

2018 Nebraska Crop Budgets

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

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2018 Crop Budgeting Procedures

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

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

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

Budget Divisions

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

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

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

Fuel costs also use machinery accomplishment rates as well as estimated fuel consumption rates to determine fuel use. The fuel cost is multiplied by a lube factor of 1.15 and the price of energy which is \$2.25 per gallon for diesel and \$0.105 per kWh for

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

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

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

The **list of materials and services** used is calculated by multiplying the application rate by the application price (*Table 3*) and then by the percent acres applied. A value less than 100 percent is used when a material or service is applied on only part of the acres or part of the time. For example, fields planted with Bt corn seed must have 20 percent of the acres planted to a refuge crop. There would be 20 percent in the column called “Percent Acres Applied” for the non-Bt seed and 80 percent for the Bt seed. Another example is when a practice is not always used. If an insecticide is used one year out of four, a “25 percent” would be entered in the column “Percent Acres Applied.” The cost for each material/service is computed by multiplying the percentage of acres by the quantity per acre and then by the price per unit. Note: All prices for materials and services in the budgets were obtained in October 2017.

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

The **operations and interest** tabulations are

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

Overhead costs include accounting, liability insurance, vehicle cost, and office expense. Real estate cost is calculated using values from the UNL publication *Nebraska Farm Real Estate Market Developments* published in June 2017 times an investment rate of 4 percent. Taxes on real estate are not included in interest calculations because in Nebraska they are due at the end of the year in which they accrue and are not delinquent until May and September of the following year.

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

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

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 root worm 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 per acre when nitrogen costs forty cents a pound.

The above benefits amount to \$63 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 P₂O₅ needed for a 60 bushel per acre soybean crop would be approximately \$18 per acre.

Table 1. Power Unit Cost Data Used for 2018 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 2018 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 SB	32,435	5	1,000	acre	7	10.50
Combine Dryland SG	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 SB	32,435	5	1,000	acre	6	10.50
Combine Irr SG	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
Fallow Master	59,791	5	2,000	acre	13	8.62
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 D 125' Lift	N/A	10	2,600	acre-inch	2	3.03
Irrigation Pivot D 125' Lift	70,000	10	2,600	acre-inch	2	3.34
Irrigation Pivot D 125' Lift w/fertigation	75,000	10	2,600	acre-inch	2	3.34
Irrigation Pivot E 125' Lift	70,000	10	2,600	acre-inch	2	
Irrigation Pivot E 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
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 2018 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
Stack Small Square	13,000	5	1,250	ton	10	2.00
Subsoil	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 2018 Budgets

<i>Item</i>	<i>Price per Unit</i>
Additive	
21-0-0-24S	\$0.28/pound
Approved adjuvant	\$2.50/acre
Crop Oil Concentrate	\$8.30/gallon
MSO	\$20.00/gallon
NIS	\$11.00/gallon
UAN	\$1.30/gallon
Custom	
Aerial Spray	\$10.00/acre
Bale Lg Sq 1360 lb	\$15.00/bale
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>
Fertilizer	
10-34-0	\$2.30/gallon
10-34-0-1Zn	\$2.35/gallon
11-52-0	\$0.24/pound
28-0-0	\$1.10/gallon
32-0-0	\$0.32/lbs N
32-0-0 (Applied by Pivot)	\$0.32/lbs N
32-0-0 (Applied by R2)	\$0.32/lbs N
46-0-0	\$0.36/lb N
82-0-0	\$0.26/lb N
Uncomposted manure	\$1.00/ton

Fungicide	
Copper	\$3.50/pint
Headline AMP	\$330.00/gallon
Pea Seed Inoculant	\$8.00/pound
Priaxor	\$700.00/gallon
Quadris	\$300.00/gallon
Quilt Xcel	\$210.00/gallon
Stratego YLD	\$570.00/gallon
Tilt	\$100.00/gallon

Table 3. Material Prices Used for 2018 Budgets (Continued)

<i>Item</i>	<i>Price per Unit</i>
Herbicide	
2,4-D Amine	\$13.00/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	\$14.00/gallon
Atrazine 90 DF	\$3.80/pound
Authority First DF	\$90.00/pound
Balance Flexx	\$5.00/ounce
Basagran	\$80.00/gallon
Beyond	\$610.00/gallon
Bicep II Magnum	\$45.00/gallon
Brox 2EC	\$34.00/gallon
Dicamba	\$44.00/gallon
DiFlexx	\$220.00/gallon
Distinct	\$40.00/gallon
Engenia	\$120.00/gallon
FeXapan	\$70.00/gallon
Glyphosate w/Surfactant	\$15.00/gallon
Gramoxone SL	\$20.00/gallon
Huskie	\$120.00/gallon
Landmaster BW	\$17.00/gallon
Laudis	\$800.00/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	\$32.00/gallon
Rugged	\$40.00/gallon
Select Max	\$110.00/gallon
Sharpen	\$870.00/gallon
Spartan 4F	\$270.00/gallon
Spirit	\$12.00/ounce
Status	\$4.30/ounce
Valor XLT	\$92.00/pound
Velpar 75DF	\$40.00/pound
Vida	\$520.00/gallon

<i>Item</i>	<i>Price per Unit</i>
Insecticide	
Asana XL	\$70.00/gallon
Brigade 2EC	\$90.00/gallon
Capture LFR	\$300.00/gallon
Lorsban 15 G	\$2.65/pound
Lorsban 4 E	\$55.00/gallon
Lorsban Advanced	\$55.00/gallon
Mustang Max EC	\$180.00/gallon
Regent 4 SC	\$9.70/ounce
Warrior II/Zeon	\$370.00/gallon

Other	
Electricity Fixed	\$30.00/acre
Electricity Usage	\$0.11/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

Rental	
Grass Drill	\$15.00/acre
Seeder/Packer	\$13.00/acre

Scouting	
Scouting Dry Beans	\$10.00/acre
Scouting Dryland Corn	\$7.00/acre
Scouting Dryland Soybeans	\$7.00/acre
Scouting Dryland Wheat	\$7.00/acre
Scouting Grain Sorghum	\$7.00/acre
Scouting Irrigated Corn	\$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 2018 Budgets (Continued)

<i>Item</i>	<i>Price per Unit</i>
Seed	
Alfalfa RR w/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	\$0.45/pound
Oats	\$11.00/bushel

<i>Item</i>	<i>Price per Unit</i>
Seed	
Peas	\$18.00/bushel
RR2 Soybeans	\$50.00/bag
RR2 Soybeans Treated	\$62.00/bag
RR2 Soybeans Xtend	\$65.00/bag
RR2 Soybeans Xtend Treated	\$77.00/bag
Sorghum Safened/Insect	\$3.00/pound
Sorghum Sudan	\$0.90/pound
Sorghum Sudan (Treated)	\$1.10/pound
Sorghum Sudan Brown (Treated)	\$1.40/pound
Sorghum Sudan Brown Midrib	\$1.20/pound
Sugar Beets RR Poncho	\$180.00/acre
Sunflower Clearfield	\$360.00/bag
Wheat	\$0.10/pound
Wheat (Certified and Treated)	\$0.23/pound

Converting Energy Numbers in Budgets

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

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

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

Diesel Fuel Conversion for Center Pivots

The 2018 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.

**2018 Budget 1-Alfalfa, Conventional Tillage, Fall Establishment
Dryland**

Field Operations		Times or Qty	Labor @ Unit \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	Spread Fertilizer	1	1.57	0.86	0.68	0.64	2.12	1.51	7.38	_____
2	Disk	1	2.02	2.14	0.30	1.27	4.04	1.14	10.91	_____
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	Roll	1	2.22	1.71	0.96	0.00	3.00	0.00	7.89	_____
6	Drill	1	1.76	1.12	0.69	2.94	2.16	2.35	11.02	_____
7	Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06	_____
8	Spray Insecticide	0.2	0.20	0.06	0.07	0.13	0.22	0.16	0.84	_____
Total for Field Operations			11.13	6.81	3.97	5.27	15.52	5.20	47.90	_____

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
11-52-0	Fertilizer	1	100%	100 pound	0.24	24.00	_____
	Alfalfa w/Inoculant Seed	6	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	1.04	1.66	_____
	UAN Additive	7	100%	2 pint	0.16	0.33	_____
	Lorsban Advanced Insecticide	8	20%	1 pint	6.88	1.38	_____
Total Materials & Services						110.62	_____

Total listed costs for Field Operations and Materials and Services 158.52 _____
 Interest on Operations Capital \$ 137.80 cash expense @ 5.50% for 6.0 mo. 3.79 _____

Total Operating and Use Related Ownership Costs 162.31 _____

Overhead (accounting, liability insurance, vehicle cost, office expense) 20.00 _____
 Real Estate Opportunity \$ - per acre @ 3.00% 0.00 _____
 Real Estate Taxes \$ - per acre @ 1.00% 0.00 _____
Total Cost per Acre Including Overhead 182.31 _____

**2018 Budget 2-Alfalfa, Roundup Ready®, No Till, Fall Establishment
Dryland**

Field Operations	Times or Qty	Labor @ Unit	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
				Power	Imp.	Power	Imp.		
1 Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06	_____
2 Drill w/ Fertilizer	1	2.18	1.28	0.78	3.85	2.45	2.35	12.89	_____
3 Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06	_____
4 Spray Insecticide	0.2	0.20	0.06	0.07	0.13	0.22	0.16	0.84	_____
Total for Field Operations		4.38	1.94	1.55	4.56	4.83	2.59	19.85	_____

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
11-52-0	Fertilizer	2	100%	100 pound	0.24	24.00	_____
Alfalfa RR w/Inoculant	Seed	2	100%	12 pound	9.00	108.00	_____
Roundup WeatherMax	Herbicide	3	100%	44 ounce	0.25	11.00	_____
21-0-0-24S	Additive	3	100%	1.7 pound	0.28	0.48	_____
Lorsban Advanced	Insecticide	4	20%	1 pint	6.88	1.38	_____
Total Materials & Services						149.86	_____

Total listed costs for Field Operations and Materials and Services							169.71	_____
Interest on Operations Capital \$ 162.29 cash expense @ 5.50% for 6.0 mo.							4.46	_____
Total Operating and Use Related Ownership Costs							174.17	_____
Overhead (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 @	1.00%	0.00	_____	
Total Cost per Acre Including Overhead							194.17	_____

**2018 Budget 3-Alfalfa, Roundup Ready®, Conventional Tillage, Fall Establishment
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.86	0.68	0.64	2.12	1.51	7.38	
2 Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
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 Roll	1		2.22	1.71	0.96	0.00	3.00	0.00	7.89	
6 Drill	1		1.76	1.12	0.69	2.94	2.16	2.35	11.02	
7 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
8 Spray Insecticide	0.2		0.20	0.06	0.07	0.13	0.22	0.16	0.84	
Total for Field Operations			11.13	6.81	3.97	5.27	15.52	5.20	47.90	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Alfalfa RR w/Inoculant	Seed	6	100%	12 pound	9.00	108.00	
Roundup WeatherMax	Herbicide	7	100%	44 ounce	0.25	11.00	
21-0-0-24S	Additive	7	100%	1.7 pound	0.28	0.48	
Lorsban Advanced	Insecticide	8	20%	1 pint	6.88	1.38	

Total Materials & Services 144.86

Total listed costs for Field Operations and Materials and Services

192.76

Interest on Operations Capital \$ 172.04 cash expense @ 5.50% for 6.0 mo.

4.73

Total Operating and Use Related Ownership Costs

197.49

Overhead (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 @

1.00%

0.00

Total Cost per Acre Including Overhead

217.49

**2018 Budget 4-Alfalfa, Small Square Bales, Conventional Tillage, Establish Spring Seed with Herbicides (2.8 ton Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.86	0.68	0.64	2.12	1.51	7.38	
2 Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
3 Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
4 Seeder/Packer	1		3.00	1.51	1.08	3.48	3.37	3.03	15.47	
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	0.29	1.08	0.04	3.06	
7 Swath/Condition Hay	2		4.00	2.82	4.62	0.70	6.66	16.70	35.50	
8 Turn Windrows	0.5		0.83	0.25	0.36	0.00	1.12	0.00	2.56	
9 Bale Small Square	2.80	ton	15.40	6.90	6.04	10.97	18.87	2.54	60.72	
10 Stack Small Square	2.80	ton	5.60	1.58	2.42	0.00	7.55	0.00	17.15	
Total for Field Operations			35.09	17.96	16.50	18.81	46.83	26.63	161.82	

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	
Lorsban Advanced	Insecticide	5	20%	1 pint	6.88	1.38	
Brox 2EC	Herbicide	6	100%	0.5 pint	4.25	2.13	
Pursuit	Herbicide	6	100%	3 ounce	3.75	11.25	
Twine Small Square	Other	9	100%	2.8 ton	2.33	6.53	
Total Materials & Services						130.29	

Total listed costs for Field Operations and Materials and Services						292.11	
Interest on Operations Capital \$ 218.65 cash expense @ 5.50% for 6.0 mo.						6.01	
Total Operating and Use Related Ownership Costs						298.12	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Dryland (State)	\$ 3,145	per acre @	3.00%	94.35		
Real Estate Taxes		\$ 3,145	per acre @	1.00%	31.45		
Total Cost per Acre Including Overhead						443.92	
Cost per ton						158.54	
Cash Cost per ton						80.24	

**2018 Budget 5-Alfalfa, Roundup Ready®, Small Square Bales, Conventional Tillage, Establish Spring Seed (2.8 ton Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.86	0.68	0.64	2.12	1.51	7.38	
2 Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
3 Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
4 Seeder/Packer	1		3.00	1.51	1.08	3.48	3.37	3.03	15.47	
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	0.29	1.08	0.04	3.06	
7 Swath/Condition Hay	2		4.00	2.82	4.62	0.70	6.66	16.70	35.50	
8 Turn Windrows	0.5		0.83	0.25	0.36	0.00	1.12	0.00	2.56	
9 Bale Small Square	2.80	ton	15.40	6.90	6.04	10.97	18.87	2.54	60.72	
10 Stack Small Square	2.80	ton	5.60	1.58	2.42	0.00	7.55	0.00	17.15	
Total for Field Operations			35.09	17.96	16.50	18.81	46.83	26.63	161.82	

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	
Lorsban Advanced	Insecticide	5	20%	1 pint	6.88	1.38	
Roundup WeatherMax	Herbicide	6	100%	44 ounce	0.25	11.00	
21-0-0-24S	Additive	6	100%	1.70 pound	0.28	0.48	
Twine Small Square	Other	9	100%	2.80 ton	2.33	6.53	
Total Materials & Services						164.39	

Total listed costs for Field Operations and Materials and Services 326.21

Interest on Operations Capital \$ 252.75 cash expense @ 5.50% for 6.0 mo. 6.95

Total Operating and Use Related Ownership Costs 333.16

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

Real Estate Opportunity \$ 3,145 per acre @ 3.00% 94.35

Real Estate Taxes \$ 3,145 per acre @ 1.00% 31.45

Total Cost per Acre Including Overhead 478.96

Cost per ton 171.06

Cash Cost per ton 92.75

2018 Budget 6-Alfalfa, Large Square Bales, Conventional Tillage, Establish Spring Seed with Herbicides (3.8 ton Actual Yield)

Pivot Irrigated, 800 GPM 35 PSI, 12 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.86	0.68	0.64	2.12	1.51	7.38	
2 Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
3 Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
4 Seeder/Packer	1		3.00	1.51	1.08	3.48	3.37	3.03	15.47	
5 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
6 Pivot D 125' Lift	12	ai	8.33	62.74	4.12	19.37	5.51	10.63	110.70	
7 Swath/Condition Hay	2		4.00	2.82	4.62	0.70	6.66	16.70	35.50	
8 Turn Windrows	0.5		0.83	0.25	0.36	0.00	1.12	0.00	2.56	
9 Large Square Bale	3.80	ton	5.23	4.14	2.05	2.19	6.40	21.15	41.16	
10 Load Large Square	3.80	ton	4.18	2.14	1.64	0.18	5.12	0.21	13.47	
11 Spray Insecticide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
Total for Field Operations			32.13	78.59	15.95	29.77	37.76	56.33	250.53	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
11-52-0	Fertilizer	1	100%	100 pound	0.24	24.00
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	4.25	2.13
Pursuit	Herbicide	5	100%	3 ounce	3.75	11.25
Twine Large Square	Other	10-Sep	100%	3.80 ton	1.81	6.86
Lorsban Advanced	Insecticide	11	50%	1 pint	6.88	3.44
Total Materials & Services					132.68	

Total listed costs for Field Operations and Materials and Services					383.21	
Interest on Operations Capital	\$ 289.12	cash expense @	5.50%	for 6.0 mo.	7.95	
Total Operating and Use Related Ownership Costs					391.16	
Overhead (accounting, liability insurance, vehicle cost, office expense)					20.00	
Real Estate Opportunity	Pivot (State)	\$ 6,295	per acre @	3.00%	188.85	
Real Estate Taxes		\$ 6,295	per acre @	1.00%	62.95	
Total Cost per Acre Including Overhead					662.96	
Cost per ton					174.46	
Cash Cost per ton					78.18	

2018 Budget 7-Alfalfa, Roundup Ready®, Large Square Bales, Conventional Tillage, Establish Spring Seed (4 ton Actual Yield)

Pivot Irrigated, 800 GPM 35 PSI, 12 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.86	0.68	0.64	2.12	1.51	7.38	
2 Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
3 Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
4 Seeder/Packer	1		3.00	1.51	1.08	3.48	3.37	3.03	15.47	
5 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
6 Pivot D 125' Lift	12	ai	8.33	62.74	4.12	19.37	5.51	10.63	110.70	
7 Swath/Condition Hay	2		4.00	2.82	4.62	0.70	6.66	16.70	35.50	
8 Turn Windrows	0.5		0.83	0.25	0.36	0.00	1.12	0.00	2.56	
9 Large Square Bale	4.00	ton	5.50	4.36	2.16	2.31	6.74	22.27	43.34	
10 Load Large Square	4.00	ton	4.40	2.25	1.73	0.19	5.39	0.22	14.18	
11 Spray Insecticide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
Total for Field Operations			32.62	78.92	16.15	29.90	38.37	57.46	253.42	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
11-52-0	Fertilizer	1	100%	100 pound	0.24	24.00
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	0.25	11.00
21-0-0-24S	Additive	5	100%	1.7 pound	0.28	0.48
Twine Large Square	Other	9	100%	4 ton	1.81	7.22
Lorsban Advanced	Insecticide	11	50%	1 pint	6.88	3.44
Total Materials & Services					167.14	

Total listed costs for Field Operations and Materials and Services 420.56

Interest on Operations Capital \$ 324.73 cash expense @ 5.50% for 6.0 mo. 8.93

Total Operating and Use Related Ownership Costs 429.49

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

Real Estate Opportunity Pivot (State) \$ 6,295 per acre @ 3.00% 188.85

Real Estate Taxes \$ 6,295 per acre @ 1.00% 62.95

Total Cost per Acre Including Overhead 701.29

Cost per ton 175.32

Cash Cost per ton 83.42

2018 Budget 8-Alfalfa, Large Round Bales, Conventional Tillage, Fall Seeded with Subsequent Year Production (2.5 ton Actual Yield)

Gravity Irrigated, fed by canal, 18 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
2 Spread Fertilizer	1		1.57	0.86	0.68	0.64	2.12	1.51	7.38	
3 Roll	1		2.22	1.71	0.96	0.00	3.00	0.00	7.89	
4 Drill	1		1.76	1.12	0.69	2.94	2.16	2.35	11.02	
5 Spray Insecticide	0.2		0.20	0.06	0.07	0.13	0.22	0.16	0.84	
6 Corrugate	1		3.13	1.76	1.23	0.90	3.84	5.05	15.91	
7 Swath/Condition Hay	2		4.00	2.82	4.62	0.70	6.66	16.70	35.50	
8 Turn Windrows	0.5		0.83	0.25	0.36	0.00	1.12	0.00	2.56	
9 Large Round Bale	2.50	ton	5.50	2.03	2.16	2.69	6.74	2.59	21.71	
10 Move Large Round	2.50	ton	2.75	1.41	1.08	0.00	3.37	0.14	8.75	
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	0.29	1.08	0.04	3.06	
Total for Field Operations			44.98	14.46	12.50	9.56	34.35	29.68	145.53	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate	Unit	Applied Price	Total	Your Estimate
Alfalfa w/Inoculant	Seed	4	100%	12 pound	6.00	72.00	
Oats	Seed	4	100%	0.5 bushel	11.00	5.50	
Lorsban Advanced	Insecticide	5	20%	1 pint	6.88	1.38	
Twine Large Round	Other	9	100%	2.5 ton	0.91	2.27	
Irrigation District O&M Charge	Other	11	100%	1 acre	30.00	30.00	
Raptor	Herbicide	12	100%	5 ounce	4.77	23.83	
Crop Oil Concentrate	Additive	12	100%	1.6 pint	1.04	1.66	
UAN	Additive	12	100%	2 pint	0.16	0.33	
Total Materials & Services						160.97	

