.40	
Scouting Dryland Soybeans	Scouting		100%	1 acre	7.00	7.00	
	Crop Insurance				15.00	15.00	
<b>Total Materials &amp; Services</b>						114.16	

\* Insecticide for Aphids and Caterpillars

**Total listed costs for Field Operations and Materials and Services**

Interest on Operations Capital \$ 144.37 cash expense @ 5.50% for 6.0 mo. 3.97

**Total Operating and Use Related Ownership Costs** 169.89

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

Real Estate Opportunity Dryland (State) \$ 3,100 per acre @ 3.00% 93.00

Real Estate Taxes \$ 3,100 per acre @ 1.35% 41.85

**Total Cost per Acre Including Overhead** 324.74

**Cost per bu** 8.12

**Cash Cost per bu** 4.75

~Cost to replace P<sub>2</sub>O<sub>5</sub> - 0.8 lbs/bushel of yield produced

**58-Soybeans, Roundup Ready® , Conventional Tillage, after Corn, 62 bu Yield, Pivot Irrigated**

**2019 Budget 58-Soybeans, Roundup Ready® , Conventional Tillage, after Corn, 62 bu Yield  
Pivot Irrigated, 800 GPM 35 PSI, 9 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
2 Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
3 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
4 Plant	1		2.40	0.78	0.86	2.54	2.70	3.53	12.81	
5 Pivot D 125' Lift	9	ai	6.25	47.82	3.09	14.53	4.13	7.97	83.79	
6 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
7 Aerial Spray	Custom									
8 Aerial Spray	Custom									
9 Combine Irr SB	1		3.67	5.01	8.53	1.33	6.81	2.65	28.00	
10 Truck	Custom									
<b>Total for Field Operations</b>			17.81	57.95	14.06	22.28	21.64	18.42	152.16	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Valor XLT
RR2 Soybeans	Seed	4	100%	1 bag	56.00	56.00		
Glyphosate w/Surfactant	Herbicide	6	100%	32 ounce	0.12	3.75		
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	10.00	2.00		
* Warrior II/Zeon	Insecticide	7	20%	1.6 ounce	2.89	0.93		
Aerial Spray	Custom	8	20%	1 acre	10.00	2.00		
Priaxor	Fungicide	8	20%	4 ounce	5.47	4.38		
Haul Grain Bushels	Custom	10	100%	62 bushel	0.11	6.82		
Scouting Irrigated Soybeans	Scouting		100%	1 acre	9.00	9.00		
	Crop Insurance				8.00	8.00		
<b>Total Materials &amp; Services</b>							116.64	

\* Insecticide for Aphids and Caterpillars

<b>Total listed costs for Field Operations and Materials and Services</b>						268.80	
Interest on Operations Capital	\$ 228.74	cash expense @	5.50%	for 6.0 mo.		6.29	
<b>Total Operating and Use Related Ownership Costs</b>						275.09	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Pivot (State)	\$ 6,130	per acre @	3.00%		183.90	
Real Estate Taxes		\$ 6,130	per acre @	1.35%		82.76	
<b>Total Cost per Acre Including Overhead</b>						561.75	
<b>Cost per bu</b>						9.06	
<b>Cash Cost per bu</b>						5.13	

~See benefits of soybeans in a corn/soybean rotation

59-Soybeans, Roundup Ready®, Conventional Tillage, after Corn, 65 bu Yield, Gravity Irrigated, fed by a well

2019 Budget 59-Soybeans, Roundup Ready®, Conventional Tillage, after Corn, 65 bu Yield  
Gravity Irrigated, fed by a well, 1,000 GPM 10 PSI, 12 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Ridge Plant and Band Herbicide	1		2.40	0.98	0.86	6.89	2.70	4.27	18.10	
3 Ridge Cultivation	1		2.00	1.53	0.86	0.89	2.70	1.01	8.99	
4 Ridge Cultivate/Ditch	1		1.83	1.27	0.72	0.37	2.25	1.52	7.96	
5 Pipe D 125' Lift	12	ai	22.22	46.27	3.29	2.28	5.43	3.71	83.20	
6 Spray Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
7 Aerial Spray	Custom									
8 Aerial Spray	Custom									
9 Combine Irr SB	1		3.67	5.01	8.53	1.33	6.81	2.65	28.00	
10 Truck	Custom									
<b>Total for Field Operations</b>			33.62	55.51	14.78	12.72	21.51	14.38	152.52	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.13	2.13		
21-0-0-24S	Additive	2	100%	1.7 pound	0.35	0.60		
Valor XLT	Herbicide	2	33%	3 ounce	6.00	5.94		
RR2 Soybeans	Seed	2	100%	1 bag	56.00	56.00		
Glyphosate w/Surfactant	Herbicide	6	50%	32 ounce	0.12	1.88		
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	1.34	1.08		
* Aerial Spray	Custom	7	20%	1 acre	10.00	2.00		
* Warrior II/Zeon	Insecticide	7	20%	1.6 ounce	2.89	0.93		
Aerial Spray	Custom	8	20%	1 acre	10.00	2.00		
Stratego YLD	Fungicide	8	20%	4 ounce	4.45	3.56		
Haul Grain Bushels	Custom	10	100%	65 bushel	0.11	7.15		
Scouting Irrigated Soybeans	Scouting		100%	1 acre	9.00	9.00		
Crop Insurance					8.00	8.00		
<b>Total Materials &amp; Services</b>							106.38	

\* Insecticide for Aphids and Caterpillars

<b>Total listed costs for Field Operations and Materials and Services</b>		258.90
Interest on Operations Capital \$ 223.01 cash expense @ 5.50% for 6.0 mo.		6.13
<b>Total Operating and Use Related Ownership Costs</b>		265.03

<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity Gravity (State)	\$ 5,795 per acre @ 3.00%	173.85
Real Estate Taxes	\$ 5,795 per acre @ 1.35%	78.23
<b>Total Cost per Acre Including Overhead</b>		537.11