Total listed costs for Field Operations and Materials and Services 306.50

Interest on Operations Capital \$ 242.47 cash expense @ 5.50% for 6.0 mo. 6.67

Total Operating and Use Related Ownership Costs 313.17

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

Real Estate Opportunity Gravity (Panhandle) \$ 2,580 per acre @ 3.00% 77.40

Real Estate Taxes \$ 2,580 per acre @ 1.00% 25.80

Total Cost per Acre Including Overhead 436.37

Cost per ton 174.55

Cash Cost per ton 99.66

**2018 Budget 9-Alfalfa, Large Round Bale (4.4 ton Actual Yield)
Dryland**

Field Operations		Times or Qty	Labor @ Unit \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	Spread Fertilizer	1	1.57	0.86	0.68	0.64	2.12	1.51	7.38	
2	Swath/Condition Hay	4	8.00	5.64	9.23	1.41	13.33	33.40	71.01	
3	Turn Windrows	1	1.67	0.49	0.72	0.00	2.25	0.00	5.13	
4	Double Windrows	3	3.30	0.89	1.30	0.16	4.04	1.11	10.80	
5	Large Round Bale	4.4 ton	9.68	3.57	3.80	4.73	11.86	4.55	38.19	
6	Move Large Round	4.4 ton	4.84	2.48	1.90	0.00	5.93	0.25	15.40	
7	Spray Insecticide	0.25	0.25	0.07	0.09	0.16	0.27	0.20	1.04	
Total for Field Operations			29.31	14.00	17.72	7.10	39.80	41.02	148.95	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
11-52-0	Fertilizer	1	100%	75 pound	0.24	18.00	
Twine Large Round	Other	5	100%	4.4 ton	0.91	4.00	
Mustang Max EC	Insecticide	7	25%	3 ounce	1.41	1.05	
Total Materials & Services						23.05	

Total listed costs for Field Operations and Materials and Services		172.00
Interest on Operations Capital \$ 91.18 cash expense @ 5.50% for 6.0 mo.		2.51
Total Operating and Use Related Ownership Costs		174.51
Overhead (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity Dryland (State) \$ 3,145 per acre @ 3.00%		94.35
Real Estate Taxes \$ 3,145 per acre @ 1.00%		31.45
Total Cost per Acre Including Overhead		320.31
Cost per ton		72.80
Cash Cost per ton		21.29

**2018 Budget 10-Alfalfa, Large and Small Square Bale (6.7 ton Actual Yield)
Pivot Irrigated Electric, 800 GPM 35 PSI, 16 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.86	0.68	0.64	2.12	1.51	7.38	
2 Swath/Condition Hay	4		8.00	5.64	9.23	1.41	13.33	33.40	71.01	
3 Turn Windrows	1		1.67	0.49	0.72	0.00	2.25	0.00	5.13	
4 Double Windrows	4		4.40	1.19	1.73	0.22	5.39	1.48	14.41	
5 Large Square Bale	4.5	ton	6.14	4.87	2.41	2.58	7.53	24.86	48.39	
6 Load Large Square	Custom	ton								
7 Bale Small Square	2.2	ton	12.28	5.51	4.82	8.75	15.05	2.02	48.43	
8 Stack Small Square	2.2	ton	4.47	1.26	1.93	0.00	6.02	0.00	13.68	
9 Pivot E 125' Lift	16	ai	11.11	46.72	4.68	25.82	8.20	14.17	110.70	
10 Spray Herbicide	0.25		0.25	0.07	0.09	0.07	0.27	0.01	0.76	
11 Spray Insecticide	0.25		0.25	0.07	0.09	0.16	0.27	0.20	1.04	
Total for Field Operations			50.14	66.68	26.38	39.65	60.43	77.65	320.93	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
Twine Large Square	Other	5	67%	4.467 ton	1.81	5.38	
Load Large Square Bales	Custom	6	100%	4.467 ton	2.94	13.12	
Twine Small Square	Other	7	33%	2.233 ton	2.33	1.74	
Electricity Fixed	Other	9	100%	1 acre	30.00	30.00	
Pursuit	Herbicide	10	25%	4.5 ounce	3.75	4.22	
Crop Oil Concentrate	Additive	10	25%	1.6 pint	1.04	0.42	
UAN	Additive	10	25%	2 pint	0.16	0.08	
Mustang Max EC	Insecticide	11	25%	3 ounce	1.41	1.05	
Total Materials & Services						74.01	

Total listed costs for Field Operations and Materials and Services						394.94	
Interest on Operations Capital	\$ 256.86	cash expense @	5.50%	for 6.0 mo.		7.06	
Total Operating and Use Related Ownership Costs						402.00	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Pivot (State)	\$ 6,295	per acre @	3.00%		188.85	
Real Estate Taxes		\$ 6,295	per acre @	1.00%		62.95	
Total Cost per Acre Including Overhead						673.80	
Cost per ton						100.57	
Cash Cost per ton						39.39	

**2018 Budget 11-Alfalfa, Roundup Ready®, Large and Small Square Bale (6.8 ton Actual Yield)
Pivot Irrigated Electric, 800 GPM 35 PSI, 16 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.86	0.68	0.64	2.12	1.51	7.38	
2 Swath/Condition Hay	4		8.00	5.64	9.23	1.41	13.33	33.40	71.01	
3 Turn Windrows	1		1.67	0.49	0.72	0.00	2.25	0.00	5.13	
4 Double Windrows	4		4.40	1.19	1.73	0.22	5.39	1.48	14.41	
5 Large Square Bale	4.5	ton	6.23	4.94	2.45	2.62	7.64	25.23	49.11	
6 Load Lg Sq		Custom ton								
7 Bale Small Square	2.3	ton	12.47	5.59	4.89	8.88	15.28	2.05	49.16	
8 Stack Small Square	2.3	ton	4.53	1.28	1.96	0.00	6.11	0.00	13.88	
9 Pivot E 125' Lift	16	ai	11.11	46.72	4.68	25.82	8.20	14.17	110.70	
10 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
11 Spray Insecticide	0.25		0.25	0.07	0.09	0.16	0.27	0.20	1.04	
Total for Field Operations			51.23	67.08	26.78	40.04	61.67	78.08	324.88	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
Twine Large Square	Other	5	67%	4.53 ton	1.81	5.46	
Load Large Square Bales	Custom	6	100%	4.53 ton	2.94	13.31	
Twine Small Square	Other	7	33%	2.27 ton	2.33	1.76	
Electricity Fixed	Other	9	100%	1 acre	30.00	30.00	
Roundup WeatherMax	Herbicide	10	100%	44 ounce	0.25	11.00	
21-0-0-24S	Additive	10	100%	1.7 pound	0.28	0.48	
Mustang Max EC	Insecticide	11	25%	3 ounce	1.41	1.05	
Total Materials & Services						82.26	

Total listed costs for Field Operations and Materials and Services					407.14	
Interest on Operations Capital	\$ 267.39	cash expense @	5.50%	for 6.0 mo.	7.35	
Total Operating and Use Related Ownership Costs					414.49	
Overhead (accounting, liability insurance, vehicle cost, office expense)					20.00	
Real Estate Opportunity	Pivot (State)	\$ 6,295	per acre @	3.00%	188.85	
Real Estate Taxes		\$ 6,295	per acre @	1.00%	62.95	
Total Cost per Acre Including Overhead					686.29	
Cost per ton					100.93	
Cash Cost per ton					40.40	

**2018 Budget 12-Alfalfa, Large and Small Square Bale (6.6 ton Actual Yield)
Pivot Irrigated Electric, 800 GPM 35 PSI, 16 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.86	0.68	0.64	2.12	1.51	7.38	
2 Swath/Condition Hay	3		6.00	4.23	6.93	1.06	10.00	25.05	53.27	
3 Large Square Bale	4.4	ton	6.05	4.79	2.37	2.54	7.41	24.49	47.65	
4 Load Lg Sq		Custom ton								
5 Bale Small Square	2.2	ton	12.10	5.42	4.75	8.62	14.83	1.99	47.71	
6 Stack Small Square	2.2	ton	4.40	1.24	1.90	0.00	5.93	0.00	13.47	
7 Pivot E 125' Lift	16	ai	11.11	46.72	4.68	25.82	8.20	14.17	110.70	
8 Spray Herbicide	0.25		0.25	0.07	0.09	0.07	0.27	0.01	0.76	
9 Spray Insecticide	0.25		0.25	0.07	0.09	0.16	0.27	0.20	1.04	
Total for Field Operations			41.73	63.40	21.49	38.91	49.03	67.42	281.98	

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	40.00	6.60	
Mustang Max EC	Insecticide	9	25%	3 ounce	1.41	1.05	
Total Materials & Services						81.65	

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 247.18 cash expense @ 5.50% for 6.0 mo. 363.63

Total Operating and Use Related Ownership Costs 6.80

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

Real Estate Opportunity Pivot (Panhandle) \$ 2,815 per acre @ 3.00% 84.45

Real Estate Taxes \$ 2,815 per acre @ 1.00% 28.15

Total Cost per Acre Including Overhead 503.03

Cost per ton 76.22

Cash Cost per ton 38.48

**2018 Budget 13-Alfalfa, Large Square Bale (6.6 ton Actual Yield)
Gravity Irrigated, fed by canal, 22 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.86	0.68	0.64	2.12	1.51	7.38	
2 Swath/Condition Hay	4		8.00	5.64	9.23	1.41	13.33	33.40	71.01	
3 Turn Windrows	1		1.67	0.49	0.72	0.00	2.25	0.00	5.13	
4 Double Windrows	4		4.40	1.19	1.73	0.22	5.39	1.48	14.41	
5 Large Square Bale	Custom									
6 Load Lg Sq	Custom									
7 Corrugate	1		3.13	1.76	1.23	0.90	3.84	5.05	15.91	
8 Ditch Irrigation	22	ai	24.44						24.44	
9 Spray Herbicide	0.25		0.25	0.07	0.09	0.07	0.27	0.01	0.76	
10 Spray Insecticide	0.25		0.25	0.07	0.09	0.16	0.27	0.20	1.04	
Total for Field Operations			43.71	10.08	13.77	3.40	27.47	41.65	140.08	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
Bale Lg Sq 1360 lb	Custom	5	100%	6.6 ton	22.06	145.59	
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	1.04	0.42	
UAN	Additive	9	25%	2 pint	0.16	0.08	
Mustang Max EC	Insecticide	10	25%	3 ounce	1.41	1.05	
Total Materials & Services						218.74	

Total listed costs for Field Operations and Materials and Services					358.82	
Interest on Operations Capital \$ 289.70	cash expense @	5.50%	for 6.0 mo.		7.97	
Total Operating and Use Related Ownership Costs					366.79	
Overhead (accounting, liability insurance, vehicle cost, office expense)					20.00	
Real Estate Opportunity	Gravity (State)	\$ 6,070	per acre @	3.00%	182.10	
Real Estate Taxes		\$ 6,070	per acre @	1.00%	60.70	
Total Cost per Acre Including Overhead					629.59	
Cost per ton					95.39	
Cash Cost per ton					45.10	

**2018 Budget 14-Alfalfa, Roundup Ready®, Large Square Bale (6.8 ton Actual Yield)
Gravity Irrigated, fed by canal, 14 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.57	0.86	0.68	0.64	2.12	1.51	7.38	
2 Swath/Condition Hay	4		8.00	5.64	9.23	1.41	13.33	33.40	71.01	
3 Turn Windrows	1		1.67	0.49	0.72	0.00	2.25	0.00	5.13	
4 Double Windrows	4		4.40	1.19	1.73	0.22	5.39	1.48	14.41	
5 Lg Sq Bale	Custom									
6 Load Lg Sq	Custom									
7 Corrugate	1		3.13	1.76	1.23	0.90	3.84	5.05	15.91	
8 Ditch Irrigation	14	ai	15.56						15.56	
9 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
10 Spray Insecticide	0.25		0.25	0.07	0.09	0.16	0.27	0.20	1.04	
Total for Field Operations			35.58	10.31	14.03	3.62	28.28	41.68	133.50	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
Bale Lg Sq 1360 lb	Custom	5	100%	6.8 ton	22.06	150.00	
Load Large Square Bales	Custom	6	100%	6.6 ton	2.94	19.38	
Irrigation District O&M Charge	Other	8	100%	1 acre	30.00	30.00	
Roundup WeatherMax	Herbicide	9	100%	44 ounce	0.25	11.00	
21-0-0-24S	Additive	9	100%	1.7 pound	0.28	0.48	
Mustang Max EC	Insecticide	10	25%	3 ounce	1.41	1.05	
Total Materials & Services						231.11	

Total listed costs for Field Operations and Materials and Services 364.61

Interest on Operations Capital \$ 294.65 cash expense @ 5.50% for 6.0 mo. 8.10

Total Operating and Use Related Ownership Costs 372.71

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

Real Estate Opportunity Gravity (State) \$ 6,070 per acre @ 3.00% 182.10

Real Estate Taxes \$ 6,070 per acre @ 1.00% 60.70

Total Cost per Acre Including Overhead 635.51

Cost per ton 93.46

Cash Cost per ton 44.52

**2018 Budget 15-Corn, Conventional Tillage, Continuous, 90 bu Yield Goal (85 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
2 Anhydrous Application	1		1.83	1.49	0.72	0.58	2.25	3.63	10.50	
3 Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
4 Plant	1		2.40	0.77	0.86	2.54	2.70	3.53	12.80	
5 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
6 Row Crop Cultivation	1		2.00	0.90	0.78	0.44	2.45	1.52	8.09	
7 Row Crop Cultivation	0.25		0.50	0.22	0.20	0.11	0.61	0.38	2.02	
8 Spray Herbicide	0.5		0.50	0.15	0.17	0.14	0.54	0.02	1.52	
9 Spray Insecticide	Custom									
10 Combine Dryland Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
11 Cart	85	bu	1.21	0.47	0.48	0.78	1.49	0.46	4.89	
12 Truck	Custom									
13 Dry Grain	Custom									
Total for Field Operations			16.07	12.21	11.75	9.01	22.80	16.56	88.40	

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	2.30	13.80	
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	0.09	0.26	
UAN	Additive	8	50%	2 pint	0.16	0.16	
Spray	Custom	9	30%	1 acre	7.00	2.10	
Brigade 2EC	Insecticide	9	10%	5.12 ounce	0.70	0.36	
Mustang Max EC	Insecticide	9	20%	2 ounce	1.41	0.56	
Haul Grain Bushels	Custom	12	100%	85 bushel	0.11	9.35	
Dry 2 Points Removed	Custom	13	10%	85 bushel	0.08	0.68	
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00	
	Crop Insurance				15.00	15.00	
Total Materials & Services						186.52	

Total listed costs for Field Operations and Materials and Services						274.92
Interest on Operations Capital	\$ 235.56	cash expense @	5.50%	for 6.0 mo.		6.48
Total Operating and Use Related Ownership Costs						281.40
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00
Real Estate Opportunity	Dryland (State)	\$ 3,145	per acre @	3.00%		94.35
Real Estate Taxes		\$ 3,145	per acre @	1.00%		31.45
Total Cost per Acre Including Overhead						427.20
Cost per bu						5.03
Cash Cost per bu						2.85

**2018 Budget 16-Corn, Conventional Tillage, in Corn/Soybean Rotation, Conventional Seed (Non Bt), 100 bu Yield Goal
(95 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Anhydrous Application	1		1.83	1.49	0.72	0.58	2.25	3.63	10.50	
2 Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
3 Plant	1		2.40	0.77	0.86	2.54	2.70	3.53	12.80	
4 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
5 Row Crop Cultivation	1		2.00	0.90	0.78	0.44	2.45	1.52	8.09	
6 Row Crop Cultivation	0.25		0.50	0.22	0.20	0.11	0.61	0.38	2.02	
7 Spray Herbicide	0.5		0.50	0.15	0.17	0.14	0.54	0.02	1.52	
8 Spray Insecticide	Custom									
9 Combine Dryland Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
10 Cart	95	bu	1.36	0.52	0.53	0.87	1.66	0.51	5.45	
11 Truck	Custom									
12 Dry Grain	Custom									
Total for Field Operations			14.20	10.12	11.50	7.83	18.93	15.47	78.05	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								82-0-0
Corn	Seed	3	100%	15.4 k seed	2.38	36.54		
10-34-0	Fertilizer	3	100%	6 gallon	2.30	13.80		
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	6.25	9.38		
MSO	Additive	7	50%	19.2 ounce	0.16	1.50		
UAN	Additive	7	50%	2 pint	0.16	0.16		
Spray	Custom	8	30%	1 acre	7.00	2.10		
Brigade 2EC	Insecticide	8	10%	5.12 ounce	0.70	0.36		
Mustang Max EC	Insecticide	8	20%	2 ounce	1.41	0.56		
Haul Grain Bushels	Custom	11	100%	95 bushel	0.11	10.45		
Dry 2 Points Removed	Custom	12	10%	95 bushel	0.08	0.76		
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				15.00	15.00		
Total Materials & Services							168.11	

Total listed costs for Field Operations and Materials and Services							246.16	
Interest on Operations Capital \$ 211.76 cash expense @ 5.50% for 6.0 mo.							5.82	
Total Operating and Use Related Ownership Costs							251.98	
Overhead (accounting, liability insurance, vehicle cost, office expense)							20.00	
Real Estate Opportunity	Dryland (State)	\$ 3,145	per acre @	3.00%		94.35		
Real Estate Taxes		\$ 3,145	per acre @	1.00%		31.45		
Total Cost per Acre Including Overhead							397.78	
Cost per bu							4.19	
Cash Cost per bu							2.29	

**2018 Budget 17-Corn, Eastern Nebraska, Conventional Tillage, Continuous, 150 bu Yield Goal (135 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
2 Anhydrous Application	1		1.83	1.49	0.72	0.58	2.25	3.63	10.50	
3 Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
4 Plant	1		2.40	0.77	0.86	2.54	2.70	3.53	12.80	
5 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
6 Spray Herbicide	0.5		0.50	0.15	0.17	0.14	0.54	0.02	1.52	
7 Spray Insecticide	Custom									
8 Combine Dryland Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
9 Cart	135	bu	1.93	0.74	0.76	1.24	2.36	0.73	7.76	
10 Truck	Custom									
11 Dry Grain	Custom									
Total for Field Operations			14.29	11.36	11.05	8.92	20.61	14.93	81.16	

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	2.30	13.80	
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	0.09	0.26	
UAN	Additive	6	50%	2 pint	0.16	0.16	
Spray	Custom	7	30%	1 acre	7.00	2.10	
Brigade 2EC	Insecticide	7	10%	5.12 ounce	0.70	0.36	
Mustang Max EC	Insecticide	7	20%	2 ounce	1.41	0.56	
Haul Grain Bushels	Custom	10	100%	135 bushel	0.11	14.85	
Dry 2 Points Removed	Custom	11	20%	135 bushel	0.08	2.16	
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00	
	Crop Insurance				19.00	19.00	
Total Materials & Services						225.01	

Total listed costs for Field Operations and Materials and Services		306.17
Interest on Operations Capital \$ 270.63 cash expense @ 5.50% for 6.0 mo.		7.44
Total Operating and Use Related Ownership Costs		313.61
Overhead (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity Dryland (Eastern) \$ 5,790 per acre @ 3.00%		173.70
Real Estate Taxes \$ 5,790 per acre @ 1.00%		57.90
Total Cost per Acre Including Overhead		565.21
Cost per bu		4.19
Cash Cost per bu		2.06