<b>Cost per bu</b>	8.26
<b>Cash Cost per bu</b>	4.73

~See benefits of soybeans in a corn/soybean rotation

**60-Soybeans, Roundup Ready2® Xtend Treated, No Till, Narrow Row after Corn, 70 bu Yield, Pivot Irrigated Diesel**

**2019 Budget 60-Soybeans, Roundup Ready2® Xtend Treated, No Till, Narrow Row after Corn, 70 bu Yield  
Pivot Irrigated Diesel, 800 GPM 35 PSI, 6 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Plant Narrow Row	1		2.40	0.74	0.86	2.54	2.70	3.53	12.77	
3 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
4 Aerial Spray	Custom									
5 Aerial Spray	Custom									
6 Pivot D 125' Lift	6	ai	4.17	31.88	2.06	9.68	2.75	5.32	55.86	
7 Combine Irr SB	1		3.67	5.01	8.53	1.33	6.81	2.65	28.00	
8 Truck	Custom									
<b>Total for Field Operations</b>			12.24	38.23	12.15	14.83	14.42	13.12	104.99	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Glyphosate w/Surfactant	Herbicide	1	100%	32 ounce	0.12	3.75
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.13	2.13
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60
Valor XLT	Herbicide	1	100%	3 ounce	6.00	18.00
RR2 Soybeans Xtend Treated	Seed	2	100%	1 bag	66.00	66.00
Engenia	Herbicide	3	100%	12.8 ounce	1.02	13.00
Glyphosate w/Surfactant	Herbicide	3	100%	32 ounce	0.12	3.75
Select Max	Herbicide	3	100%	6 ounce	0.86	5.16
Approved adjuvant	Additive	3	100%	1 acre	3.00	3.00
* Aerial Spray	Custom	4	20%	1 acre	10.00	2.00
* Warrior II/Zeon	Insecticide	4	20%	1.6 ounce	2.89	0.93
Aerial Spray	Custom	5	20%	1 acre	10.00	2.00
Quilt Xcel	Fungicide	5	20%	10.5 ounce	1.64	3.45
Haul Grain Bushels	Custom	8	100%	70 bushel	0.11	7.70
Scouting Irrigated Soybeans	Scouting		100%	1 acre	9.00	9.00
Crop Insurance					8.00	8.00
<b>Total Materials &amp; Services</b>						148.47

\* Insecticide for Aphids and Caterpillars

**Total listed costs for Field Operations and Materials and Services**

Interest on Operations Capital \$ 225.92 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 (State) \$ 6,130 per acre @ 3.00%  
Real Estate Taxes \$ 6,130 per acre @ 1.35%

**Total Cost per Acre Including Overhead**

**Cost per bu**

**Cash Cost per bu**

~See benefits of soybeans in a corn/soybean rotation

**61-Soybeans, Roundup Ready®, No Till, Narrow Row, Continuous, 59 bu Yield, Pivot Irrigated Diesel**

**2019 Budget 61-Soybeans, Roundup Ready®, No Till, Narrow Row, Continuous, 59 bu Yield  
Pivot Irrigated Diesel, 800 GPM 35 PSI, 6 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Plant Narrow Row	1		2.40	0.74	0.86	2.54	2.70	3.53	12.77	
3 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
4 Aerial Spray	Custom									
5 Aerial Spray	Custom									
6 Pivot D 125' Lift	6	ai	4.17	31.88	2.06	9.68	2.75	5.32	55.86	
7 Combine Irr SB	1		3.67	5.01	8.53	1.33	6.81	2.65	28.00	
8 Truck	Custom									
<b>Total for Field Operations</b>			12.24	38.23	12.15	14.83	14.42	13.12	104.99	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.13	2.13	
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60	
Valor XLT	Herbicide	1	100%	3 ounce	6.00	18.00	
RR2 Soybeans Treated	Seed	2	100%	1 bag	60.00	60.00	
Glyphosate w/Surfactant	Herbicide	3	50%	32 ounce	0.12	1.88	
21-0-0-24S	Additive	3	50%	1.7 pound	0.35	0.30	
* Aerial Spray	Custom	4	20%	1 acre	10.00	2.00	
* Warrior II/Zeon	Insecticide	4	20%	1.6 ounce	2.89	0.93	
Aerial Spray	Custom	5	20%	1 acre	10.00	2.00	
Priaxor	Fungicide	5	20%	4 ounce	5.47	4.38	
Haul Grain Bushels	Custom	8	100%	59 bushel	0.11	6.49	
Scouting Irrigated Soybeans	Scouting		100%	1 acre	9.00	9.00	
Crop Insurance					8.00	8.00	
<b>Total Materials &amp; Services</b>						119.46	

\* Insecticide for Aphids and Caterpillars

**Total listed costs for Field Operations and Materials and Services**

Interest on Operations Capital \$ 196.91 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 (State) \$ 6,130 per acre @ 3.00%  
Real Estate Taxes \$ 6,130 per acre @ 1.35%

**Total Cost per Acre Including Overhead**

**Cost per bu**

**Cash Cost per bu**

~Cost to replace P<sub>2</sub>O<sub>5</sub> - 0.8 lbs/bushel of yield produced

**62-Soybeans, Roundup Ready2® Xtend, No Till Drilled 7.5-inch Rows, after Corn, 73 bu Yield, Pivot Irrigated Diesel**

**2019 Budget 62-Soybeans, Roundup Ready2® Xtend, No Till Drilled 7.5-inch Rows, after Corn, 73 bu Yield  
Pivot Irrigated Diesel, 800 GPM 35 PSI, 6 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 No-Till Drill	1		1.83	1.45	0.72	1.57	2.25	3.21	11.03	
3 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
4 Aerial Spray	Custom									
5 Aerial Spray	Custom									
6 Pivot D 125' Lift	6	ai	4.17	31.88	2.06	9.68	2.75	5.32	55.86	
7 Combine Irr SB	1		3.67	5.01	8.53	1.33	6.81	2.65	28.00	
8 Truck	Custom									
<b>Total for Field Operations</b>			11.67	38.94	12.01	13.86	13.97	12.80	103.25	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Glyphosate w/Surfactant	Herbicide	1	100%	32 ounce	0.12	3.75
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.13	2.13
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60
Valor XLT	Herbicide	1	100%	3 ounce	6.00	18.00
RR2 Soybeans Xtend Treated	Seed	2	100%	1 bag	66.00	66.00
FeXapan	Herbicide	3	100%	22 ounce	0.55	12.03
Glyphosate w/Surfactant	Herbicide	3	100%	32 ounce	0.12	3.75
Select Max	Herbicide	3	100%	6 ounce	0.86	5.16
Approved adjuvant	Additive	3	100%	1 acre	3.00	3.00
* Aerial Spray	Custom	4	20%	1 acre	10.00	2.00
* Warrior II/Zeon	Insecticide	4	20%	1.6 ounce	2.89	0.93
Aerial Spray	Custom	5	20%	1 acre	10.00	2.00
Stratego YLD	Fungicide	5	20%	4 ounce	4.45	3.56
Haul Grain Bushels	Custom	8	100%	73 bushel	0.11	8.03
Scouting Irrigated Soybeans	Scouting		100%	1 acre	9.00	9.00
Crop Insurance					8.00	8.00
<b>Total Materials &amp; Services</b>						147.94

\* Insecticide for Aphids and Caterpillars

<b>Total listed costs for Field Operations and Materials and Services</b>						251.19
Interest on Operations Capital \$ 224.42	cash expense @	5.50%	for 6.0 mo.			6.17
<b>Total Operating and Use Related Ownership Costs</b>						257.36
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00
Real Estate Opportunity	Pivot (State)	\$ 6,130	per acre @	3.00%		183.90
Real Estate Taxes		\$ 6,130	per acre @	1.35%		82.76
<b>Total Cost per Acre Including Overhead</b>						544.02
<b>Cost per bu</b>						7.45
<b>Cash Cost per bu</b>						4.29