**2018 Budget 18-Corn, Eastern Nebraska, Conventional Tillage, in Corn/Soybean Rotation, 160 bu Yield Goal (145 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Anhydrous Application	1		1.83	1.49	0.72	0.58	2.25	3.63	10.50	
2 Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
3 Plant	1		2.40	0.77	0.86	2.54	2.70	3.53	12.80	
4 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
5 Spray Herbicide	0.5		0.50	0.15	0.17	0.14	0.54	0.02	1.52	
6 Spray Insecticide	Custom									
7 Combine Dryland Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
8 Cart	145		2.07	0.80	0.81	1.33	2.54	0.78	8.33	
9 Truck	Custom	bu								
10 Dry Grain	Custom									
Total for Field Operations			12.41	9.28	10.80	7.74	16.75	13.84	70.82	

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	2.30	13.80	
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	0.09	0.26	
UAN	Additive	5	50%	2 pint	0.16	0.16	
Spray	Custom	6	30%	1 acre	7.00	2.10	
Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36	
Mustang Max EC	Insecticide	6	20%	2 ounce	1.41	0.56	
Haul Grain Bushels	Custom	9	100%	145 bushel	0.11	15.95	
Dry 2 Points Removed	Custom	10	20%	145 bushel	0.08	2.32	
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00	
	Crop Insurance				19.00	19.00	
Total Materials & Services						209.27	

Total listed costs for Field Operations and Materials and Services						280.09	
Interest on Operations Capital	\$ 249.50	cash expense @	5.50%	for 6.0 mo.		6.86	
Total Operating and Use Related Ownership Costs						286.95	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Dryland (Eastern)	\$ 5,790	per acre @	3.00%		173.70	
Real Estate Taxes		\$ 5,790	per acre @	1.00%		57.90	
Total Cost per Acre Including Overhead						538.55	
Cost per bu						3.71	
Cash Cost per bu						1.77	

**2018 Budget 19-Corn, Bt, ECB, RW, RR2, & RIB, No Till, Continuous, 125 bu Yield Goal (115 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 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	0.00	1.08	17.38	20.11	
3 Plant No-Till	1		2.40	0.95	0.86	4.41	2.70	6.13	17.45	
4 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
5 Spray Insecticide	Custom									
6 Combine Dryland Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
7 Cart	115	bu	1.64	0.63	0.64	1.05	2.01	0.62	6.59	
8 Truck	Custom									
9 Dry Grain	Custom									
Total for Field Operations			9.68	6.56	9.68	7.60	13.25	28.91	75.68	

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	0.28	0.24	
32-0-0	Fertilizer	2	100%	115 lbs N	0.32	36.80	
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	2.35	14.10	
Glyphosate w/Surfactant	Herbicide	4	100%	32 ounce	0.12	3.75	
21-0-0-24S	Additive	4	100%	1.7 pound	0.28	0.48	
Laudis	Herbicide	4	50%	3 ounce	6.25	9.38	
* Spray	Custom	5	30%	1 acre	7.00	2.10	
* Brigade 2EC	Insecticide	5	10%	5.12 ounce	0.70	0.36	
* Mustang Max EC	Insecticide	5	20%	2 ounce	1.41	0.56	
Haul Grain Bushels	Custom	8	100%	115 bushel	0.11	12.65	
Dry 2 Points Removed	Custom	9	10%	115 bushel	0.08	0.92	
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00	
	Crop Insurance				17.00	17.00	
Total Materials & Services						210.68	

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services		286.36
Interest on Operations Capital \$ 244.20 cash expense @ 5.50% for 6.0 mo.		6.72
Total Operating and Use Related Ownership Costs		293.08
Overhead (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity Dryland (State)	\$ 3,145 per acre @ 3.00%	94.35
Real Estate Taxes	\$ 3,145 per acre @ 1.00%	31.45
Total Cost per Acre Including Overhead		438.88
Cost per bu		3.82
Cash Cost per bu		2.18

**2018 Budget 20-Corn, Bt, ECB, RW, RR2, & RIB, Eastern Nebraska, No Till, Continuous, 170 bu Yield Goal (160 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 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	0.00	1.08	17.38	20.11	
3	Plant No-Till	1	2.40	0.95	0.86	4.41	2.70	6.13	17.45	
4	Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06	
5	Spray Insecticide	Custom								
6	Combine Dryland Corn	1	3.14	4.23	7.31	1.53	5.84	4.33	26.38	
7	Cart	160 bu	2.29	0.88	0.90	1.46	2.80	0.86	9.19	
8	Truck	Custom								
9	Dry Grain	Custom								
Total for Field Operations			10.33	6.81	9.94	8.01	14.04	29.15	78.28	

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		0.28	0.24	
32-0-0	Fertilizer	2	100%	155 lbs N		0.32	49.60	
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		2.35	14.10	
Glyphosate w/Surfactant	Herbicide	4	100%	32 ounce		0.12	3.75	
21-0-0-24S	Additive	4	100%	1.7 pound		0.28	0.48	
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 Max EC	Insecticide	5	20%	2 ounce		1.41	0.56	
Haul Grain Bushels	Custom	8	100%	160 bushel		0.11	17.60	
Dry 2 Points Removed	Custom	9	20%	160 bushel		0.08	2.56	
Scouting Dryland Corn	Scouting		100%	1 acre		7.00	7.00	
	Crop Insurance					22.00	22.00	
Total Materials & Services							254.44	

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services		332.72
Interest on Operations Capital \$ 289.53 cash expense @ 5.50% for 6.0 mo.		7.96
Total Operating and Use Related Ownership Costs		340.68
Overhead (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity Dryland (Eastern) \$ 5,790 per acre @ 3.00%		173.70
Real Estate Taxes \$ 5,790 per acre @ 1.00%		57.90
Total Cost per Acre Including Overhead		592.28
Cost per bu		3.70
Cash Cost per bu		1.86

**2018 Budget 21-Corn, SmartStax RIB Complete, No Till, Continuous, 130 bu Yield Goal (120 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 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	0.00	1.08	17.38	20.11	
3 Plant No-Till	1		2.40	0.95	0.86	4.41	2.70	6.13	17.45	
4 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
5 Spray Insecticide	Custom									
6 Combine Dryland Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
7 Cart	120	bu	1.71	0.66	0.67	1.10	2.10	0.65	6.89	
8 Truck	Custom									
9 Dry Grain	Custom									
Total for Field Operations			9.75	6.59	9.71	7.65	13.34	28.94	75.98	

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	0.28	0.24		
32-0-0	Fertilizer	2	100%	120 lbs N	0.32	38.40		
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	2.30	13.80		
Glyphosate w/Surfactant	Herbicide	4	100%	32 ounce	0.12	3.75		
21-0-0-24S	Additive	4	100%	1.7 pound	0.28	0.48		
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%	120 bushel	0.11	13.20		
Dry 2 Points Removed	Custom	9	10%	120 bushel	0.08	0.96		
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				17.00	17.00		
Total Materials & Services							220.63	

Total listed costs for Field Operations and Materials and Services						296.61	
Interest on Operations Capital	\$ 254.33	cash expense @	5.50%	for 6.0 mo.		6.99	
Total Operating and Use Related Ownership Costs						303.60	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Dryland (State)	\$ 3,145	per acre @	3.00%		94.35	
Real Estate Taxes		\$ 3,145	per acre @	1.00%		31.45	
Total Cost per Acre Including Overhead						449.40	
Cost per bu						3.75	
Cash Cost per bu						2.18	

**2018 Budget 22-Corn, SmartStax RIB Complete, Eastern Nebraska, No Till, Continuous, 175 bu Yield Goal (165 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 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	0.00	1.08	17.38	20.11	
3 Plant No-Till	1		2.40	0.95	0.86	4.41	2.70	6.13	17.45	
4 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
5 Spray Insecticide	Custom									
6 Combine Dryland Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
7 Cart	165	bu	2.36	0.91	0.93	1.51	2.89	0.89	9.49	
8 Truck	Custom									
9 Dry Grain	Custom									
Total for Field Operations			10.40	6.84	9.97	8.06	14.13	29.18	78.58	

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	0.28	0.24		
32-0-0	Fertilizer	2	100%	165 lbs N	0.32	52.80		
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	2.30	13.80		
Glyphosate w/Surfactant	Herbicide	4	100%	32 ounce	0.12	3.75		
21-0-0-24S	Additive	4	100%	1.7 pound	0.28	0.48		
Laudis	Herbicide	4	50%	3 ounce	6.25	9.38		
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%	165 bushel	0.11	18.15		
Dry 2 Points Removed	Custom	9	20%	165 bushel	0.08	2.64		
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				23.00	23.00		
Total Materials & Services							273.70	

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 308.97 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 (Eastern) \$ 5,790 per acre @ 3.00%

Real Estate Taxes \$ 5,790 per acre @ 1.00%

Total Cost per Acre Including Overhead

Cost per bu

Cash Cost per bu

352.28

8.50

360.78

20.00

173.70

57.90

612.38

3.71

1.92

**2018 Budget 23-Corn, Bt, ECB, & RIB, No Till, after Beans, 135 bu Yield Goal (125 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 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	0.95	0.86	4.41	2.70	6.13	17.45	
4 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
5 Spray Herbicide	0.5		0.50	0.15	0.17	0.14	0.54	0.02	1.52	
6 Spray Insecticide	Custom									
7 Combine Dryland Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
8 Cart	125	bu	1.79	0.69	0.70	1.14	2.19	0.67	7.18	
9 Truck	Custom									
10 Dry Grain	Custom									
Total for Field Operations			10.33	6.77	9.91	8.02	13.97	13.63	62.63	

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%	1.0 pint	2.13	1.06	
21-0-0-24S	Additive	1	50%	1.7 pound	0.28	0.24	
32-0-0	Fertilizer	2	100%	80 lbs N	0.32	25.60	
Corn Bt, ECB, & RIB	Seed	3	100%	20.8 k seed	2.75	57.12	
10-34-0	Fertilizer	3	100%	6 gallon	2.30	13.80	
Acuron	Herbicide	4	100%	2.5 quart	15.00	37.50	
Crop Oil Concentrate	Additive	4	100%	1.6 pint	1.04	1.66	
21-0-0-24S	Additive	4	100%	2.5 pound	0.28	0.70	
Status	Herbicide	5	50%	2.5 ounce	4.30	5.38	
Atrazine 90 DF	Herbicide	5	50%	0.5 pound	3.80	0.95	
Crop Oil Concentrate	Additive	5	50%	1 pint	1.04	0.52	
UAN	Additive	5	50%	3 pint	0.16	0.24	
* Spray	Custom	6	30%	1 acre	7.00	2.10	
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36	
* Mustang Max EC	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				18.00	18.00	
Total Materials & Services						189.42	

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services		252.05
Interest on Operations Capital \$ 224.45 cash expense @ 5.50% for 6.0 mo.		6.17
Total Operating and Use Related Ownership Costs		258.22
Overhead (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity Dryland (State) \$ 3,145 per acre @ 3.00%		94.35
Real Estate Taxes \$ 3,145 per acre @ 1.00%		31.45
Total Cost per Acre Including Overhead		404.02
Cost per bu		3.23
Cash Cost per bu		1.84

**2018 Budget 24-Corn, Bt, ECB, & RIB, Eastern Nebraska, No Till, after Beans, 185 bu Yield Goal (175 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 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	0.95	0.86	4.41	2.70	6.13	17.45	
4 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
5 Spray Herbicide	0.5		0.50	0.15	0.17	0.14	0.54	0.02	1.52	
6 Spray Insecticide	Custom									
7 Combine Dryland Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
8 Cart	175	bu	2.50	0.96	0.98	1.60	3.06	0.94	10.04	
9 Truck	Custom									
10 Dry Grain	Custom									
Total for Field Operations			11.54	7.19	10.37	8.80	15.38	14.30	67.58	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
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	0.28	0.24
32-0-0	Fertilizer	2	100%	130 lbs N	0.32	41.60
Corn Bt, ECB, & RIB	Seed	3	100%	28.5 k seed	2.75	78.27
10-34-0	Fertilizer	3	100%	6 gallon	2.30	13.80
Acuron	Herbicide	4	100%	2.5 quart	15.00	37.50
Crop Oil Concentrate	Additive	4	100%	1.6 pint	1.04	1.66
21-0-0-24S	Additive	4	100%	2.5 pound	0.28	0.70
Armezon Pro	Herbicide	5	50%	14 ounce	1.33	9.30
Atrazine 90 DF	Herbicide	5	50%	0.5 pound	3.80	0.95
Crop Oil Concentrate	Additive	5	50%	1 pint	1.04	0.52
UAN	Additive	5	50%	3 pint	0.16	0.24
* Spray	Custom	6	30%	1 acre	7.00	2.10
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36
* Mustang Max EC	Insecticide	6	20%	2 ounce	1.41	0.56
Haul Grain Bushels	Custom	9	100%	175 bushel	0.11	19.25
Dry 2 Points Removed	Custom	10	20%	175 bushel	0.08	2.80
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00
Crop Insurance					24.00	24.00
Total Materials & Services					243.79	

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services					311.37	
Interest on Operations Capital	\$ 281.69	cash expense @	5.50%	for 6.0 mo.	7.75	
Total Operating and Use Related Ownership Costs					319.12	
Overhead (accounting, liability insurance, vehicle cost, office expense)					20.00	
Real Estate Opportunity	Dryland (Eastern)	\$ 5,790	per acre @	3.00%	173.70	
Real Estate Taxes		\$ 5,790	per acre @	1.00%	57.90	
Total Cost per Acre Including Overhead					570.72	
Cost per bu					3.26	
Cash Cost per bu					1.65	

**2018 Budget 25-Corn, ECB, RR2, & RIB, Ecofollow, Follows Wheat, Two Crops in Three Years, 125 bu Yield Goal (115 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray (Prior Year Stubble)	1		1.00	0.30	0.35	0.19	1.08	1.33	4.25	
2 Spray (Prior Year Stubble)	1		1.00	0.30	0.35	0.19	1.08	1.33	4.25	
3 Spray Fertilizer and Herbicide	1		1.00	0.30	0.35	0.00	1.08	17.38	20.11	
4 Plant No-Till	1		2.40	0.95	0.86	4.41	2.70	6.13	17.45	
5 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
6 Spray Insecticide	Custom									
7 Combine Dryland Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
8 Cart	115	bu	1.64	0.63	0.64	1.05	2.01	0.62	6.59	
9 Truck	Custom									
10 Dry Grain	Custom									
Total for Field Operations			11.18	7.01	10.21	7.66	14.87	31.16	82.09	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
			Rate	Unit			
Glyphosate w/Surfactant	Herbicide	1	100%	32 ounce	0.12	3.75	
21-0-0-24S	Additive	1	100%	1.7 pound	0.28	0.48	
Rugged	Herbicide	1	100%	1 quart	10.00	10.00	
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	0.28	0.48	
32-0-0	Fertilizer	3	100%	115 lbs N	0.32	36.80	
AAtrex 4L	Herbicide	3	100%	0.5 quart	4.50	2.25	
Balance Flexx	Herbicide	3	100%	4 ounce	5.00	20.00	
10-34-0	Fertilizer	4	100%	6 gallon	2.30	13.80	
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	0.28	0.48	
Laudis	Herbicide	5	50%	3 ounce	6.25	9.38	
* Spray	Custom	6	30%	1 acre	7.00	2.10	
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36	
* Mustang Max EC	Insecticide	6	20%	2 ounce	1.41	0.56	
Haul Grain Bushels	Custom	9	100%	115 bushel	0.11	12.65	
Dry 2 Points Removed	Custom	10	10%	115 bushel	0.08	0.92	
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00	
Crop Insurance					17.00	17.00	
Total Materials & Services						209.95	

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services						292.04	
Interest on Operations Capital \$ 246.01	cash expense @	5.50%	for 6.0 mo.			6.77	
Total Operating and Use Related Ownership Costs						298.81	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Dryland (Southwest)	\$ 1,710	per acre @	3.00%		51.30	
Real Estate Taxes		\$ 1,710	per acre @	1.00%		17.10	
Total Cost per Acre Including Overhead						387.21	
Cost per bu						3.37	
Cash Cost per bu						2.20	

**2018 Budget 26-Corn, Bt, ECB, RW, & RIB, Ridge Till, Continuous, 240 bu Yield Goal (225 bu Actual 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 @ \$2.45 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	1.49	0.72	0.58	2.25	3.63	10.50	
3 Ridge Plant and Band Herbicide	1		2.40	0.96	0.86	6.89	2.70	4.27	18.08	
4 Ridge Cultivation	1		2.00	1.50	0.86	0.89	2.70	1.01	8.96	
5 Ridge Cultivate/Ditch	1		1.83	1.25	0.72	0.37	2.25	1.52	7.94	
6 Spray Herbicide	Custom									
7 Spray	Custom									
8 Pipe D 125' Lift	18	ai	33.33	68.30	4.94	3.42	8.14	5.56	123.69	
9 Combine Irr Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
10 Cart	225	bu	3.21	1.23	1.26	2.06	3.94	1.21	12.91	
11 Truck	Custom									
12 Dry Grain	Custom									
13 Chop Stalks	1		1.78	1.31	0.70	0.35	2.19	1.59	7.92	
Total for Field Operations			50.02	80.42	17.54	16.41	30.55	23.53	218.47	

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	0.28	0.24
82-0-0	Fertilizer	2	100%	225 lbs N	0.26	58.50
Corn Bt, ECB, RW, & RIB	Seed	3	100%	36.9 k seed	3.13	115.38
10-34-0	Fertilizer	3	100%	6 gallon	2.30	13.80
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	6.25	9.38
Atrazine 90 DF	Herbicide	6	50%	0.5 pound	3.80	0.95
Crop Oil Concentrate	Additive	6	50%	1 pint	1.04	0.52
UAN	Additive	6	50%	3 pint	0.16	0.24
* Spray	Custom	6	30%	1 acre	7.00	2.10
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36
* Mustang Max EC	Insecticide	6	20%	2 ounce	1.41	0.56
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	11	100%	225 bushel	0.11	24.75
Dry 2 Points Removed	Custom	12	20%	225 bushel	0.08	3.60
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00
Crop Insurance					6.00	6.00
Total Materials & Services						266.48

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services						484.95
Interest on Operations Capital \$ 430.87	cash expense @	5.50%	for 6.0 mo.			11.85
Total Operating and Use Related Ownership Costs						496.80
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00
Real Estate Opportunity	Gravity (State)	\$ 6,070	per acre @	3.00%		182.10
Real Estate Taxes		\$ 6,070	per acre @	1.00%		60.70
Total Cost per Acre Including Overhead						759.60
Cost per bu						3.38
Cash Cost per bu						1.97

**2018 Budget 27-Corn, Bt, ECB, & RIB, Ridge Till, after Beans, 250 bu Yield Goal (235 bu Actual 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 @ \$2.45 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	1.49	0.72	0.58	2.25	3.63	10.50	
3 Ridge Plant and Band Herbicide	1		2.40	0.96	0.86	6.89	2.70	4.27	18.08	
4 Ridge Cultivation	1		2.00	1.50	0.86	0.89	2.70	1.01	8.96	
5 Ridge Cultivate/Ditch	1		1.83	1.25	0.72	0.37	2.25	1.52	7.94	
6 Spray Herbicide	Custom									
7 Spray	Custom									
8 Pipe D 125' Lift	18	ai	33.33	68.30	4.94	3.42	8.14	5.56	123.69	
9 Combine Irr Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
10 Cart	235	bu	3.36	1.29	1.32	2.15	4.11	1.27	13.50	
11 Truck	Custom									
12 Dry Grain	Custom									
Total for Field Operations			48.39	79.17	16.90	16.15	28.53	22.00	211.14	

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	0.28	0.24		
82-0-0	Fertilizer	2	100%	190 lbs N	0.26	49.40		
Corn Bt, ECB, & RIB	Seed	3	100%	38.5 k seed	2.75	105.77		
10-34-0	Fertilizer	3	100%	6 gallon	2.30	13.80		
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	6.25	9.38		
Atrazine 90 DF	Herbicide	6	50%	0.5 pound	3.80	0.95		
Crop Oil Concentrate	Additive	6	50%	1 pint	1.04	0.52		
UAN	Additive	6	50%	3 pint	0.16	0.24		
* Spray	Custom	6	30%	1 acre	7.00	2.10		
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36		
* Mustang Max EC	Insecticide	6	20%	2 ounce	1.41	0.56		
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	11	100%	235 bushel	0.11	25.85		
Dry 2 Points Removed	Custom	12	20%	235 bushel	0.08	3.76		
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00		
Crop Insurance					6.00	6.00		
Total Materials & Services							249.03	