~See benefits of soybeans in a corn/soybean rotation



**63-Sugarbeet, Roundup Ready®, Panhandle, One Pass Zone-Tillage, 26 ton Yield, Gravity Irrigated, fed by canal**

**2019 Budget 63-Sugarbeet, Roundup Ready®, Panhandle, One Pass Zone-Tillage, 26 ton Yield Gravity Irrigated, fed by canal, 20 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
2 Spray Fertilizer	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
3 Spray Herbicide	Custom									
4 Till Plant Beets	1		3.67	3.94	0.55	4.89	7.34	2.32	22.71	
5 Rotary Hoe	1		1.50	0.72	0.59	0.37	1.84	1.26	6.28	
6 Row Crop Cultivation	1		2.00	0.91	0.78	0.44	2.45	1.52	8.10	
7 Ridge Cultivate/Ditch	1		1.83	1.27	0.72	0.37	2.25	1.52	7.96	
8 Spray Herbicide	Custom									
9 Ditch Irrigation	20	ai	22.22	0.00	0.00	0.00	0.00	0.00	22.22	
10 Spray Herbicide	Custom									
11 Aerial Spray	Custom									
12 Top Beets	1		3.45	1.73	1.49	3.32	4.66	1.99	16.64	
13 Lift Beets	1		3.67	2.95	0.55	13.70	7.34	5.07	33.28	
14 Truck	Custom									
15 Subsoil	1		2.22	2.62	0.36	1.62	4.89	6.04	17.75	
<b>Total for Field Operations</b>			43.58	16.62	5.69	26.17	35.89	22.89	150.84	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
28-0-0	Fertilizer	2	100%	115 lbs N	0.44	50.98
Spray	Custom	3,8, 10	300%	1 acre	7.00	21.00
Glyphosate w/Surfactant	Herbicide	3	100%	36 ounce	0.12	4.22
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/Surfactant	Herbicide	8	100%	36 ounce	0.12	4.22
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/Surfactant	Herbicide	10	100%	36 ounce	0.12	4.22
21-0-0-24S	Additive	10	100%	1.7 pound	0.35	0.60
Aerial Spray	Custom	11	100%	1 acre	10.00	10.00
Quadris	Fungicide	11	100%	7 ounce	1.80	12.58
Haul Beets	Custom	14	100%	26 ton	5.00	130.00
Scouting Sugar Beets	Scouting		100%	1 acre	16.00	16.00
	Crop Insurance				27.00	27.00
<b>Total Materials &amp; Services</b>						538.85

**Total listed costs for Field Operations and Materials and Services** 689.69

Interest on Operations Capital \$ 630.91 cash expense @ 5.50% for 6.0 mo.

**Total Operating and Use Related Ownership Costs** 707.04

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

Real Estate Opportunity Gravity (Panhandle) \$ 2,340 per acre @ 3.00% 70.20

Real Estate Taxes \$ 2,340 per acre @ 1.35% 31.59

**Total Cost per Acre Including Overhead** 828.83

**Cost per ton** 31.88

**Cash Cost per ton** 26.15

64-Sugarbeet, Roundup Ready®, Panhandle, Conventional Tillage, 26 ton Yield, Gravity Irrigated, fed by canal

2019 Budget 64-Sugarbeet, Roundup Ready®, Panhandle, Conventional Tillage, 26 ton Yield  
Gravity Irrigated, fed by canal, 20 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
2 Spray Fertilizer	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
3 Spray Herbicide	Custom									
4 Plow	1		2.93	2.29	0.44	0.86	5.87	0.52	12.91	
5 Roller Harrow	1		2.00	1.43	0.86	0.52	2.70	1.52	9.03	
6 Plant	1		2.40	0.78	0.86	2.54	2.70	3.53	12.81	
7 Field Cultivation	2		2.93	3.13	1.15	2.66	3.59	3.02	16.48	
8 Ridge Cultivate/Ditch	1		1.83	1.27	0.72	0.37	2.25	1.52	7.96	
9 Spray Herbicide	Custom									
10 Ditch Irrigation	20	ai	22.22	0.00	0.00	0.00	0.00	0.00	22.22	
11 Spray Herbicide	Custom									
12 Aerial Spray	Custom									
13 Top Beets	1		3.45	1.73	1.49	3.32	4.66	1.99	16.64	
14 Lift Beets	1		3.67	2.95	0.55	13.70	7.34	5.07	33.28	
15 Truck	Custom									
16 Subsoil	1		2.22	2.62	0.36	1.62	4.89	6.04	17.75	
<b>Total for Field Operations</b>			46.67	18.68	7.08	27.05	39.12	26.38	164.98	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
10-34-0	Fertilizer	2	100%	13.4 gallon	2.45	32.83
28-0-0	Fertilizer	2	100%	115 lbs N	0.44	50.98
Spray	Custom	3, 9, & 11	300%	1 acre	7.00	21.00
Glyphosate w/Surfactant	Herbicide	3	100%	36 ounce	0.12	4.22
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/Surfactant	Herbicide	9	100%	36 ounce	0.12	4.22
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/Surfactant	Herbicide	11	100%	36 ounce	0.12	4.22
21-0-0-24S	Additive	11	100%	1.7 pound	0.35	0.60
Aerial Spray	Custom	12	100%	1 acre	10.00	10.00
Quadris	Fungicide	12	100%	7 ounce	1.80	12.58
Haul Beets	Custom	15	100%	26 ton	5.00	130.00
Scouting Sugar Beets	Scouting		100%	1 acre	16.00	16.00
Crop Insurance					27.00	27.00
<b>Total Materials &amp; Services</b>						531.85

**Total listed costs for Field Operations and Materials and Services** 696.83

Interest on Operations Capital \$ 631.33 cash expense @ 5.50% for 6.0 mo. 17.36

**Total Operating and Use Related Ownership Costs** 714.19

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

Real Estate Opportunity Gravity (Panhandle) \$ 2,340 per acre @ 3.00% 70.20

Real Estate Taxes \$ 2,340 per acre @ 1.35% 31.59

**Total Cost per Acre Including Overhead** 835.98

**Cost per ton** 32.15

**Cash Cost per ton** 26.16

**65-Sugarbeet, Roundup Ready®, Panhandle, One Pass Zone-Tillage, 26 ton Yield, Pivot Irrigated Diesel**

**2019 Budget 65-Sugarbeet, Roundup Ready®, Panhandle, One Pass Zone-Tillage, 26 ton Yield  
Pivot Irrigated Diesel, 800 GPM 35 PSI, 16 acre/inches**

	Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
2	Spray Fertilizer	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
3	Spray Herbicide	Custom									
4	Till Plant Beets	1		3.67	3.94	0.55	4.89	7.34	2.32	22.71	
5	Row Crop Cultivation	1		2.00	0.91	0.78	0.44	2.45	1.52	8.10	
6	Spray Herbicide	Custom									
7	Pivot D 125' Lift	16	ai	11.11	85.01	5.49	25.82	7.34	14.17	148.94	
8	Spray Herbicide	Custom									
9	Aerial Spray	Custom									
10	Top Beets	1		3.45	1.73	1.49	3.32	4.66	1.99	16.64	
11	Lift Beets	1		3.67	2.95	0.55	13.70	7.34	5.07	33.28	
12	Truck	Custom									
13	Subsoil	1		2.22	2.62	0.36	1.62	4.89	6.04	17.75	
<b>Total for Field Operations</b>				29.14	99.64	9.87	51.25	39.14	34.28	263.32	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
				Rate	Unit			
10-34-0	Fertilizer	2	100%	13.4	gallon	2.45	32.83	
28-0-0	Fertilizer	2	100%	115	lbs N	0.44	50.98	
Spray	Custom	3, 6, and 8	300%	1	acre	7.00	21.00	
Glyphosate w/Surfactant	Herbicide	3	100%	36	ounce	0.12	4.22	
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/Surfactant	Herbicide	6	100%	36	ounce	0.12	4.22	
21-0-0-24S	Additive	6	100%	1.7	pound	0.35	0.60	
Glyphosate w/Surfactant	Herbicide	8	100%	36	ounce	0.12	4.22	
21-0-0-24S	Additive	8	100%	1.7	pound	0.35	0.60	
Aerial Spray	Custom	9	100%	1	acre	10.00	10.00	
Quadris	Fungicide	9	100%	7	ounce	1.80	12.58	
Haul Beets	Custom	12	100%	26	ton	5.00	130.00	
Scouting Sugar Beets	Scouting		100%	1	acre	26.00	26.00	
	Crop Insurance					27.00	27.00	
<b>Total Materials &amp; Services</b>							504.85	

<b>Total listed costs for Field Operations and Materials and Services</b>							768.17	
Interest on Operations Capital	\$ 694.75	cash expense @	5.50%	for 6.0 mo.			19.11	
<b>Total Operating and Use Related Ownership Costs</b>							787.28	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)							20.00	
Real Estate Opportunity	Pivot (Panhandle)	\$ 2,700	per acre @	3.00%			81.00	
Real Estate Taxes		\$ 2,700	per acre @	1.35%			36.45	
<b>Total Cost per Acre Including Overhead</b>							924.73	
<b>Cost per ton</b>							35.57	
<b>Cash Cost per ton</b>							28.86	

**66-Sugarbeet, Roundup Ready®, Panhandle, Conventional Tillage, 26 ton Yield, Pivot Irrigated Diesel**

**2019 Budget 66-Sugarbeet, Roundup Ready®, Panhandle, Conventional Tillage, 26 ton Yield  
Pivot Irrigated Diesel, 800 GPM 35 PSI, 16 acre/inches**

	Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
2	Spray Fertilizer	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
3	Plow	1		2.93	2.29	0.44	0.86	5.87	0.52	12.91	
4	Roller Harrow	1		2.00	1.43	0.86	0.52	2.70	1.52	9.03	
5	Plant	1		2.40	0.78	0.86	2.54	2.70	3.53	12.81	
6	Spray Herbicide	Custom									
7	Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
8	Pivot D 125' Lift	16	ai	11.11	85.01	5.49	25.82	7.34	14.17	148.94	
9	Spray Herbicide	Custom									
10	Aerial Spray	Custom									
11	Top Beets	1		3.45	1.73	1.49	3.32	4.66	1.99	16.64	
12	Lift Beets	1		3.67	2.95	0.55	13.70	7.34	5.07	33.28	
13	Truck	Custom									
14	Subsoil	1		2.22	2.62	0.36	1.62	4.89	6.04	17.75	
<b>Total for Field Operations</b>				32.27	100.85	11.28	51.17	42.42	37.52	275.51	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								10-34-0
28-0-0	Fertilizer	2	100%	115 lbs N	0.44	50.98		
Spray	Custom	6 & 9	200%	1 acre	7.00	14.00		
Glyphosate w/Surfactant	Herbicide	6	100%	36 ounce	0.12	4.22		
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/Surfactant	Herbicide	9	100%	36 ounce	0.12	4.22		
21-0-0-24S	Additive	9	100%	1.7 pound	0.35	0.60		
Aerial Spray	Custom	10	100%	1 acre	10.00	10.00		
Quadris	Fungicide	10	100%	7 ounce	1.80	12.58		
Haul Beets	Custom	13	100%	26 ton	5.00	130.00		
Scouting Sugar Beets	Scouting		100%	1 acre	16.00	16.00		
	Crop Insurance				27.00	27.00		
<b>Total Materials &amp; Services</b>							483.03	

<b>Total listed costs for Field Operations and Materials and Services</b>						758.54	
Interest on Operations Capital \$ 678.60	cash expense @	5.50%	for 6.0 mo.			18.66	
<b>Total Operating and Use Related Ownership Costs</b>						777.20	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Pivot (Panhandle)	\$ 2,700	per acre @	3.00%		81.00	
Real Estate Taxes		\$ 2,700	per acre @	1.35%		36.45	
<b>Total Cost per Acre Including Overhead</b>						914.65	
<b>Cost per ton</b>						35.18	
<b>Cash Cost per ton</b>						28.22	

67-Sunflower, Clearfield, Panhandle, No Till, Following Corn or Grain Sorghum, 13 cwt Yield, Dryland

2019 Budget 67-Sunflower, Clearfield, Panhandle, No Till, Following Corn or Grain Sorghum, 13 cwt Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Fertilizer and Herbicide	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
2 Spray Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
3 Plant No-Till	1		2.40	0.97	0.86	4.41	2.70	6.13	17.47	
4 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
5 Aerial Spray	Custom									
6 Combine Sunflowers	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
7 Truck	Custom									
<b>Total for Field Operations</b>			8.04	6.02	9.04	7.09	11.24	13.71	55.14	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60
Prowl H <sub>2</sub> O	Herbicide	1	100%	2 pint	6.50	13.00
28-0-0	Fertilizer	1	100%	50 lbs N	0.44	22.17
Spartan 4F	Herbicide	1	100%	5 ounce	2.11	10.55
Glyphosate w/Surfactant	Herbicide	2	50%	32 ounce	0.12	1.88
21-0-0-24S	Additive	2	50%	1.7 pound	0.35	0.30
Prowl H <sub>2</sub> O	Herbicide	2	50%	1 pint	6.50	3.25
Sunflower Clearfield	Seed	3	100%	20 k seed	1.44	28.80
Beyond	Herbicide	4	50%	4 ounce	4.77	9.53
NIS	Additive	4	50%	5 ounce	0.18	0.45
UAN	Additive	4	50%	3 pint	0.19	0.29
* Aerial Spray	Custom	5	50%	1 acre	10.00	5.00
* Warrior II/Zeon	Insecticide	5	50%	1.92 ounce	2.89	2.78
Haul Grain (Sunflower)	Custom	7	100%	13 cwt	0.30	3.90
	Crop Insurance				17.00	17.00
<b>Total Materials &amp; Services</b>						123.25

\*Insecticide for seed weevil and sunflower moth

<b>Total listed costs for Field Operations and Materials and Services</b>						178.39
Interest on Operations Capital \$ 153.44	cash expense @	5.50%	for 6.0 mo.			4.22
<b>Total Operating and Use Related Ownership Costs</b>						182.61
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00
Real Estate Opportunity	Dryland (Panhandle)	\$ 670	per acre @	3.00%		20.10
Real Estate Taxes		\$ 670	per acre @	1.35%		9.05
<b>Total Cost per Acre Including Overhead</b>						231.76
<b>Cost per cwt</b>						17.83
<b>Cash Cost per cwt</b>						12.82

**68-Sunflower, Clearfield, Panhandle, Ecofollow, after Wheat, Two Crops in Three Years, 16 cwt Yield, Dryland**

**2019 Budget 68-Sunflower, Clearfield, Panhandle, Ecofollow, after Wheat, Two Crops in Three Years, 16 cwt Yield Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Spray (Prior Year Stubble)	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
3 Spray Fertilizer and Herbicide	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
4 Spray Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
5 Plant No-Till	1		2.40	0.97	0.86	4.41	2.70	6.13	17.47	
6 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
7 Aerial Spray	Custom									
8 Combine Sunflowers	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
9 Truck	Custom									
<b>Total for Field Operations</b>			10.04	6.62	9.74	8.37	13.40	15.33	63.50	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Landmaster BW
21-0-0-24S	Additive	1	100%	2 pound	0.35	0.70		
Glyphosate w/Surfactant	Herbicide	2	100%	32 ounce	0.12	3.75		
21-0-0-24S	Additive	2	100%	1.7 pound	0.35	0.60		
Glyphosate w/Surfactant	Herbicide	3	100%	32 ounce	0.12	3.75		
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	0.44	26.60		
Spartan 4F	Herbicide	3	100%	5 ounce	2.11	10.55		
Glyphosate w/Surfactant	Herbicide	4	50%	32 ounce	0.12	1.88		
21-0-0-24S	Additive	4	50%	1.7 pound	0.35	0.30		
Prowl H <sub>2</sub> O	Herbicide	4	50%	1 pint	6.50	3.25		
Sunflower Clearfield	Seed	5	100%	5 k seed	1.44	7.20		
Beyond	Herbicide	6	50%	4 ounce	4.77	9.53		
NIS	Additive	6	50%	5 ounce	0.18	0.45		
UAN	Additive	6	50%	3 pint	0.19	0.29		
* Aerial Spray	Custom	7	50%	1 acre	10.00	5.00		
* Warrior II/Zeon	Insecticide	7	50%	1.92 ounce	2.89	2.78		
Haul Grain (Sunflower)	Custom	9	100%	16 cwt	0.30	4.80		
	Crop Insurance				17.00	17.00		
<b>Total Materials &amp; Services</b>							119.20	

\*Insecticide for seed weevil and sunflower moth

<b>Total listed costs for Field Operations and Materials and Services</b>						182.70	
Interest on Operations Capital \$ 153.97	cash expense @		5.50%	for 6.0 mo.		4.23	
<b>Total Operating and Use Related Ownership Costs</b>						186.93	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Dryland (Panhandle)	\$ 670	per acre @		3.00%	20.10	
Real Estate Taxes		\$ 670	per acre @		1.35%	9.05	
<b>Total Cost per Acre Including Overhead</b>						236.08	
<b>Cost per cwt</b>						14.76	
<b>Cash Cost per cwt</b>						10.45	

69-Sunflower, Clearfield, Panhandle, No Till, 30 cwt Yield, Pivot Irrigated

2019 Budget 69-Sunflower, Clearfield, Panhandle, No Till, 30 cwt Yield  
Pivot Irrigated, 800 GPM 35 PSI, 8 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Spray Fertilizer and Herbicide	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
3 Plant No-Till	1		2.40	0.97	0.86	4.41	2.70	6.13	17.47	
4 Spray Herbicide	Custom									
5 Aerial Spray	Custom									
6 Pivot E 125' Lift w/fertigation	8	ai	7.41	22.30	2.34	13.83	4.10	7.59	57.57	
7 Combine Sunflowers	1		3.14	4.30	7.31	1.53	5.84	4.33	26.45	
8 Truck	Custom									
<b>Total for Field Operations</b>			14.95	28.17	11.21	20.60	14.80	20.89	110.62	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							Glyphosate w/Surfactant
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	2.11	8.44	
28-0-0	Fertilizer	2	100%	100 lbs N	0.44	44.33	
Sunflower Clearfield	Seed	3	100%	3.5 k seed	1.44	5.04	
10-34-0	Fertilizer	3	100%	4 gallon	2.45	9.80	
Beyond	Herbicide	4	50%	4 ounce	4.77	9.53	
NIS	Additive	4	50%	5 ounce	0.18	0.45	
UAN	Additive	4	50%	3 pint	0.19	0.29	
* Aerial Spray	Custom	5	50%	1 acre	10.00	5.00	
* Warrior II/Zeon	Insecticide	5	50%	3.84 ounce	2.89	5.55	
Electricity Fixed	Other	6	100%	1 acre	30.00	30.00	
Haul Grain (Sunflower)	Custom	8	100%	30 cwt	0.30	9.00	
	Crop Insurance				10.00	10.00	
<b>Total Materials &amp; Services</b>						156.73	

\*Insecticide for seed weevil and sunflower moth

<b>Total listed costs for Field Operations and Materials and Services</b>						267.35
Interest on Operations Capital	\$ 231.66	cash expense @	5.50%	for 6.0 mo.		6.37
<b>Total Operating and Use Related Ownership Costs</b>						273.72
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00
Real Estate Opportunity	Pivot (Panhandle)	\$ 2,700	per acre @	3.00%		81.00
Real Estate Taxes		\$ 2,700	per acre @	1.35%		36.45
<b>Total Cost per Acre Including Overhead</b>						411.17
<b>Cost per cwt</b>						13.71
<b>Cash Cost per cwt</b>						9.15

70-Wheat, No Till, Wheat after Row Crop, 55 bu Yield, Dryland

2019 Budget 70-Wheat, No Till, Wheat after Row Crop, 55 bu Yield  
Dryland

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 No-Till Drill	1		1.83	1.45	0.72	1.57	2.25	3.21	11.03	
2 Spray Fertilizer and Herbicide	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
3 Aerial Spray	Custom									
4 Aerial Spray	Custom									
5 Combine Small Grain	1		3.14	4.28	7.31	0.94	5.84	2.65	24.16	
6 Truck	Custom									
<b>Total for Field Operations</b>			5.97	6.03	8.38	2.70	9.17	7.89	40.14	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
10-34-0	Fertilizer	1	100%	8 gallon	2.45	19.60
Wheat (Certified and Treated)	Seed	1	100%	90 pound	0.27	24.30
28-0-0	Fertilizer	2	100%	75 lbs N	0.44	33.25
Ally Extra SGW/TOTSOL	Herbicide	2	100%	0.3 ounce	9.00	2.70
2,4-D Ester LV4	Herbicide	2	100%	0.5 pint	2.13	1.06
NIS	Additive	2	100%	6 ounce	0.18	1.08
* Aerial Spray	Custom	3	25%	1 acre	10.00	2.50
* Quilt Xcel	Fungicide	3	25%	10.5 ounce	1.64	4.31
** Aerial Spray	Custom	4	15%	1 acre	10.00	1.50
** Warrior II/Zeon	Insecticide	4	15%	1.92 ounce	2.89	0.83
Haul Grain Bushels	Custom	5	100%	55 bushel	0.11	6.05
Scouting Dryland Wheat	Scouting		100%	1 acre	7.00	7.00
	Crop Insurance				10.00	10.00
<b>Total Materials &amp; Services</b>						114.18