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services						460.17	
Interest on Operations Capital \$ 409.64	cash expense @	5.50%	for 6.0 mo.			11.27	
Total Operating and Use Related Ownership Costs						471.44	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Gravity (State)	\$ 6,070	per acre @	3.00%		182.10	
Real Estate Taxes		\$ 6,070	per acre @	1.00%		60.70	
Total Cost per Acre Including Overhead						734.24	
Cost per bu						3.12	
Cash Cost per bu						1.79	

**2018 Budget 28-Corn, SmartStax RIB Complete, Ridge Till, Continuous, 245 bu Yield Goal (230 bu Actual 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 @ \$2.45 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	1.49	0.72	0.58	2.25	3.63	10.50	
3 Ridge Plant and Band Herbicide	1		2.40	0.96	0.86	6.89	2.70	4.27	18.08	
4 Ridge Cultivation	1		2.00	1.50	0.86	0.89	2.70	1.01	8.96	
5 Ridge Cultivate/Ditch	1		1.83	1.25	0.72	0.37	2.25	1.52	7.94	
6 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
7 Spray Insecticide	Custom									
8 Spray	Custom									
9 Pipe D 125' Lift	18	ai	33.33	68.30	4.94	3.42	8.14	5.56	123.69	
10 Combine Irr Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
11 Cart	230	bu	3.29	1.26	1.29	2.11	4.03	1.24	13.22	
12 Truck	Custom									
13 Dry Grain	Custom									
14 Chop Stalks	1		1.78	1.31	0.70	0.35	2.19	1.59	7.92	
Total for Field Operations			51.10	80.75	17.92	16.75	31.72	23.60	221.84	

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	0.28	0.24
82-0-0	Fertilizer	2	100%	230 lbs N	0.26	59.80
Corn SmartStax RIB Complete	Seed	3	100%	37.7 k seed	3.75	141.35
10-34-0	Fertilizer	3	100%	6 gallon	2.30	13.80
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	0.28	0.48
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	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					6.00	6.00
Total Materials & Services					292.81	

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 459.33	cash expense @	5.50%	for 6.0 mo.	12.63
Total Operating and Use Related Ownership Costs				527.28

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

Real Estate Opportunity	Gravity (State)	\$ 6,070	per acre @	3.00%	182.10
Real Estate Taxes		\$ 6,070	per acre @	1.00%	60.70

Total Cost per Acre Including Overhead 790.08

Cost per bu 3.44

Cash Cost per bu 2.05

2018 Budget 29-Corn, SmartStax RIB Complete, Panhandle, Conventional Tillage, Continuous, 190 bu Yield Goal (180 bu Actual Yield)

Gravity Irrigated, fed by canal, 15 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
2 Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
3 Spray Fertilizer and Herbicide	1		1.00	0.30	0.35	0.00	1.08	17.38	20.11	
4 Plant	1		2.40	0.77	0.86	2.54	2.70	3.53	12.80	
5 Spread Fertilizer	1		1.57	0.86	0.68	0.64	2.12	1.51	7.38	
6 Row Crop Cultivation	1		2.00	0.90	0.78	0.44	2.45	1.52	8.09	
7 Ridge Cultivate/Ditch	1		1.83	1.25	0.72	0.37	2.25	1.52	7.94	
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	4.23	7.31	1.53	5.84	4.33	26.38	
12 Cart	180	bu	2.57	0.99	1.01	1.65	3.15	0.97	10.34	
13 Truck	Custom									
14 Dry Grain	Custom									
15 Chop Stalks	1		1.78	1.31	0.70	0.35	2.19	1.59	7.92	
Total for Field Operations			36.45	14.29	13.29	10.12	27.62	35.00	136.77	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate	Unit	Applied Price	Total	Your Estimate
Balance Flexx	Herbicide	3	100%	4 ounce	5.00	20.00	
Bicep II Magnum	Herbicide	3	100%	2.1 quart	11.25	23.63	
10-34-0	Fertilizer	4	100%	8 gallon	2.30	18.40	
Corn SmartStax RIB Complete	Seed	4	100%	29.2 k seed	3.75	109.62	
32-0-0	Fertilizer	5	100%	40 lbs N	0.32	12.80	
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%	180 bushel	0.11	19.80	
Dry 2 Points Removed	Custom	14	10%	180 bushel	0.08	1.44	
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				6.00	6.00	
Total Materials & Services						312.63	

Total listed costs for Field Operations and Materials and Services						449.40	
Interest on Operations Capital \$ 386.78 cash expense @ 5.50% for 6.0 mo.						10.64	
Total Operating and Use Related Ownership Costs						460.04	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Gravity (Panhandle)	\$ 2,580	per acre @	3.00%		77.40	
Real Estate Taxes		\$ 2,580	per acre @	1.00%		25.80	
Total Cost per Acre Including Overhead						583.24	
Cost per bu						3.24	
Cash Cost per bu						2.21	

**2018 Budget 30-Corn, Bt, ECB, RW, & RIB, No Till, Continuous, 240 bu Yield Goal (225 bu Actual Yield)
Pivot Irrigated Diesel, 800 GPM 35 PSI, 9 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 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	0.29	1.08	0.04	3.06	
3 Plant No-Till	1		2.40	0.95	0.86	4.41	2.70	6.13	17.45	
4 Pivot D 125' Lift w/fertigation	9	ai	8.33	47.05	3.09	15.56	4.13	8.54	86.70	
5 Spray Herbicide	0.5		0.50	0.15	0.17	0.14	0.54	0.02	1.52	
6 Spray Insecticide	Custom									
7 Spray	Custom									
8 Combine Irr Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
9 Cart	225	bu	3.21	1.23	1.26	2.06	3.94	1.21	12.91	
10 Truck	Custom									
11 Dry Grain	Custom									
Total for Field Operations			19.08	54.06	13.21	24.31	18.77	20.68	150.11	

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	0.28	0.24
Lumax EZ	Herbicide	2	100%	2.7 quart	20.00	54.00
Atrazine 4L	Herbicide	3	100%	1.0 quart	3.50	3.50
Corn Bt, ECB, RW, & RIB	Seed	3	100%	36.9 k seed	3.13	115.38
10-34-0	Fertilizer	3	100%	6 gallon	2.30	13.80
32-0-0 (Applied by R2)	Fertilizer	4	100%	225 lbs N	0.32	72.00
Status	Herbicide	5	50%	2.5 ounce	4.30	5.38
Atrazine 90 DF	Herbicide	5	50%	0.5 pound	3.80	0.95
Crop Oil Concentrate	Additive	5	50%	1 pint	1.04	0.52
UAN	Additive	5	50%	3 pint	0.16	0.24
* Spray	Custom	6	30%	1 acre	7.00	2.10
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36
* Mustang Max EC	Insecticide	6	20%	2 ounce	1.41	0.56
Spray	Custom	7	30%	1 acre	7.00	2.10
Headline AMP	Fungicide	7	30%	10 ounce	2.58	7.73
Haul Grain Bushels	Custom	10	100%	225 bushel	0.11	24.75
Dry 2 Points Removed	Custom	11	20%	225 bushel	0.08	3.60
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00
	Crop Insurance				6.00	6.00
Total Materials & Services						325.15

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services						475.26
Interest on Operations Capital	\$ 435.81	cash expense @	5.50%	for 6.0 mo.		11.98
Total Operating and Use Related Ownership Costs						487.24
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00
Real Estate Opportunity	Pivot (State)	\$ 6,295	per acre @	3.00%		188.85
Real Estate Taxes		\$ 6,295	per acre @	1.00%		62.95
Total Cost per Acre Including Overhead						759.04
Cost per bu						3.37
Cash Cost per bu						1.99

**2018 Budget 31-Corn, SmartStax RIB Complete, No Till, Continuous, 245 bu Yield Goal (230 bu Actual Yield)
Pivot Irrigated Diesel, 800 GPM 35 PSI, 9 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 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	0.29	1.08	0.04	3.06	
3 Plant	1		2.40	0.77	0.86	2.54	2.70	3.53	12.80	
4 Spray Herbicide	0.5		0.50	0.15	0.17	0.14	0.54	0.02	1.52	
5 Spray Insecticide	Custom									
6 Spray	Custom									
7 Pivot D 125' Lift w/fertigation	9	ai	8.33	47.05	3.09	15.56	4.13	8.54	86.70	
8 Combine Irr Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
9 Cart	230		3.29	1.26	1.29	2.11	4.03	1.24	13.22	
10 Truck	Custom	bu								
11 Dry Grain	Custom									
Total for Field Operations			19.16	53.91	13.24	22.49	18.86	18.11	145.77	

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	0.28	0.24
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	2.30	13.80
32-0-0 (Applied by R2)	Fertilizer	7	100%	230 lbs N	0.32	73.60
Glyphosate w/Surfactant	Herbicide	4	50%	32 ounce	0.12	1.88
21-0-0-24S	Additive	4	50%	1.7 pound	0.28	0.24
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	30%	1 acre	7.00	2.10
Headline AMP	Fungicide	6	30%	10 ounce	2.58	7.73
Haul Grain Bushels	Custom	10	100%	230 bushel	0.11	25.30
Dry 2 Points Removed	Custom	11	20%	230 bushel	0.08	3.68
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00
	Crop Insurance				6.00	6.00
Total Materials & Services						352.22

Total listed costs for Field Operations and Materials and Services						497.99
Interest on Operations Capital	\$ 461.02	cash expense @	5.50%	for 6.0 mo.		12.68
Total Operating and Use Related Ownership Costs						510.67
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00
Real Estate Opportunity	Pivot (State)	\$ 6,295	per acre @	3.00%		188.85
Real Estate Taxes		\$ 6,295	per acre @	1.00%		62.95
Total Cost per Acre Including Overhead						782.47
Cost per bu						3.40
Cash Cost per bu						2.06

**2018 Budget 32-Corn, Bt, ECB, & RIB, No Till, after Beans, 270 bu Yield Goal (255 bu Actual Yield)
Pivot Irrigated Diesel, 800 GPM 35 PSI, 9 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 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	0.29	1.08	0.04	3.06	
3 Plant No-Till	1		2.40	0.95	0.86	4.41	2.70	6.13	17.45	
4 Pivot D 125' Lift w/fertigation	9	ai	8.33	47.05	3.09	15.56	4.13	8.54	86.70	
5 Spray Herbicide	0.5		0.50	0.15	0.17	0.14	0.54	0.02	1.52	
6 Spray Insecticide	Custom									
7 Spray	Custom									
8 Combine Irr Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
9 Cart	255	bu	3.64	1.40	1.43	2.33	4.46	1.38	14.64	
10 Truck	Custom									
11 Dry Grain	Custom									
Total for Field Operations			19.51	54.23	13.38	24.58	19.29	20.85	151.84	

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	0.28	0.24	
Acuron	Herbicide	2	100%	2.5 quart	15.00	37.50	
Crop Oil Concentrate	Additive	2	100%	1.6 pint	1.04	1.66	
21-0-0-24S	Additive	2	100%	2.5 pound	0.28	0.70	
Corn Bt, ECB, & RIB	Seed	3	100%	41.5 k seed	2.75	114.23	
10-34-0	Fertilizer	3	100%	6.0 gallon	2.30	13.80	
32-0-0 (Applied by R2)	Fertilizer	4	100%	200.0 lbs N	0.32	64.00	
Armezon Pro	Herbicide	5	50%	14 ounce	1.33	9.30	
Atrazine 90 DF	Herbicide	5	50%	1 pound	3.80	0.95	
Crop Oil Concentrate	Additive	5	50%	0.5 pint	1.04	0.26	
UAN	Additive	5	50%	3 pint	0.16	0.24	
* Spray	Custom	6	30%	1 acre	7.00	2.10	
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36	
* Mustang Max EC	Insecticide	6	20%	2 ounce	1.41	0.56	
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%	255 bushel	0.11	28.05	
Dry 2 Points Removed	Custom	11	20%	255 bushel	0.08	4.08	
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00	
Crop Insurance					6.76	6.76	
Total Materials & Services						303.29	

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services 455.13

Interest on Operations Capital \$ 414.99 cash expense @ 5.50% for 6.0 mo. 11.41

Total Operating and Use Related Ownership Costs 466.54

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

Real Estate Opportunity Pivot (State) \$ 6,295 per acre @ 3.00% 188.85

Real Estate Taxes \$ 6,295 per acre @ 1.00% 62.95

Total Cost per Acre Including Overhead 738.34

Cost per bu 2.90

Cash Cost per bu 1.67

**2018 Budget 33-Corn, Bt, ECB, RW, & RIB, Conventional Tillage, Continuous, 230 bu Yield Goal (215 bu Actual Yield)
Pivot Irrigated Diesel, 800 GPM 35 PSI, 13 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
2 Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
3 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4 Plant	1		2.40	0.77	0.86	2.54	2.70	3.53	12.80	
5 Row Crop Cultivation	1		2.00	0.90	0.78	0.44	2.45	1.52	8.09	
6 Row Crop Cultivation	0.25		0.50	0.22	0.20	0.11	0.61	0.38	2.02	
7 Spray Insecticide	Custom									
8 Spray	Custom									
9 Pivot D 125' Lift w/fertigation	13	ai	12.04	67.96	4.46	22.48	5.97	12.34	125.25	
10 Combine Irr Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
11 Cart	215	bu	3.07	1.18	1.21	1.97	3.76	1.16	12.35	
12 Truck	Custom									
13 Dry Grain	Custom									
Total for Field Operations			27.64	79.24	16.05	31.96	28.25	25.95	209.09	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
			Rate	Unit			
Balance Flexx	3	100%	4	ounce	5.00	20.00	
Bicep II Magnum	3	100%	2.1	quart	11.25	23.63	
Corn Bt, ECB, RW, & RIB	4	100%	35.4	k seed	3.13	110.58	
10-34-0	4	100%	6	gallon	2.30	13.80	
32-0-0 (Applied by R2)	9	100%	215	lbs N	0.32	68.80	
* Spray	7	30%	1	acre	7.00	2.10	
* Brigade 2EC	7	10%	5.12	ounce	0.70	0.36	
* Mustang Max EC	7	20%	2	ounce	1.41	0.56	
Spray	8	30%	1	acre	7.00	2.10	
Headline AMP	8	30%	10	ounce	2.58	7.73	
Haul Grain Bushels	12	100%	215	bushel	0.11	23.65	
Dry 2 Points Removed	13	20%	215	bushel	0.08	3.44	
Scouting Irrigated Corn		100%	1	acre	9.00	9.00	
Crop Insurance					6.00	6.00	
Total Materials & Services						291.75	

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 446.64 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

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

Real Estate Opportunity Pivot (State) \$ 6,295 per acre @ 3.00%
Real Estate Taxes \$ 6,295 per acre @ 1.00%

Total Cost per Acre Including Overhead

Cost per bu

Cash Cost per bu

20.00
23.63
110.58
13.80
68.80
2.10
0.36
0.56
2.10
7.73
23.65
3.44
9.00
6.00
291.75
500.84
12.28
513.12
20.00
188.85
62.95
784.92
3.65
2.13

**2018 Budget 34-Corn, Bt, ECB, & RIB, Conventional Tillage, after Beans, 240 bu Yield Goal (225 bu Actual Yield)
Pivot Irrigated Diesel, 800 GPM 35 PSI, 13 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
2 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
3 Plant	1		2.40	0.77	0.86	2.54	2.70	3.53	12.80	
4 Row Crop Cultivation	1		2.00	0.90	0.78	0.44	2.45	1.52	8.09	
5 Row Crop Cultivation	0.25		0.50	0.22	0.20	0.11	0.61	0.38	2.02	
6 Spray Insecticide	Custom									
7 Spray	Custom									
8 Pivot D 125' Lift w/fertigation	13	ai	12.04	67.96	4.46	22.48	5.97	12.34	125.25	
9 Combine Irr Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
10 Cart	225	bu	3.21	1.23	1.26	2.06	3.94	1.21	12.91	
11 Truck	Custom									
12 Dry Grain	Custom									
Total for Field Operations			25.76	77.15	15.80	30.78	24.39	24.86	198.74	

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	
Corn Bt, ECB, & RIB	Seed	3	100%	36.9 k seed	2.75	101.54	
10-34-0	Fertilizer	3	100%	6 gallon	2.30	13.80	
32-0-0 (Applied by R2)	Fertilizer	8	100%	180 lbs N	0.32	57.60	
* Spray	Custom	6	30%	1 acre	7.00	2.10	
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36	
* Mustang Max EC	Insecticide	6	20%	2 ounce	1.41	0.56	
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	11	100%	225 bushel	0.11	24.75	
Dry 2 Points Removed	Custom	12	20%	225 bushel	0.08	3.60	
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00	
Crop Insurance					6.00	6.00	
Total Materials & Services						269.50	

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 418.99 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 \$ 6,295 per acre @ 3.00%
Real Estate Taxes \$ 6,295 per acre @ 1.00%

Total Cost per Acre Including Overhead

Cost per bu

Cash Cost per bu

20.00

188.85

62.95

751.56

3.34

1.91

2018 Budget 35-Corn, SmartStax RIB Complete, Panhandle, Conventional Tillage, Continuous, 190 bu Yield Goal (180 bu Actual Yield)
Pivot Irrigated Electric, 800 GPM 35 PSI, 13 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
2 Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
3 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4 Plant	1		2.40	0.77	0.86	2.54	2.70	3.53	12.80	
5 Row Crop Cultivation	1		2.00	0.90	0.78	0.44	2.45	1.52	8.09	
6 Spray Herbicide	Custom									
7 Aerial Spray	Custom									
8 Aerial Spray	Custom									
9 Pivot E 125' Lift w/fertigation	13		12.04	37.96	3.80	22.48	6.66	12.34	95.28	
10 Combine Irr Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
11 Cart	180	bu	2.57	0.99	1.01	1.65	3.15	0.97	10.34	
12 Truck	Custom									
13 Dry Grain	Custom									
Total for Field Operations			26.64	48.83	14.99	31.53	27.72	25.38	175.09	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							32-0-0
Balance Flexx	Herbicide	3	100%	4 ounce	5.00	20.00	
Bicep II Magnum	Herbicide	3	100%	2.1 quart	11.25	23.63	
10-34-0	Fertilizer	4	100%	8 gallon	2.30	18.40	
Corn SmartStax RIB Complete	Seed	4	100%	29.2 k seed	3.75	109.62	
32-0-0 (Applied by R2)	Fertilizer	8	100%	40 lbs N	0.32	12.80	
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	0.28	0.48	
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%	180 bushel	0.11	19.80	
Dry 2 Points Removed	Custom	13	10%	180 bushel	0.08	1.44	
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00	
	Crop Insurance				6.00	6.00	
Total Materials & Services						343.05	

Total listed costs for Field Operations and Materials and Services						518.14	
Interest on Operations Capital \$ 465.04	cash expense @	5.50%	for 6.0 mo.			12.79	
Total Operating and Use Related Ownership Costs						530.93	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Pivot (Panhandle)	\$ 2,815	per acre @	3.00%		84.45	
Real Estate Taxes		\$ 2,815	per acre @	1.00%		28.15	
Total Cost per Acre Including Overhead						663.53	
Cost per bu						3.69	
Cash Cost per bu						2.65	