\*Fungicide for rust

\*\*Insecticide for aphids and army cutworm

**Total listed costs for Field Operations and Materials and Services**

Interest on Operations Capital \$ 137.26 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 (Southwest) \$ 1,585 per acre @ 3.00%

Real Estate Taxes \$ 1,585 per acre @ 1.35%

**Total Cost per Acre Including Overhead**

Cost per bu

Cash Cost per bu

154.32

3.77

158.09

20.00

47.55

21.40

247.04

4.49

2.95



**71-Wheat, No Till, Fallow, One Crop in Two Years, 65 bu Yield, Dryland**

**2019 Budget 71-Wheat, No Till, Fallow, One Crop in Two Years, 65 bu Yield Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray (Prior Year Stubble)	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Spray (Prior Year Stubble)	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
3 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
4 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
5 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
6 No-Till Drill	1		1.83	1.45	0.72	1.57	2.25	3.21	11.03	
7 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
8 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
9 Aerial Spray	Custom									
10 Aerial Spray	Custom									
11 Combine Small Grain	1		3.14	4.28	7.31	0.94	5.84	2.65	24.16	
12 Truck	Custom									
<b>Total for Field Operations</b>			12.54	8.40	10.81	6.35	16.69	10.72	65.51	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60		
Glyphosate w/Surfactant	Herbicide	2	100%	32 ounce	0.12	3.75		
21-0-0-24S	Additive	2	100%	1.7 pound	0.35	0.60		
AAtrex 4L	Herbicide	2	100%	1 quart	4.50	4.50		
Glyphosate w/Surfactant	Herbicide	3	100%	32 ounce	0.12	3.75		
21-0-0-24S	Additive	3	100%	1.7 pound	0.35	0.60		
Glyphosate w/Surfactant	Herbicide	4	100%	32 ounce	0.12	3.75		
21-0-0-24S	Additive	4	100%	1.7 pound	0.35	0.60		
Glyphosate w/Surfactant	Herbicide	5	100%	32 ounce	0.12	3.75		
21-0-0-24S	Additive	5	100%	1.7 pound	0.35	0.60		
10-34-0	Fertilizer	6	100%	8 gallon	2.45	19.60		
Wheat (Certified and Treated)	Seed	6	100%	60 pound	0.27	16.20		
46-0-0	Fertilizer	7	100%	70 lbs N	0.42	29.40		
Ally Extra SGW/TOTSOL	Herbicide	8	100%	0.3 ounce	9.00	2.70		
2,4-D Ester LV4	Herbicide	8	100%	0.5 pint	2.13	1.06		
NIS	Additive	8	100%	6 ounce	0.18	1.08		
* Aerial Spray	Custom	9	25%	1 acre	10.00	2.50		
* Quilt Xcel	Fungicide	9	25%	10.5 ounce	1.64	4.31		
** Aerial Spray	Custom	10	15%	1 acre	10.00	1.50		
** Warrior II/Zeon	Insecticide	10	15%	1.92 ounce	2.89	0.83		
Haul Grain Bushels	Custom	12	100%	65 bushel	0.11	7.15		
Scouting Dryland Wheat	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				8.00	8.00		
<b>Total Materials &amp; Services</b>							127.58	

\*Fungicide for rust

\*\*Insecticide for aphids and army cutworm

**Total listed costs for Field Operations and Materials and Services** 193.09

Interest on Operations Capital \$ 165.68 cash expense @ 5.50% for 6.0 mo. 4.56

**Total Operating and Use Related Ownership Costs** 197.65

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

Real Estate Opportunity Dryland (Panhandle) \$ 1,340 per acre @ 3.00% 80.40

Real Estate Taxes \$ 1,340 per acre @ 1.35% 36.18

**Total Cost per Acre Including Overhead** 334.23

**Cost per bu** 5.14

**Cash Cost per bu** 3.18

72-Wheat, Stubble Mulch Fallow, One Crop in Two Years, 60 bu Yield, Dryland

2019 Budget 72-Wheat, Stubble Mulch Fallow, One Crop in Two Years, 60 bu Yield  
Dryland

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Sweep Plow	1		1.76	1.98	0.26	0.96	3.52	1.51	9.99	
2 Sweep Plow	1		1.76	1.98	0.26	0.96	3.52	1.51	9.99	
3 Sweep Plow	1		1.76	1.98	0.26	0.96	3.52	1.51	9.99	
4 Rod Weeder	1		1.52	1.16	0.65	0.23	2.04	0.91	6.51	
5 Rod Weeder	1		1.52	1.16	0.65	0.23	2.04	0.91	6.51	
6 Drill	1		1.76	1.14	0.69	2.94	2.16	2.35	11.04	
7 Spray Fertilizer	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
8 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
9 Aerial Spray	Custom									
10 Aerial Spray	Custom									
11 Combine Small Grain	1		3.14	4.28	7.31	0.94	5.84	2.65	24.16	
12 Truck	Custom									
<b>Total for Field Operations</b>			15.22	14.28	10.78	8.05	24.80	14.19	87.32	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							10-34-0
Wheat (Certified and Treated)	Seed	6	100%	55 pound	0.27	14.85	
28-0-0	Fertilizer	7	100%	65 lbs N	0.44	28.82	
2,4-D Ester LV4	Herbicide	8	100%	0.5 pint	2.13	1.06	
Ally Extra SGW/TOTSOL	Herbicide	8	100%	0.3 ounce	9.00	2.70	
NIS	Additive	8	100%	6 ounce	0.18	1.08	
* Aerial Spray	Custom	9	25%	1 acre	10.00	2.50	
* Quilt Xcel	Fungicide	9	25%	10.5 ounce	1.64	4.31	
** Aerial Spray	Custom	10	15%	1 acre	10.00	1.50	
** Warrior II/Zeon	Insecticide	10	15%	1.92 ounce	2.89	0.83	
Haul Grain Bushels	Custom	12	100%	60 bushel	0.11	6.60	
Scouting Dryland Wheat	Scouting		100%	1 acre	7.00	7.00	
	Crop Insurance				8.00	8.00	
<b>Total Materials &amp; Services</b>						98.85	

\*Fungicide for rust

\*\*Insecticide for aphids and army cutworm

<b>Total listed costs for Field Operations and Materials and Services</b>		186.17
Interest on Operations Capital \$ 147.18	cash expense @ 5.50% for 6.0 mo.	4.05

<b>Total Operating and Use Related Ownership Costs</b>		190.22
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<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)		20.00
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Real Estate Opportunity	Dryland (Panhandle)	\$ 1,340	per acre @ 3.00%	80.40
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Real Estate Taxes		\$ 1,340	per acre @ 1.35%	36.18
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<b>Total Cost per Acre Including Overhead</b>		326.80
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<b>Cost per bu</b>		5.45
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<b>Cash Cost per bu</b>		3.12
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**73-Wheat, Conventional Tillage, One Crop in Two Years, 55 bu Yield, Dryland**

**2019 Budget 73-Wheat, Conventional Tillage, One Crop in Two Years, 55 bu Yield Dryland**

	Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
2	Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
3	Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
4	Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
5	Rod Weeder	1		1.52	1.16	0.65	0.23	2.04	0.91	6.51	
6	Rod Weeder & Fertilizer	1		1.82	1.16	0.65	0.23	2.04	0.91	6.81	
7	Drill	1		1.76	1.14	0.69	2.94	2.16	2.35	11.04	
8	Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
9	Aerial Spray	Custom									
10	Aerial Spray	Custom									
11	Combine Small Grain	1		3.14	4.28	7.31	0.94	5.84	2.65	24.16	
12	Truck	Custom									
<b>Total for Field Operations</b>				15.67	14.90	11.69	10.24	22.60	13.30	88.40	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
10-34-0	Fertilizer	7	100%	8 gallon	2.45	19.60	
Wheat (Certified and Treated)	Seed	7	100%	50 pound	0.27	13.50	
2,4-D Ester LV4	Herbicide	8	100%	0.5 pint	2.13	1.06	
Ally Extra SGW/TOTSOL	Herbicide	8	100%	0.3 ounce	9.00	2.70	
NIS	Additive	8	100%	6 ounce	0.18	1.08	
* Aerial Spray	Custom	9	25%	1 acre	10.00	2.50	
* Quilt Xcel	Fungicide	9	25%	10.5 ounce	1.64	4.31	
** Aerial Spray	Custom	10	15%	1 acre	10.00	1.50	
** Warrior II/Zeon	Insecticide	10	15%	1.92 ounce	2.89	0.83	
Haul Grain Bushels	Custom	12	100%	55 bushel	0.11	6.05	
Scouting Dryland Wheat	Scouting		100%	1 acre	7.00	7.00	
	Crop Insurance				8.00	8.00	
<b>Total Materials &amp; Services</b>						89.13	

\*Fungicide for rust

\*\*Insecticide for aphids and army cutworm

**Total listed costs for Field Operations and Materials and Services**

Interest on Operations Capital \$ 141.63 cash expense @ 5.50% for 6.0 mo.

177.53

3.89

**Total Operating and Use Related Ownership Costs**

181.42

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

20.00

Real Estate Opportunity Dryland (Panhandle) \$ 1,340 per acre @ 3.00%

80.40

Real Estate Taxes \$ 1,340 per acre @ 1.35%

36.18

**Total Cost per Acre Including Overhead**

318.00

**Cost per bu**

5.78

**Cash Cost per bu**

3.30

74-Wheat, No Till, Wheat before Corn, Two Crops in Three Years, 75 bu Yield, Dryland

2019 Budget 74-Wheat, No Till, Wheat before Corn, Two Crops in Three Years, 75 bu Yield  
Dryland

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
3 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
4 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
5 No-Till Drill	1		1.83	1.45	0.72	1.57	2.25	3.21	11.03	
6 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
7 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
8 Aerial Spray	Custom									
9 Aerial Spray	Custom									
10 Combine Small Grain	1		3.14	4.28	7.31	0.94	5.84	2.65	24.16	
11 Truck	Custom									
<b>Total for Field Operations</b>			11.54	8.10	10.46	5.71	15.61	9.91	61.33	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60		
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.13	2.13		
Glyphosate w/Surfactant	Herbicide	2	100%	32 ounce	0.12	3.75		
21-0-0-24S	Additive	2	100%	1.7 pound	0.35	0.60		
2,4-D Ester LV4	Herbicide	2	100%	1 pint	2.13	2.13		
Glyphosate w/Surfactant	Herbicide	3	100%	32 ounce	0.12	3.75		
21-0-0-24S	Additive	3	100%	1.7 pound	0.35	0.60		
2,4-D Ester LV4	Herbicide	3	100%	1 pint	2.13	2.13		
Glyphosate w/Surfactant	Herbicide	4	100%	32 ounce	0.12	3.75		
21-0-0-24S	Additive	4	100%	1.7 pound	0.35	0.60		
10-34-0	Fertilizer	5	100%	8 gallon	2.45	19.60		
Wheat (Certified and Treated)	Seed	5	100%	60 pound	0.27	16.20		
46-0-0	Fertilizer	6	100%	120 lbs N	0.42	50.40		
Ally Extra SGW/TOTSOL	Herbicide	7	100%	0.3 ounce	9.00	2.70		
NIS	Additive	7	100%	6 ounce	0.18	1.08		
2,4-D Ester LV4	Herbicide	7	100%	0.5 pint	2.13	1.06		
* Aerial Spray	Custom	8	25%	1 acre	10.00	2.50		
* Quilt Xcel	Fungicide	8	25%	10.5 ounce	1.64	4.31		
** Aerial Spray	Custom	9	15%	1 acre	10.00	1.50		
** Warrior II/Zeon	Insecticide	9	15%	1.92 ounce	2.89	0.83		
Haul Grain Bushels	Custom	11	100%	75 bushel	0.11	8.25		
Scouting Dryland Wheat	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				8.00	8.00		
<b>Total Materials &amp; Services</b>							147.22	

\*Fungicide for rust

\*\*Insecticide for aphids and army cutworm

**Total listed costs for Field Operations and Materials and Services**

Interest on Operations Capital \$ 183.03 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 (Southwest) \$ 1,585 per acre @ 3.00%  
Real Estate Taxes \$ 1,585 per acre @ 1.35%

**Total Cost per Acre Including Overhead**

**Cost per bu**

**Cash Cost per bu**

208.55

5.03

213.58

20.00

71.33

32.10

337.01

4.49

2.94

75-Wheat, No Till, after Dry Beans, 100 bu Yield, Pivot Irrigated Diesel

2019 Budget 75-Wheat, No Till, after Dry Beans, 100 bu Yield  
Pivot Irrigated Diesel, 800 GPM 35 PSI, 6 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 No-Till Drill	1		1.83	1.45	0.72	1.57	2.25	3.21	11.03	
2 Pivot D 125' Lift	6	ai	4.17	31.88	2.06	9.68	2.75	5.32	55.86	
3 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
4 Aerial Spray	Custom									
5 Aerial Spray	Custom									
6 Combine Small Grain	1		3.14	4.28	7.31	0.94	5.84	2.65	24.16	
7 Truck	Custom									
<b>Total for Field Operations</b>			10.14	37.91	10.44	12.83	11.92	11.99	95.23	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
10-34-0	Fertilizer	1	100%	8 gallon	2.45	19.60
Wheat (Certified and Treated)	Seed	1	100%	120 pound	0.27	32.40
28-0-0	Fertilizer	2	100%	120 lbs N	0.44	53.20
2,4-D Ester LV4	Herbicide	3	100%	0.5 pint	2.13	1.06
Ally Extra SGW/TOTSOL	Herbicide	3	100%	0.3 ounce	9.00	2.70
NIS	Additive	3	100%	6 ounce	0.18	1.08
* Aerial Spray	Custom	4	100%	1 acre	10.00	10.00
* Provaro 421 SC	Fungicide	4	100%	7 ounce	2.66	18.59
** Aerial Spray	Custom	5	15%	1 acre	10.00	1.50
** Mustang Maxx	Insecticide	5	10%	3 ounce	1.41	0.42
** Warrior II/Zeon	Insecticide	5	5%	1.92 ounce	2.89	0.28
Haul Grain Bushels	Custom	7	100%	100 bushel	0.11	11.00
Scouting Irrigated Wheat	Scouting		100%	1 acre	9.00	9.00
	Crop Insurance				6.00	6.00
<b>Total Materials &amp; Services</b>					166.83	