2018 Budget 36-Corn, Bt, ECB, RR2, & RIB, Panhandle, Conventional Tillage, after Beans, 200 bu Yield Goal (190 bu Actual Yield)
Pivot Irrigated Electric, 800 GPM 35 PSI, 13 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
2 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
3 Plant	1		2.40	0.77	0.86	2.54	2.70	3.53	12.80	
4 Row Crop Cultivation	1		2.00	0.90	0.78	0.44	2.45	1.52	8.09	
5 Spray Herbicide	Custom									
6 Aerial Spray	Custom									
7 Aerial Spray	Custom									
8 Pivot E 125' Lift w/fertigation	13		12.04	37.96	3.80	22.48	6.66	12.34	95.28	
9 Combine Irr Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
10 Cart	190	bu	2.71	1.04	1.07	1.74	3.33	1.02	10.91	
11 Truck	Custom									
12 Dry Grain	Custom									
Total for Field Operations			24.76	46.74	14.75	30.35	23.86	24.29	164.75	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								32-0-0
Balance Flexx	Herbicide	2	100%	4 ounce	5.00	20.00		
Bicep II Magnum	Herbicide	2	100%	2.1 quart	11.25	23.63		
10-34-0	Fertilizer	3	100%	8 gallon	2.30	18.40		
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%	40 lbs N	0.32	12.80		
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	1.72	20.63		
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%	190 bushel	0.11	20.90		
Dry 2 Points Removed	Custom	12	10%	190 bushel	0.08	1.52		
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00		
	Crop Insurance				6.00	6.00		
Total Materials & Services							317.28	

Total listed costs for Field Operations and Materials and Services						482.03	
Interest on Operations Capital \$ 433.88	cash expense @	5.50%	for 6.0 mo.			11.93	
Total Operating and Use Related Ownership Costs						493.96	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Pivot (Panhandle)	\$ 2,815	per acre @	3.00%		84.45	
Real Estate Taxes		\$ 2,815	per acre @	1.00%		28.15	
Total Cost per Acre Including Overhead						626.56	
Cost per bu						3.30	
Cash Cost per bu						2.35	

2018 Budget 37-Corn, SmartStax RIB Complete, Conventional Tillage, Continuous, 235 bu Yield Goal (220 bu Actual Yield)
Pivot Irrigated Diesel, 800 GPM 35 PSI, 13 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
2 Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
3 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4 Plant	1		2.40	0.77	0.86	2.54	2.70	3.53	12.80	
5 Row Crop Cultivation	1		2.00	0.90	0.78	0.44	2.45	1.52	8.09	
6 Row Crop Cultivation	0.25		0.50	0.22	0.20	0.11	0.61	0.38	2.02	
7 Spray Insecticide	Custom									
8 Spray	Custom									
9 Pivot D 125' Lift w/fertigation	13	ai	12.04	67.96	4.46	22.48	5.97	12.34	125.25	
10 Combine Irr Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
11 Cart	220	bu	3.14	1.21	1.23	2.01	3.85	1.19	12.63	
12 Truck	Custom									
13 Dry Grain	Custom									
Total for Field Operations			27.71	79.27	16.07	32.00	28.34	25.98	209.37	

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	2.30	13.80	
32-0-0 (Applied by R2)	Fertilizer	9	100%	220 lbs N	0.32	70.40	
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%	220 bushel	0.11	24.20	
Dry 2 Points Removed	Custom	13	20%	220 bushel	0.08	3.52	
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00	
	Crop Insurance				6.12	6.12	
Total Materials & Services		31,200 seeds per acre, 80,000 per bag, 5% Refuge				313.87	

Total listed costs for Field Operations and Materials and Services						523.24
Interest on Operations Capital	\$ 468.92	cash expense @	5.50%	for 6.0 mo.		12.90
Total Operating and Use Related Ownership Costs						536.14
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00
Real Estate Opportunity	Pivot (State)	\$ 6,295	per acre @	3.00%		188.85
Real Estate Taxes		\$ 6,295	per acre @	1.00%		62.95
Total Cost per Acre Including Overhead						807.94
Cost per bu						3.67
Cash Cost per bu						2.19

**2018 Budget 38-Corn, Silage, No Till, Following Corn (26 ton Actual Yield)
Pivot Irrigated Diesel, 800 GPM 35 PSI, 12 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
2 Spread Manure	Custom									
3 Plant No-Till	1		2.40	0.95	0.86	4.41	2.70	6.13	17.45	
4 Spray Herbicide	Custom									
5 Pivot D 125' Lift	12	ai	8.33	62.74	4.12	19.37	5.51	10.63	110.70	
6 Aerial Spray	Custom									
7 Chop Silage	Custom									
Total for Field Operations			11.73	63.99	5.33	24.07	9.29	16.80	131.21	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								2,4-D Ester LV4
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	0.09	0.26		
UAN	Additive	4	50%	4 pint	0.16	0.33		
* Aerial Spray	Custom	6	15%	1 acre	10.00	1.50		
* Brigade 2EC	Insecticide	6	10%	2.5 ounce	0.70	0.18		
* Mustang Max EC	Insecticide	6	5%	2 ounce	1.41	0.14		
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				6.00	6.00		
Total Materials & Services							556.14	

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

Total listed costs for Field Operations and Materials and Services						687.35	
Interest on Operations Capital	\$ 661.26	cash expense @	5.50%	for 6.0 mo.		18.18	
Total Operating and Use Related Ownership Costs						705.53	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Pivot (State)	\$ 6,295	per acre @	3.00%		188.85	
Real Estate Taxes		\$ 6,295	per acre @	1.00%		62.95	
Total Cost per Acre Including Overhead						977.33	
Cost per ton						37.59	
Cash Cost per ton						26.13	

**2018 Budget 39-Dry Beans, Reduced Till, after Harvest of Wheat Cover Crop (27 cwt Actual Yield)
Pivot Irrigated Electric, 800 GPM 35 PSI, 8 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00/Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
2 Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
3 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4 Plant	1		2.40	0.77	0.86	2.54	2.70	3.53	12.80	
5 Pivot E 125' Lift	8	ai	5.56	23.36	2.34	12.91	4.10	7.09	55.36	
6 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
7 Aerial Spray	Custom									
8 Aerial Spray	Custom									
9 Pickett Windrowers	1		2.20	1.71	0.86	0.72	2.70	1.27	9.46	
10 Combine Irr Dry Beans	1		4.40	5.92	10.23	2.03	8.17	2.65	33.40	
11 Truck	Custom									
12 Drill	1		1.76	1.12	0.69	2.94	2.16	2.35	11.02	
Total for Field Operations			21.81	37.16	16.56	24.32	27.83	19.62	147.30	

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	4	100%	0.65 cwt	92.00	59.80	
10-34-0-1Zn	Fertilizer	4	100%	7 gallon	2.35	16.45	
46-0-0	Fertilizer	4	100%	50 lbs N	0.36	18.00	
Electricity Fixed	Other	5	100%	1 acre	30.00	30.00	
Basagran	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	0.09	0.26	
UAN	Additive	6	60%	4 pint	0.16	0.39	
* 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	Seed	12	100%	30 pound	0.10	3.00	
Scouting Dry Beans	Scouting		100%	1 acre	10.00	10.00	
Crop Insurance					16.30	16.30	

Total Materials & Services Electricity connect fee 6 months @ \$72/mo 133 acres 254.97

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

Total listed costs for Field Operations and Materials and Services 402.27

Interest on Operations Capital \$ 354.82 cash expense @ 5.50% for 6.0 mo. 9.76

Total Operating and Use Related Ownership Costs 412.03

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

Real Estate Opportunity Pivot (Panhandle) \$ 2,815 per acre @ 3.00% 84.45

Real Estate Taxes \$ 2,815 per acre @ 1.00% 28.15

Total Cost per Acre Including Overhead 544.63

Cost per cwt 20.17

Cash Cost per cwt 13.50

2018 Budget 40-Dry Beans, Conventional Tillage (27 cwt Actual Yield)
Gravity Irrigated, fed by canal, 10 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Chop Stalks	1		1.78	1.31	0.70	0.35	2.19	1.59	7.92	
2 Disk	2		4.03	4.28	0.60	2.54	8.07	2.27	21.79	
3 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4 Plow	1		2.93	2.25	0.44	0.86	5.87	0.52	12.87	
5 Roller Harrow	1		2.00	1.41	0.86	0.52	2.70	1.52	9.01	
6 Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
7 Plant	1		2.40	0.77	0.86	2.54	2.70	3.53	12.80	
8 Spray Herbicide	0.6		0.60	0.18	0.21	0.17	0.65	0.03	1.84	
9 Row Crop Cultivation	1		2.00	0.90	0.78	0.44	2.45	1.52	8.09	
10 Ridge Cultivate/Ditch	1		1.83	1.25	0.72	0.37	2.25	1.52	7.94	
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	1.71	0.86	0.72	2.70	1.27	9.46	
15 Combine Irr Dry Beans	1		4.40	5.92	10.23	2.03	8.17	2.65	33.40	
16 Truck	Custom									
17 Chisel	1		1.98	2.10	0.78	2.11	2.43	1.51	10.91	
Total for Field Operations			39.73	23.92	17.97	14.27	43.06	19.48	158.43	

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	7	100%	0.65 cwt	92.00	59.80	
10-34-0-1Zn	Fertilizer	7	100%	7 gallon	2.35	16.45	
46-0-0	Fertilizer	7	100%	50 lbs N	0.36	18.00	
Basagran	Herbicide	8	60%	1 pint	10.00	6.00	
Raptor	Herbicide	8	60%	4 ounce	4.77	11.44	
NIS	Additive	8	60%	5 ounce	0.09	0.26	
UAN	Additive	8	60%	4 pint	0.16	0.39	
* 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				16.30	16.30	
Total Materials & Services						251.97	

* Mexican Bean Beetle and Western Bean Cutworm

Total listed costs for Field Operations and Materials and Services						410.40
Interest on Operations Capital \$ 347.86	cash expense @	5.50%	for 6.0 mo.			9.57
Total Operating and Use Related Ownership Costs						419.97

Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00
Real Estate Opportunity	Gravity (Panhandle)	\$ 2,580	per acre @	3.00%		77.40
Real Estate Taxes		\$ 2,580	per acre @	1.00%		25.80
Total Cost per Acre Including Overhead						543.17

Cost per cwt		20.12
Cash Cost per cwt		13.24

2018 Budget 41-Dry Beans, Conventional Tillage (27 cwt Actual Yield)
Pivot Irrigated Electric, 800 GPM 35 PSI, 9 acre/inches

	Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	2		4.03	4.28	0.60	2.54	8.07	2.27	21.79	
2	Chisel	1		1.98	2.10	0.78	2.11	2.43	1.51	10.91	
3	Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4	Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
5	Plant	1		2.40	0.77	0.86	2.54	2.70	3.53	12.80	
6	Spray Herbicide	0.6		0.60	0.18	0.21	0.17	0.65	0.03	1.84	
7	Row Crop Cultivation	1		2.00	0.90	0.78	0.44	2.45	1.52	8.09	
8	Pivot E 125' Lift	9	ai	6.25	26.28	2.63	14.53	4.61	7.97	62.27	
9	Aerial Spray	Custom									
10	Aerial Spray	Custom									
11	Pickett Windrowers	1		2.20	1.71	0.86	0.72	2.70	1.27	9.46	
12	Combine Irr Dry Beans	1		4.40	5.92	10.23	2.03	8.17	2.65	33.40	
13	Truck	Custom									
Total for Field Operations				26.33	43.98	17.88	26.70	34.66	22.30	171.85	

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%	0.65 cwt	92.00	59.80	
10-34-0-1Zn	Fertilizer	5	100%	7 gallon	2.35	16.45	
46-0-0	Fertilizer	5	100%	50 lbs N	0.36	18.00	
Raptor	Herbicide	6	60%	4 ounce	4.77	11.44	
Basagran	Herbicide	6	60%	1 pint	10.00	6.00	
NIS	Additive	6	60%	5 ounce	0.09	0.26	
UAN	Additive	6	60%	4 pint	0.16	0.39	
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				16.30	16.30	
Total Materials & Services						251.97	

* Mexican Bean Beetle and Western Bean Cutworm

Total listed costs for Field Operations and Materials and Services 423.82

Interest on Operations Capital \$ 366.86 cash expense @ 5.50% for 6.0 mo. 10.09

Total Operating and Use Related Ownership Costs 433.91

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

Real Estate Opportunity Pivot (Panhandle) \$ 2,815 per acre @ 3.00% 84.45

Real Estate Taxes \$ 2,815 per acre @ 1.00% 28.15

Total Cost per Acre Including Overhead 566.51

Cost per cwt 20.98

Cash Cost per cwt 13.96

**2018 Budget 42-Dry Beans, Direct Harvest, Conventional Tillage (27 cwt Actual Yield)
Pivot Irrigated Electric, 800 GPM 35 PSI, 9 acre/inches**

	Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	2		4.03	4.28	0.60	2.54	8.07	2.27	21.79	
2	Chisel	1		1.98	2.10	0.78	2.11	2.43	1.51	10.91	
3	Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4	Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
5	Plant	1		2.40	0.77	0.86	2.54	2.70	3.53	12.80	
6	Spray Herbicide	0.6		0.60	0.18	0.21	0.17	0.65	0.03	1.84	
7	Pivot E 125' Lift	9		6.25	26.28	2.63	14.53	4.61	7.97	62.27	
8	Aerial Spray	Custom	ai								
9	Aerial Spray	Custom									
10	Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
11	Combine Irrigated Dry Beans with Draper Flex Platform	1		4.40	5.92	10.23	2.03	8.17	2.65	33.40	
12	Truck	Custom									
Total for Field Operations				23.13	41.67	16.59	25.83	30.59	19.55	157.36	

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	2.35	16.45	
46-0-0	Fertilizer	5	100%	50 lbs N	0.36	18.00	
Raptor	Herbicide	6	60%	4 ounce	4.77	11.44	
Basagran	Herbicide	6	60%	1 pint	10.00	6.00	
NIS	Additive	6	60%	5 ounce	0.09	0.26	
UAN	Additive	6	60%	4 pint	0.16	0.39	
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	Herbicide	10	100%	2 pint	2.50	5.00	
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				16.30	16.30	
Total Materials & Services						289.17	

* Mexican Bean Beetle and Western Bean Cutworm

Total listed costs for Field Operations and Materials and Services		446.53
Interest on Operations Capital \$ 396.39	cash expense @ 5.50% for 6.0 mo.	10.90

Total Operating and Use Related Ownership Costs	457.43
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Overhead (accounting, liability insurance, vehicle cost, office expense) 20.00

Real Estate Opportunity	Pivot (Panhandle)	\$ 2,815	per acre @ 3.00%	84.45
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Real Estate Taxes	\$ 2,815	per acre @ 1.00%	28.15
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Total Cost per Acre Including Overhead	590.03
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Cost per cwt	21.85
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Cash Cost per cwt	15.08
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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.

**2018 Budget 43-Grain Sorghum, Conventional Tillage, 105 bu Yield Goal (95 bu Actual Yield)
Dryland**

	Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
2	Anhydrous Application	1		1.83	1.49	0.72	0.58	2.25	3.63	10.50	
3	Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
4	Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
5	Plant	1		2.40	0.77	0.86	2.54	2.70	3.53	12.80	
6	Row Crop Cultivation	1		2.00	0.90	0.78	0.44	2.45	1.52	8.09	
7	Row Crop Cultivation	0.25		0.50	0.22	0.20	0.11	0.61	0.38	2.02	
8	Spray Herbicide	0.5		0.50	0.15	0.17	0.14	0.54	0.02	1.52	
9	Aerial Spray	Custom									
10	Combine Dryland SG	1		3.38	4.55	7.87	1.11	6.29	2.65	25.85	
11	Cart	95	bu	1.36	0.52	0.53	0.87	1.66	0.51	5.45	
12	Truck	Custom									
Total for Field Operations				16.46	12.58	12.36	8.68	23.42	14.93	88.43	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								82-0-0
10-34-0	Fertilizer	4	100%	6 gallon	2.30	13.80		
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	3.00	12.00		
Huskie	Herbicide	8	50%	11 ounce	0.94	5.16		
21-0-0-24S	Additive	8	50%	1 pound	0.28	0.14		
* Aerial Spray	Custom	9	15%	1 acre	10.00	1.50		
* Lorsban Advanced	Insecticide	9	15%	1.5 pint	6.88	1.55		
Haul Grain Bushels	Custom	12	100%	95 bushel	0.11	10.45		
Scouting Grain Sorghum	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				8.82	8.82		
Total Materials & Services							142.67	

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

Total listed costs for Field Operations and Materials and Services

231.10

Interest on Operations Capital \$ 192.75 cash expense @ 5.50% for 6.0 mo.

5.30

Total Operating and Use Related Ownership Costs

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

20.00

** Real Estate Opportunity Dryland (Southwest) \$ 1,197 per acre @ 3.00% 35.91

** Real Estate Taxes \$ 1,197 per acre @ 1.00% 11.97

Total Cost per Acre Including Overhead 304.28

Cost per bu 3.20

Cash Cost per bu 2.08

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

**2018 Budget 44-Grain Sorghum, No Till, 125 bu Yield Goal (115 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 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	0.00	1.08	17.38	20.11	
3	Plant No-Till	1	2.40	0.95	0.86	4.41	2.70	6.13	17.45	
4	Spray Herbicide	0.5	0.50	0.15	0.17	0.14	0.54	0.02	1.52	
5	Aerial Spray	Custom								
6	Combine Dryland SG	1	3.38	4.55	7.87	1.11	6.29	2.65	25.85	
7	Cart	115	bu							
8	Truck	Custom								
Total for Field Operations			8.28	6.25	9.60	6.30	11.69	26.99	69.11	

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	0.28	0.48		
32-0-0	Fertilizer	2	100%	120 lbs N	0.32	38.40		
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	2.30	13.80		
Sorghum Safened/Insect	Seed	3	100%	4 pound	3.00	12.00		
Huskie	Herbicide	4	50%	11 ounce	0.94	5.16		
21-0-0-24S	Additive	4	50%	1 pound	0.28	0.14		
* Aerial Spray	Custom	5	15%	1 acre	10.00	1.50		
* Lorsban Advanced	Insecticide	5	15%	1.5 pint	6.88	1.55		
Haul Grain Bushels	Custom	8	100%	115 bushel	0.11	12.65		
Scouting Grain Sorghum	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				9.58	9.58		
Total Materials & Services							164.39	

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

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital	\$ 194.82	cash expense @	5.50%	for 6.0 mo.	5.36	
Total Operating and Use Related Ownership Costs					238.86	

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

** Real Estate Opportunity	Dryland (State)	\$ 2,202	per acre @	3.00%	66.05	
** Real Estate Taxes		\$ 2,202	per acre @	1.00%	22.02	

Total Cost per Acre Including Overhead	346.93
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Cost per bu	3.02
Cash Cost per bu	1.74

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

**2018 Budget 45-Grain Sorghum, Ecofallow, after Wheat, Two Crops in Three Years, 115 bu Yield Goal (105 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 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	0.29	1.08	0.04	3.06	
3 Spray Fertilizer and Herbicide	1		1.00	0.30	0.35	0.00	1.08	17.38	20.11	
4 No-Till Drill	1		1.83	1.43	0.72	1.57	2.25	3.21	11.01	
5 Spray Herbicide	0.5		0.50	0.15	0.17	0.14	0.54	0.02	1.52	
6 Aerial Spray	Custom									
7 Combine Dryland SG	1		3.38	4.55	7.87	1.11	6.29	2.65	25.85	
8 Cart	105	bu	1.50	0.58	0.59	0.96	1.84	0.57	6.04	
9 Truck	Custom									
Total for Field Operations			10.21	7.61	10.40	4.71	14.16	24.68	71.77	

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	0.28	0.48		
AAtrex 4L	Herbicide	2	100%	1 quart	4.50	4.50		
Gramoxone SL	Herbicide	2	100%	1.5 pint	2.50	3.75		
32-0-0	Fertilizer	3	100%	110 lbs N	0.32	35.20		
Lumax EZ	Herbicide	3	100%	2.7 quart	20.00	54.00		
10-34-0	Fertilizer	4	100%	6 gallon	2.30	13.80		
Sorghum Safened/Insect	Seed	4	100%	4 pound	3.00	12.00		
Huskie	Herbicide	5	50%	11 ounce	0.94	5.16		
21-0-0-24S	Additive	5	50%	1 pound	0.28	0.14		
* Aerial Spray	Custom	6	15%	1 acre	10.00	1.50		
* Lorsban Advanced	Insecticide	6	15%	1.5 pint	6.88	1.55		
Haul Grain Bushels	Custom	9	100%	105 bushel	0.11	11.55		
Scouting Grain Sorghum	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				9.22	9.22		
Total Materials & Services							165.73	

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

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 198.66 cash expense @ 5.50% for 6.0 mo. 5.46