\*Fungicide for rust

\*\*Insecticide for aphids and army cutworm

<b>Total listed costs for Field Operations and Materials and Services</b>					262.06	
Interest on Operations Capital \$ 238.15	cash expense @	5.50%	for 6.0 mo.		6.55	
<b>Total Operating and Use Related Ownership Costs</b>					268.61	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)					20.00	
Real Estate Opportunity	Pivot (Panhandle)	\$ 2,700	per acre @	3.00%	81.00	
Real Estate Taxes		\$ 2,700	per acre @	1.35%	36.45	
<b>Total Cost per Acre Including Overhead</b>					406.06	
<b>Cost per bu</b>					4.06	
<b>Cash Cost per bu</b>					2.81	

76-Wheat, No Till, in Rotation, 85 bu Yield, Pivot Irrigated Electric

2019 Budget 76-Wheat, No Till, in Rotation, 85 bu Yield  
Pivot Irrigated Electric, 800 GPM 35 PSI, 6 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 No-Till Drill	1		1.83	1.45	0.72	1.57	2.25	3.21	11.03	
3 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
4 Pivot E 125' Lift w/fertigation	6	ai	5.56	16.72	1.76	10.38	3.07	5.70	43.19	
5 Aerial Spray		Custom								
6 Aerial Spray		Custom								
7 Combine Small Grain	1		3.14	4.28	7.31	0.94	5.84	2.65	24.16	
8 Truck		Custom								
<b>Total for Field Operations</b>			12.53	23.05	10.49	14.17	13.32	13.18	86.74	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Sharpen	Herbicide	1	100%	2 ounce	6.80	13.59
21-0-0-24S	Additive	2	100%	1.7 pound	0.35	0.60
MSO	Additive	2	100%	16 ounce	0.17	2.69
Wheat (Certified and Treated)	Seed	2	100%	120 pound	0.27	32.40
11-52-0	Fertilizer	2	100%	40 pound	0.27	10.80
2,4-D Ester LV4	Herbicide	3	100%	0.5 pint	2.13	1.06
Ally Extra SGW/TOTSOL	Herbicide	3	100%	0.3 ounce	9.00	2.70
NIS	Additive	3	100%	6 ounce	0.18	1.08
32-0-0 (Applied by Pivot)	Fertilizer	4	100%	115 lbs N	0.42	48.30
Electricity Fixed	Other	4	100%	1 acre	30.00	30.00
* Aerial Spray	Custom	5	100%	1 acre	10.00	10.00
* Prosaro 421 SC	Fungicide	5	100%	7 ounce	2.66	18.59
** Aerial Spray	Custom	6	15%	1 acre	10.00	1.50
** Mustang Maxx	Insecticide	6	10%	3 ounce	1.41	0.42
** Warrior II/Zeon	Insecticide	6	5%	1.92 ounce	2.89	0.28
Scouting Irrigated Wheat	Scouting		100%	1 acre	9.00	9.00
Haul Grain Bushels	Custom	8	100%	85 bushel	0.11	9.35
	Crop Insurance				6.00	6.00
<b>Total Materials &amp; Services</b>						202.11

\*Fungicide for rust

\*\*Insecticide for aphids and army cutworm

**Total listed costs for Field Operations and Materials and Services**

288.85

Interest on Operations Capital \$ 262.35 cash expense @ 5.50% for 6.0 mo.

7.21

**Total Operating and Use Related Ownership Costs**

296.06

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

20.00

Real Estate Opportunity Pivot (Panhandle) \$ 2,700

per acre @ 3.00%

81.00

Real Estate Taxes \$ 2,700

per acre @ 1.35%

36.45

**Total Cost per Acre Including Overhead**

433.51

**Cost per bu**

5.10

**Cash Cost per bu**

3.60

77-Cover Crop, Conventional Tillage

2019 Budget 77-Cover Crop, Conventional Tillage

Field Operations		Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	1		2.02	2.18	0.30	1.27	4.04	1.14	10.95	
2	Broadcast Seed	Custom									
3	Field Cultivation	1		1.47	1.56	0.58	1.33	1.80	1.51	8.25	
<b>Total for Field Operations</b>				3.49	3.74	0.88	2.60	5.84	2.65	19.20	
Materials & Services					Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price		Total	Your Estimate
	Cover Crop	Seed			2	100%	1 acre	15.00		15.00	
	Broadcast Seed	Custom			2	100%	1 acre	5.00		5.00	
<b>Total Materials &amp; Services</b>										20.00	
<b>Total listed costs for Field Operations and Materials and Services</b>										39.20	
Interest on Operations Capital \$ 30.71 cash expense @ 5.50% for 6.0 mo.										0.84	
<b>Total Operating and Use Related Ownership Costs</b>										40.04	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)										0.00	
	Real Estate Opportunity			\$	-	per acre @	3.00%			0.00	
	Real Estate Taxes			\$	-	per acre @	1.35%			0.00	
<b>Total Cost per Acre Including Overhead</b>										40.04	

78-Cover Crop, No Till

2019 Budget 78-Cover Crop, No Till

Field Operations		Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.49 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	No-Till Drill	1		1.83	1.45	0.72	1.57	2.25	3.21	11.03	
2	Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
<b>Total for Field Operations</b>				2.83	1.75	1.07	2.21	3.33	4.02	15.21	
Materials & Services					Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
	Cover Crop		Seed		1	100%	1 acre	15.00	15.00		
*	2,4-D Ester LV4		Herbicide		2	100%	1 pint	2.13	2.13		
	Glyphosate w/Surfactant		Herbicide		2	100%	32 ounce	0.12	3.75		
<b>Total Materials &amp; Services</b>									20.88		
* Cannot use with some cover crops.											
<b>Total listed costs for Field Operations and Materials and Services</b>									36.09		
Interest on Operations Capital \$ 28.74 cash expense @ 5.50% for 6.0 mo.									0.79		
<b>Total Operating and Use Related Ownership Costs</b>									36.88		
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)										0.00	
Real Estate Opportunity					\$ -		per acre @	3.00%	0.00		
Real Estate Taxes					\$ -		per acre @	1.35%	0.00		
<b>Total Cost per Acre Including Overhead</b>									36.88		