Total Operating and Use Related Ownership Costs

242.96

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

20.00

** Real Estate Opportunity Dryland (Southwest) \$ 1,197 per acre @ 3.00% 35.91

** Real Estate Taxes \$ 1,197 per acre @ 1.00% 11.97

Total Cost per Acre Including Overhead

310.84

Cost per bu 2.96

Cash Cost per bu 1.94

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

**2018 Budget 46-Grain Sorghum, No Till, Limited Irrigation, 165 bu Yield Goal (150 bu Actual Yield)
Pivot Irrigated Diesel, 800 GPM 35 PSI, 6 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 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	1.49	0.72	0.58	2.25	3.63	10.50	
3 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4 Plant No-Till	1		2.40	0.95	0.86	4.41	2.70	6.13	17.45	
5 Spray Herbicide	0.5		0.50	0.15	0.17	0.14	0.54	0.02	1.52	
6 Aerial Spray	Custom									
7 Pivot D 125' Lift	6	ai	4.17	31.37	2.06	9.68	2.75	5.32	55.35	
8 Combine Irr SG	1		3.38	4.55	7.87	1.11	6.29	2.65	25.85	
9 Cart	150	bu	2.14	0.82	0.84	1.37	2.63	0.81	8.61	
10 Truck	Custom									
Total for Field Operations			16.42	39.93	13.22	18.22	19.32	19.41	126.52	

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	1	100%	1.7 pound	0.28	0.48		
82-0-0	Fertilizer	2	100%	150 lbs N	0.26	39.00		
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	2.30	13.80		
Sorghum Safened/Insect	Seed	4	100%	6 pound	3.00	18.00		
Huskie	Herbicide	5	50%	11 ounce	0.94	5.16		
21-0-0-24S	Additive	5	50%	1 pound	0.28	0.14		
* Aerial Spray	Custom	6	15%	1 acre	10.00	1.50		
* Lorsban Advanced	Insecticide	6	15%	1.5 pint	6.88	1.55		
Haul Grain Bushels	Custom	10	100%	150 bushel	0.11	16.50		
Scouting Grain Sorghum	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				7.33	7.33		
Total Materials & Services							172.59	

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

Total listed costs for Field Operations and Materials and Services						299.11	
Interest on Operations Capital \$ 260.38	cash expense @	5.50%	for 6.0 mo.			7.16	
Total Operating and Use Related Ownership Costs						306.27	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
** Real Estate Opportunity	Pivot (Marginal Land)	\$ 3,085	per acre @	3.00%		92.54	
** Real Estate Taxes		\$ 3,085	per acre @	1.00%		30.85	
Total Cost per Acre Including Overhead						449.66	
Cost per bu						3.00	
Cash Cost per bu						1.78	

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

**2018 Budget 47-Grass, Conventional Tillage, Fall Establishment
Pivot Irrigated Diesel, 800 GPM 35 PSI, 2 acre/inches**

Field Operations		Times or Qty	Labor @ Unit \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	Disk	1	2.02	2.14	0.30	1.27	4.04	1.14	10.91	_____
2	Field Cultivation	1	1.47	1.54	0.58	1.33	1.80	1.51	8.23	_____
3	Roll	1	2.22	1.71	0.96	0.00	3.00	0.00	7.89	_____
4	Grass Drill	1	2.44	1.34	0.96	6.46	3.00	2.59	16.79	_____
5	Pivot D 125' Lift	2	ai 1.39	10.46	0.69	3.23	0.92	1.77	18.46	_____
6	Spread Fertilizer	1	1.57	0.86	0.68	0.64	2.12	1.51	7.38	_____
Total for Field Operations			11.11	18.05	4.17	12.93	14.88	8.52	69.66	_____

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Grass Seed	Seed						
11-52-0	Fertilizer	6	100%	60 pound	0.24	14.40	_____
Total Materials & Services						89.40	_____

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 135.66 cash expense @ 5.50% for 6.0 mo.

159.06
3.73

Total Operating and Use Related Ownership Costs

162.79

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

20.00

Real Estate Opportunity Fall Establishment \$ - per acre @ 3.00%

Real Estate Taxes \$ - per acre @ 1.00%

0.00
0.00

Total Cost per Acre Including Overhead

182.79

2018 Budget 48-Grass Hay, Large Round Bale (2.2 ton Actual Yield)

Field Operations		Times or Qty	Labor @ Unit \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	Spread Fertilizer	1	1.57	0.86	0.68	0.64	2.12	1.51	7.38	_____
2	Swath/Condition Hay	1	2.00	1.41	2.31	0.35	3.33	8.35	17.75	_____
3	Large Round Bale	2.2	ton 4.84	1.78	1.90	2.37	5.93	2.28	19.10	_____
4	Move Large Round	2.2	ton 2.42	1.24	0.95	0.00	2.97	0.12	7.70	_____
Total for Field Operations			10.83	5.29	5.84	3.36	14.35	12.26	51.93	_____
Materials & Services				Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
46-0-0		Fertilizer		1	100%	40 lbs N	0.36	14.40	_____	
11-52-0		Fertilizer		1	100%	15 pound	0.24	3.60	_____	
Twine Large Round		Other		3	100%	2.2 ton	0.91	2.00	_____	
Total Materials & Services								20.00	_____	
Total listed costs for Field Operations and Materials and Services									71.93	_____
Interest on Operations Capital \$ 45.32 cash expense @ 5.50% for 6.0 mo.								1.25	_____	
Total Operating and Use Related Ownership Costs									73.18	_____
Overhead (accounting, liability insurance, vehicle cost, office expense)									20.00	_____
Real Estate Opportunity		Dryland (State)	\$	3,145	per acre @	3.00%		94.35	_____	
Real Estate Taxes			\$	3,145	per acre @	1.00%		31.45	_____	
Total Cost per Acre Including Overhead									218.98	_____
Cost per ton									99.53	_____
Cash Cost per ton									21.17	_____

**2018 Budget 49-Millet, Panhandle, Stubble Mulch Fallow, Followed by Wheat, Two Crops in Three Years (22 cwt Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
2 Fallow Master	1		1.76	1.94	0.26	0.96	3.52	1.51	9.95	
3 Rod Weeder	1		1.52	1.14	0.65	0.23	2.04	0.91	6.49	
4 Spray Fertilizer	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
5 Drill	1		1.76	1.12	0.69	2.94	2.16	2.35	11.02	
6 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
7 Windrow Grain	1		2.00	1.41	2.31	0.00	3.33	0.85	9.90	
8 Combine Small Grain	1		3.14	4.21	7.31	0.94	5.84	2.65	24.09	
9 Truck		Custom								
Total for Field Operations			13.18	10.72	12.27	5.84	20.13	10.38	72.52	

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%	1.5 pint	2.13	3.19		
21-0-0-24S	Additive	1	100%	1.7 pound	0.28	0.48		
28-0-0	Fertilizer	4	100%	45 lbs N	0.37	16.50		
Millet	Seed	5	100%	12 pound	0.45	5.40		
2,4-D Amine	Herbicide	6	100%	0.75 pint	1.63	1.22		
Dicamba	Herbicide	6	100%	0.5 ounce	0.34	0.17		
Haul Grain (Millet)	Custom	9	100%	22 cwt	0.24	5.28		
Total Materials & Services							35.99	

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 78.00	cash expense @ 5.50% for 6.0 mo.	108.51	
		2.15	
Total Operating and Use Related Ownership Costs		110.66	

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

Real Estate Opportunity	Dryland (Panhandle)	\$ 715	per acre @ 3.00%	21.45		
Real Estate Taxes		\$ 715	per acre @ 1.00%	7.15		
Total Cost per Acre Including Overhead					159.26	

Cost per cwt

Cost per cwt	7.24	
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Cash Cost per cwt	3.64	
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**2018 Budget 50-Millet, No Till (22 cwt Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06	
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	1.43	0.72	1.57	2.25	3.21	11.01	
4	Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06	
5	Windrow Grain	1	2.00	1.41	2.31	0.00	3.33	0.85	9.90	
6	Combine Small Grain	1	3.14	4.21	7.31	0.94	5.84	2.65	24.09	
7	Truck	Custom								
Total for Field Operations			9.97	7.95	11.39	3.28	14.66	8.82	56.07	

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	0.28	0.48	
28-0-0	Fertilizer	2	100%	45 lbs N	0.37	16.50	
Glyphosate w/Surfactant	Herbicide	2	100%	20 ounce	0.12	2.34	
Vida	Herbicide	2	100%	2 ounce	4.06	8.13	
Millet	Seed	3	100%	12 pound	0.45	5.40	
2,4-D Amine	Herbicide	4	100%	0.75 pint	1.63	1.22	
Dicamba	Herbicide	4	100%	0.5 ounce	0.34	0.17	
Haul Grain (Millet)	Custom	7	100%	22 cwt	0.24	5.28	
Total Materials & Services						43.74	

Total listed costs for Field Operations and Materials and Services						99.81	
Interest on Operations Capital	\$ 76.33	cash expense @	5.50%	for 6.0 mo.		2.10	
Total Operating and Use Related Ownership Costs						101.91	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Dryland (Panhandle)	\$ 715	per acre @	3.00%		21.45	
Real Estate Taxes		\$ 715	per acre @	1.00%		7.15	
Total Cost per Acre Including Overhead						150.51	
Cost per cwt						6.84	
Cash Cost per cwt						3.56	

**2018 Budget 51-Oats, No Till, 90 bu Yield Goal (85 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 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	1.43	0.72	1.57	2.25	3.21	11.01	
3 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4 Combine Small Grain	1		3.14	4.21	7.31	0.94	5.84	2.65	24.09	
5 Truck	Custom									
Total for Field Operations			6.97	6.24	8.73	2.99	10.25	7.93	43.11	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
			Rate	Unit			
28-0-0	Fertilizer	1	100%	100 lbs N	0.37	36.67	
Oats	Seed	2	100%	2 bushel	11.00	22.00	
10-34-0	Fertilizer	2	100%	6 gallon	2.30	13.80	
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	0.09	0.52	
Haul Grain Bushels	Custom	5	100%	85 bushel	0.11	9.35	
Total Materials & Services						86.37	

Total listed costs for Field Operations and Materials and Services 129.48

Interest on Operations Capital \$ 111.30 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs 132.54

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

Real Estate Opportunity \$ 3,145 per acre @ 3.00% 94.35

Real Estate Taxes \$ 3,145 per acre @ 1.00% 31.45

Total Cost per Acre Including Overhead 278.34

Cost per bu 3.27

Cash Cost per bu 1.35

2018 Budget 52-Pasture, Grazing (11 AUM Actual Yield)
Pivot Irrigated Diesel, 800 GPM 35 PSI, 18 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Pivot D 125' Lift	18	ai	12.50	94.10	6.17	29.05	8.26	15.95	166.03	
Total for Field Operations			12.50	94.10	6.17	29.05	8.26	15.95	166.03	
Materials & Services										
				Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
28-0-0		Fertilizer		1	100%	220 lbs N	0.37	80.67		
Fence/Water Repairs		Other			100%	1 acre	2.00	2.00		
Fence/Water Repairs		Other			100%	1 acre	2.00	2.00		
Move Cattle		Other			100%	1 hour	20.00	20.00		
Total Materials & Services								104.67		
Total listed costs for Field Operations and Materials and Services								270.70		
Interest on Operations Capital \$ 246.49 cash expense @ 5.50% for 6.0 mo.								6.78		
Total Operating and Use Related Ownership Costs								277.48		
Overhead (accounting, liability insurance, vehicle cost, office expense)								20.00		
Real Estate Opportunity		Pivot (Marginal Land)	\$ 4,407		per acre @	3.00%		132.20		
Real Estate Taxes			\$ 4,407		per acre @	1.00%		44.07		
Total Cost per Acre Including Overhead								473.75		
Cost per AUM								43.07		
Cash Cost per AUM								23.02		

**2018 Budget 53-Peas, No Till (35 bu Actual Yield)
Dryland**

Field Operations		Times or Qty	Labor @ Unit \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	No-Till Drill	1	1.83	1.43	0.72	1.57	2.25	3.21	11.01	_____
2	Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06	_____
3	Combine Small Grain	1	3.14	4.21	7.31	0.94	5.84	2.65	24.09	_____
4	Truck	Custom								_____
Total for Field Operations			5.97	5.94	8.38	2.80	9.17	5.90	38.16	_____
Materials & Services				Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
	Peas	Seed		1	100%	3 bushel	18.00	54.00	_____	
	Pea Seed Inoculant	Fungicide		1	100%	1 pound	8.00	8.00	_____	
	Sharpen	Herbicide		2	100%	2 ounce	6.80	13.59	_____	
	Glyphosate w/Surfactant	Herbicide		2	100%	32 ounce	0.12	3.75	_____	
	21-0-0-24S	Additive		2	100%	1.7 pound	0.28	0.48	_____	
	Haul Grain Bushels	Custom		4	100%	35 bushel	0.11	3.85	_____	
Total Materials & Services									83.67	_____
Total listed costs for Field Operations and Materials and Services									121.83	_____
Interest on Operations Capital \$ 106.76 cash expense @ 5.50% for 6.0 mo.									2.94	_____
Total Operating and Use Related Ownership Costs									124.77	_____
Overhead (accounting, liability insurance, vehicle cost, office expense)									20.00	_____
	Real Estate Opportunity	Dryland (Panhandle)	\$	715	per acre @	3.00%		21.45	_____	
	Real Estate Taxes		\$	715	per acre @	1.00%		7.15	_____	
Total Cost per Acre Including Overhead									173.37	_____
Cost per bu									4.95	_____
Cash Cost per bu									3.13	_____

**2018 Budget 54-Sorghum-Sudan, Annually Planted, Conventional Tillage, Large Round Bale (3.3 ton Actual Yield)
Dryland**

Field Operations		Times or Qty	Labor @ Unit \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate	
					Power	Imp.	Power	Imp.			
1	Disk	1	2.02	2.14	0.30	1.27	4.04	1.14	10.91	_____	
2	Spray Fertilizer	1	1.00	0.30	0.35	0.19	1.08	2.03	4.95	_____	
3	Field Cultivation	1	1.47	1.54	0.58	1.33	1.80	1.51	8.23	_____	
4	Drill	1	1.76	1.12	0.69	2.94	2.16	2.35	11.02	_____	
5	Swath/Condition Hay	1	2.00	1.41	2.31	0.35	3.33	8.35	17.75	_____	
6	Large Round Bale	3.3	ton	7.26	2.67	2.85	3.55	8.90	3.41	28.64	_____
7	Move Large Round	3.3	ton	3.63	1.86	1.42	0.00	4.45	0.18	11.54	_____
Total for Field Operations			19.14	11.04	8.50	9.63	25.76	18.97	93.04	_____	
Materials & Services				Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate		
28-0-0		Fertilizer	2	100%	40 lbs N	0.37	14.67	_____			
Sorghum Sudan		Seed	4	100%	10 pound	0.90	9.00	_____			
Twine Large Round		Other	6	100%	3.3 ton	0.91	3.00	_____			
Total Materials & Services								26.67	_____		
Total listed costs for Field Operations and Materials and Services								119.71	_____		
Interest on Operations Capital \$ 74.98 cash expense @ 5.50% for 6.0 mo.								2.06	_____		
Total Operating and Use Related Ownership Costs								121.77	_____		
Overhead (accounting, liability insurance, vehicle cost, office expense)								20.00	_____		
Real Estate Opportunity		Dryland (State)	\$ 3,145	per acre @	3.00%		94.35	_____			
Real Estate Taxes			\$ 3,145	per acre @	1.00%		31.45	_____			
Total Cost per Acre Including Overhead								267.57	_____		
Cost per ton								81.08	_____		
Cash Cost per ton								23.35	_____		

**2018 Budget 55-Soybeans, Roundup Ready® , Conventional Tillage, after Corn~ (40 bu Actual Yield)
Dryland**

Field Operations		Times or Qty	Labor @ Unit \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	Disk	1	2.02	2.14	0.30	1.27	4.04	1.14	10.91	
2	Field Cultivation	1	1.47	1.54	0.58	1.33	1.80	1.51	8.23	
3	Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4	Plant	1	2.40	0.77	0.86	2.54	2.70	3.53	12.80	
5	Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06	
6	Aerial Spray	Custom								
7	Combine Dryland SB	1	3.38	4.55	7.87	1.11	6.29	2.65	25.85	
8	Truck	Custom								
Total for Field Operations			11.27	9.60	10.31	6.83	16.99	8.91	63.91	

Materials & Services			Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Valor XLT	Herbicide		3	100%	3 ounce	5.75	17.25	
RR2 Soybeans	Seed		4	100%	1 bag	50.00	50.00	
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	0.28	0.48	
* 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					12.68	12.68	
Total Materials & Services							103.65	

* Insecticide for Aphids and Caterpillars

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital	\$ 141.66	cash expense @	5.50%	for 6.0 mo.	3.90
Total Operating and Use Related Ownership Costs					171.46

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

Real Estate Opportunity	Dryland (State)	\$ 3,145	per acre @	3.00%	94.35
Real Estate Taxes		\$ 3,145	per acre @	1.00%	31.45
Total Cost per Acre Including Overhead					317.26

Cost per bu	7.93
Cash Cost per bu	3.64

~See benefits of soybeans in a corn/soybean rotation

**2018 Budget 56-Soybeans, Roundup Ready®, No Till, after Corn~ (45 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 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	0.29	1.08	0.04	3.06	
3 Plant No-Till	1		2.40	0.95	0.86	4.41	2.70	6.13	17.45	
4 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
5 Aerial Spray	Custom									
6 Combine Dryland SB	1		3.38	4.55	7.87	1.11	6.29	2.65	25.85	
7 Truck	Custom									
Total for Field Operations			8.78	6.40	9.78	6.74	12.23	9.67	53.60	

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	0.28	0.48		
Valor XLT	Herbicide	2	100%	3 ounce	5.75	17.25		
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	0.28	0.48		
RR2 Soybeans	Seed	3	100%	1 bag	50.00	50.00		
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	0.28	0.48		
* 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				12.68	12.68		
Total Materials & Services							111.97	

* Insecticide for Aphids and Caterpillars

Total listed costs for Field Operations and Materials & Services

Interest on Operations Capital \$ 143.67 cash expense @ 5.50% for 6.0 mo. 165.57

Total Operating and Use Related Ownership Costs 3.95

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

Real Estate Opportunity Dryland (State) \$ 3,145 per acre @ 3.00% 94.35

Real Estate Taxes \$ 3,145 per acre @ 1.00% 31.45

Total Cost per Acre Including Overhead 315.32

Cost per bu 7.01

Cash Cost per bu 3.28

~See benefits of soybeans in a corn/soybean rotation

**2018 Budget 57-Soybeans, Roundup Ready®, No Till, Continuous* (40 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Labor @ Unit	Fuel @ \$2.45 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	0.95	0.86	4.41	2.70	6.13	17.45	
3 Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4 Aerial Spray	Custom								
5 Combine Dryland SB	1	3.38	4.55	7.87	1.11	6.29	2.65	25.85	
6 Truck	Custom								
Total for Field Operations		7.78	6.10	9.43	6.45	11.15	9.63	50.54	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Valor XLT	Herbicide	1	100%	3 ounce	5.75	17.25
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	0.28	0.48
RR2 Soybeans	Seed	2	100%	1 bag	50.00	50.00
Glyphosate w/Surfactant	Herbicide	3	100%	32 ounce	0.12	3.75
21-0-0-24S	Additive	3	100%	1.7 pound	0.28	0.48
* 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				12.68	12.68
Total Materials & Services					104.85	

* Insecticide for Aphids and Caterpillars

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 134.61	cash expense @	5.50%	for 6.0 mo.	3.70
Total Operating and Use Related Ownership Costs				159.09

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

Real Estate Opportunity	Dryland (State)	\$ 3,145	per acre @	3.00%	20.00
Real Estate Taxes		\$ 3,145	per acre @	1.00%	94.35
Total Cost per Acre Including Overhead					31.45
Total Cost per Acre Including Overhead					304.89

Cost per bu	7.62
Cash Cost per bu	3.46

*Cost to replace P₂O₅ - 0.8 lbs/bushel of yield produced

**2018 Budget 58-Soybeans, Roundup Ready® , Conventional Tillage, after Corn~ (62 bu Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 9 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
2 Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
3 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4 Plant	1		2.40	0.77	0.86	2.54	2.70	3.53	12.80	
5 Pivot D 125' Lift	9	ai	6.25	47.05	3.09	14.53	4.13	7.97	83.02	
6 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
7 Aerial Spray	Custom									
8 Aerial Spray	Custom									
9 Combine Irr SB	1		3.67	4.93	8.53	1.33	6.81	2.65	27.92	
10 Truck	Custom									
Total for Field Operations			17.81	57.03	14.06	21.58	21.64	16.88	149.00	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
RR2 Soybeans	Seed	4	100%	1 bag	50.00	50.00	
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	0.28	0.48	
* 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				4.60	4.60	
Total Materials & Services						106.37	

* Insecticide for Aphids and Caterpillars

Total listed costs for Field Operations and Materials and Services		255.37
Interest on Operations Capital \$ 216.85 cash expense @ 5.50% for 6.0 mo.		5.96

Total Operating and Use Related Ownership Costs		261.33
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Overhead (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity <input type="text" value="Pivot (State)"/> \$ 6,295 per acre @ 3.00%		188.85
Real Estate Taxes \$ 6,295 per acre @ 1.00%		62.95
Total Cost per Acre Including Overhead		533.13

Cost per bu		8.60
Cash Cost per bu		3.59

~See benefits of soybeans in a corn/soybean rotation

**2018 Budget 59-Soybeans, Roundup Ready® , Conventional Tillage, after Corn[~] (65 bu Actual 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 @ \$2.45 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	0.96	0.86	6.89	2.70	4.27	18.08	
3 Ridge Cultivation	1		2.00	1.50	0.86	0.89	2.70	1.01	8.96	
4 Ridge Cultivate/Ditch	1		1.83	1.25	0.72	0.37	2.25	1.52	7.94	
5 Pipe D 125' Lift	12	ai	22.22	45.53	3.29	2.28	5.43	3.71	82.46	
6 Spray Herbicide	0.5		0.50	0.15	0.17	0.14	0.54	0.02	1.52	
7 Aerial Spray	Custom									
8 Aerial Spray	Custom									
9 Combine Irr SB	1		3.67	4.93	8.53	1.33	6.81	2.65	27.92	
10 Truck	Custom									
Total for Field Operations			33.62	54.62	14.78	12.54	21.51	13.99	151.06	

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	0.28	0.48		
Valor XLT	Herbicide	2	33%	3 ounce	5.75	5.69		
RR2 Soybeans	Seed	2	100%	1 bag	50.00	50.00		
Glyphosate w/Surfactant	Herbicide	6	50%	32 ounce	0.12	1.88		
21-0-0-24S	Additive	6	50%	1.7 pound	0.28	0.24		
Select Max	Herbicide	6	40%	6 ounce	0.86	2.06		
Crop Oil Concentrate	Additive	6	40%	2 pint	1.04	0.83		
* 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				4.60	4.60		
Total Materials & Services							96.30	

* Insecticide for Aphids and Caterpillars

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 211.86 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

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

Real Estate Opportunity Gravity (State) \$ 6,070 per acre @ 3.00%
Real Estate Taxes \$ 6,070 per acre @ 1.00%

Total Cost per Acre Including Overhead

Cost per bu

Cash Cost per bu

[~]See benefits of soybeans in a corn/soybean rotation

**2018 Budget 60-Soybeans, Roundup Ready2® Xtend Treated, No Till, after Corn~ (70 bu Actual Yield)
Pivot Irrigated Diesel, 800 GPM 35 PSI, 6 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 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	0.73	0.86	2.54	2.70	3.53	12.76	
3 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4 Aerial Spray	Custom									
5 Aerial Spray	Custom									
6 Pivot D 125' Lift	6	ai	4.17	31.37	2.06	9.68	2.75	5.32	55.35	
7 Combine Irr SB	1		3.67	4.93	8.53	1.33	6.81	2.65	27.92	
8 Truck	Custom									
Total for Field Operations			12.24	37.63	12.15	14.48	14.42	12.35	103.27	

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	0.28	0.48		
Valor XLT	Herbicide	1	100%	3 ounce	5.75	17.25		
RR2 Soybeans Xtend Treated	Seed	2	100%	1 bag	77.00	77.00		
Engenia	Herbicide	3	100%	12.8 ounce	0.94	12.00		
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	2.50	2.50		
* 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				4.68	4.68		
Total Materials & Services							153.78	

* Insecticide for Aphids and Caterpillars

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 230.28 cash expense @ 5.50% for 6.0 mo. 257.05

Total Operating and Use Related Ownership Costs 263.38

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

Real Estate Opportunity Pivot (State) \$ 6,295 per acre @ 3.00% 188.85

Real Estate Taxes \$ 6,295 per acre @ 1.00% 62.95

Total Cost per Acre Including Overhead 535.18

Cost per bu 7.65

Cash Cost per bu 3.38

~See benefits of soybeans in a corn/soybean rotation

**2018 Budget 61-Soybeans, Roundup Ready®, No Till, Narrow Row, Continuous~ (59 bu Actual Yield)
Pivot Irrigated Diesel, 800 GPM 35 PSI, 6 acre/inches**

Field Operations		Times or Qty	Labor @ Unit	Fuel @ \$2.45 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	0.73	0.86	2.54	2.70	3.53	12.76	
3	Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4	Aerial Spray	Custom								
5	Aerial Spray	Custom								
6	Pivot D 125' Lift	6 ai	4.17	31.37	2.06	9.68	2.75	5.32	55.35	
7	Combine Irr SB	1	3.67	4.93	8.53	1.33	6.81	2.65	27.92	
8	Truck	Custom								
Total for Field Operations			12.24	37.63	12.15	14.48	14.42	12.35	103.27	

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	0.28	0.48	
	Valor XLT	Herbicide	1	100%	3 ounce	5.75	17.25	
	RR2 Soybeans Treated	Seed	2	100%	1 bag	62.00	62.00	
	Glyphosate w/Surfactant	Herbicide	3	50%	32 ounce	0.12	1.88	
	21-0-0-24S	Additive	3	50%	1.7 pound	0.28	0.24	
*	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					4.53	4.53	
Total Materials & Services							117.06	

* Insecticide for Aphids and Caterpillars

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital	\$ 193.56	cash expense @	5.50%	for 6.0 mo.	220.33
					5.32
Total Operating and Use Related Ownership Costs					225.65

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

Real Estate Opportunity	Pivot (State)	\$ 6,295	per acre @	3.00%	188.85
Real Estate Taxes		\$ 6,295	per acre @	1.00%	62.95
Total Cost per Acre Including Overhead					497.45

Cost per bu	8.43
Cash Cost per bu	3.37

~Cost to replace P₂O₅ - 0.8 lbs/bushel of yield produced

**2018 Budget 62-Soybeans, Roundup Ready2® Xtend, No Till Drilled 7.5-inch Rows, after Corn~ (73 bu Actual Yield)
Pivot Irrigated Diesel, 800 GPM 35 PSI, 6 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 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	1.43	0.72	1.57	2.25	3.21	11.01	
3 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4 Aerial Spray	Custom									
5 Aerial Spray	Custom									
6 Pivot D 125' Lift	6	ai	4.17	31.37	2.06	9.68	2.75	5.32	55.35	
7 Combine Irr SB	1		3.67	4.93	8.53	1.33	6.81	2.65	27.92	
8 Truck	Custom									
Total for Field Operations			11.67	38.33	12.01	13.51	13.97	12.03	101.52	

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	1	100%	1.7 pound	0.28	0.48	
Valor XLT	Herbicide	1	100%	3 ounce	5.75	17.25	
RR2 Soybeans Xtend Treated	Seed	2	100%	1 bag	77.00	77.00	
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	2.50	2.50	
* 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				4.68	4.68	
Total Materials & Services						154.25	

* Insecticide for Aphids and Caterpillars

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 229.77 cash expense @ 5.50% for 6.0 mo. 255.77

Total Operating and Use Related Ownership Costs 262.09

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

Real Estate Opportunity Pivot (State) \$ 6,295 per acre @ 3.00% 188.85

Real Estate Taxes \$ 6,295 per acre @ 1.00% 62.95

Total Cost per Acre Including Overhead 533.89

Cost per bu 7.31

Cash Cost per bu 3.23

~See benefits of soybeans in a corn/soybean rotation

**2018 Budget 63-Sugarbeet, Roundup Ready®, Panhandle, One Pass Zone-Tillage (26 ton Actual Yield)
Gravity Irrigated, fed by canal, 20 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
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	3.87	0.55	1.82	7.34	0.52	17.77	
5 Rotary Hoe	1		1.50	0.70	0.59	0.37	1.84	1.26	6.26	
6 Row Crop Cultivation	1		2.00	0.90	0.78	0.44	2.45	1.52	8.09	
7 Ridge Cultivate/Ditch	1		1.83	1.25	0.72	0.37	2.25	1.52	7.94	
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	1.70	1.49	0.00	4.66	16.57	27.87	
13 Lift Beets	1		3.67	2.91	0.55	13.70	7.34	5.07	33.24	
14 Truck	Custom									
15 Subsoil	1		2.22	2.58	0.36	0.00	4.89	10.82	20.87	
Total for Field Operations			43.58	16.35	5.69	18.16	35.89	40.45	160.12	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
28-0-0	Fertilizer	2	100%	115 lbs N	0.37	42.17	
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	0.28	0.48	
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	0.28	0.48	
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	0.28	0.48	
Aerial Spray	Custom	11	100%	1 acre	10.00	10.00	
Quadris	Fungicide	11	100%	7 ounce	2.34	16.41	
Haul Beets	Custom	14	100%	26 ton	5.00	130.00	
Scouting Sugar Beets	Scouting		100%	1 acre	16.00	16.00	
	Crop Insurance				19.09	19.09	
Total Materials & Services						523.59	

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 607.37	cash expense @	5.50%	for 6.0 mo.	16.70	
Total Operating and Use Related Ownership Costs				700.41	
Overhead (accounting, liability insurance, vehicle cost, office expense)				20.00	
Real Estate Opportunity	Gravity (Panhandle)	\$ 2,580	per acre @	3.00%	77.40
Real Estate Taxes		\$ 2,580	per acre @	1.00%	25.80
Total Cost per Acre Including Overhead				823.61	

Cost per ton	31.68
Cash Cost per ton	24.00

**2018 Budget 64-Sugarbeet, Roundup Ready®, Panhandle, Conventional Tillage (26 ton Actual Yield)
Gravity Irrigated, fed by canal, 20 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
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	2.25	0.44	0.86	5.87	0.52	12.87	
5 Roller Harrow	1		2.00	1.41	0.86	0.52	2.70	1.52	9.01	
6 Plant	1		2.40	0.77	0.86	2.54	2.70	3.53	12.80	
7 Field Cultivation	2		2.93	3.08	1.15	2.66	3.59	3.02	16.43	
8 Ridge Cultivate/Ditch	1		1.83	1.25	0.72	0.37	2.25	1.52	7.94	
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	1.70	1.49	0.00	4.66	16.57	27.87	
14 Lift Beets	1		3.67	2.91	0.55	13.70	7.34	5.07	33.24	
15 Truck	Custom									
16 Subsoil	1		2.22	2.58	0.36	0.00	4.89	10.82	20.87	
Total for Field Operations			46.67	18.39	7.08	22.11	39.12	45.74	179.11	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
10-34-0	Fertilizer	2	100%	13.4 gallon	2.30	30.82
28-0-0	Fertilizer	2	100%	115 lbs N	0.37	42.17
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	0.28	0.48
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	0.28	0.48
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	0.28	0.48
Aerial Spray	Custom	12	100%	1 acre	10.00	10.00
Quadris	Fungicide	12	100%	7 ounce	2.34	16.41
Haul Beets	Custom	15	100%	26 ton	5.00	130.00
Scouting Sugar Beets	Scouting		100%	1 acre	16.00	16.00
Crop Insurance					19.09	19.09
Total Materials & Services					516.59	

Total listed costs for Field Operations and Materials and Services		695.70
Interest on Operations Capital \$ 610.84 cash expense @ 5.50% for 6.0 mo.		16.80
Total Operating and Use Related Ownership Costs		712.50
Overhead (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity Gravity (Panhandle) \$ 2,580 per acre @ 3.00%		77.40
Real Estate Taxes \$ 2,580 per acre @ 1.00%		25.80
Total Cost per Acre Including Overhead		835.70
Cost per ton		32.14
Cash Cost per ton		24.14

**2018 Budget 65-Sugarbeet, Roundup Ready®, Panhandle, One Pass Zone-Tillage (26 ton Actual Yield)
Pivot Irrigated Diesel, 800 GPM 35 PSI, 16 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
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	3.87	0.55	1.82	7.34	0.52	17.77	
5 Row Crop Cultivation	1		2.00	0.90	0.78	0.44	2.45	1.52	8.09	
6 Spray Herbicide	Custom									
7 Pivot D 125' Lift	16	ai	11.11	83.65	5.49	25.82	7.34	14.17	147.58	
8 Spray Herbicide	Custom									
9 Aerial Spray	Custom									
10 Top Beets	1		3.45	1.70	1.49	0.00	4.66	16.57	27.87	
11 Lift Beets	1		3.67	2.91	0.55	13.70	7.34	5.07	33.24	
12 Truck	Custom									
13 Subsoil	1		2.22	2.58	0.36	0.00	4.89	10.82	20.87	
Total for Field Operations			29.14	98.05	9.87	43.24	39.14	51.84	271.28	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
28-0-0	Fertilizer	2	100%	115 lbs N	0.37	42.17	
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	0.28	0.48	
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	0.28	0.48	
Glyphosate w/Surfactant	Herbicide	8	100%	36 ounce	0.12	4.22	
21-0-0-24S	Additive	8	100%	1.7 pound	0.28	0.48	
Aerial Spray	Custom	9	100%	1 acre	10.00	10.00	
Quadris	Fungicide	9	100%	7 ounce	2.34	16.41	
Haul Beets	Custom	12	100%	26 ton	5.00	130.00	
Scouting Sugar Beets	Scouting		100%	1 acre	26.00	26.00	
	Crop Insurance				19.09	19.09	
Total Materials & Services						489.59	

Total listed costs for Field Operations and Materials and Services						760.87	
Interest on Operations Capital \$ 669.89 cash expense @ 5.50% for 6.0 mo.						18.42	
Total Operating and Use Related Ownership Costs						779.29	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Pivot (Panhandle)	\$ 2,815	per acre @	3.00%		84.45	
Real Estate Taxes		\$ 2,815	per acre @	1.00%		28.15	
Total Cost per Acre Including Overhead						911.89	
Cost per ton						35.07	
Cash Cost per ton						26.47	

**2018 Budget 66-Sugarbeet, Roundup Ready®, Panhandle, Conventional Tillage (26 ton Actual Yield)
Pivot Irrigated Diesel, 800 GPM 35 PSI, 16 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
2 Spray Fertilizer	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
3 Plow	1		2.93	2.25	0.44	0.86	5.87	0.52	12.87	
4 Roller Harrow	1		2.00	1.41	0.86	0.52	2.70	1.52	9.01	
5 Plant	1		2.40	0.77	0.86	2.54	2.70	3.53	12.80	
6 Spray Herbicide	Custom									
7 Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
8 Pivot D 125' Lift	16	ai	11.11	83.65	5.49	25.82	7.34	14.17	147.58	
9 Spray Herbicide	Custom									
10 Aerial Spray	Custom									
11 Top Beets	1		3.45	1.70	1.49	0.00	4.66	16.57	27.87	
12 Lift Beets	1		3.67	2.91	0.55	13.70	7.34	5.07	33.24	
13 Truck	Custom									
14 Subsoil	1		2.22	2.58	0.36	0.00	4.89	10.82	20.87	
Total for Field Operations			32.27	99.25	11.28	46.23	42.42	56.88	288.33	

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	0.37	42.17	
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	0.28	0.48	
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	0.28	0.48	
Aerial Spray	Custom	10	100%	1 acre	10.00	10.00	
Quadris	Fungicide	10	100%	7 ounce	2.34	16.41	
Haul Beets	Custom	13	100%	26 ton	5.00	130.00	
Scouting Sugar Beets	Scouting		100%	1 acre	16.00	16.00	
	Crop Insurance				19.09	19.09	
Total Materials & Services						467.89	

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 656.92	cash expense @	5.50%	for 6.0 mo.	756.22
				18.07
Total Operating and Use Related Ownership Costs				774.29

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

Real Estate Opportunity	Pivot (Panhandle)	\$ 2,815	per acre @	3.00%	84.45	
Real Estate Taxes		\$ 2,815	per acre @	1.00%	28.15	
Total Cost per Acre Including Overhead						906.89

Cost per ton

Cash Cost per ton	34.88
	25.96

**2018 Budget 67-Sunflower, Clearfield, Panhandle, No Till, Following Corn or Grain Sorghum (13 cwt Actual Yield)
Dryland**

Field Operations	Times or Qty	Labor @ Unit	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate	
				Power	Imp.	Power	Imp.			
1 Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06		
2 Spray Herbicide	0.5	0.50	0.15	0.17	0.14	0.54	0.02	1.52		
3 Plant No-Till	1	2.40	0.95	0.86	4.41	2.70	6.13	17.45		
4 Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06		
5 Aerial Spray	Custom									
6 Combine Sunflowers	1	3.14	4.23	7.31	1.53	5.84	4.33	26.38		
7 Truck	Custom									
Total for Field Operations			8.04	5.93	9.04	6.66	11.24	10.56	51.47	

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	0.28	0.48	
Prowl H ₂ O	Herbicide	1	100%	2 pint	6.50	13.00	
28-0-0	Fertilizer	1	100%	50 lbs N	0.37	18.33	
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	0.28	0.24	
Prowl H ₂ O	Herbicide	2	50%	1 pint	6.50	3.25	
Sunflower Clearfield	Seed	3	100%	20 thousand	1.44	28.80	
Beyond	Herbicide	4	50%	4 ounce	4.77	9.53	
NIS	Additive	4	50%	5 ounce	0.09	0.21	
UAN	Additive	4	50%	3 pint	0.16	0.24	
* 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					12.82	12.82	
Total Materials & Services						114.76	

*Insecticide for seed weevil and sunflower moth

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 144.43 cash expense @ 5.50% for 6.0 mo. 166.23

Total Operating and Use Related Ownership Costs 170.20

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

Real Estate Opportunity Dryland (Panhandle) \$ 715 per acre @ 3.00% 21.45

Real Estate Taxes \$ 715 per acre @ 1.00% 7.15

Total Cost per Acre Including Overhead 218.80

Cost per cwt 16.83

Cash Cost per cwt 11.42

**2018 Budget 68-Sunflower, Clearfield, Panhandle, Ecofollow, after Wheat, Two Crops in Three Years (16 cwt Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray (Prior Year Stubble)	1		1.00	0.30	0.35	0.19	1.08	1.33	4.25	
2 Spray (Prior Year Stubble)	1		1.00	0.30	0.35	0.19	1.08	1.33	4.25	
3 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4 Spray Herbicide	0.5		0.50	0.15	0.17	0.14	0.54	0.02	1.52	
5 Plant No-Till	1		2.40	0.95	0.86	4.41	2.70	6.13	17.45	
6 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
7 Aerial Spray	Custom									
8 Combine Sunflowers	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
9 Truck	Custom									
Total for Field Operations			10.04	6.53	9.74	7.04	13.40	13.22	59.97	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate	
			Rate	Unit				
Landmaster BW	Herbicide	1	100%	54	ounce	0.13	7.17	
21-0-0-24S	Additive	1	100%	2	pound	0.28	0.56	
Glyphosate w/Surfactant	Herbicide	2	100%	32	ounce	0.12	3.75	
21-0-0-24S	Additive	2	100%	1.7	pound	0.28	0.48	
Glyphosate w/Surfactant	Herbicide	3	100%	32	ounce	0.12	3.75	
21-0-0-24S	Additive	3	100%	1.7	pound	0.28	0.48	
Prowl H2O	Herbicide	3	100%	2	pint	6.50	13.00	
28-0-0	Fertilizer	3	100%	60	lbs N	0.37	22.00	
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	0.28	0.24	
Prowl H ₂ O	Herbicide	4	50%	1	pint	6.50	3.25	
Sunflower Clearfield	Seed	5	100%	5	thousand	1.44	7.20	
Beyond	Herbicide	6	50%	4	ounce	4.77	9.53	
NIS	Additive	6	50%	5	ounce	0.09	0.21	
UAN	Additive	6	50%	3	pint	0.16	0.24	
* 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					14.00	14.00	
Total Materials & Services							110.87	

*Insecticide for seed weevil and sunflower moth

Total listed costs for Field Operations and Materials and Services							170.84	
Interest on Operations Capital	\$ 144.22	cash expense @	5.50%	for 6.0 mo.			3.97	
Total Operating and Use Related Ownership Costs							174.81	
Overhead (accounting, liability insurance, vehicle cost, office expense)							20.00	
Real Estate Opportunity	Dryland (Panhandle)	\$ 715	per acre @	3.00%			21.45	
Real Estate Taxes		\$ 715	per acre @	1.00%			7.15	
Total Cost per Acre Including Overhead							223.41	
Cost per cwt							13.96	
Cash Cost per cwt							9.26	

**2018 Budget 69-Sunflower, Clearfield, Panhandle, No Till (30 cwt Actual Yield)
Pivot Irrigated, 800 GPM 35 PSI, 8 acre/inches**

Field Operations		Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
2	Spray Fertilizer and Herbicide	1		1.00	0.30	0.35	0.00	1.08	17.38	20.11	
3	Plant No-Till	1		2.40	0.95	0.86	4.41	2.70	6.13	17.45	
4	Spray Herbicide	Custom									
5	Aerial Spray	Custom									
6	Pivot E 125' Lift w/fertigation	8	ai	7.41	23.36	2.34	13.83	4.10	7.59	58.63	
7	Combine Sunflowers	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
8	Truck	Custom									
Total for Field Operations				14.95	29.14	11.21	20.06	14.80	35.47	125.63	

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	
	21-0-0-24S	Additive	1	100%	1.7 pound	0.28	0.48	
	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	0.37	36.67	
	Sunflower Clearfield	Seed	3	100%	3.5 thousand	1.44	5.04	
	10-34-0	Fertilizer	3	100%	4 gallon	2.30	9.20	
	Beyond	Herbicide	4	50%	4 ounce	4.77	9.53	
	NIS	Additive	4	50%	5 ounce	0.09	0.21	
	UAN	Additive	4	50%	3 pint	0.16	0.24	
*	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					18.60	18.60	
Total Materials & Services							156.66	

*Insecticide for seed weevil and sunflower moth

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital	\$ 232.02	cash expense @	5.50%	for 6.0 mo.	6.38
Total Operating and Use Related Ownership Costs					288.67

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

Real Estate Opportunity	Pivot (Panhandle)	\$ 2,815	per acre @	3.00%	84.45
Real Estate Taxes		\$ 2,815	per acre @	1.00%	28.15

Total Cost per Acre Including Overhead 421.27

Cost per cwt 14.04

Cash Cost per cwt 7.95

**2018 Budget 70-Wheat, No Till, Wheat after Row Crop, 55 bu Yield Goal (50 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Labor @ Unit	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate	
				Power	Imp.	Power	Imp.			
1 No-Till Drill	1	1.83	1.43	0.72	1.57	2.25	3.21	11.01		
2 Spray Fertilizer and Herbicide	1	1.00	0.30	0.35	0.00	1.08	17.38	20.11		
3 Aerial Spray	Custom									
4 Aerial Spray	Custom									
5 Combine Small Grain	1	3.14	4.21	7.31	0.94	5.84	2.65	24.09		
6 Truck	Custom									
Total for Field Operations			5.97	5.94	8.38	2.51	9.17	23.24	55.21	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
10-34-0 Fertilizer	1	100%	8 gallon	2.30	18.40	
Wheat (Certified and Treated) Seed	1	100%	90 pound	0.23	20.70	
28-0-0 Fertilizer	2	100%	75 lbs N	0.37	27.50	
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	0.09	0.52	
* 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	
** Lorsban Advanced Insecticide	4	10%	1 pint	6.88	0.69	
** Warrior II/Zeon Insecticide	4	5%	1.92 ounce	2.89	0.28	
Haul Grain Bushels Custom	5	100%	50 bushel	0.11	5.50	
Scouting Dryland Wheat Scouting		100%	1 acre	7.00	7.00	
Crop Insurance				10.30	10.30	
Total Materials & Services					102.96	

*Fungicide for rust

**Insecticide for aphids and army cutworm

Total listed costs for Field Operations and Materials and Services 158.17

Interest on Operations Capital \$ 125.76 cash expense @ 5.50% for 6.0 mo. 3.46

Total Operating and Use Related Ownership Costs 161.63

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

Real Estate Opportunity Dryland (Southwest) \$ 1,710 per acre @ 3.00% 51.30

Real Estate Taxes \$ 1,710 per acre @ 1.00% 17.10

Total Cost per Acre Including Overhead 250.03

Cost per bu 5.00

Cash Cost per bu 2.58

**2018 Budget 71-Wheat, No Till, Fallow, One Crop in Two Years, 65 bu Yield Goal (60 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Labor @ Unit	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
				Power	Imp.	Power	Imp.		
1 Spray (Prior Year Stubble)	1	1.00	0.30	0.35	0.19	1.08	1.33	4.25	
2 Spray (Prior Year Stubble)	1	1.00	0.30	0.35	0.19	1.08	1.33	4.25	
3 Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4 Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06	
5 Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06	
6 No-Till Drill	1	1.83	1.43	0.72	1.57	2.25	3.21	11.01	
7 Spread Fertilizer	1	1.57	0.86	0.68	0.64	2.12	1.51	7.38	
8 Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06	
9 Aerial Spray	Custom								
10 Aerial Spray	Custom								
11 Combine Small Grain	1	3.14	4.21	7.31	0.94	5.84	2.65	24.09	
12 Truck	Custom								
Total for Field Operations		12.54	8.30	10.81	4.69	16.69	10.19	63.22	

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	0.28	0.48
Glyphosate w/Surfactant	Herbicide	2	100%	32 ounce	0.12	3.75
21-0-0-24S	Additive	2	100%	1.7 pound	0.28	0.48
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	0.28	0.48
Glyphosate w/Surfactant	Herbicide	4	100%	32 ounce	0.12	3.75
21-0-0-24S	Additive	4	100%	1.7 pound	0.28	0.48
Glyphosate w/Surfactant	Herbicide	5	100%	32 ounce	0.12	3.75
21-0-0-24S	Additive	5	100%	1.7 pound	0.28	0.48
10-34-0	Fertilizer	6	100%	8 gallon	2.30	18.40
Wheat (Certified and Treated)	Seed	6	100%	60 pound	0.23	13.80
46-0-0	Fertilizer	7	100%	70 lbs N	0.36	25.20
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	0.09	0.52
* 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
** Lorsban Advanced	Insecticide	10	10%	1 pint	6.88	0.69
** Warrior II/Zeon	Insecticide	10	5%	1.92 ounce	2.89	0.28
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					6.92	6.92
Total Materials & Services						117.13

*Fungicide for rust

**Insecticide for aphids and army cutworm

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 153.47 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

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

Real Estate Opportunity Dryland (Panhandle) \$ 1,430 per acre @ 3.00%
Real Estate Taxes \$ 1,430 per acre @ 1.00%

Total Cost per Acre Including Overhead

Cost per bu

Cash Cost per bu

180.35

4.22

184.57

20.00

85.80

28.60

318.97

5.32

2.63

**2018 Budget 72-Wheat, Stubble Mulch Fallow, One Crop in Two Years, 60 bu Yield Goal (55 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Fallow Master	1		1.76	1.94	0.26	0.96	3.52	1.51	9.95	
2 Fallow Master	1		1.76	1.94	0.26	0.96	3.52	1.51	9.95	
3 Fallow Master	1		1.76	1.94	0.26	0.96	3.52	1.51	9.95	
4 Rod Weeder	1		1.52	1.14	0.65	0.23	2.04	0.91	6.49	
5 Rod Weeder	1		1.52	1.14	0.65	0.23	2.04	0.91	6.49	
6 Drill	1		1.76	1.12	0.69	2.94	2.16	2.35	11.02	
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	0.29	1.08	0.04	3.06	
9 Aerial Spray	Custom									
10 Aerial Spray	Custom									
11 Combine Small Grain	1		3.14	4.21	7.31	0.94	5.84	2.65	24.09	
12 Truck	Custom									
Total for Field Operations			15.22	14.03	10.78	7.70	24.80	13.42	85.95	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Wheat (Certified and Treated)	Seed	6	100%	55 pound	0.23	12.65	
28-0-0	Fertilizer	7	100%	65 lbs N	0.37	23.83	
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	0.09	0.52	
* 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	
** Lorsban Advanced	Insecticide	10	10%	1 pint	6.88	0.69	
** Warrior II/Zeon	Insecticide	10	5%	1.92 ounce	2.89	0.28	
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				6.71	6.71	
Total Materials & Services						88.20	

*Fungicide for rust

**Insecticide for aphids and army cutworm

Total listed costs for Field Operations and Materials and Services 174.15

Interest on Operations Capital \$ 135.93 cash expense @ 5.50% for 6.0 mo. 3.74

Total Operating and Use Related Ownership Costs 177.89

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

Real Estate Opportunity Dryland (Panhandle) \$ 1,430 per acre @ 3.00% 85.80

Real Estate Taxes \$ 1,430 per acre @ 1.00% 28.60

Total Cost per Acre Including Overhead 312.29

Cost per bu 5.68

Cash Cost per bu 2.54

**2018 Budget 73-Wheat, Conventional Tillage, One Crop in Two Years, 55 bu Yield Goal (50 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
2 Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
3 Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
4 Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
5 Rod Weeder	1		1.52	1.14	0.65	0.23	2.04	0.91	6.49	
6 Rod Weeder & Fertilizer	1		1.82	1.14	0.65	0.23	2.04	0.91	6.79	
7 Drill	1		1.76	1.12	0.69	2.94	2.16	2.35	11.02	
8 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
9 Aerial Spray	Custom									
10 Aerial Spray	Custom									
11 Combine Small Grain	1		3.14	4.21	7.31	0.94	5.84	2.65	24.09	
12 Truck	Custom									
Total for Field Operations			15.67	14.67	11.69	9.89	22.60	12.53	87.05	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
32-0-0	Fertilizer	6	100%	50 lbs N	0.32	16.00
10-34-0	Fertilizer	7	100%	8 gallon	2.30	18.40
Wheat (Certified and Treated)	Seed	7	100%	50 pound	0.23	11.50
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	0.09	0.52
* 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
** Lorsban Advanced	Insecticide	10	10%	1 pint	6.88	0.69
** Warrior II/Zeon	Insecticide	10	5%	1.92 ounce	2.89	0.28
Haul Grain Bushels	Custom	12	100%	50 bushel	0.11	5.50
Scouting Dryland Wheat	Scouting		100%	1 acre	7.00	7.00
Crop Insurance					6.46	6.46
Total Materials & Services					78.42	

*Fungicide for rust

**Insecticide for aphids and army cutworm

Total listed costs for Field Operations and Materials and Services 165.47

Interest on Operations Capital \$ 130.34 cash expense @ 5.50% for 6.0 mo. 3.58

Total Operating and Use Related Ownership Costs 169.05

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

Real Estate Opportunity Dryland (Panhandle) \$ 1,430 per acre @ 3.00% 85.80

Real Estate Taxes \$ 1,430 per acre @ 1.00% 28.60

Total Cost per Acre Including Overhead 303.45

Cost per bu 6.07

Cash Cost per bu 2.68

**2018 Budget 74-Wheat, No Till, Wheat before Corn, Two Crops in Three Years, 75 bu Yield Goal (70 bu Actual Yield)
Dryland**

Field Operations	Times or Qty	Labor @ Unit	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate	
				Power	Imp.	Power	Imp.			
1 Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06		
2 Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06		
3 Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06		
4 Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06		
5 No-Till Drill	1	1.83	1.43	0.72	1.57	2.25	3.21	11.01		
6 Spread Fertilizer	1	1.57	0.86	0.68	0.64	2.12	1.51	7.38		
7 Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06		
8 Aerial Spray	Custom									
9 Aerial Spray	Custom									
10 Combine Small Grain	1	3.14	4.21	7.31	0.94	5.84	2.65	24.09		
11 Truck	Custom									
Total for Field Operations			11.54	8.00	10.46	4.60	15.61	7.57	57.78	

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
21-0-0-24S	Additive	1	100%	1.7 pound	0.28	0.48
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	0.28	0.48
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	0.28	0.48
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	0.28	0.48
10-34-0	Fertilizer	5	100%	8 gallon	2.30	18.40
Wheat (Certified and Treated)	Seed	5	100%	60 pound	0.23	13.80
46-0-0	Fertilizer	6	100%	80 lbs N	0.36	28.80
Ally Extra SGW/TOTSOL	Herbicide	7	100%	0.3 ounce	9.00	2.70
NIS	Additive	7	100%	6 ounce	0.09	0.52
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
** Lorsban Advanced	Insecticide	9	10%	1 pint	6.88	0.69
** Warrior II/Zeon	Insecticide	9	5%	1.92 ounce	2.89	0.28
Haul Grain Bushels	Custom	11	100%	70 bushel	0.11	7.70
Scouting Dryland Wheat	Scouting		100%	1 acre	7.00	7.00
Crop Insurance					7.12	7.12
Total Materials & Services						119.69

*Fungicide for rust

**Insecticide for aphids and army cutworm

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 154.29 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) \$ 1,710 per acre @ 3.00%
 Real Estate Taxes \$ 1,710 per acre @ 1.00%

Total Cost per Acre Including Overhead

Cost per bu

Cash Cost per bu

177.47
4.24
181.71
20.00
76.95
25.65
304.31
4.35
2.26

**2018 Budget 75-Wheat, No Till, after Beans, 100 bu Yield Goal (90 bu Actual Yield)
Pivot Irrigated Diesel, 800 GPM 35 PSI, 6 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 No-Till Drill	1		1.83	1.43	0.72	1.57	2.25	3.21	11.01	
2 Pivot D 125' Lift	6	ai	4.17	31.37	2.06	9.68	2.75	5.32	55.35	
3 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4 Aerial Spray		Custom								
5 Aerial Spray		Custom								
6 Combine Small Grain	1		3.14	4.21	7.31	0.94	5.84	2.65	24.09	
7 Truck		Custom								
Total for Field Operations			10.14	37.31	10.44	12.48	11.92	11.22	93.51	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
10-34-0 Fertilizer	1	100%	8 gallon	2.30	18.40	
Wheat (Certified and Treated) Seed	1	100%	120 pound	0.23	27.60	
28-0-0 Fertilizer	2	100%	120 lbs N	0.37	44.00	
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	0.09	0.52	
* Aerial Spray Custom	4	100%	1 acre	10.00	10.00	
* Quilt Xcel Fungicide	4	100%	14 ounce	1.64	22.97	
** Aerial Spray Custom	5	15%	1 acre	10.00	1.50	
** Lorsban Advanced Insecticide	5	10%	1 pint	6.88	0.69	
** Warrior II/Zeon Insecticide	5	5%	1.92 ounce	2.89	0.28	
Haul Grain Bushels Custom	7	100%	90 bushel	0.11	9.90	
Scouting Irrigated Wheat Scouting		100%	1 acre	4.50	4.50	
Crop Insurance				10.78	10.78	
Total Materials & Services					154.90	

*Fungicide for rust

**Insecticide for aphids and army cutworm

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 225.27 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) \$ 2,815 per acre @ 3.00%
Real Estate Taxes \$ 2,815 per acre @ 1.00%

Total Cost per Acre Including Overhead

Cost per bu

Cash Cost per bu

248.41	
6.19	
254.60	
20.00	
84.45	
28.15	
387.20	
4.30	
2.57	

2018 Budget 76-Wheat, No Till, in Rotation (85 bu Actual Yield)
Pivot Irrigated Electric, 800 GPM 35 PSI, 6 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
2 No-Till Drill	1		1.83	1.43	0.72	1.57	2.25	3.21	11.01	
3 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4 Pivot E 125' Lift w/fertigation	6	ai	5.56	17.52	1.76	10.38	3.07	5.70	43.99	
5 Aerial Spray	Custom									
6 Aerial Spray	Custom									
7 Combine Small Grain	1		3.14	4.21	7.31	0.94	5.84	2.65	24.09	
8 Truck	Custom									
Total for Field Operations			12.53	23.76	10.49	13.47	13.32	11.64	85.21	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
Valor XLT	Herbicide	1	100%	1.5 ounce	5.75	8.63		
Wheat (Certified and Treated)	Seed	2	100%	120 pound	0.23	27.60		
11-52-0	Fertilizer	2	100%	40 pound	0.24	9.60		
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	0.09	0.52		
32-0-0 (Applied by Pivot)	Fertilizer	4	100%	115 lbs N	0.32	36.80		
Electricity Fixed	Other	4	100%	1 acre	30.00	30.00		
* Aerial Spray	Custom	5	100%	1 acre	10.00	10.00		
* Quilt Xcel	Fungicide	5	100%	14 ounce	1.64	22.97		
** Aerial Spray	Custom	6	15%	1 acre	10.00	1.50		
** Lorsban Advanced	Insecticide	6	10%	1 pint	6.88	0.69		
** Warrior II/Zeon	Insecticide	6	5%	1.92 ounce	2.89	0.28		
Scouting Irrigated Wheat	Scouting		100%	1 acre	4.50	4.50		
Haul Grain Bushels	Custom	8	100%	85 bushel	0.11	9.35		
	Crop Insurance				10.56	10.56		
Total Materials & Services							180.51	

*Fungicide for rust

**Insecticide for aphids and army cutworm

Total listed costs for Field Operations and Materials and Services						265.72	
Interest on Operations Capital	\$ 240.76	cash expense @	5.50%	for 6.0 mo.		6.62	
Total Operating and Use Related Ownership Costs						272.34	

Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Pivot (Panhandle)	\$ 2,815	per acre @	3.00%		84.45	
Real Estate Taxes		\$ 2,815	per acre @	1.00%		28.15	
Total Cost per Acre Including Overhead						404.94	

Cost per bu						4.76	
Cash Cost per bu						2.91	

2018 Budget 77-Cover Crop, Conventional Tillage

Field Operations		Times or Qty	Labor @ Unit	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
			\$20.00 /Hr		Power	Imp.	Power	Imp.		
1	Disk	1	2.02	2.14	0.30	1.27	4.04	1.14	10.91	_____
2	Broadcast Seed	Custom								_____
3	Field Cultivation	1	1.47	1.54	0.58	1.33	1.80	1.51	8.23	_____
Total for Field Operations			3.49	3.68	0.88	2.60	5.84	2.65	19.14	_____
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	_____	
Total Materials & Services								20.00	_____	
Total listed costs for Field Operations and Materials and Services									39.14	_____
Interest on Operations Capital \$ 30.65 cash expense @ 5.50% for 6.0 mo.									0.84	_____
Total Operating and Use Related Ownership Costs									39.98	_____
Overhead (accounting, liability insurance, vehicle cost, office expense)									0.00	_____
Real Estate Opportunity <input type="text"/> \$ - per acre @ 3.00%									0.00	_____
Real Estate Taxes \$ - per acre @ 1.00%									0.00	_____
Total Cost per Acre Including Overhead									39.98	_____

2018 Budget 78-Cover Crop, No Till

Field Operations		Times or Qty	Labor @ Unit	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
			\$20.00 /Hr		Power	Imp.	Power	Imp.		
1	No-Till Drill	1	1.83	1.43	0.72	1.57	2.25	3.21	11.01	
2	Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06	
Total for Field Operations			2.83	1.73	1.07	1.86	3.33	3.25	14.07	
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		
Total Materials & Services									20.88	
Total listed costs for Field Operations and Materials and Services									34.95	
Interest on Operations Capital \$ 28.37 cash expense @ 5.50% for 6.0 mo.									0.78	
Total Operating and Use Related Ownership Costs									35.73	
Overhead (accounting, liability insurance, vehicle cost, office expense)									0.00	
Real Estate Opportunity <input type="text"/> \$ - per acre @ 3.00%									0.00	
Real Estate Taxes \$ - per acre @ 1.00%									0.00	
Total Cost per Acre Including Overhead									35.73	